Automatic reply: Request for marketing material

email: "slmckay@essvote.com McKay, Sue" **Wednesday, August 5, 2020 at 10:10:47 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

I am currently on PTO and will have limited access to email. I will be back in the office on 8/6. I will return your email as soon as possible.
Thank you.

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Request for marketing material

email: "jlovato@eac.gov Jerome Lovato" **Tuesday, January 7, 2020 at 6:24:11 PM Eastern Standard Time**
To: email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "jbowers@eac.gov Jessica Bowers" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue"

Hi Steve,

We received a letter from Free Speech for People and the National Election Defense Coalition today regarding possible misrepresentation of ES&S EAC-certified voting systems. In particular, the letter included marketing material that appears as if the ES&S DS200 with modems has been certified by the EAC. In order to properly respond to this letter and ensure compliance with the EAC's Testing and Certification Program, I am requesting that ES&S submit all marketing material for all ES&S EAC-certified voting systems by COB this Friday, January 10th.

Please let me know if you have any questions.

Thank you,

Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

---

email: "smpearson@essvote.com Pearson, Steve" **Tuesday, January 7, 2020 at 6:28:55 PM Eastern Standard Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "jbowers@eac.gov Jessica Bowers" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Jerome, we'll do that. Can you share with us which marketing piece they state to be misleading?

Steve

> On Jan 7, 2020, at 6:24 PM, Jerome Lovato <jlovato@eac.gov> wrote:

Hi Steve,

We received a letter from Free Speech for People and the National Election Defense Coalition today regarding possible misrepresentation of ES&S EAC-certified voting systems. In particular, the letter included marketing material that appears as if the ES&S DS200 with modems has been certified by the EAC. In order to properly respond to this letter and ensure compliance with the EAC's Testing and Certification Program, I am requesting that ES&S submit all marketing material for all ES&S EAC-certified voting systems by COB this Friday, January 10th.

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Thank you,

Jerome Lovato

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---

email: "smpearson@essvote.com Pearson, Steve" **Tuesday, January 7, 2020 at 6:33:58 PM Eastern Standard Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "jbowers@eac.gov Jessica Bowers" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Jerome, any reason why you can't share the letter with us?

Steve

On Jan 7, 2020, at 6:28 PM, Pearson, Steve <smpearson@essvote.com> wrote:

Jerome, we'll do that. Can you share with us which marketing piece they state to be misleading?

Steve

On Jan 7, 2020, at 6:24 PM, Jerome Lovato <jlovato@eac.gov> wrote:

Hi Steve,

We received a letter from Free Speech for People and the National Election Defense Coalition today regarding possible misrepresentation of ES&S EAC-certified voting systems. In particular, the letter included marketing material that appears as if the ES&S
DS200 with modems has been certified by the EAC. In order to properly respond to this letter and ensure compliance with the EAC's Testing and Certification Program, I am requesting that ES&S submit all marketing material for all ES&S EAC-certified voting systems
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---

email: "kathy.rogers@essvote.com Rogers, Kathy" Tuesday, January 7, 2020 at 6:37:13 PM Eastern Standard Time
To: email: "smpearson@essvote.com Pearson, Steve" , email: "Jerome.Lovato@sos.state.co.us Jerome Lovato"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "jbowers@eac.gov Jessica Bowers" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue" , email: "monica.tesi@essvote.com Tesi, Monica" , email: "katina.granger@essvote.com Granger, Katina"

Jerome,
We have a plethora of marketing material. I agree with Steve, it would be helpful if you could narrow it down? My guess is that they are referring to something that may say that we use approved VSTL's for our modem test but I need to see it to confirm.
If anything incorrectly got released we will absolutely correct it.

Thank you,

Kathy

Ps. Most all of our materials are also readily available on our website.

Sent from my iPhone

On Jan 7, 2020, at 6:28 PM, Pearson, Steve <smpearson@essvote.com> wrote:

Jerome, we'll do that. Can you share with us which marketing piece they state to be misleading?

Steve

On Jan 7, 2020, at 6:24 PM, Jerome Lovato <jlovato@eac.gov> wrote:

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---

email: "jlovato@eac.gov Jerome Lovato" **Tuesday, January 7, 2020 at 6:37:21 PM Eastern Standard Time**
To: email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "jbowers@eac.gov Jessica Bowers" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy"

No reason. It was actually on my mind but didn't translate to my fingers. Please see attached.

On Tue, Jan 7, 2020 at 6:34 PM Pearson, Steve <smpearson@essvote.com> wrote:

> Jerome, any reason why you can't share the letter with us?
>
> Steve
>
> > On Jan 7, 2020, at 6:28 PM, Pearson, Steve <smpearson@essvote.com> wrote:
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> > Jerome, we'll do that. Can you share with us which marketing piece they state to be misleading?
> >
> > Steve
> >
> > > On Jan 7, 2020, at 6:24 PM, Jerome Lovato <jlovato@eac.gov> wrote:

Hi Steve,

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Attachments:

EAC.ESS Letter re modems with Attachments 01.07.20.pdf 4.9M

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email: "smpearson@essvote.com Pearson, Steve" **Tuesday, January 7, 2020 at 6:48:00 PM Eastern Standard Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "jbowers@eac.gov Jessica Bowers" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Thanks Jerome. Browsing through at first glance I am confident we have a valid answer for their accusations. Please allow us to digest their letter and we'll try to have our answers for you soon.

Steve

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, January 7, 2020 5:37 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: Mona Harrington <mharrington@eac.gov>; Jessica Bowers <jbowers@eac.gov>; Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: Re: Request for marketing material

No reason. It was actually on my mind but didn't translate to my fingers. Please see attached.

On Tue, Jan 7, 2020 at 6:34 PM Pearson, Steve <smpearson@essvote.com> wrote:

> Jerome, any reason why you can’t share the letter with us?
>
> Steve

On Jan 7, 2020, at 6:28 PM, Pearson, Steve <smpearson@essvote.com> wrote:

Jerome, we'll do that. Can you share with us which marketing piece they state to be misleading?

Steve

On Jan 7, 2020, at 6:24 PM, Jerome Lovato <jlovato@eac.gov> wrote:

Hi Steve,

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as if the ES&S DS200 with modems has been certified by the EAC. In order to properly respond to this letter and ensure compliance with the EAC's Testing and Certification Program, I am requesting that ES&S submit all marketing material for all ES&S EAC-certified
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by responding to the email and then immediately delete the email.

---

email: "kathy.rogers@essvote.com Rogers, Kathy" Tuesday, January 7, 2020 at 6:50:43 PM Eastern Standard Time
To: email: "jlovato@eac.gov Jerome Lovato" , email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "jbowers@eac.gov Jessica Bowers" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue"

Thank you Jerome. We will review!

Kathy

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, January 7, 2020 6:37 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: Mona Harrington <mharrington@eac.gov>; Jessica Bowers <jbowers@eac.gov>; Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: Re: Request for marketing material

No reason. It was actually on my mind but didn't translate to my fingers. Please see attached.

On Tue, Jan 7, 2020 at 6:34 PM Pearson, Steve <smpearson@essvote.com> wrote:

> Jerome, any reason why you can’t share the letter with us?
>
> Steve

On Jan 7, 2020, at 6:28 PM, Pearson, Steve <smpearson@essvote.com> wrote:

Jerome, we'll do that. Can you share with us which marketing piece they state to be misleading?

Steve

On Jan 7, 2020, at 6:24 PM, Jerome Lovato <jlovato@eac.gov> wrote:

Hi Steve,

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---

email: "jlovato@eac.gov Jerome Lovato" **Tuesday, January 7, 2020 at 6:59:09 PM Eastern Standard Time**
To: email: "kathy.rogers@essvote.com Rogers, Kathy"
Cc: email: "smpearson@essvote.com Pearson, Steve" , email: "mharrington@eac.gov Mona Harrington" , email: "jbowers@eac.gov Jessica Bowers" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue"

Great, thank you.

Jerome

On Tue, Jan 7, 2020 at 6:51 PM Rogers, Kathy <kathy.rogers@essvote.com> wrote:

Thank you Jerome. We will review!

Kathy

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, January 7, 2020 6:37 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: Mona Harrington <mharrington@eac.gov>; Jessica Bowers <jbowers@eac.gov>; Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: Re: Request for marketing material

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> Jerome, any reason why you can’t share the letter with us?

Steve

On Jan 7, 2020, at 6:28 PM, Pearson, Steve <smpearson@essvote.com> wrote:

Jerome, we'll do that. Can you share with us which marketing piece they state to be misleading?

Steve

On Jan 7, 2020, at 6:24 PM, Jerome Lovato <jlovato@eac.gov> wrote:

Hi Steve,

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---

email: "smpearson@essvote.com Pearson, Steve" **Wednesday, January 8, 2020 at 11:40:51 AM Eastern Standard Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "jbowers@eac.gov Jessica Bowers" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Jerome,

Unfortunately, our Marketing manager is unavailable this week to assist with this request. Would it be possible to extend our deliverable to January 17th? This will allow us to better accommodate this request and ensure we've
done a thorough search of or material. Appreciate your consideration on this.

Thanks,

Steve

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, January 7, 2020 5:37 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: Mona Harrington <mharrington@eac.gov>; Jessica Bowers <jbowers@eac.gov>; Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>

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> Jerome, any reason why you can't share the letter with us?
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> Steve
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> On Jan 7, 2020, at 6:28 PM, Pearson, Steve <smpearson@essvote.com> wrote:
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> Jerome, we'll do that. Can you share with us which marketing piece they state to be misleading?
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email: "jbowers@eac.gov Jessica Bowers" **Wednesday, January 8, 2020 at 11:53:46 AM Eastern Standard Time**
To: email: "smpearson@essvote.com Pearson, Steve" , email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Hi Steve,

I'm not sure if Jerome has an out of office autoreply setup but he is traveling most of today. He should be able to respond this evening or tomorrow morning.

Thanks,

Jessica

From: Pearson, Steve <smpearson@essvote.com>
Sent: Wednesday, January 8, 2020 9:41 AM
To: Jerome Lovato <jlovato@eac.gov>
Cc: Mona Harrington <mharrington@eac.gov>; Jessica Bowers <jbowers@eac.gov>; Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>
Subject: RE: Request for marketing material

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Steve

From: Jerome Lovato <jlovato@eac.gov>
Sent: Tuesday, January 7, 2020 5:37 PM
To: Pearson, Steve <smpearson@essvote.com>
Cc: Mona Harrington <mharrington@eac.gov>; Jessica Bowers <jbowers@eac.gov>; Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>
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> Steve
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> > On Jan 7, 2020, at 6:28 PM, Pearson, Steve <smpearson@essvote.com> wrote:
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> > Jerome, we'll do that. Can you share with us which marketing piece they state to be misleading?
> >
> > Steve
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> >
> > > On Jan 7, 2020, at 6:24 PM, Jerome Lovato <jlovato@eac.gov> wrote:
> > >
> > >
> > >
> > > Hi Steve,
> > >
> > >
> > >
> > > We received a letter from Free Speech for People and the National Election Defense Coalition today regarding possible misrepresentation of ES&S EAC-certified voting systems. In particular, the letter included marketing material that appears as if the ES&S DS200 with modems has been certified by the EAC. In order to properly respond to this letter and ensure compliance with the EAC's Testing and Certification Program, I am requesting that ES&S submit all marketing material for all ES&S EAC-certified voting systems by COB this Friday, January 10th.
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> > >
> > >
> > > Please let me know if you have any questions.
> > >
> > >
> > >
> > > Thank you,

Jerome Lovato

Director, Voting System Testing and Certification

U.S. Election Assistance Commission

Ph. 202-805-4613

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email: "smpearson@essvote.com Pearson, Steve" **Wednesday, January 8, 2020 at 12:08:58 PM Eastern Standard Time**
To: email: "jbowers@eac.gov Jessica Bowers"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy" , email: "jlovato@eac.gov Jerome Lovato"

Thank you Jessica.

Steve

From: Jessica Bowers <jbowers@eac.gov>

Sent: Wednesday, January 8, 2020 10:54 AM

To: Pearson, Steve <smpearson@essvote.com>; Jerome Lovato <jlovato@eac.gov>

Cc: Mona Harrington <mharrington@eac.gov>; Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>

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To: Jerome Lovato <jlovato@eac.gov>

Cc: Mona Harrington <mharrington@eac.gov>; Jessica Bowers <jbowers@eac.gov>; Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>;
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voting systems by COB this Friday, January 10th.

Please let me know if you have any questions.

Thank you,

Jerome Lovato

Director, Voting System Testing and Certification

U.S. Election Assistance Commission

Ph. 202-805-4613

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email: "jlovato@eac.gov Jerome Lovato" **Wednesday, January 8, 2020 at 10:45:22 PM Eastern Standard Time**
To: email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "jbowers@eac.gov Jessica Bowers" , email: "mharrington@eac.gov Mona Harrington" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Hi Steve,

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Thank you,
Jerome

On Wed, Jan 8, 2020 at 12:09 PM Pearson, Steve <smpearson@essvote.com> wrote:

Thank you Jessica.

Steve

From: Jessica Bowers <jbowers@eac.gov>

Sent: Wednesday, January 8, 2020 10:54 AM

To: Pearson, Steve <smpearson@essvote.com>; Jerome Lovato <jlovato@eac.gov>

Cc: Mona Harrington <mharrington@eac.gov>; Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>

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email: "smpearson@essvote.com Pearson, Steve" **Wednesday, January 8, 2020 at 11:07:30 PM Eastern Standard Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "jbowers@eac.gov Jessica Bowers" , email: "mharrington@eac.gov Mona Harrington" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy"

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Cc: Mona Harrington <mharrington@eac.gov>; Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>;
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email: "smpearson@essvote.com Pearson, Steve" **Friday, January 17, 2020 at 2:43:15 PM Eastern Standard Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "jbowers@eac.gov Jessica Bowers" , email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Jerome,

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since Monday is a Federal holiday.

If you have any questions, please feel free to contact me directly at any time.

Thank you,

cid:ima

Steve Pearson

Sr. Vice President, Certification

Election Systems & Software |11208 John Galt Blvd | Omaha, NE 68137

Direct: 402-970-1225 | Cell: 402-212-4660 |
smpearson@essvote.com

www.essvote.com

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, January 7, 2020 5:24 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: Mona Harrington <mharrington@eac.gov>; Jessica Bowers <jbowers@eac.gov>; Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>

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Attachments:

image001.jpg 1.9k

EAC Marketing Material Response Letter 1.17.20.pdf 48k

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email: "jlovato@eac.gov Jerome Lovato" **Friday, January 17, 2020 at 3:10:44 PM Eastern Standard Time**
To: email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "jbowers@eac.gov Jessica Bowers" , email: "slmckay@essvote.com McKay, Sue" , email: "mharrington@eac.gov Mona Harrington" , email: "paumayr@eac.gov Paul Aumayr" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Thank you, Steve. I appreciate the timely response. We will review the material and set up a meeting for next steps.

Jerome

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cid:image0

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Please let me know if you have any questions.

Thank you,

Jerome Lovato

Director, Voting System Testing and Certification

U.S. Election Assistance Commission

Ph. 202-805-4613

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--

Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

Attachments:

image001.jpg 1.9k

---

email: "jlovato@eac.gov Jerome Lovato" **Monday, August 3, 2020 at 4:37:28 PM Eastern Daylight Time**
To: email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy" , email: "krayburn@eac.gov Kevin Rayburn" , email: "mharrington@eac.gov Mona Harrington"

Hi Steve,

Just following up on my voice message. We are preparing to place the documentation associated with this matter in our FOIA reading room. I have reviewed the documentation and did not identify any material that is proprietary. Will you please let me know if that is accurate? If not, will you please identify specific documentation that ES&S deems to be proprietary? This is a time sensitive matter so please let me know as soon as you can.

Thank you,

Jerome

On Fri, Jan 17, 2020 at 3:10 PM Jerome Lovato <jlovato@eac.gov> wrote:

Thank you, Steve. I appreciate the timely response. We will review the material and set up a meeting for next steps.

Jerome

On Fri, Jan 17, 2020 at 12:43 PM Pearson, Steve <smpearson@essvote.com> wrote:

Jerome,

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If you have any questions, please feel free to contact me directly at any time.

Thank you,

cid:image0

Steve Pearson

Sr. Vice President, Certification

Election Systems & Software |11208 John Galt Blvd | Omaha, NE 68137

Direct: 402-970-1225 | Cell: 402-212-4660 |
smpearson@essvote.com

www.essvote.com

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, January 7, 2020 5:24 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: Mona Harrington <mharrington@eac.gov>; Jessica Bowers <jbowers@eac.gov>; Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>

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U.S. Election Assistance Commission
Ph. 202-805-4613

Attachments:

image001.jpg 1.9k

---

email: "smpearson@essvote.com Pearson, Steve" **Tuesday, August 4, 2020 at 11:02:25 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy" , email: "krayburn@eac.gov Kevin Rayburn" , email: "mharrington@eac.gov Mona Harrington"

Jerome, I got your message. Let me look into this and we'll get back to you right away. What is the time sensitivity on this?

Thanks,

Steve

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Sent: Monday, August 3, 2020 3:37 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: McKay, Sue <slmckay@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>; Kevin Rayburn <krayburn@eac.gov>; Mona Harrington <mharrington@eac.gov>

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Thank you,

cid:image0

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Direct: 402-970-1225 | Cell: 402-212-4660 |
smpearson@essvote.com

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Cc: Mona Harrington <mharrington@eac.gov>; Jessica Bowers <jbowers@eac.gov>; Paul Aumayr <paumayr@eac.gov>;
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Attachments:

image001.jpg 1.9k

email: "jlovato@eac.gov Jerome Lovato" **Tuesday, August 4, 2020 at 1:44:49 PM Eastern Daylight Time**
To: email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy" , email: "krayburn@eac.gov Kevin Rayburn" , email: "mharrington@eac.gov Mona Harrington"

Thank you, Steve. This Friday.

On Tue, Aug 4, 2020 at 11:02 AM Pearson, Steve <smpearson@essvote.com> wrote:

Jerome, I got your message. Let me look into this and we'll get back to you right away. What is the time sensitivity on this?

Thanks,

Steve

From: Jerome Lovato <jlovato@eac.gov>

Sent: Monday, August 3, 2020 3:37 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: McKay, Sue <slmckay@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>; Kevin Rayburn <krayburn@eac.gov>; Mona Harrington <mharrington@eac.gov>

Subject: Re: Request for marketing material

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On Fri, Jan 17, 2020 at 3:10 PM Jerome Lovato <jlovato@eac.gov> wrote:

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Election Systems & Software |11208 John Galt Blvd | Omaha, NE 68137

Direct: 402-970-1225 | Cell: 402-212-4660 | smpearson@essvote.com

www.essvote.com

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, January 7, 2020 5:24 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: Mona Harrington <mharrington@eac.gov>; Jessica Bowers <jbowers@eac.gov>; Paul Aumayr <paumayr@eac.gov>;
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Attachments:

image001.jpg 1.9k

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email: "smpearson@essvote.com Pearson, Steve" **Wednesday, August 5, 2020 at 9:55:17 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "slmckay@essvote.com McKay, Sue" , email: "kathy.rogers@essvote.com Rogers, Kathy" , email: "krayburn@eac.gov Kevin Rayburn" , email: "mharrington@eac.gov Mona Harrington"

Jerome, you are fine in releasing the material in question. Appreciate you checking with us. Have a great day.

Steve

From: Jerome Lovato <jlovato@eac.gov>

Sent: Monday, August 3, 2020 3:37 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: McKay, Sue <slmckay@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>; Kevin Rayburn <krayburn@eac.gov>; Mona Harrington <mharrington@eac.gov>

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Thank you,

cid:image0

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Direct: 402-970-1225 | Cell: 402-212-4660 |
smpearson@essvote.com

www.essvote.com

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, January 7, 2020 5:24 PM

To: Pearson, Steve <smpearson@essvote.com>

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Attachments:

image001.jpg 1.9k

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email: "jlovato@eac.gov Jerome Lovato" **Wednesday, August 5, 2020 at 10:10:29 AM Eastern Daylight Time**
To: email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "krayburn@eac.gov Kevin Rayburn" , email: "slmckay@essvote.com McKay, Sue" , email: "mharrington@eac.gov Mona Harrington" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Thank you, Steve!

Jerome

On Wed, Aug 5, 2020 at 9:55 AM Pearson, Steve <smpearson@essvote.com> wrote:

> Jerome, you are fine in releasing the material in question. Appreciate you checking with us. Have a great day.
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> Steve
>
> **From:** Jerome Lovato <jlovato@eac.gov>
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> **Sent:** Monday, August 3, 2020 3:37 PM
>
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> **Cc:** McKay, Sue <slmckay@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>; Kevin Rayburn <krayburn@eac.gov>; Mona Harrington <mharrington@eac.gov>
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Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

Attachments:

image001.jpg 1.9k

Updated EAC Manufacturer's Registration Form

email: "pgeppert@hartic.com Pamela Geppert" **Monday, August 3, 2020 at 4:13:51 PM Eastern Daylight Time**
To: email: "JLovato@eac.gov Jerome Lovato (JLovato@eac.gov)"

Jerome,

I've attached an updated Manufacturer's Registration Form. The attachments remain unchanged from the last version.

Please let me know if you have any questions.

Thanks,

Pam

Pam Geppert, PMP, CERV

Director of Certification & Proposals

Hart InterCivic

15500 Wells Port Drive | Austin, TX | 78728

Direct: 512.252.6813 | Mobile: 512.626.4130 | 800.223.HART

pgeppert@hartic.com |
www.hartintercivic.com

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or may constitute as attorney work product. If you are not the intended recipient, you are hereby notified that any use, dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error,
notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

Attachments:

image001.png 1.2k

EAC_Manufacturer Registration_08032020.pdf 2.8M

Supporting Documents.zip 2.1M

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email: "jlovato@eac.gov Jerome Lovato" **Tuesday, August 4, 2020 at 11:43:40 PM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"

Hi Pam,

I will review the updated application and provide feedback on Monday.

Thank you,
Jerome

On Mon, Aug 3, 2020 at 4:14 PM Pamela Geppert <pgeppert@hartic.com> wrote:

Jerome,

I've attached an updated Manufacturer's Registration Form. The attachments remain unchanged from the last version.

Please let me know if you have any questions.

Thanks,

Pam

Pam Geppert, PMP, CERV

Director of Certification & Proposals

Hart InterCivic

15500 Wells Port Drive | Austin, TX | 78728

Direct: 512.252.6813 | Mobile: 512.626.4130 | 800.223.HART

pgeppert@hartic.com |
www.hartintercivic.com

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Attachments:

image001.png 1.2k

---

email: "pgeppert@hartic.com Pamela Geppert" **Wednesday, August 5, 2020 at 9:50:26 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Sounds good. Thank you!

-Pam

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, August 4, 2020 10:44 PM

To: Pamela Geppert <pgeppert@hartic.com>

Subject: Re: Updated EAC Manufacturer's Registration Form

Hi Pam,

I will review the updated application and provide feedback on Monday.

Thank you,

Jerome

On Mon, Aug 3, 2020 at 4:14 PM Pamela Geppert <pgeppert@hartic.com> wrote:

> Jerome,
>
> I've attached an updated Manufacturer's Registration Form. The attachments remain unchanged from the last version.
>
> Please let me know if you have any questions.
>
> Thanks,

Pam

Pam Geppert, PMP, CERV

Director of Certification & Proposals

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Attachments:

image001.png 1.2k

---

email: "jlovato@eac.gov Jerome Lovato" **Tuesday, August 11, 2020 at 7:01:28 PM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"

Hi Pam,

Please see the attached approval.

Thank you,
Jerome

On Wed, Aug 5, 2020 at 9:50 AM Pamela Geppert <pgeppert@hartic.com> wrote:

Sounds good. Thank you!

-Pam

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, August 4, 2020 10:44 PM

To: Pamela Geppert <pgeppert@hartic.com>

Subject: Re: Updated EAC Manufacturer's Registration Form

Hi Pam,

I will review the updated application and provide feedback on Monday.

Thank you,

Jerome

On Mon, Aug 3, 2020 at 4:14 PM Pamela Geppert <pgeppert@hartic.com> wrote:

Jerome,

I've attached an updated Manufacturer's Registration Form. The attachments remain unchanged from the last version.

Please let me know if you have any questions.

Thanks,

Pam

Pam Geppert, PMP, CERV

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Attachments:

image001.png 1.2k

Hart InterCivic manufacturer registration approval 08-11-2020.pdf 64k

---

email: "pgeppert@hartic.com Pamela Geppert" **Tuesday, August 11, 2020 at 7:07:47 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Thank you!

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, August 11, 2020 6:01 PM

To: Pamela Geppert <pgeppert@hartic.com>

Subject: Re: Updated EAC Manufacturer's Registration Form

Hi Pam,

Please see the attached approval.

Thank you,

Jerome

On Wed, Aug 5, 2020 at 9:50 AM Pamela Geppert <pgeppert@hartic.com> wrote:

> Sounds good. Thank you!
>
> -Pam
>
> ---
>
> **From:** Jerome Lovato <jlovato@eac.gov>
>
> **Sent:** Tuesday, August 4, 2020 10:44 PM
>
> **To:** Pamela Geppert <pgeppert@hartic.com>

Subject: Re: Updated EAC Manufacturer's Registration Form

Hi Pam,

I will review the updated application and provide feedback on Monday.

Thank you,

Jerome

On Mon, Aug 3, 2020 at 4:14 PM Pamela Geppert <pgeppert@hartic.com> wrote:

Jerome,

I've attached an updated Manufacturer's Registration Form. The attachments remain unchanged from the last version.

Please let me know if you have any questions.

Thanks,

Pam

Pam Geppert, PMP, CERV

Director of Certification & Proposals

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Attachments:

image001.png 1.2k

Hart Verity 2.5 Timeline

email: "eburton@eac.gov Eugene Burton" **Tuesday, August 4, 2020 at 5:25:56 PM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"

Pam,

With speaking to Jerome regarding Verity 2.5 timeline, he agreed that we will make every effort to move through the certification process.

Eugene

--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

email: "pgeppert@hartic.com Pamela Geppert" **Tuesday, August 4, 2020 at 5:27:35 PM Eastern Daylight Time**
To: email: "eburton@eac.gov Eugene Burton"

Thank you, Eugene, and thank you for the update.

Best.

Pam

From: Eugene Burton <eburton@eac.gov>

Sent: Tuesday, August 4, 2020 4:26 PM

To: Pamela Geppert <pgeppert@hartic.com>

Subject: Hart Verity 2.5 Timeline

Pam,

With speaking to Jerome regarding Verity 2.5 timeline, he agreed that we will make every effort to move through the certification process.

Eugene

--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

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notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

Resolutions

email: "slmckay@essvote.com McKay, Sue" **Monday, August 3, 2020 at 9:41:15 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Morning Jerome,

Would you be able to provide the 4 resolutions that were approved in last Friday's Board of Advisory meeting?

Thank you

Sue L McKay

Vice President of Federal Certification

Election Systems and Software

1-402-321-3840

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---

email: "jlovato@eac.gov Jerome Lovato" **Monday, August 3, 2020 at 3:02:23 PM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"

Hi Sue,

Our legal team is reviewing the resolutions. They will be posted on our website later this week. I will send you the link when they are posted.

Thank you,
Jerome

On Mon, Aug 3, 2020 at 9:41 AM McKay, Sue <slmckay@essvote.com> wrote:

> Morning Jerome,
>
> Would you be able to provide the 4 resolutions that were approved in last Friday's Board of Advisory meeting?

Thank you

Sue L McKay

Vice President of Federal Certification

Election Systems and Software

1-402-321-3840

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---

email: "slmckay@essvote.com McKay, Sue" **Monday, August 3, 2020 at 3:54:33 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Thank you.

From: Jerome Lovato <jlovato@eac.gov>

Sent: Monday, August 03, 2020 2:02 PM

To: McKay, Sue <slmckay@essvote.com>

Subject: Re: Resolutions

Hi Sue,

Our legal team is reviewing the resolutions. They will be posted on our website later this week. I will send you the link when they are posted.

Thank you,

Jerome

On Mon, Aug 3, 2020 at 9:41 AM McKay, Sue <slmckay@essvote.com> wrote:

> Morning Jerome,
>
> Would you be able to provide the 4 resolutions that were approved in last Friday's Board of Advisory meeting?
>
> Thank you

Sue L McKay

Vice President of Federal Certification

Election Systems and Software

1-402-321-3840

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Declined: VVSG 2.0 Implementation Working Group Weekly Meeting @ Fri Aug 7, 2020 1pm - 2pm (EDT) (Gwenyth Winship)

email: "gwenyth.winship@clearballot.com" **Monday, August 3, 2020 at 1:00:13 PM Eastern Daylight Time**
To: email: "mturner@eac.gov"

gwenyth.winship@clearballot.com has declined this invitation with this note:
"Declined because I am out of office"

VVSG 2.0 Implementation Working Group Weekly Meeting

When Fri Aug 7, 2020 1pm – 2pm Eastern Time - New York

Calendar Gwenyth Winship

Who
- mturner@eac.gov - organizer
- mcoutts@unisynvoting.com
- eburton@eac.gov
- jlovato@eac.gov
- ajoiner@eac.gov
- gwenyth.winship@clearballot.com
- zshaw@eac.gov
- mharrington@eac.gov
- jack.cobb@provandv.com
- russ.dawson@clearballot.com
- jfranklin@eac.gov
- ginnyb@microsoft.com
- matt@voting.works
- bhirsch@microvote.com
- jbowers@eac.gov
- paumayr@eac.gov
- ben@voting.works
- oletts@eac.gov
- dmunoz@eac.gov
- smpearson@essvote.com
- mary.brady@nist.gov
- jfleming@eac.gov
- Laskowski, Sharon J. Dr. (Fed)
- Wack, John P. (Ctr)
- aregenscheid@gmail.com
- Howell, Gema E. (Fed)
- Carnahan, Lisa J. (Fed)
- michael.walker@provandv.com
- msantos@slicompliance.com
- edwin.smith@smartmatic.com
- ian.piper@dominionvoting.com
- cortiz@unisynvoting.com
- kathy.rogers@essvote.com
- wendy.owens@provandv.com
- aaron.wilson@cisecurity.org
- tmapps@slicompliance.com
- kay.stimson@dominionvoting.com
- sderheimer@hartic.com
- jcanter@hartic.com
- Edwin Smith
- Wilburg, Patricia (Fed)
- Hallett, Tim
- Richbourg, Paige

Join Zoom Meeting

https://eac-gov.zoom.us/j/3061905854?pwd=UVY4bjAwN3A0SnZlb09jV1BLSERxZz09

Meeting ID: 306 190 5854

Passcode: 04092020

One tap mobile

+13126266799,,3061905854# US (Chicago)

+19292056099,,3061905854# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York)

+1 669 900 6833 US (San Jose)

877 853 5247 US Toll-free

888 788 0099 US Toll-free

Meeting ID: 306 190 5854

Find your local number: https://eac-gov.zoom.us/u/kdZogWnSjg

Invitation from Google Calendar

You are receiving this email at the account mturner@eac.gov because you are subscribed for invitation replies on calendar Gwenyth Winship.

To stop receiving these emails, please log in to https://www.google.com/calendar/ and change your notification settings for this calendar.

Forwarding this invitation could allow any recipient to send a response to the organizer and be added to the guest list, or invite others regardless of their own invitation status, or to modify your RSVP. Learn More.

Attachments:

invite.ics 2.2k

invite.ics 2.2k

Fridays mtg

email: "slmckay@essvote.com McKay, Sue" **Wednesday, July 29, 2020 at 6:19:53 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Jerome,

Can you confirm if we are having the VVSG mtg Friday. I thought it was cancelled due to conflicting mtg you guys have.

Thanks

Sent from my Verizon, Samsung Galaxy smartphone

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email: "jlovato@eac.gov Jerome Lovato" **Thursday, July 30, 2020 at 1:13:42 AM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"

Hi Sue,

Friday's meeting is canceled due to a Standards Board meeting on Friday afternoon.

Thank you,
Jerome

On Wed, Jul 29, 2020 at 6:20 PM McKay, Sue <slmckay@essvote.com> wrote:

> Jerome,
>
> Can you confirm if we are having the VVSG mtg Friday. I thought it was cancelled due to conflicting mtg you guys have.
>
> Thanks
>
> Sent from my Verizon, Samsung Galaxy smartphone
>
> **CONFIDENTIALITY NOTICE:**

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---

email: "slmckay@essvote.com McKay, Sue" **Thursday, July 30, 2020 at 9:36:53 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Thank you, Jerome,

Would you be able to send me the dial in and agenda for the Standards Board meeting? ES&S would like to listen to that call as well.

Sue

From: Jerome Lovato <jlovato@eac.gov>

Sent: Thursday, July 30, 2020 12:14 AM

To: McKay, Sue <slmckay@essvote.com>

Subject: Re: Fridays mtg

Hi Sue,

Friday's meeting is canceled due to a Standards Board meeting on Friday afternoon.

Thank you,

Jerome

On Wed, Jul 29, 2020 at 6:20 PM McKay, Sue <slmckay@essvote.com> wrote:

Jerome,

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email: "jlovato@eac.gov Jerome Lovato" **Thursday, July 30, 2020 at 9:49:46 AM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"

No problem. Here is the info:
https://www.eac.gov/events/2020/07/31/public-hearing-eac-standards-board-annual-meeting

On Thu, Jul 30, 2020 at 7:37 AM McKay, Sue <slmckay@essvote.com> wrote:

> Thank you, Jerome,
>
> Would you be able to send me the dial in and agenda for the Standards Board meeting? ES&S would like to listen to that call as well.
>
> Sue

From: Jerome Lovato <jlovato@eac.gov>

Sent: Thursday, July 30, 2020 12:14 AM

To: McKay, Sue <slmckay@essvote.com>

Subject: Re: Fridays mtg

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Jerome

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Thanks

Sent from my Verizon, Samsung Galaxy smartphone

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Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

Windows ED 20-02 security enhancement for ClearVote

email: "russ.dawson@clearballot.com Russ Dawson" Wednesday, July 29, 2020 at 4:14:44 PM Eastern Daylight Time
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "zshaw@eac.gov Zachary Shaw" , email: "paumayr@eac.gov Paul Aumayr" , email: "gwenyth.winship@clearballot.com Gwenyth Winship"

Hello Jerome.

Today's email message is simply "heads up" in nature about a near term incoming Engineering Change Order from Clear Ballot Group.

CBG has completed extensive internal testing associated with CISA's Emergency Directive 20-02, "Mitigate Windows Vulnerabilities from January 2020 Patch Tuesday."

Provided as a handy reference: https://cyber.dhs.gov/ed/20-02/

Due to successful internal testing, CBG intends to:

- finalize software ECO documents;
- submit them to our designated VSTL for review;
- notify the EAC of our doc submission to the VSTL; and
- await VSTL and EAC determination of de minimis ECO status before applying to our client states.

Also of note and much appreciated is the high level of cooperation demonstrated to Clear Ballot and the EAC by Microsoft regarding Windows O/S patching. As Microsoft stated in its public comments to VVSG 2.0, "....updates do not break systems, they fix and protect systems."

We look forward to coordinating this review with you soon.

That's all for now.

Best, rpd

Russ Dawson
Federal Certification Program Manager
512.350.5720
www.clearballot.com

email: "jlovato@eac.gov Jerome Lovato" Thursday, July 30, 2020 at 1:21:16 AM Eastern Daylight Time
To: email: "russ.dawson@clearballot.com Russ Dawson"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "gwenyth.winship@clearballot.com Gwenyth Winship" , email: "eburton@eac.gov Eugene Burton" , email: "jfleming@eac.gov Jessica Fleming"

Thanks for the heads up, Russ!

Zach, our intern, is no longer at the EAC. I have cc'd Eugene Burton and Jessica Fleming (two new T&C staff) to this reply so that they are informed as well.

Thank you,
Jerome

On Wed, Jul 29, 2020 at 4:16 PM Russ Dawson <russ.dawson@clearballot.com> wrote:

Hello Jerome.

Today's email message is simply "heads up" in nature about a near term incoming Engineering Change Order from Clear Ballot Group.

CBG has completed extensive internal testing associated with CISA's Emergency Directive 20-02, "Mitigate Windows Vulnerabilities from January 2020 Patch Tuesday."

Provided as a handy reference: https://cyber.dhs.gov/ed/20-02/

Due to successful internal testing, CBG intends to:

- finalize software ECO documents;
- submit them to our designated VSTL for review;
- notify the EAC of our doc submission to the VSTL; and
- await VSTL and EAC determination of de minimis ECO status before applying to our client states.

Also of note and much appreciated is the high level of cooperation demonstrated to Clear Ballot and the EAC by Microsoft regarding Windows O/S patching. As Microsoft stated in its public comments to VVSG 2.0, "....updates do not break systems, they fix and protect systems."

We look forward to coordinating this review with you soon.

That's all for now.

Best, rpd

Russ Dawson
Federal Certification Program Manager
512.350.5720
www.clearballot.com

VVSG 2.0 Working Group

email: "smpearson@essvote.com Pearson, Steve" **Tuesday, July 21, 2020 at 2:02:41 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato - EAC (jlovato@eac.gov)"
Cc: email: "kathy.rogers@essvote.com Rogers, Kathy"

Jerome, can you send us the compiled list of comments that John used during last week's meeting? It would be helpful for us to review the sections planned for discussion in advance each week.

Thanks,

Steve

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email: "jlovato@eac.gov Jerome Lovato" **Tuesday, July 21, 2020 at 3:43:13 PM Eastern Daylight Time**
To: email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "kathy.rogers@essvote.com Rogers, Kathy"

Hi Steve,

I thought I shared it on Friday. I will share it with you and Kathy via Google sheets. Will you please confirm when you receive the invitation?

Thank you,
Jerome

On Tue, Jul 21, 2020 at 2:02 PM Pearson, Steve <smpearson@essvote.com> wrote:

> Jerome, can you send us the compiled list of comments that John used during last week's meeting? It would be helpful for us to review the sections planned for discussion in advance each week.
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> Thanks,
>
> Steve
>
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---

email: "kathy.rogers@essvote.com Rogers, Kathy" **Tuesday, July 21, 2020 at 4:15:47 PM Eastern Daylight Time**

To: email: "jlovato@eac.gov Jerome Lovato" , email: "smpearson@essvote.com Pearson, Steve"

Jerome –

Received!

Thank you!

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, July 21, 2020 2:43 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: Rogers, Kathy <kathy.rogers@essvote.com>

Subject: Re: VVSG 2.0 Working Group

Hi Steve,

I thought I shared it on Friday. I will share it with you and Kathy via Google sheets. Will you please confirm when you receive the invitation?

Thank you,

Jerome

On Tue, Jul 21, 2020 at 2:02 PM Pearson, Steve <smpearson@essvote.com> wrote:

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email: "smpearson@essvote.com Pearson, Steve" **Wednesday, July 29, 2020 at 3:52:09 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "kathy.rogers@essvote.com Rogers, Kathy"

Jerome, I have the invitation.

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, July 21, 2020 2:43 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: Rogers, Kathy <kathy.rogers@essvote.com>

Subject: Re: VVSG 2.0 Working Group

Hi Steve,

I thought I shared it on Friday. I will share it with you and Kathy via Google sheets. Will you please confirm when you receive the invitation?

Thank you,

Jerome

On Tue, Jul 21, 2020 at 2:02 PM Pearson, Steve <smpearson@essvote.com> wrote:

> Jerome, can you send us the compiled list of comments that John used during last week's meeting? It would be helpful for us to review the sections planned for discussion in advance each week.
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EAC Request for Information- ExpressPoll

email: "mdunne@eac.gov Margaret Dunne" **Monday, July 13, 2020 at 11:15:49 AM Eastern Daylight Time**
To: email: "smpearson@essvote.com" , email: "Tj.burns@essvote.com" , email: "Kathy.rogers@essvote.com"

Dear Election Systems & Software (ES&S),

My name is Maggie Dunne and I am a Cybersecurity Intern at the Federal Election Assistance Commission. I am reaching out to you on behalf of the EAC to request information about your E-Pollbook technology ExpressPoll. This request is in relation to our clearinghouse function to provide a wide range of information to election officials. The broad categories we would like to understand about your technology are:

1. The Operating System (Windows, etc.)
2. Programming Language
3. Networking (Connected to the internet or self-contained)
4. Hardware
5. The Technology used to run the program (COTS vs. proprietary)
6. Database Software (MySequal, etc.)

Thank you for considering my request.

Please feel free to reply to this email or call me at 914-522-6546 to discuss further. I will follow up with a call to the contact information we have on file.

Best,
Maggie Dunne

email: "smpearson@essvote.com Pearson, Steve" **Tuesday, July 14, 2020 at 5:06:06 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato - EAC (jlovato@eac.gov)" , email: "mdunne@eac.gov Margaret Dunne"
Cc: email: "kathy.rogers@essvote.com Rogers, Kathy"

Jerome and Maggie,

Any chance the four of us could get on a call to discuss the objective of this initiative and allow us to better understand how this information will be used? Kathy and I are both free tomorrow morning until noon eastern if that works for
the two of you.

Let us know. Thanks.

Steve

From: Margaret Dunne <mdunne@eac.gov>

Sent: Monday, July 13, 2020 10:16 AM

To: Pearson, Steve <smpearson@essvote.com>; Burns, TJ <tj.burns@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: EAC Request for Information- ExpressPoll

Dear Election Systems & Software (ES&S),

My name is Maggie Dunne and I am a Cybersecurity Intern at the Federal Election Assistance Commission. I am reaching out to you on behalf of the EAC to request information about your E-Pollbook technology ExpressPoll. This request is in
relation to our clearinghouse function to provide a wide range of information to election officials. The broad categories we would like to understand about your technology are:

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6. Database Software (MySequal, etc.)

Thank you for considering my request. Please feel free to reply to this email or call me at 914-522-6546 to discuss further. I will follow up with a call to the contact information we have on file.

Best,

Maggie Dunne

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email: "jlovato@eac.gov Jerome Lovato" **Wednesday, July 15, 2020 at 2:55:30 AM Eastern Daylight Time**
To: email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "jbowers@eac.gov Jessica Bowers" , email: "mdunne@eac.gov Margaret Dunne" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Hi Steve,

I am available at 5 pm ET tomorrow and 4 pm on Friday. I have copied Jessica since she may be able to provide more information regarding the objective.

Thank you,
Jerome

On Tue, Jul 14, 2020 at 5:06 PM Pearson, Steve <smpearson@essvote.com> wrote:

> Jerome and Maggie,
>
> Any chance the four of us could get on a call to discuss the objective of this initiative and allow us to better understand how this information will be used? Kathy and I are both free tomorrow morning until noon eastern if that works for
> the two of you.

Let us know. Thanks.

Steve

From: Margaret Dunne <mdunne@eac.gov>

Sent: Monday, July 13, 2020 10:16 AM

To: Pearson, Steve <smpearson@essvote.com>; Burns, TJ <tj.burns@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: EAC Request for Information- ExpressPoll

Dear Election Systems & Software (ES&S),

My name is Maggie Dunne and I am a Cybersecurity Intern at the Federal Election Assistance Commission. I am reaching out to you on behalf of the EAC to request information about your E-Pollbook technology ExpressPoll. This request is in
relation to our clearinghouse function to provide a wide range of information to election officials. The broad categories we would like to understand about your technology are:

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Best,

Maggie Dunne

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To find out more Click Here.

--

Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

---

email: "jbowers@eac.gov Jessica Bowers" **Wednesday, July 15, 2020 at 10:29:08 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato" , email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "mdunne@eac.gov Margaret Dunne" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Hi Steve, I'm also available during the times Jerome listed.

I asked Maggie to perform this survey of non-voting election technology. We are not planning to publish information on any individual manufacturer's system – we're only trying to get a better idea of what the cybersecurity threat landscape looks like in general/aggregate so that we can tailor any guidance we provide to election officials with our checklists, guides, etc.

We're under considerable pressure to update and provide additional security information on non-voting election technology and, as you're aware, this isn't a segment the EAC has classically had much visibility into. We appreciate any information you are willing to provide to help with this effort but this is purely voluntary on your part.

Our alternative is what we've done in the past, which is reaching out to state and local jurisdictions for this type of information. I would rather have authoritative information directly from the manufacturers, if possible, but understand that this is sensitive on your end.

Thanks!

Jessica

From: Jerome Lovato <jlovato@eac.gov>
Sent: Wednesday, July 15, 2020 12:56 AM
To: Pearson, Steve <smpearson@essvote.com>
Cc: Jessica Bowers <jbowers@eac.gov>; Margaret Dunne <mdunne@eac.gov>; Rogers, Kathy <kathy.rogers@essvote.com>
Subject: Re: EAC Request for Information- ExpressPoll

Hi Steve,

I am available at 5 pm ET tomorrow and 4 pm on Friday. I have copied Jessica since she may be able to provide more information regarding the objective.

Thank you,

Jerome

On Tue, Jul 14, 2020 at 5:06 PM Pearson, Steve <smpearson@essvote.com> wrote:

> Jerome and Maggie,
>
> Any chance the four of us could get on a call to discuss the objective of this initiative and allow us to better understand how this information will be used? Kathy and I are both free tomorrow morning until noon eastern if that works for the two of you.
>
> Let us know. Thanks.
>
> Steve
>
> **From:** Margaret Dunne <mdunne@eac.gov>
> **Sent:** Monday, July 13, 2020 10:16 AM
> **To:** Pearson, Steve <smpearson@essvote.com>; Burns, TJ <tj.burns@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>
> **Subject:** EAC Request for Information- ExpressPoll
>
> Dear Election Systems & Software (ES&S),
>
> My name is Maggie Dunne and I am a Cybersecurity Intern at the Federal Election Assistance Commission. I am reaching out to you on behalf of the EAC to request information about your E-Pollbook technology ExpressPoll. This request is in relation to our clearinghouse function to provide a wide range of information to election officials. The broad categories we would like to understand about your technology are:
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Best,

Maggie Dunne

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Jerome Lovato

Director, Voting System Testing and Certification

U.S. Election Assistance Commission

Ph. 202-805-4613

email: "smpearson@essvote.com Pearson, Steve" **Wednesday, July 15, 2020 at 10:38:05 AM Eastern Daylight Time**
To: email: "jbowers@eac.gov Jessica Bowers" , email: "jlovato@eac.gov Jerome Lovato" , email: "mdunne@eac.gov Margaret Dunne"
Cc: email: "kathy.rogers@essvote.com Rogers, Kathy"

Let's do 5p eastern today. That works for both Kathy and I as well. I'll send out a meeting invite.

Thanks,

Steve

From: Jessica Bowers <jbowers@eac.gov>

Sent: Wednesday, July 15, 2020 9:29 AM

To: Jerome Lovato <jlovato@eac.gov>; Pearson, Steve <smpearson@essvote.com>

Cc: Margaret Dunne <mdunne@eac.gov>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: RE: EAC Request for Information- ExpressPoll

Hi Steve, I'm also available during the times Jerome listed.

I asked Maggie to perform this survey of non-voting election technology. We are not planning to publish information on any individual manufacturer's system –
we're only trying to get a better idea of what the cybersecurity threat landscape looks like in general/aggregate so that we can tailor any guidance we provide to election officials with our checklists, guides, etc.

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Our alternative is what we've done in the past, which is reaching out to state and local jurisdictions for this type of information. I would rather have authoritative
information directly from the manufacturers, if possible, but understand that this is sensitive on your end.

Thanks!

Jessica

From: Jerome Lovato <jlovato@eac.gov>

Sent: Wednesday, July 15, 2020 12:56 AM

To: Pearson, Steve <smpearson@essvote.com>

Cc: Jessica Bowers <jbowers@eac.gov>; Margaret Dunne <mdunne@eac.gov>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: Re: EAC Request for Information- ExpressPoll

Hi Steve,

I am available at 5 pm ET tomorrow and 4 pm on Friday. I have copied Jessica since she may be able to provide more information regarding the objective.

Thank you,

Jerome

On Tue, Jul 14, 2020 at 5:06 PM Pearson, Steve <smpearson@essvote.com> wrote:

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Let us know. Thanks.

Steve

From: Margaret Dunne <mdunne@eac.gov>

Sent: Monday, July 13, 2020 10:16 AM

To: Pearson, Steve <smpearson@essvote.com>; Burns, TJ <tj.burns@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: EAC Request for Information- ExpressPoll

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we have on file.

Best,

Maggie Dunne

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Director, Voting System Testing and Certification

U.S. Election Assistance Commission

Ph. 202-805-4613

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To find out more Click Here.

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email: "tj.burns@essvote.com Burns, TJ" **Tuesday, July 28, 2020 at 10:11:01 AM Eastern Daylight Time**
To: email: "mdunne@eac.gov Margaret Dunne"

Cc: email: "smpearson@essvote.com Pearson, Steve" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Maggie,

Hope this note finds you well. We appreciate you reaching out and are happy to help, see below for requested information. Please let me know if you have any questions or need further information.

The ES&S ExpressPoll Electronic Pollbook System was designed to accommodate many unique election types, including integration of state-specific requirements. The ExpressPoll gives poll workers a simple-to-operate device that reduces check-in and verification waiting time for voters, increases the accuracy of ballots issued and improves the Election Day experience for all. The ExpressPoll application runs on Microsoft Surface Go Tablets powered by the Windows 10 operating system. This gives poll workers an intuitive, easy-to-understand user interface that's similar to the digital devices they use every day.

1. The Operating System (Windows, etc.)

ES&S Response: ExpressPoll runs on Microsoft Windows 10 Enterprise LTSC 2019.

2. Programming Language

ES&S Response:
C# is the programming language used for the ExpressPoll system.

3. Networking (Connected to the internet or self-contained)

ES&S Response: The ExpressPoll application supports wireless communication and can be configured for use on a LAN (local area network) or WAN (wide area network) to connect multiple ExpressPoll devices operating within a polling location, or additionally, to a central server, or Host. As voters are identified and ballots are issued, updated voter status information is recorded in the device's log file and shared with all other ExpressPoll devices logged in to the same Polling Place and connected to the LAN. If devices are also connected to an external WAN, this information will also be shared with the Host and all other connected pollbooks across the jurisdiction. This sharing of information between devices ensures that no voter at the voting location votes twice.

4. Hardware

ES&S Response: The Microsoft Surface Go (COTS) and the ExpressPoll Terminal Pollbook Stand (Proprietary) are the main components of the ExpressPoll system. The following peripherals are options with the ExpressPoll system as well: ExpressVote Activation Card Printer (optional), Dymo LabelWriter 450 Turbo Printer (COTS), TP Link Router TL-WR902AC (optional), Verizon Jetpack – 8800L (optional), Epson TM-m30 POS 3 Receipt Printer (optional).

5. The Technology used to run the program (COTS vs. proprietary)

ES&S Response: Microsoft Windows 10 Enterprise LTSC 2019 (COTS) and ExpressPoll Software (Proprietary).

6. Database Software (MySequal, etc.)

ES&S Response:
The solution utilizes SQLite and Microsoft SQL Server.

Thanks,

TJ Burns
| State Certification Manager

Election Systems & Software | 11208 John Galt Blvd, Omaha, NE 68137

O: 402-970-1129 C: 248-513-0480 |
tj.burns@essvote.com |
www.essvote.com

From: Margaret Dunne <mdunne@eac.gov>

Sent: Monday, July 13, 2020 10:16 AM

To: Pearson, Steve <smpearson@essvote.com>; Burns, TJ <tj.burns@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: EAC Request for Information- ExpressPoll

Dear Election Systems & Software (ES&S),

My name is Maggie Dunne and I am a Cybersecurity Intern at the Federal Election Assistance Commission. I am reaching out to you on behalf of the EAC to request information about your E-Pollbook technology ExpressPoll. This request is in
relation to our clearinghouse function to provide a wide range of information to election officials. The broad categories we would like to understand about your technology are:

1. The Operating System (Windows, etc.)

2. Programming Language

3. Networking (Connected to the internet or self-contained)

4. Hardware

5. The Technology used to run the program (COTS vs. proprietary)

6. Database Software (MySequal, etc.)

Thank you for considering my request. Please feel free to reply to this email or call me at 914-522-6546 to discuss further. I will follow up with a call to the contact information we have on file.

Best,

Maggie Dunne

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email: "mdunne@eac.gov Margaret Dunne" **Tuesday, July 28, 2020 at 10:16:35 AM Eastern Daylight Time**
To: email: "tj.burns@essvote.com Burns, TJ"
Cc: email: "smpearson@essvote.com Pearson, Steve" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Dear all,

This is very helpful! Thank you for making the time to participate. I will be in touch to update you regarding how this project evolves over the coming weeks.

Best wishes,
Maggie

On Tue, Jul 28, 2020 at 10:11 AM Burns, TJ <tj.burns@essvote.com> wrote:

Maggie,

Hope this note finds you well. We appreciate you reaching out and are happy to help, see below for requested information. Please let me know if you have any questions or need further information.

The ES&S ExpressPoll Electronic Pollbook System was designed to accommodate many unique election types, including integration of state-specific requirements. The ExpressPoll gives poll workers a simple-to-operate device that reduces check-in and verification waiting time for voters, increases the accuracy of ballots issued and improves the Election Day experience for all. The ExpressPoll application runs on Microsoft Surface Go Tablets powered by the Windows 10 operating system. This gives poll workers an intuitive, easy-to-understand user interface that's similar to the digital devices they use every day.

1. The Operating System (Windows, etc.)

ES&S Response: ExpressPoll runs on Microsoft Windows 10 Enterprise LTSC 2019.

2. Programming Language

ES&S Response:
C# is the programming language used for the ExpressPoll system.

3. Networking (Connected to the internet or self-contained)

ES&S Response: The ExpressPoll application supports wireless communication and can be configured for use on a LAN (local area network) or WAN (wide area network) to connect multiple ExpressPoll devices operating within a polling location, or additionally, to a central server, or Host. As voters are identified and ballots are issued, updated voter status information is recorded in the device's log file and shared with all other ExpressPoll devices logged in to the same Polling Place and connected to the LAN. If devices are also connected to an external WAN, this information will also be shared with the Host and all other connected pollbooks across the jurisdiction. This sharing of information between devices ensures that no voter at the voting location votes twice.

4. Hardware

ES&S Response: The Microsoft Surface Go (COTS) and the ExpressPoll Terminal Pollbook Stand (Proprietary) are the main components of the ExpressPoll system. The following peripherals are options with the ExpressPoll system as well: ExpressVote Activation Card Printer (optional), Dymo LabelWriter 450 Turbo Printer (COTS), TP Link Router TL-WR902AC (optional), Verizon Jetpack – 8800L (optional), Epson TM-m30 POS 3 Receipt Printer (optional).

5. The Technology used to run the program (COTS vs. proprietary)

ES&S Response: Microsoft Windows 10 Enterprise LTSC 2019 (COTS) and ExpressPoll Software (Proprietary).

6. Database Software (MySequal, etc.)

ES&S Response:
The solution utilizes SQLite and Microsoft SQL Server.

Thanks,

TJ Burns
| State Certification Manager

Election Systems & Software | 11208 John Galt Blvd, Omaha, NE 68137

O: 402-970-1129 C: 248-513-0480 |
tj.burns@essvote.com |
www.essvote.com

From: Margaret Dunne <mdunne@eac.gov>

Sent: Monday, July 13, 2020 10:16 AM

To: Pearson, Steve <smpearson@essvote.com>; Burns, TJ <tj.burns@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: EAC Request for Information- ExpressPoll

Dear Election Systems & Software (ES&S),

My name is Maggie Dunne and I am a Cybersecurity Intern at the Federal Election Assistance Commission. I am reaching out to you on behalf of the EAC to request information about your E-Pollbook technology ExpressPoll. This request is in
relation to our clearinghouse function to provide a wide range of information to election officials. The broad categories we would like to understand about your technology are:

1. The Operating System (Windows, etc.)

2. Programming Language

3. Networking (Connected to the internet or self-contained)

4. Hardware

5. The Technology used to run the program (COTS vs. proprietary)

6. Database Software (MySequal, etc.)

Thank you for considering my request. Please feel free to reply to this email or call me at 914-522-6546 to discuss further. I will follow up with a call to the contact information we have on file.

Best,

Maggie Dunne

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To find out more Click Here.

Weekly meeting reschedule

email: "pgeppert@hartic.com Pamela Geppert" **Tuesday, July 28, 2020 at 9:32:48 AM Eastern Daylight Time**
To: email: "eburton@eac.gov Eugene Burton"

Hi Eugene,

I received your updated meeting request for 10:30 this morning. Would it be possible to schedule this at a different time? I have a different weekly meeting that conflicts with this time. Please let me know if you're able to accommodate.

Thanks,

Pam

Pam Geppert, PMP, CERV

Director of Certification & Proposals

Hart InterCivic

15500 Wells Port Drive | Austin, TX | 78728

Direct: 512.252.6813 | Mobile: 512.626.4130 | 800.223.HART

pgeppert@hartic.com |
www.hartintercivic.com

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notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

Attachments:

image001.png 1.2k

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email: "eburton@eac.gov Eugene Burton" **Tuesday, July 28, 2020 at 9:52:04 AM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"

Good morning Pam,

I check my zoom account for the meeting time, I'm seeing 11:30 a.m?

Eugene

On Tue, Jul 28, 2020 at 9:48 AM Pamela Geppert <pgeppert@hartic.com> wrote:

> Hi Eugene,
>
> I received your updated meeting request for 10:30 this morning. Would it be possible to schedule this at a different time? I have a different weekly meeting that conflicts with this time. Please let me know if you’re able to accommodate.
>
> Thanks,

Pam

Pam Geppert, PMP, CERV

Director of Certification & Proposals

Hart InterCivic

15500 Wells Port Drive | Austin, TX | 78728

Direct: 512.252.6813 | Mobile: 512.626.4130 | 800.223.HART

pgeppert@hartic.com |
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notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

Attachments:

image001.png 1.2k

email: "pgeppert@hartic.com Pamela Geppert" **Tuesday, July 28, 2020 at 9:53:08 AM Eastern Daylight Time**
To: email: "eburton@eac.gov Eugene Burton"

Sorry, Eugene –

I meant 11:30 Eastern Time, 10:30 Central Time.

Thanks,

Pam

From: Eugene Burton <eburton@eac.gov>

Sent: Tuesday, July 28, 2020 8:52 AM

To: Pamela Geppert <pgeppert@hartic.com>

Subject: Re: Weekly meeting reschedule

Good morning Pam,

I check my zoom account for the meeting time, I'm seeing 11:30 a.m?

Eugene

On Tue, Jul 28, 2020 at 9:48 AM Pamela Geppert <pgeppert@hartic.com> wrote:

> Hi Eugene,
>
> I received your updated meeting request for 10:30 this morning. Would it be possible to schedule this at a different time? I have a different weekly meeting that conflicts with
> this time. Please let me know if you're able to accommodate.
>
> Thanks,
>
> Pam

Pam Geppert, PMP, CERV

Director of Certification & Proposals

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--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

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Attachments:

image001.png 1.2k

Status Update on EVS 6030 and EVS 6110

email: "slmckay@essvote.com McKay, Sue" **Monday, July 27, 2020 at 9:41:59 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr" , email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "smpearson@essvote.com Pearson, Steve" , email: "tjhallett@essvote.com Hallett, Tim" , email: "stephen.han@provandv.com Stephen Han"

Paul and Jerome,

Would you please give us an update for this? Last Tuesday Paul stated he had everything he needed to more forward towards receiving our EAC number. Time is getting extremely short for those states wanting to certify and use these releases
for the November election.

Please let us know if there is anything you need from us.

Sue L McKay

Vice President of Federal Certification

Election Systems and Software

1-402-321-3840

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To find out more Click Here.

---

email: "jlovato@eac.gov Jerome Lovato" **Monday, July 27, 2020 at 10:05:49 AM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "smpearson@essvote.com Pearson, Steve" , email: "tjhallett@essvote.com Hallett, Tim" , email: "stephen.han@provandv.com Stephen Han"

Hi Sue,

I submitted the final docs to Mona for approval last Thursday evening. Just awaiting her approval. I will follow up with her today.

Thank you,
Jerome

On Mon, Jul 27, 2020 at 9:42 AM McKay, Sue <slmckay@essvote.com> wrote:

> Paul and Jerome,

Would you please give us an update for this? Last Tuesday Paul stated he had everything he needed to more forward towards receiving our EAC number. Time is getting extremely short for those states wanting to certify and use these releases
for the November election.

Please let us know if there is anything you need from us.

Sue L McKay

Vice President of Federal Certification

Election Systems and Software

1-402-321-3840

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To find out more Click Here.

email: "slmckay@essvote.com McKay, Sue" **Monday, July 27, 2020 at 10:07:05 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Thanks for the update.

From: Jerome Lovato <jlovato@eac.gov>

Sent: Monday, July 27, 2020 9:06 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Pearson, Steve <smpearson@essvote.com>; Hallett, Tim <tjhallett@essvote.com>; Stephen Han <stephen.han@provandv.com>

Subject: Re: Status Update on EVS 6030 and EVS 6110

Hi Sue,

I submitted the final docs to Mona for approval last Thursday evening. Just awaiting her approval. I will follow up with her today.

Thank you,

Jerome

On Mon, Jul 27, 2020 at 9:42 AM McKay, Sue <slmckay@essvote.com> wrote:

> Paul and Jerome,
>
> Would you please give us an update for this? Last Tuesday Paul stated he had everything he needed to more forward towards receiving our EAC number. Time is getting extremely short for those states wanting to certify and use these releases for the November election.
>
> Please let us know if there is anything you need from us.

Sue L McKay

Vice President of Federal Certification

Election Systems and Software

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Updated Zoom Information for VVSG 2.0 Implementation Working Group for 7/24

email: "mturner@eac.gov Maurice Turner" **Friday, July 24, 2020 at 1:07:01 PM Eastern Daylight Time**
To: email: "aaron.wilson@cisecurity.org" , email: "ajoiner@eac.gov" , email: "aregenscheid@gmail.com" , email: "ben@voting.works" , email: "bhirsch@microvote.com" , email: "cortiz@unisynvoting.com" , email: "dmunoz@eac.gov" , email: "eburton@eac.gov" , email: "edwin.smith@smartmatic.com" , email: "ginnyb@microsoft.com" , email: "gwenyth.winship@clearballot.com" , email: "ian.piper@dominionvoting.com Ian Piper" , email: "jack.cobb@provandv.com" , email: "jbowers@eac.gov" , email: "jcanter@hartic.com" , email: "jfleming@eac.gov" , email: "jfranklin@eac.gov" , email: "john.wack@nist.gov" , email: "kathy.rogers@essvote.com" , email: "kay.stimson@dominionvoting.com Kay Stimson" , email: "mary.brady@nist.gov" , email: "matt@voting.works" , email: "mcoutts@unisynvoting.com" , email: "mharrington@eac.gov" , email: "michael.walker@provandv.com" , email: "msantos@slicompliance.com" , email: "mturner@eac.gov" , email: "oletts@eac.gov" , email: "patricia.wilburg@nist.gov" , email: "paumayr@eac.gov" , email: "russ.dawson@clearballot.com" , email: "sderheimer@hartic.com" , email: "sharon.laskowski@nist.gov" , email: "smpearson@essvote.com" , email: "tjhallett@essvote.com" , email: "tmapps@slicompliance.com" , email: "wendy.owens@provandv.com" , email: "jlovato@eac.gov Jerome Lovato"

Please note the update Zoom information

Join Zoom Meeting

https://eac-gov.zoom.us/j/3061905854?pwd=UVY4bjAwN3A0SnZlb09jV1BLSERxZz09

Meeting ID: 306 190 5854

Passcode: 04092020

One tap mobile

+13126266799,,3061905854# US (Chicago)

+19292056099,,3061905854# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York)

+1 669 900 6833 US (San Jose)

877 853 5247 US Toll-free

Maurice Turner

Senior Advisor

U.S. Election Assistance Commission

mturner@eac.gov | www.eac.gov

---

email: "ben@voting.works Ben Adida" **Friday, July 24, 2020 at 1:08:47 PM Eastern Daylight Time**
To: email: "mturner@eac.gov Maurice Turner"

Running a few minutes late cause kids... be there ASAP.

-Ben

On Fri, Jul 24, 2020 at 10:07 AM Maurice Turner <mturner@eac.gov> wrote:

> ***Please note the update Zoom information***
>
> Join Zoom Meeting
>
> https://eac-gov.zoom.us/j/3061905854?pwd=UVY4bjAwN3A0SnZlb09jV1BLSERxZz09
>
> Meeting ID: 306 190 5854
>
> Passcode: 04092020
>
> One tap mobile

+13126266799,,3061905854# US (Chicago)

+19292056099,,3061905854# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York)

+1 669 900 6833 US (San Jose)

877 853 5247 US Toll-free

Maurice Turner

Senior Advisor

U.S. Election Assistance Commission

mturner@eac.gov | www.eac.gov

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---

email: "mary.brady@nist.gov Brady, Mary C. (Fed)" **Friday, July 24, 2020 at 1:18:49 PM Eastern Daylight Time**
To: email: "mturner@eac.gov Maurice Turner"

Maurice,

I just joined the meeting.

Mary

On: 24 July 2020 13:07,

"Maurice Turner" <mturner@eac.gov> wrote:

Please note the update Zoom information

Join Zoom Meeting

https://eac-gov.zoom.us/j/3061905854?pwd=UVY4bjAwN3A0SnZlb09jV1BLSERxZz09

Meeting ID: 306 190 5854

Passcode: 04092020

One tap mobile

+13126266799,,3061905854# US (Chicago)

+19292056099,,3061905854# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York)

+1 669 900 6833 US (San Jose)

877 853 5247 US Toll-free

Maurice Turner

Senior Advisor

U.S. Election Assistance Commission

mturner@eac.gov |

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in error, please notify the sender by responding to the email and then immediately delete the email.

---

email: "ben@voting.works Ben Adida **Friday, July 24, 2020 at 5:26:45 PM Eastern Daylight Time**
To: email: "mturner@eac.gov Maurice Turner"

So sorry Maurice, the kids logistics thing took over my morning. I'm very sorry I missed this.

I'll be there next week. Would be great to sync up at some point, too, I want to make sure I'm doing everything I can to help.

-Ben

On Fri, Jul 24, 2020 at 10:08 AM Ben Adida <ben@voting.works> wrote:

> Running a few minutes late cause kids... be there ASAP.
>
> -Ben
>
> On Fri, Jul 24, 2020 at 10:07 AM Maurice Turner <mturner@eac.gov> wrote:
>
> > ***Please note the update Zoom information***

Join Zoom Meeting

https://eac-gov.zoom.us/j/3061905854?pwd=UVY4bjAwN3A0SnZlb09jV1BLSERxZz09

Meeting ID: 306 190 5854

Passcode: 04092020

One tap mobile

+13126266799,,3061905854# US (Chicago)

+19292056099,,3061905854# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York)

+1 669 900 6833 US (San Jose)

877 853 5247 US Toll-free

Maurice Turner

Senior Advisor

U.S. Election Assistance Commission

mturner@eac.gov | www.eac.gov

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---

email: "mturner@eac.gov Maurice Turner" **Friday, July 24, 2020 at 7:58:48 PM Eastern Daylight Time**
To: email: "ben@voting.works Ben Adida"

Totally understandable. I appreciate you being part of the process.

Maurice Turner

Senior Advisor

U.S. Election Assistance Commission

mturner@eac.gov | www.eac.gov

From: Ben Adida <ben@voting.works>

Sent: Friday, July 24, 2020 5:26:45 PM

To: Maurice Turner <mturner@eac.gov>

Subject: Re: Updated Zoom Information for VVSG 2.0 Implementation Working Group for 7/24

So sorry Maurice, the kids logistics thing took over my morning. I'm very sorry I missed this.

I'll be there next week. Would be great to sync up at some point, too, I want to make sure I'm doing everything I can to help.

-Ben

On Fri, Jul 24, 2020 at 10:08 AM Ben Adida <ben@voting.works> wrote:

> Running a few minutes late cause kids... be there ASAP.
>
> -Ben

On Fri, Jul 24, 2020 at 10:07 AM Maurice Turner <mturner@eac.gov> wrote:

Please note the update Zoom information

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in error, please notify the sender by responding to the email and then immediately delete the email.

Meeting Notification

email: "ian.piper@dominionvoting.com Ian Piper" **Friday, July 24, 2020 at 1:17:19 PM Eastern Daylight Time**
To: email: "mturner@eac.gov Maurice Turner"
Cc: email: "JLovato@eac.gov Jerome Lovato (JLovato@eac.gov)"

Maurice:

There was confusion in the meeting notification. Under the “Where” header, it has the old URL.

The new URL is further below. I’ve highlighted both of them in YELLOW in a copy of the meeting notice below. After this meeting, you might want to get both of those
links in sync.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

This event has been changed.

VVSG 2.0 Implementation Working Group Weekly Meeting

When Fri Jul 24, 2020 1pm – 2pm Eastern Time - New York

Where https://us02web.zoom.us/j/88536451488?pwd=OWNjcDBaVkJ1L2pjMDY2WFdaZ3R1QT09 (map)

Calendar ian.piper@dominionvoting.com

Who
- jlovato@eac.gov - organizer
- mcoutts@unisynvoting.com
- eburton@eac.gov
- ajoiner@eac.gov
- gwenyth.winship@clearballot.com
- zshaw@eac.gov
- mharrington@eac.gov
- jack.cobb@provandv.com
- russ.dawson@clearballot.com
- jfranklin@eac.gov
- ginnyb@microsoft.com
- matt@voting.works
- bhirsch@microvote.com
- jbowers@eac.gov
- paumayr@eac.gov
- ben@voting.works
- oletts@eac.gov
- mturner@eac.gov
- dmunoz@eac.gov
- smpearson@essvote.com
- mary.brady@nist.gov
- jfleming@eac.gov
- Laskowski, Sharon J. Dr. (Fed)
- Wack, John P. (Ctr)
- aregenscheid@gmail.com
- michael.walker@provandv.com
- msantos@slicompliance.com
- edwin.smith@smartmatic.com
- ian.piper@dominionvoting.com
- cortiz@unisynvoting.com
- kathy.rogers@essvote.com
- wendy.owens@provandv.com
- aaron.wilson@cisecurity.org
- tmapps@slicompliance.com
- kay.stimson@dominionvoting.com
- sderheimer@hartic.com
- jcanter@hartic.com
- Edwin Smith
- Wilburg, Patricia (Fed)
- Hallett, Tim
- Richbourg, Paige

more details »

Changed: Join Zoom Meeting

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888 788 0099 US Toll-free

Meeting ID: 306 190 5854

Find your local number: https://eac-gov.zoom.us/u/kdZogWnSjg

Going (ian.piper@dominionvoting.com)? **Yes** - **Maybe** - **No** more options »

---

email: "mturner@eac.gov Maurice Turner" **Friday, July 24, 2020 at 1:18:51 PM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper"
Cc: email: "JLovato@eac.gov Jerome Lovato (JLovato@eac.gov)"

Thanks for noticing the issue. We'll get that taken care of immediately.

Maurice Turner

Senior Advisor

U.S. Election Assistance Commission

mturner@eac.gov | www.eac.gov

From: Ian Piper <ian.piper@dominionvoting.com>

Sent: Friday, July 24, 2020 1:17:19 PM

To: Maurice Turner <mturner@eac.gov>

Cc: Jerome Lovato (JLovato@eac.gov) <JLovato@eac.gov>

Subject: Meeting Notification

Maurice:

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VVSG 2.0 Implementation Working Group Weekly Meeting

When Fri Jul 24, 2020 1pm – 2pm Eastern Time - New York

Where https://us02web.zoom.us/j/88536451488?pwd=OWNjcDBaVkJ1L2pjMDY2WFdaZ3R1QT09 (map)

Calendar ian.piper@dominionvoting.com

Who
- jlovato@eac.gov - organizer
- mcoutts@unisynvoting.com
- eburton@eac.gov
- ajoiner@eac.gov
- gwenyth.winship@clearballot.com
- zshaw@eac.gov
- mharrington@eac.gov
- jack.cobb@provandv.com
- russ.dawson@clearballot.com
- jfranklin@eac.gov
- ginnyb@microsoft.com
- matt@voting.works
- bhirsch@microvote.com
- jbowers@eac.gov
- paumayr@eac.gov
- ben@voting.works
- oletts@eac.gov
- mturner@eac.gov
- dmunoz@eac.gov
- smpearson@essvote.com
- mary.brady@nist.gov
- jfleming@eac.gov
- Laskowski, Sharon J. Dr. (Fed)
- Wack, John P. (Ctr)
- aregenscheid@gmail.com
- michael.walker@provandv.com
- msantos@slicompliance.com
- edwin.smith@smartmatic.com
- ian.piper@dominionvoting.com
- cortiz@unisynvoting.com
- kathy.rogers@essvote.com
- wendy.owens@provandv.com
- aaron.wilson@cisecurity.org
- tmapps@slicompliance.com
- kay.stimson@dominionvoting.com
- sderheimer@hartic.com
- jcanter@hartic.com
- Edwin Smith
- Wilburg, Patricia (Fed)
- Hallett, Tim
- Richbourg, Paige

more details »

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888 788 0099 US Toll-free

Meeting ID: 306 190 5854

Find your local number: https://eac-gov.zoom.us/u/kdZogWnSjg

Going (ian.piper@dominionvoting.com)? **Yes** - **Maybe** - **No** more options »

VVSG 2.0 Requirements Hearing #3

email: "jlovato@eac.gov Jerome Lovato" **Monday, May 11, 2020 at 4:53:31 PM Eastern Daylight Time**
To: email: "ben@voting.works Ben Adida"
Cc: email: "matt@voting.works Matt Pasternack" , email: "kmuthig@eac.gov Kristen Muthig" , email: "mharrington@eac.gov Mona Harrington"

Greetings Ben,

I hope this email finds you well. The U.S. Election Assistance Commission (EAC) Acting Executive Director, Mona Harrington, requested that I reach out to you as a possible panelist for the upcoming virtual VVSG 2.0 Requirements Hearing 3: Vendors, Technology, & Testing Labs that the EAC is holding on May 20, 2020.

The virtual hearing will address the proposed Voluntary Voting Systems Guidelines (VVSG) 2.0, with regard to building to the new requirements, the associated timeline, considerations, general information on the anticipated feasibility for the vendors, an assessment of the currently proposed technology in the requirements, and ultimately the testing. Vendors are an integral part of this process to ensure the success of the deployment of the new VVSG 2.0 requirements. Your expertise makes you a great resource for this panel, and your participation in this hearing would be greatly appreciated. The EAC is committed to moving this process along as expeditiously as possible to ensure voting machines are accessible, secure, usable, and functional based on modern day standards.

Would you have a few minutes to discuss the possibility of you joining a panel during the hearing?

I know this is a busy time of year, and I appreciate your time and consideration.

Thank you,

Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

---

email: "mharrington@eac.gov Mona Harrington" **Monday, May 11, 2020 at 5:02:13 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

THANK YOU for sending all of these out ;)

From: Jerome Lovato <jlovato@eac.gov>
Sent: Monday, May 11, 2020 4:54 PM
To: Ben Adida <ben@voting.works>
Cc: Matt Pasternack <matt@voting.works>; Kristen Muthig <kmuthig@eac.gov>; Mona Harrington <mharrington@eac.gov>
Subject: VVSG 2.0 Requirements Hearing #3

Greetings Ben,

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Thank you,

Jerome Lovato

Director, Voting System Testing and Certification

U.S. Election Assistance Commission

Ph. 202-805-4613

---

email: "jlovato@eac.gov Jerome Lovato" **Monday, May 11, 2020 at 4:55:48 PM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington"

Glad to help!

On Mon, May 11, 2020 at 4:58 PM Mona Harrington <mharrington@eac.gov> wrote:

THANK YOU for sending all of these out ;)

From: Jerome Lovato <jlovato@eac.gov>
Sent: Monday, May 11, 2020 4:54 PM
To: Ben Adida <ben@voting.works>
Cc: Matt Pasternack <matt@voting.works>; Kristen Muthig <kmuthig@eac.gov>; Mona Harrington <mharrington@eac.gov>
Subject: VVSG 2.0 Requirements Hearing #3

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Thank you,

Jerome Lovato

Director, Voting System Testing and Certification

U.S. Election Assistance Commission

Ph. 202-805-4613

email: "ben@voting.works Ben Adida" **Monday, May 11, 2020 at 5:10:49 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "matt@voting.works Matt Pasternack" , email: "kmuthig@eac.gov Kristen Muthig" , email: "mharrington@eac.gov Mona Harrington"

Jerome,

I would be happy to. I appreciate all the work you and the whole EAC are doing to advance VVSG 2.0, and if I can help in any way, glad to do it.

-Ben

On Mon, May 11, 2020 at 1:58 PM Jerome Lovato <jlovato@eac.gov> wrote:

> Greetings Ben,
>
> I hope this email finds you well. The U.S. Election Assistance Commission (EAC) Acting Executive Director, Mona Harrington, requested that I reach out to you as a possible panelist for the upcoming virtual VVSG 2.0 Requirements Hearing 3: Vendors, Technology, & Testing Labs that the EAC is holding on May 20, 2020.
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> Director, Voting System Testing and Certification
> U.S. Election Assistance Commission
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---

email: "mharrington@eac.gov Mona Harrington" **Friday, July 10, 2020 at 1:46:38 PM Eastern Daylight Time**
To: email: "ben@voting.works Ben Adida"

Can the labs use your system as a pilot test?

From: Ben Adida <ben@voting.works>
Sent: Monday, May 11, 2020 5:11 PM
To: Jerome Lovato <jlovato@eac.gov>
Cc: Matt Pasternack <matt@voting.works>; Kristen Muthig <kmuthig@eac.gov>; Mona Harrington <mharrington@eac.gov>
Subject: Re: VVSG 2.0 Requirements Hearing #3

Jerome,

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-Ben

On Mon, May 11, 2020 at 1:58 PM Jerome Lovato <jlovato@eac.gov> wrote:

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---

email: "ben@voting.works Ben Adida" **Friday, July 10, 2020 at 1:57:49 PM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington"

Hi Mona,

I'm quite open to chatting about it. I'm *very* open to iterating the requirements based on actual testing.

-Ben

On Fri, Jul 10, 2020 at 10:42 AM Mona Harrington <mharrington@eac.gov> wrote:

Can the labs use your system as a pilot test?

From: Ben Adida <ben@voting.works>
Sent: Monday, May 11, 2020 5:11 PM
To: Jerome Lovato <jlovato@eac.gov>
Cc: Matt Pasternack <matt@voting.works>; Kristen Muthig <kmuthig@eac.gov>; Mona Harrington <mharrington@eac.gov>
Subject: Re: VVSG 2.0 Requirements Hearing #3

Jerome,

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On Mon, May 11, 2020 at 1:58 PM Jerome Lovato <jlovato@eac.gov> wrote:

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---

email: "mharrington@eac.gov Mona Harrington" **Friday, July 10, 2020 at 2:01:58 PM Eastern Daylight Time**
To: email: "ben@voting.works Ben Adida"

Let’s chat- we are not getting anywhere on this.

On Jul 10, 2020, at 1:58 PM, Ben Adida <ben@voting.works> wrote:

Hi Mona,

I'm quite open to chatting about it. I'm *very* open to iterating the requirements based on actual testing.

-Ben

On Fri, Jul 10, 2020 at 10:42 AM Mona Harrington <mharrington@eac.gov> wrote:

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> **From:** Ben Adida <ben@voting.works>
> **Sent:** Monday, May 11, 2020 5:11 PM
> **To:** Jerome Lovato <jlovato@eac.gov>
> **Cc:** Matt Pasternack <matt@voting.works>; Kristen Muthig <kmuthig@eac.gov>; Mona Harrington <mharrington@eac.gov>
> **Subject:** Re: VVSG 2.0 Requirements Hearing #3
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U.S. Election Assistance Commission

Ph. 202-805-4613

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---

email: "ben@voting.works Ben Adida" **Friday, July 10, 2020 at 2:57:53 PM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington"

That sounds great. I am "on vacation" next week with family, trying to not work. I could chat maybe a bit this afternoon as I drive to Fedex to ship something to Pro V&V :) Though that might be a bit late for you.

What works for you?

-Ben

On Fri, Jul 10, 2020 at 11:02 AM Mona Harrington <mharrington@eac.gov> wrote:

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> On Jul 10, 2020, at 1:58 PM, Ben Adida <ben@voting.works> wrote:
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> Hi Mona,
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> I'm quite open to chatting about it. I'm *very* open to iterating the requirements based on actual testing.
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> > **Sent:** Monday, May 11, 2020 5:11 PM
> > **To:** Jerome Lovato <jlovato@eac.gov>
> > **Cc:** Matt Pasternack <matt@voting.works>; Kristen Muthig <kmuthig@eac.gov>; Mona Harrington <mharrington@eac.gov>
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Jerome Lovato

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email: "mharrington@eac.gov Mona Harrington" **Friday, July 10, 2020 at 3:03:59 PM Eastern Daylight Time**
To: email: "ben@voting.works Ben Adida"

Want to call today?

2026411346

From: Ben Adida <ben@voting.works>
Sent: Friday, July 10, 2020 2:58 PM
To: Mona Harrington <mharrington@eac.gov>
Subject: Re: VVSG 2.0 Requirements Hearing #3

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email: "ben@voting.works Ben Adida **Friday, July 10, 2020 at 3:07:20 PM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington"

Sure, how late can I call you without encroaching on your personal time?

-Ben

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email: "mharrington@eac.gov Mona Harrington" **Friday, July 10, 2020 at 3:13:21 PM Eastern Daylight Time**
To: email: "ben@voting.works Ben Adida"

Ben, I work till I pass out most days ;) usually 11 PM- no worries

The following week works too.

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email: "ben@voting.works Ben Adida" **Friday, July 10, 2020 at 3:16:46 PM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington"

I see we're part of the same club :)

I can imagine you've got quite the schedule these days.

I'll definitely call today, a couple more meetings first.

-Ben

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email: "ben@voting.works Ben Adida **Friday, July 10, 2020 at 8:05:05 PM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington"

Hi Mona,

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I'm at 415-683-1383, call me if you're free.

-Ben

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>
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email: "mharrington@eac.gov Mona Harrington" **Saturday, July 11, 2020 at 9:24:15 AM Eastern Daylight Time**
To: email: "ben@voting.works Ben Adida"

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From: Ben Adida <ben@voting.works>
Sent: Friday, July 10, 2020 8:05 PM
To: Mona Harrington <mharrington@eac.gov>
Subject: Re: VVSG 2.0 Requirements Hearing #3

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I tried you a bit ago, but maybe the number looked like spam :)

I'm at 415-683-1383, call me if you're free.

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email: "ben@voting.works Ben Adida" **Sunday, July 19, 2020 at 4:59:20 PM Eastern Daylight Time**

To: email: "mharrington@eac.gov Mona Harrington"

Hi Mona,

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Tracking for Verity 2.5 Trusted Build #2 Video Recording

email: "jbernal@hartic.com Jared Bernal" **Wednesday, July 22, 2020 at 4:50:12 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov \'Jerome Lovato\'"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "eburton@eac.gov Eugene Burton" , email: "pgeppert@hartic.com Pamela Geppert"

Good Afternoon Jerome,

The video recording of the second Trusted Build for Verity 2.5 was shipped to the EAC in Silver Spring via FedEx, and is scheduled to arrive on Friday (7/24).

The FedEx Tracking Number is: 168603240600

Best Regards,

Jared Bernal

Senior Regulatory Compliance Engineer

Hart InterCivic

15500 Wells Port Drive | Austin, TX | 78728

Direct: 512.252.6462 | Fax: 512.252.6556 | 800.223.HART

jbernal@hartic.com |
www.hartintercivic.com

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or may constitute as attorney work product. If you are not the intended recipient, you are hereby notified that any use, dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error,
notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

Attachments:

image003.jpg 1.5k

---

email: "jlovato@eac.gov Jerome Lovato" **Wednesday, July 22, 2020 at 8:45:35 PM Eastern Daylight Time**
To: email: "jbernal@hartic.com Jared Bernal"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "eburton@eac.gov Eugene Burton" , email: "pgeppert@hartic.com Pamela Geppert"

Thank you, Jared. Paul will confirm when it has been received.

Jerome

On Wed, Jul 22, 2020 at 4:50 PM Jared Bernal <jbernal@hartic.com> wrote:

Good Afternoon Jerome,

The video recording of the second Trusted Build for Verity 2.5 was shipped to the EAC in Silver Spring via FedEx, and is scheduled to arrive on Friday (7/24).

The FedEx Tracking Number is: 168603240600

Best Regards,

Jared Bernal

Senior Regulatory Compliance Engineer

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notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

Attachments:

image003.jpg 1.5k

EVS 6030 and 6110 Verification Tools

email: "paumayr@eac.gov Paul Aumayr" **Tuesday, July 21, 2020 at 9:32:49 AM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "stephen.han@provandv.com Stephen Han"

Good morning Sue

It looks like we haven't received the system id tools. If you could forward them to me, it'd be much appreciated.

Thanks!

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

email: "slmckay@essvote.com McKay, Sue" **Tuesday, July 21, 2020 at 9:37:50 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "stephen.han@provandv.com Stephen Han"

Morning Paul,

It was delivered on 7/15. I have attached the shipping confirmation.

Sue

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, July 21, 2020 8:33 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: EVS 6030 and 6110 Verification Tools

Good morning Sue

It looks like we haven't received the system id tools. If you could forward them to me, it'd be much appreciated.

Thanks!

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

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Attachments:

Tracking _ UPS - United States.pdf 11k

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email: "paumayr@eac.gov Paul Aumayr" **Tuesday, July 21, 2020 at 9:55:17 AM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "stephen.han@provandv.com Stephen Han"

Thanks Sue

I'm afraid I'm not sure what happened to the package. In checking with the building guards, they don't have it (but did have the package from Pro V&V), and it's not in the office either. I'll look further, but

are you in a position to forward it electronically?

Paul

On Tue, Jul 21, 2020 at 9:39 AM McKay, Sue <slmckay@essvote.com> wrote:

> Morning Paul,
>
> It was delivered on 7/15. I have attached the shipping confirmation.
>
> Sue
>
> **From:** Paul Aumayr <paumayr@eac.gov>
>
> **Sent:** Tuesday, July 21, 2020 8:33 AM
>
> **To:** McKay, Sue <slmckay@essvote.com>
>
> **Cc:** Stephen Han <stephen.han@provandv.com>

Subject: EVS 6030 and 6110 Verification Tools

Good morning Sue

It looks like we haven't received the system id tools. If you could forward them to me, it'd be much appreciated.

Thanks!

Paul

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--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

email: "slmckay@essvote.com McKay, Sue" **Tuesday, July 21, 2020 at 10:05:37 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "stephen.han@provandv.com Stephen Han"

I believe it is too large. If you have the final TDP it is - Section 06 System Security Specification – 01 Verification Procedures and Scripts

That is what is on the CD.

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, July 21, 2020 8:55 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: Re: EVS 6030 and 6110 Verification Tools

Thanks Sue

I'm afraid I'm not sure what happened to the package. In checking with the building guards, they don't have it (but did have the package from Pro V&V), and it's not in the office either. I'll look further, but are you in a position
to forward it electronically?

Paul

On Tue, Jul 21, 2020 at 9:39 AM McKay, Sue <slmckay@essvote.com> wrote:

> Morning Paul,
>
> It was delivered on 7/15. I have attached the shipping confirmation.
>
> Sue

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, July 21, 2020 8:33 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: EVS 6030 and 6110 Verification Tools

Good morning Sue

It looks like we haven't received the system id tools. If you could forward them to me, it'd be much appreciated.

Thanks!

Paul

--

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email: "slmckay@essvote.com McKay, Sue" **Tuesday, July 21, 2020 at 10:10:10 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "stephen.han@provandv.com Stephen Han"

If you don't have access to the TDP maybe Stephen can stage that section for you.

From: McKay, Sue

Sent: Tuesday, July 21, 2020 9:06 AM

To: 'Paul Aumayr' <paumayr@eac.gov>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: RE: EVS 6030 and 6110 Verification Tools

I believe it is too large. If you have the final TDP it is - Section 06 System Security Specification – 01 Verification Procedures and Scripts

That is what is on the CD.

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, July 21, 2020 8:55 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: Re: EVS 6030 and 6110 Verification Tools

Thanks Sue

I'm afraid I'm not sure what happened to the package. In checking with the building guards, they don't have it (but did have the package from Pro V&V), and it's not in the office either. I'll look further, but are you in a position
to forward it electronically?

Paul

On Tue, Jul 21, 2020 at 9:39 AM McKay, Sue <slmckay@essvote.com> wrote:

> Morning Paul,
>
> It was delivered on 7/15. I have attached the shipping confirmation.
>
> Sue

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, July 21, 2020 8:33 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: EVS 6030 and 6110 Verification Tools

Good morning Sue

It looks like we haven't received the system id tools. If you could forward them to me, it'd be much appreciated.

Thanks!

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

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---

email: "paumayr@eac.gov Paul Aumayr" **Tuesday, July 21, 2020 at 10:10:34 AM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "stephen.han@provandv.com Stephen Han"

That I do have. I will work with it.

Thanks!

Paul

On Tue, Jul 21, 2020 at 10:05 AM McKay, Sue <slmckay@essvote.com> wrote:

> I believe it is too large. If you have the final TDP it is - Section 06 System Security Specification – 01 Verification Procedures and Scripts
>
> That is what is on the CD.
>
> **From:** Paul Aumayr <paumayr@eac.gov>
>
> **Sent:** Tuesday, July 21, 2020 8:55 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: Re: EVS 6030 and 6110 Verification Tools

Thanks Sue

I'm afraid I'm not sure what happened to the package. In checking with the building guards, they don't have it (but did have the package from Pro V&V), and it's not in the office either. I'll look further, but are you in a position
to forward it electronically?

Paul

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Morning Paul,

It was delivered on 7/15. I have attached the shipping confirmation.

Sue

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, July 21, 2020 8:33 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: EVS 6030 and 6110 Verification Tools

Good morning Sue

It looks like we haven't received the system id tools. If you could forward them to me, it'd be much appreciated.

Thanks!

Paul

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Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

email: "stephen.han@provandv.com Stephen Han" **Tuesday, July 21, 2020 at 10:15:32 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue"

I believe I sent the complete final TDP in the package that you received from us. I can verify that in about an hour.

To unzip that file, you will need this.

prov&vlab

From: McKay, Sue <slmckay@essvote.com>

Sent: Tuesday, July 21, 2020 9:05:37 AM

To: Paul Aumayr <paumayr@eac.gov>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: RE: EVS 6030 and 6110 Verification Tools

I believe it is too large. If you have the final TDP it is - Section 06 System Security Specification – 01 Verification Procedures and Scripts

That is what is on the CD.

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, July 21, 2020 8:55 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: Re: EVS 6030 and 6110 Verification Tools

Thanks Sue

I'm afraid I'm not sure what happened to the package. In checking with the building guards, they don't have it (but did have the package from Pro V&V), and it's not in the office either. I'll look further, but are you in a position
to forward it electronically?

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>
> Sue

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, July 21, 2020 8:33 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: EVS 6030 and 6110 Verification Tools

Good morning Sue

It looks like we haven't received the system id tools. If you could forward them to me, it'd be much appreciated.

Thanks!

Paul

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---

email: "slmckay@essvote.com McKay, Sue" **Tuesday, July 21, 2020 at 10:16:00 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "stephen.han@provandv.com Stephen Han"

Let me know if you need me to walk you through it.

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, July 21, 2020 9:11 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: Re: EVS 6030 and 6110 Verification Tools

That I do have. I will work with it.

Thanks!

Paul

On Tue, Jul 21, 2020 at 10:05 AM McKay, Sue <slmckay@essvote.com> wrote:

I believe it is too large. If you have the final TDP it is - Section 06 System Security Specification – 01 Verification Procedures and Scripts

That is what is on the CD.

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, July 21, 2020 8:55 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: Re: EVS 6030 and 6110 Verification Tools

Thanks Sue

I'm afraid I'm not sure what happened to the package. In checking with the building guards, they don't have it (but did have the package from Pro V&V), and it's not in the office either. I'll look further, but are you in a position to forward it electronically?

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On Tue, Jul 21, 2020 at 9:39 AM McKay, Sue <slmckay@essvote.com> wrote:

> Morning Paul,
>
> It was delivered on 7/15. I have attached the shipping confirmation.
>
> Sue

From: Paul Aumayr <paumayr@eac.gov>

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To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: EVS 6030 and 6110 Verification Tools

Good morning Sue

It looks like we haven't received the system id tools. If you could forward them to me, it'd be much appreciated.

Thanks!

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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---

email: "paumayr@eac.gov Paul Aumayr" **Tuesday, July 21, 2020 at 10:32:13 AM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "stephen.han@provandv.com Stephen Han"

Thank you both. I think I have everything I need.

Paul

On Tue, Jul 21, 2020 at 10:16 AM McKay, Sue <slmckay@essvote.com> wrote:

> Let me know if you need me to walk you through it.
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> **To:** McKay, Sue <slmckay@essvote.com>
>
> **Cc:** Stephen Han <stephen.han@provandv.com>
>
> **Subject:** Re: EVS 6030 and 6110 Verification Tools
>
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PAumayr@eac.gov

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---

email: "slmckay@essvote.com McKay, Sue" **Wednesday, July 22, 2020 at 11:13:35 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr" , email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "stephen.han@provandv.com Stephen Han"

Paul & Jerome,

After thinking about this last night, ES&S wanted to check to see if you have found the CD. It is very important we find it as it has our company's validation procedures for all our hardware. One of the guards signed for it at your
building. I just don't want this CD to get in the wrong hands. Could you please do more investigating work to try and track it down.

Thank you

Sue

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, July 21, 2020 8:55 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>

Subject: Re: EVS 6030 and 6110 Verification Tools

Thanks Sue

I'm afraid I'm not sure what happened to the package. In checking with the building guards, they don't have it (but did have the package from Pro V&V), and it's not in the office either. I'll look further, but are you in a position
to forward it electronically?

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Good morning Sue

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Thanks!

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---

email: "paumayr@eac.gov Paul Aumayr" **Wednesday, July 22, 2020 at 11:27:22 AM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"

Cc: email: "jlovato@eac.gov Jerome Lovato" , email: "stephen.han@provandv.com Stephen Han"

Sue - we've tracked it down. It's with UPS at the moment, and we'll be getting it in our custody.

Paul

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Paul & Jerome,

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email: "slmckay@essvote.com McKay, Sue" **Wednesday, July 22, 2020 at 11:36:40 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "jlovato@eac.gov Jerome Lovato" , email: "stephen.han@provandv.com Stephen Han"

So they never delivered it? I need to talk to UPS then about why they said it was signed by the guard.

From: Paul Aumayr <paumayr@eac.gov>

Sent: Wednesday, July 22, 2020 10:27 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Jerome Lovato <jlovato@eac.gov>; Stephen Han <stephen.han@provandv.com>

Subject: Re: EVS 6030 and 6110 Verification Tools

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email: "jlovato@eac.gov Jerome Lovato" **Wednesday, July 22, 2020 at 12:15:38 PM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "stephen.han@provandv.com Stephen Han"

Hi Sue,

We had a mix up in internal communication. One of our admin staff has been collecting mail at our office and she delivered the package to me. Paul and I didn't know she was going to do that since Paul was going to the office to pick it up. The package is back in transit to our office. I have clarified the process with our admin staff so this shouldn't happen again.

Jerome

On Wed, Jul 22, 2020 at 11:36 AM McKay, Sue <slmckay@essvote.com> wrote:

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From: Paul Aumayr <paumayr@eac.gov>

Sent: Wednesday, July 22, 2020 10:27 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Jerome Lovato <jlovato@eac.gov>; Stephen Han <stephen.han@provandv.com>

Subject: Re: EVS 6030 and 6110 Verification Tools

Sue - we've tracked it down. It's with UPS at the moment, and we'll be getting it in our custody.

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On Wed, Jul 22, 2020 at 11:13 AM McKay, Sue <slmckay@essvote.com> wrote:

Paul & Jerome,

After thinking about this last night, ES&S wanted to check to see if you have found the CD. It is very important we find it as it has our company's validation procedures for all our hardware. One of the guards signed for it at your building. I just don't want this CD to get in the wrong hands. Could you please do more investigating work to try and track it down.

Thank you

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Cc: Stephen Han <stephen.han@provandv.com>

Subject: Re: EVS 6030 and 6110 Verification Tools

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Morning Paul,

It was delivered on 7/15. I have attached the shipping confirmation.

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From: Paul Aumayr <paumayr@eac.gov>

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Subject: EVS 6030 and 6110 Verification Tools

Good morning Sue

It looks like we haven't received the system id tools. If you could forward them to me, it'd be much appreciated.

Thanks!

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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To find out more Click Here.

--
Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

---

email: "paumayr@eac.gov Paul Aumayr" **Wednesday, July 22, 2020 at 12:16:00 PM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "jlovato@eac.gov Jerome Lovato" , email: "stephen.han@provandv.com Stephen Han"

Sue - no, it was delivered but it was forwarded without telling me. We're looking to change

Paul

On Wed, Jul 22, 2020 at 11:36 AM McKay, Sue <slmckay@essvote.com> wrote:

So they never delivered it? I need to talk to UPS then about why they said it was signed by the guard.

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U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

email: "slmckay@essvote.com McKay, Sue" **Wednesday, July 22, 2020 at 12:17:25 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "stephen.han@provandv.com Stephen Han"

No worries, I just didn't want it to end up in the wrong hands or become a media issue.

Thanks for the clarification.

From: Jerome Lovato <jlovato@eac.gov>

Sent: Wednesday, July 22, 2020 11:16 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Stephen Han <stephen.han@provandv.com>

Subject: Re: EVS 6030 and 6110 Verification Tools

Hi Sue,

We had a mix up in internal communication. One of our admin staff has been collecting mail at our office and she delivered the package to me. Paul and I didn't know she was going to do that since Paul was going to the office to pick it
up. The package is back in transit to our office. I have clarified the process with our admin staff so this shouldn't happen again.

Jerome

On Wed, Jul 22, 2020 at 11:36 AM McKay, Sue <slmckay@essvote.com> wrote:

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Jerome Lovato

Director, Voting System Testing and Certification

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TS Briefing on Elections

email: "Matthew.Masterson@cisa.dhs.gov Masterson, Matthew" **Tuesday, July 21, 2020 at 1:23:10 PM Eastern Daylight Time**
To: email: "dstafford@escambiavotes.com David Stafford" , email: "chris.wlaschin@essvote.com Wlaschin, Chris" , email: "bhovland@eac.gov Ben Hovland" , email: "scott.schwab71@ks.gov scott.schwab71@ks.gov"
Cc: email: "Geoffrey.Hale@cisa.dhs.gov Hale, Geoffrey" , email: "Allison.Snell@cisa.dhs.gov Snell, Allison" , email: "juan.figueroa@cisa.dhs.gov Figueroa, Juan" , email: "christopher.wright@hq.dhs.gov Wright, Christopher" , email: "mharrington@eac.gov Mona Harrington" , email: "bryan.caskey@sos.ks.gov bryan.caskey@sos.ks.gov" , email: "seth.mckinnis@cisa.dhs.gov McKinnis, Seth" , email: "Antonio.Darosa@cisa.dhs.gov DaRosa, Antonio" , email: "james.tipton@cisa.dhs.gov Tipton, James"

Secretary Schwab, Chairman Hovland, Chris and David,

I am reaching out to gauge your availability for a TS briefing for on election related intelligence. The reason I am reaching out to you four for this briefing is because you all represent the 4 election officials that possess a TS clearance
or can be easily given a one day read-in by our partners at ODNI. The purpose of this briefing is to bring you all up to speed on classified reporting regarding the upcoming election and get your feedback on whether or not the information is compelling enough
to necessitate pulling your colleagues from around the country into a SCIF during COVID to brief them. We do not want to risk the health of any of our election colleagues if you do not find the information conveyed worth that risk. We hope you all will serve
as our barometer on this.

We would propose trying to get you all into a SCIF on August 6 or 7? We can work logistics on SCIF access once you all have indicated you are open to receiving the briefing. Please reply to this email indicating if you are willing to sit
for this briefing and if yes, what date and time works best?

Thank you

Matt

Matthew V. Masterson

Senior Cybersecurity Advisor

Department of Homeland Security

Cybersecurity & Infrastructure Security Agency (CISA)

(202)309-1585

Matthew.Masterson@hq.dhs.gov

---

email: "bhovland@eac.gov Benjamin Hovland" **Tuesday, July 21, 2020 at 1:31:11 PM Eastern Daylight Time**
To: email: "Matthew.Masterson@cisa.dhs.gov Masterson, Matthew"
Cc: email: "dstafford@escambiavotes.com David Stafford" , email: "chris.wlaschin@essvote.com Wlaschin, Chris" , email: "scott.schwab71@ks.gov scott.schwab71@ks.gov" , email: "Geoffrey.Hale@cisa.dhs.gov Hale, Geoffrey" , email: "Allison.Snell@cisa.dhs.gov Snell, Allison" , email: "juan.figueroa@cisa.dhs.gov Figueroa, Juan" , email: "christopher.wright@hq.dhs.gov Wright, Christopher" , email: "mharrington@eac.gov Mona Harrington" , email: "bryan.caskey@sos.ks.gov bryan.caskey@sos.ks.gov" , email: "seth.mckinnis@cisa.dhs.gov McKinnis, Seth" , email: "Antonio.Darosa@cisa.dhs.gov DaRosa, Antonio" , email: "james.tipton@cisa.dhs.gov Tipton, James"

Matt,

Thank you for reaching out. I am happy to participate in this effort. I am currently flexible on 8/6 or after 1pm ET on 8/7.

Thanks again,
Ben

Sent from my iPhone

> On Jul 21, 2020, at 1:23 PM, Masterson, Matthew <Matthew.Masterson@cisa.dhs.gov> wrote:
>
> Secretary Schwab, Chairman Hovland, Chris and David,
>
> I am reaching out to gauge your availability for a TS briefing for on election related intelligence. The reason I am reaching out to you four for this briefing is because you all represent the 4 election officials that possess a TS clearance
> or can be easily given a one day read-in by our partners at ODNI. The purpose of this briefing is to bring you all up to speed on classified reporting regarding the upcoming election

and get your feedback on whether or not the information is compelling enough to necessitate pulling your colleagues from around the country into a SCIF during COVID to brief them. We do not want to risk the health of any of our election colleagues if you do not find the information conveyed worth that risk. We hope you all will serve as our barometer on this.

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Matthew V. Masterson

Senior Cybersecurity Advisor

Department of Homeland Security

Cybersecurity & Infrastructure Security Agency (CISA)

(202)309-1585

Matthew.Masterson@hq.dhs.gov

---

email: "mailer-daemon@googlemail.com Mail Delivery Subsystem" **Tuesday, July 21, 2020 at 1:31:13 PM Eastern Daylight Time**
To: email: "bhovland@eac.gov"

Error Icon

Message blocked

Your message to **scott.schwab71@ks.gov** has been blocked. See technical details below for more information.

The response from the remote server was:

550 5.4.1 Recipient address rejected: Access denied. AS(201806281) [DM2GCC01FT005.eop-gcc01.prod.protection.outlook.com]

Attachments:

icon.png 4.6k

---

email: "dstafford@escambiavotes.com David Stafford" **Tuesday, July 21, 2020 at 2:03:26 PM Eastern Daylight Time**
To: email: "bhovland@eac.gov Benjamin Hovland" , email: "Matthew.Masterson@cisa.dhs.gov Masterson, Matthew"
Cc: email: "chris.wlaschin@essvote.com Wlaschin, Chris" , email: "scott.schwab71@ks.gov scott.schwab71@ks.gov" , email: "Geoffrey.Hale@cisa.dhs.gov Hale, Geoffrey" , email: "Allison.Snell@cisa.dhs.gov Snell, Allison" , email: "juan.figueroa@cisa.dhs.gov Figueroa, Juan" , email: "christopher.wright@hq.dhs.gov Wright, Christopher" , email: "mharrington@eac.gov Mona Harrington" , email: "bryan.caskey@sos.ks.gov bryan.caskey@sos.ks.gov" , email: "seth.mckinnis@cisa.dhs.gov McKinnis, Seth" , email: "Antonio.Darosa@cisa.dhs.gov DaRosa, Antonio" , email: "james.tipton@cisa.dhs.gov Tipton, James"

Thanks Matt. I will make myself available either day.

From: Benjamin Hovland <bhovland@eac.gov>

Sent: Tuesday, July 21, 2020 12:31 PM

To: Masterson, Matthew <Matthew.Masterson@cisa.dhs.gov>

Cc: David Stafford <dstafford@escambiavotes.com>; Wlaschin, Chris <chris.wlaschin@essvote.com>; scott.schwab71@ks.gov; Hale, Geoffrey <Geoffrey.Hale@cisa.dhs.gov>; Snell, Allison <Allison.Snell@cisa.dhs.gov>; Figueroa, Juan <juan.figueroa@cisa.dhs.gov>; Wright, Christopher <christopher.wright@hq.dhs.gov>; Mona Harrington <mharrington@eac.gov>; bryan.caskey@sos.ks.gov; McKinnis, Seth <seth.mckinnis@cisa.dhs.gov>; DaRosa, Antonio <Antonio.Darosa@cisa.dhs.gov>; Tipton, James <james.tipton@cisa.dhs.gov>

Subject: [EXTERNAL] Re: TS Briefing on Elections

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Ben

Sent from my iPhone

On Jul 21, 2020, at 1:23 PM, Masterson, Matthew <Matthew.Masterson@cisa.dhs.gov> wrote:

Secretary Schwab, Chairman Hovland, Chris and David,

I am reaching out to gauge your availability for a TS briefing for on election related intelligence. The reason I am reaching out to you four for this briefing is because you all represent the 4 election officials that possess a TS clearance or can be easily given a one day read-in by our partners at ODNI. The purpose of this briefing is to bring you all up to speed on classified reporting regarding the upcoming election and get your feedback on whether or not the information is compelling enough to necessitate pulling your colleagues from around the country into a SCIF during COVID to brief them. We do not want to risk the health of any of our election colleagues if you do not find the information conveyed worth that risk. We hope you all will serve as our barometer on this.

We would propose trying to get you all into a SCIF on August 6 or 7? We can work logistics on SCIF access once you all have indicated you are open to receiving the briefing. Please reply to this email indicating if you are willing to sit for this briefing and if yes, what date and time works best?

Thank you

Matt

Matthew V. Masterson

Senior Cybersecurity Advisor

Department of Homeland Security

Cybersecurity & Infrastructure Security Agency (CISA)

(202)309-1585

Matthew.Masterson@hq.dhs.gov

Confidential Notice: This message may contain Controlled Unclassified Information (CUI) that requires safeguarding or dissemination control under applicable law, regulation, or Government-wide policy. This email, including all attachments, may constitute a Federal record or other Government property that is intended only for the use of the individual or entity to which it is addressed. If you are not the intended recipient or the employee or agent responsible for delivering the transmission to the intended recipient, you are hereby notified that any dissemination, distribution, copying or use of this email or its contents is strictly prohibited. If you have received this email in error, please notify the sender by responding to the email and then immediately delete the email.

---

email: "bhovland@eac.gov Benjamin Hovland" **Tuesday, July 21, 2020 at 2:10:48 PM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington"

Is this a their end thing?

From: Mail Delivery Subsystem <mailer-daemon@googlemail.com>
Sent: Tuesday, July 21, 2020 1:31 PM
To: bhovland@eac.gov
Subject: Delivery Status Notification (Failure)

Error Icon

Message blocked

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```
550 5.4.1 Recipient address rejected: Access denied. AS(201806281) [DM2GCC01FT005.eop-gcc01.prod.protection.outlook.com]
```

Attachments:

image001.png 5.1k

---

email: "chris.wlaschin@essvote.com Wlaschin, Chris" **Tuesday, July 21, 2020 at 2:26:24 PM Eastern Daylight Time**
To: email: "Matthew.Masterson@cisa.dhs.gov Masterson, Matthew" , email: "dstafford@escambiavotes.com David Stafford" , email: "bhovland@eac.gov Ben Hovland" , email: "scott.schwab71@ks.gov scott.schwab71@ks.gov"
Cc: email: "Geoffrey.Hale@cisa.dhs.gov Hale, Geoffrey" , email: "Allison.Snell@cisa.dhs.gov Snell, Allison" , email: "juan.figueroa@cisa.dhs.gov Figueroa, Juan" , email: "christopher.wright@hq.dhs.gov Wright, Christopher" , email: "mharrington@eac.gov Mona Harrington" , email: "bryan.caskey@sos.ks.gov bryan.caskey@sos.ks.gov" , email: "seth.mckinnis@cisa.dhs.gov McKinnis, Seth" , email: "Antonio.Darosa@cisa.dhs.gov DaRosa, Antonio" , email: "james.tipton@cisa.dhs.gov Tipton, James"

Matt and team, I am open from 7am-noon on the 6th and from noon-5pm on the 7th, all times Central. I have approved visitor access requests (VAR's) to several SCIF's in place and can attend here in Omaha or at the Secretary's
location in KS if requested. IF those times don't work let me know and I will move things around.

Thanks

Chris

Chris Wlaschin, CISSP | Vice President Systems Security and CISO | Election Systems & Software

11208 John Galt Blvd. Omaha, NE 68137 | O: 402.938-1450

chris.wlaschin@essvote.com | www.essvote.com

From: Masterson, Matthew <Matthew.Masterson@cisa.dhs.gov>

Sent: Tuesday, July 21, 2020 12:23 PM

To: David Stafford <dstafford@escambiavotes.com>; Wlaschin, Chris <chris.wlaschin@essvote.com>; Ben Hovland <bhovland@eac.gov>; scott.schwab71@ks.gov

Cc: Hale, Geoffrey <Geoffrey.Hale@cisa.dhs.gov>; Snell, Allison <Allison.Snell@cisa.dhs.gov>; Figueroa, Juan <juan.figueroa@cisa.dhs.gov>; Wright, Christopher <christopher.wright@hq.dhs.gov>; Mona Harrington <mharrington@eac.gov>; bryan.caskey@sos.ks.gov; McKinnis, Seth <seth.mckinnis@cisa.dhs.gov>; DaRosa, Antonio <Antonio.Darosa@cisa.dhs.gov>; Tipton, James <james.tipton@cisa.dhs.gov>

Subject: TS Briefing on Elections

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Department of Homeland Security

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Matthew.Masterson@hq.dhs.gov

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To find out more Click Here.

Attachments:

image002.png 3.6k

email: "Matthew.Masterson@cisa.dhs.gov Masterson, Matthew" **Tuesday, July 21, 2020 at 2:38:16 PM Eastern Daylight Time**
To: email: "chris.wlaschin@essvote.com Wlaschin, Chris" , email: "dstafford@escambiavotes.com David Stafford" , email: "bhovland@eac.gov Ben Hovland" , email: "scott.schwab72@ks.gov scott.schwab72@ks.gov"
Cc: email: "Geoffrey.Hale@cisa.dhs.gov Hale, Geoffrey" , email: "Allison.Snell@cisa.dhs.gov Snell, Allison" , email: "juan.figueroa@cisa.dhs.gov Figueroa, Juan" , email: "christopher.wright@hq.dhs.gov Wright, Christopher" , email: "mharrington@eac.gov Mona Harrington" , email: "bryan.caskey@sos.ks.gov bryan.caskey@sos.ks.gov" , email: "seth.mckinnis@cisa.dhs.gov McKinnis, Seth" , email: "Antonio.Darosa@cisa.dhs.gov DaRosa, Antonio" , email: "james.tipton@cisa.dhs.gov Tipton, James"

<resending because I had a typo in SOS Schwab's email. Apologies>

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Matthew V. Masterson

Senior Cybersecurity Advisor

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(202)309-1585

Matthew.Masterson@cisa.dhs.gov

From: Wlaschin, Chris <chris.wlaschin@essvote.com>

Sent: Tuesday, July 21, 2020 2:27 PM

To: Masterson, Matthew; David Stafford; Ben Hovland; scott.schwab71@ks.gov

Cc: Hale, Geoffrey; Snell, Allison; Figueroa, Juan; Wright, Christopher; Mona Harrington; bryan.caskey@sos.ks.gov; McKinnis, Seth; DaRosa, Antonio; Tipton, James

Subject: RE: TS Briefing on Elections

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Chris

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chris.wlaschin@essvote.com | www.essvote.com

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Sent: Tuesday, July 21, 2020 12:23 PM

To: David Stafford <dstafford@escambiavotes.com>; Wlaschin, Chris <chris.wlaschin@essvote.com>; Ben Hovland <bhovland@eac.gov>; scott.schwab71@ks.gov

Cc: Hale, Geoffrey <Geoffrey.Hale@cisa.dhs.gov>; Snell, Allison <Allison.Snell@cisa.dhs.gov>; Figueroa, Juan <juan.figueroa@cisa.dhs.gov>; Wright, Christopher <christopher.wright@hq.dhs.gov>; Mona Harrington <mharrington@eac.gov>; bryan.caskey@sos.ks.gov; McKinnis, Seth <seth.mckinnis@cisa.dhs.gov>; DaRosa, Antonio <Antonio.Darosa@cisa.dhs.gov>; Tipton, James <james.tipton@cisa.dhs.gov>

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Click Here.

Attachments:

image002.png 3.6k

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email: "bhovland@eac.gov Benjamin Hovland" **Tuesday, July 21, 2020 at 2:49:04 PM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington"

Solved – Masterson typo

From: Benjamin Hovland <bhovland@eac.gov>
Sent: Tuesday, July 21, 2020 2:11 PM
To: 'Mona Harrington' <mharrington@eac.gov>
Subject: FW: Delivery Status Notification (Failure)

Is this a their end thing?

From: Mail Delivery Subsystem <mailer-daemon@googlemail.com>
Sent: Tuesday, July 21, 2020 1:31 PM
To: bhovland@eac.gov
Subject: Delivery Status Notification (Failure)

Error Icon

Message blocked

Your message to **scott.schwab71@ks.gov** has been blocked. See technical details below for more information.

The response from the remote server was:

```
550 5.4.1 Recipient address rejected: Access denied. AS(201806281) [DM2GCC01FT005.eop-gcc01.prod.protection.outlook.com]
```

Attachments:

image002.png 5.1k

---

email: "mharrington@eac.gov Mona Harrington" **Tuesday, July 21, 2020 at 4:20:07 PM Eastern Daylight Time**
To: email: "bhovland@eac.gov Benjamin Hovland"

great

From: Benjamin Hovland <bhovland@eac.gov>
Sent: Tuesday, July 21, 2020 2:49 PM

To: Mona Harrington <mharrington@eac.gov>
Subject: RE: Delivery Status Notification (Failure)

Solved – Masterson typo

From: Benjamin Hovland <bhovland@eac.gov>
Sent: Tuesday, July 21, 2020 2:11 PM
To: 'Mona Harrington' <mharrington@eac.gov>
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email: "Matthew.Masterson@cisa.dhs.gov Masterson, Matthew" **Monday, July 27, 2020 at 1:57:57 PM Eastern Daylight Time**
To: email: "chris.wlaschin@essvote.com Wlaschin, Chris" , email: "dstafford@escambiavotes.com David Stafford" , email: "bhovland@eac.gov Ben Hovland" , email: "Scott.Schwab72@ks.gov Schwab72, Scott"
Cc: email: "Geoffrey.Hale@cisa.dhs.gov Hale, Geoffrey" , email: "Allison.Snell@cisa.dhs.gov Snell, Allison" , email: "juan.figueroa@cisa.dhs.gov Figueroa, Juan" , email: "christopher.wright@hq.dhs.gov Wright, Christopher" , email: "mharrington@eac.gov Mona Harrington" , email: "bryan.caskey@sos.ks.gov bryan.caskey@sos.ks.gov" , email: "seth.mckinnis@cisa.dhs.gov McKinnis, Seth" , email: "Antonio.Darosa@cisa.dhs.gov DaRosa, Antonio" , email: "james.tipton@cisa.dhs.gov Tipton, James"

All,

Based on feedback received we will hold the classified briefing for this group of four at 1pm ET, on August 7th.

Someone from CISA regional staff coordinated by Tony DeRosa on my staff will reach out to this week to set up logistics. Here is what I have for your location:

- David Stafford - Pensacola, FL (Corey Station preferred briefing location)
- Ben Hovland – can join briefing in DC with CISA/I&A briefers. I&A needs to work with CISA and ODNI on temp clearance.
- SOS Schwab – KS Fusion Center
- Chris W – NE Briefing location previously used

Thank you all for your willingness to travel of a SCIF and help us out on this. It is much appreciated.

Matt

Matthew V. Masterson

Senior Cybersecurity Advisor

Department of Homeland Security

Cybersecurity & Infrastructure Security Agency (CISA)

(202)309-1585

Matthew.Masterson@hq.dhs.gov

From: Wlaschin, Chris <chris.wlaschin@essvote.com>

Sent: Tuesday, July 21, 2020 2:26 PM

To: Masterson, Matthew <Matthew.Masterson@cisa.dhs.gov>; David Stafford <dstafford@escambiavotes.com>; Ben Hovland <bhovland@eac.gov>; scott.schwab71@ks.gov

Cc: Hale, Geoffrey <Geoffrey.Hale@cisa.dhs.gov>; Snell, Allison <Allison.Snell@cisa.dhs.gov>; Figueroa, Juan <juan.figueroa@cisa.dhs.gov>; Wright, Christopher <christopher.wright@hq.dhs.gov>; Mona Harrington <mharrington@eac.gov>; bryan.caskey@sos.ks.gov; McKinnis, Seth <seth.mckinnis@cisa.dhs.gov>; DaRosa, Antonio <Antonio.Darosa@cisa.dhs.gov>; Tipton, James <james.tipton@cisa.dhs.gov>

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Cc: Hale, Geoffrey <Geoffrey.Hale@cisa.dhs.gov>; Snell, Allison <Allison.Snell@cisa.dhs.gov>; Figueroa, Juan <juan.figueroa@cisa.dhs.gov>; Wright, Christopher <christopher.wright@hq.dhs.gov>; Mona Harrington <mharrington@eac.gov>; bryan.caskey@sos.ks.gov; McKinnis, Seth <seth.mckinnis@cisa.dhs.gov>; DaRosa, Antonio <Antonio.Darosa@cisa.dhs.gov>; Tipton, James <james.tipton@cisa.dhs.gov>

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Attachments:

image001.png 3.6k

Update on EVS 6030 and EVS 6110 Final approval

email: "slmckay@essvote.com McKay, Sue" **Monday, July 20, 2020 at 12:51:55 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato" , email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "smpearson@essvote.com Pearson, Steve" , email: "tjhallett@essvote.com Hallett, Tim"

Jerome and Paul,

Would you please be able to give us an update on where we stand on receiving our EAC number for these two releases?

Thank you

Sue

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To find out more Click Here.

---

email: "paumayr@eac.gov Paul Aumayr" **Monday, July 20, 2020 at 5:35:21 PM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "jlovato@eac.gov Jerome Lovato" , email: "smpearson@essvote.com Pearson, Steve" , email: "tjhallett@essvote.com Hallett, Tim"

Hi Sue - we'll be working on it this week.

Thanks!

Paul

On Mon, Jul 20, 2020 at 1:18 PM McKay, Sue <slmckay@essvote.com> wrote:

> Jerome and Paul,
>
> Would you please be able to give us an update on where we stand on receiving our EAC number for these two releases?
>
> Thank you
>
> Sue

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--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

Automatic reply: [EXTERNAL] Re: [EXTERNAL]Re: Testing & Certification update

email: "kay.stimson@dominionvoting.com Kay Stimson" Thursday, July 9, 2020 at 7:55:14 PM Eastern Daylight Time
To: email: "jlovato@eac.gov Jerome Lovato"

Thanks for your message. I am out of office until Monday, July 13th. I'll try to respond to emails as soon as possible upon my return.

If you need immediate assistance, please contact media@dominionvoting.com, or call 1-866-654-VOTE (8683).

Best,

Kay

KAY STIMSON
|
VP, GOVERNMENT AFFAIRS

DOMINION VOTING SYSTEMS

866-654-VOTE (8683)
ext. 9206 | DOMINIONVOTING.COM

---

email: "ian.piper@dominionvoting.com Ian Piper" **Friday, July 17, 2020 at 2:54:04 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

I'm away from my office on Fri., Jul. 17th. Please send me an email or leave me a voice mail, and I will respond when I'm able during the day.

VVSG 2.0 Implementation Working Group Agenda for 7/17

email: "mturner@eac.gov Maurice Turner" **Thursday, July 16, 2020 at 5:20:13 PM Eastern Daylight Time**
To: email: "aaron.wilson@cisecurity.org" , email: "ajoiner@eac.gov" , email: "aregenscheid@gmail.com" , email: "ben@voting.works" , email: "bhirsch@microvote.com" , email: "cortiz@unisynvoting.com" , email: "dmunoz@eac.gov" , email: "eburton@eac.gov" , email: "edwin.smith@smartmatic.com" , email: "ginnyb@microsoft.com" , email: "gwenyth.winship@clearballot.com" , email: "ian.piper@dominionvoting.com" , email: "jack.cobb@provandv.com" , email: "jbowers@eac.gov" , email: "jcanter@hartic.com" , email: "jfleming@eac.gov" , email: "jfranklin@eac.gov" , email: "john.wack@nist.gov" , email: "kathy.rogers@essvote.com" , email: "kay.stimson@dominionvoting.com" , email: "mary.brady@nist.gov" , email: "matt@voting.works" , email: "mcoutts@unisynvoting.com" , email: "mharrington@eac.gov" , email: "michael.walker@provandv.com" , email: "msantos@slicompliance.com" , email: "mturner@eac.gov" , email: "oletts@eac.gov" , email: "patricia.wilburg@nist.gov" , email: "paumayr@eac.gov" , email: "russ.dawson@clearballot.com" , email: "sderheimer@hartic.com" , email: "sharon.laskowski@nist.gov" , email: "smpearson@essvote.com" , email: "tjhallett@essvote.com" , email: "tmapps@slicompliance.com" , email: "wendy.owens@provandv.com"

Good afternoon,

The agenda for the upcoming meeting is attached. This call will focus on four major themes from the public comments and the relevant requirements in Principle 1, Guideline 1, and Guidelines 2 and 3 (time permitting).

Join Zoom Meeting

https://us02web.zoom.us/j/88536451488?pwd=OWNjcDBaVkJ1L2pjMDY2WFdaZ3R1QT09

Meeting ID: 885 3645 1488

Password: 705592

One tap mobile

+12532158782,,88536451488# US (Tacoma)

+13462487799,,88536451488# US (Houston)

Maurice Turner

Senior Advisor

U.S. Election Assistance Commission

mturner@eac.gov | www.eac.gov

<<...>>

Attachments:

VVSG 2 Implementation WG Agenda 07-17-2020.pdf 77k

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email: "mturner@eac.gov Maurice Turner" **Thursday, July 16, 2020 at 6:29:59 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

I've added you to the distribution spreadsheet.

-- Maurice

From: Maurice Turner <mturner@eac.gov>
Sent: Thursday, July 16, 2020 5:20 PM
To: aaron.wilson@cisecurity.org; ajoiner@eac.gov; aregenscheid@gmail.com; ben@voting.works; bhirsch@microvote.com; cortiz@unisynvoting.com; dmunoz@eac.gov; eburton@eac.gov; edwin.smith@smartmatic.com; ginnyb@microsoft.com; gwenyth.winship@clearballot.com; ian.piper@dominionvoting.com; jack.cobb@provandv.com; jbowers@eac.gov; jcanter@hartic.com; jfleming@eac.gov; jfranklin@eac.gov; john.wack@nist.gov; kathy.rogers@essvote.com; kay.stimson@dominionvoting.com; mary.brady@nist.gov; matt@voting.works; mcoutts@unisynvoting.com; mharrington@eac.gov; michael.walker@provandv.com; msantos@slicompliance.com; mturner@eac.gov; oletts@eac.gov; patricia.wilburg@nist.gov; paumayr@eac.gov; russ.dawson@clearballot.com; sderheimer@hartic.com; sharon.laskowski@nist.gov; smpearson@essvote.com; tjhallett@essvote.com; tmapps@slicompliance.com; wendy.owens@provandv.com
Subject: VVSG 2.0 Implementation Working Group Agenda for 7/17

Good afternoon,

The agenda for the upcoming meeting is attached. This call will focus on four major themes from the public comments and the relevant requirements in Principle 1, Guideline 1, and Guidelines 2 and 3 (time permitting).

Join Zoom Meeting

https://us02web.zoom.us/j/88536451488?pwd=OWNjcDBaVkJ1L2pjMDY2WFdaZ3R1QT09

Meeting ID: 885 3645 1488

Password: 705592

One tap mobile

+12532158782,,88536451488# US (Tacoma)

+13462487799,,88536451488# US (Houston)

Maurice Turner
Senior Advisor
U.S. Election Assistance Commission
mturner@eac.gov | www.eac.gov

<<...>>

Attachments:

VVSG 2 Implementation WG Agenda 07-17-2020.pdf 77k

---

email: "ben@voting.works Ben Adida" **Thursday, July 16, 2020 at 8:15:29 PM Eastern Daylight Time**
To: email: "mturner@eac.gov Maurice Turner"

Maurice,

Great to see your name here!

Sadly I won't be able to make tomorrow as I am away (not far sadly) on vacation. That's too bad because there are topics here I'd love to be there for, but such is life.

Talk soon,

-Ben

On Thu, Jul 16, 2020, 2:20 PM Maurice Turner <mturner@eac.gov> wrote:

> Good afternoon,
>
> The agenda for the upcoming meeting is attached. This call will focus on four major themes from the public comments and the relevant requirements in Principle 1, Guideline 1, and Guidelines 2 and 3 (time permitting).
>
> Join Zoom Meeting
>
> https://us02web.zoom.us/j/88536451488?pwd=OWNjcDBaVkJ1L2pjMDY2WFdaZ3R1QT09
>
> Meeting ID: 885 3645 1488

Password: 705592

One tap mobile

+12532158782,,88536451488# US (Tacoma)

+13462487799,,88536451488# US (Houston)

Maurice Turner

Senior Advisor

U.S. Election Assistance Commission

mturner@eac.gov | www.eac.gov

<<...>>

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email: "jlovato@eac.gov Jerome Lovato" **Thursday, July 16, 2020 at 9:10:06 PM Eastern Daylight Time**
To: email: "mturner@eac.gov Maurice Turner"

Thank you.

On Thu, Jul 16, 2020 at 4:30 PM Maurice Turner <mturner@eac.gov> wrote:

I've added you to the distribution spreadsheet.

-- Maurice

From: Maurice Turner <mturner@eac.gov>
Sent: Thursday, July 16, 2020 5:20 PM
To: aaron.wilson@cisecurity.org; ajoiner@eac.gov; aregenscheid@gmail.com; ben@voting.works; bhirsch@microvote.com; cortiz@unisynvoting.com; dmunoz@eac.gov; eburton@eac.gov; edwin.smith@smartmatic.com; ginnyb@microsoft.com; gwenyth.winship@clearballot.com; ian.piper@dominionvoting.com; jack.cobb@provandv.com; jbowers@eac.gov; jcanter@hartic.com; jfleming@eac.gov; jfranklin@eac.gov; john.wack@nist.gov; kathy.rogers@essvote.com; kay.stimson@dominionvoting.com; mary.brady@nist.gov; matt@voting.works; mcoutts@unisynvoting.com; mharrington@eac.gov; michael.walker@provandv.com; msantos@slicompliance.com; mturner@eac.gov; oletts@eac.gov; patricia.wilburg@nist.gov; paumayr@eac.gov; russ.dawson@clearballot.com; sderheimer@hartic.com; sharon.laskowski@nist.gov; smpearson@essvote.com; tjhallett@essvote.com; tmapps@slicompliance.com; wendy.owens@provandv.com
Subject: VVSG 2.0 Implementation Working Group Agenda for 7/17

Good afternoon,

The agenda for the upcoming meeting is attached. This call will focus on four major themes from the public comments and the relevant requirements in Principle 1, Guideline 1, and Guidelines 2 and 3 (time permitting).

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One tap mobile

+12532158782,,88536451488# US (Tacoma)

+13462487799,,88536451488# US (Houston)

Maurice Turner
Senior Advisor
U.S. Election Assistance Commission
mturner@eac.gov | www.eac.gov

<<...>>

--

Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

Tuesday meeting?

email: "eburton@eac.gov Eugene Burton" **Thursday, July 16, 2020 at 3:47:09 PM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"
Cc: email: "jbernal@hartic.com Jared Bernal"

Good afternoon All,

With a number of efforts taking place at EAC I wanted now if I rescheduled our weekly Tuesday meeting for 11:30 a.m. or noon? Would this be an issue?

Eugene

--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

email: "pgeppert@hartic.com Pamela Geppert" **Thursday, July 16, 2020 at 3:49:22 PM Eastern Daylight Time**
To: email: "eburton@eac.gov Eugene Burton"
Cc: email: "jbernal@hartic.com Jared Bernal"

Hi, Eugene,

I can do Tuesdays at 11:30 AM Eastern Time, if that works better for you. I'll let Jared respond on his schedule.

Thanks,

Pam

From: Eugene Burton <eburton@eac.gov>

Sent: Thursday, July 16, 2020 2:47 PM

To: Pamela Geppert <pgeppert@hartic.com>

Cc: Jared Bernal <jbernal@hartic.com>

Subject: Tuesday meeting?

Good afternoon All,

With a number of efforts taking place at EAC I wanted now if I rescheduled our weekly Tuesday meeting for 11:30 a.m. or noon? Would this be an issue?

Eugene

--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

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notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

email: "eburton@eac.gov Eugene Burton" **Thursday, July 16, 2020 at 3:52:38 PM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"

Pam,

Thank you, I will let you know if 11:30 a.m. works for SLI prior to scheduling the meeting.

Eugene

On Thu, Jul 16, 2020 at 3:49 PM Pamela Geppert <pgeppert@hartic.com> wrote:

Hi, Eugene,

I can do Tuesdays at 11:30 AM Eastern Time, if that works better for you. I'll let Jared respond on his schedule.

Thanks,

Pam

From: Eugene Burton <eburton@eac.gov>

Sent: Thursday, July 16, 2020 2:47 PM

To: Pamela Geppert <pgeppert@hartic.com>

Cc: Jared Bernal <jbernal@hartic.com>

Subject: Tuesday meeting?

Good afternoon All,

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Eugene

--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

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--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

---

email: "eburton@eac.gov Eugene Burton" **Thursday, July 16, 2020 at 4:20:58 PM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"

Pam,

SLI is good with a 11:30 a.m. meeting. I"ll send a meeting invite shortly.

Eugene

On Thu, Jul 16, 2020 at 3:52 PM Eugene Burton <eburton@eac.gov> wrote:

Pam,

Thank you, I will let you know if 11:30 a.m. works for SLI prior to scheduling the meeting.

Eugene

On Thu, Jul 16, 2020 at 3:49 PM Pamela Geppert <pgeppert@hartic.com> wrote:

Hi, Eugene,

I can do Tuesdays at 11:30 AM Eastern Time, if that works better for you. I'll let Jared respond on his schedule.

Thanks,

Pam

From: Eugene Burton <eburton@eac.gov>

Sent: Thursday, July 16, 2020 2:47 PM

To: Pamela Geppert <pgeppert@hartic.com>

Cc: Jared Bernal <jbernal@hartic.com>

Subject: Tuesday meeting?

Good afternoon All,

With a number of efforts taking place at EAC I wanted now if I rescheduled our weekly Tuesday meeting for 11:30 a.m. or noon? Would this be an issue?

Eugene

--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

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--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

---

email: "pgeppert@hartic.com Pamela Geppert" **Thursday, July 16, 2020 at 4:22:00 PM Eastern Daylight Time**
To: email: "eburton@eac.gov Eugene Burton"

Sounds good. Thank you!

From: Eugene Burton <eburton@eac.gov>

Sent: Thursday, July 16, 2020 3:21 PM

To: Pamela Geppert <pgeppert@hartic.com>

Subject: Re: Tuesday meeting?

Pam,

SLI is good with a 11:30 a.m. meeting. I"ll send a meeting invite shortly.

Eugene

On Thu, Jul 16, 2020 at 3:52 PM Eugene Burton <eburton@eac.gov> wrote:

> Pam,
>
> Thank you, I will let you know if 11:30 a.m. works for SLI prior to scheduling the meeting.
>
> Eugene
>
> On Thu, Jul 16, 2020 at 3:49 PM Pamela Geppert <pgeppert@hartic.com> wrote:
>
> > Hi, Eugene,

I can do Tuesdays at 11:30 AM Eastern Time, if that works better for you. I'll let Jared respond on his schedule.

Thanks,

Pam

From: Eugene Burton <eburton@eac.gov>

Sent: Thursday, July 16, 2020 2:47 PM

To: Pamela Geppert <pgeppert@hartic.com>

Cc: Jared Bernal <jbernal@hartic.com>

Subject: Tuesday meeting?

Good afternoon All,

With a number of efforts taking place at EAC I wanted now if I rescheduled our weekly Tuesday meeting for 11:30 a.m. or noon? Would this be an issue?

Eugene

--

Eugene Burton

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--

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---

email: "jbernal@hartic.com Jared Bernal" **Thursday, July 16, 2020 at 4:22:34 PM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert" , email: "eburton@eac.gov Eugene Burton"

Eugene,

No problem. 11:30 AM Eastern works for me also.

Best Regards,

Jared Bernal

Senior Regulatory Compliance Engineer

Hart InterCivic

15500 Wells Port Drive | Austin, TX | 78728

Direct: 512.252.6462 | Fax: 512.252.6556 | 800.223.HART

jbernal@hartic.com |
www.hartintercivic.com

From: Pamela Geppert <pgeppert@hartic.com>

Sent: Thursday, July 16, 2020 2:49 PM

To: Eugene Burton <eburton@eac.gov>

Cc: Jared Bernal <jbernal@hartic.com>

Subject: RE: Tuesday meeting?

Hi, Eugene,

I can do Tuesdays at 11:30 AM Eastern Time, if that works better for you. I'll let Jared respond on his schedule.

Thanks,

Pam

From: Eugene Burton <eburton@eac.gov>

Sent: Thursday, July 16, 2020 2:47 PM

To: Pamela Geppert <pgeppert@hartic.com>

Cc: Jared Bernal <jbernal@hartic.com>

Subject: Tuesday meeting?

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Eugene

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Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

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Attachments:

image001.jpg 1.5k

---

email: "eburton@eac.gov Eugene Burton" **Thursday, July 16, 2020 at 4:24:06 PM Eastern Daylight Time**
To: email: "jbernal@hartic.com Jared Bernal"

Thanks!

Eugene

On Thu, Jul 16, 2020 at 4:22 PM Jared Bernal <jbernal@hartic.com> wrote:

Eugene,

No problem. 11:30 AM Eastern works for me also.

Best Regards,

Jared Bernal

Senior Regulatory Compliance Engineer

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15500 Wells Port Drive | Austin, TX | 78728

Direct: 512.252.6462 | Fax: 512.252.6556 | 800.223.HART

jbernal@hartic.com |
www.hartintercivic.com

From: Pamela Geppert <pgeppert@hartic.com>

Sent: Thursday, July 16, 2020 2:49 PM

To: Eugene Burton <eburton@eac.gov>

Cc: Jared Bernal <jbernal@hartic.com>

Subject: RE: Tuesday meeting?

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I can do Tuesdays at 11:30 AM Eastern Time, if that works better for you. I'll let Jared respond on his schedule.

Thanks,

Pam

From: Eugene Burton <eburton@eac.gov>

Sent: Thursday, July 16, 2020 2:47 PM

To: Pamela Geppert <pgeppert@hartic.com>

Cc: Jared Bernal <jbernal@hartic.com>

Subject: Tuesday meeting?

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Eugene

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Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

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Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

Attachments:
image001.jpg 1.5k

---

proposed discussion request and talking points

email: "russ.dawson@clearballot.com Russ Dawson" **Tuesday, July 7, 2020 at 1:11:44 PM Eastern Daylight Time**
To: email: "mharrington@eac.gov"

Hello there from sunny ATX.

So, I have missed the past (2) manufacturer's conference calls sponsored by the EAC, both due to client support travel obligations. That being said, Gwenyth Winship is an accomplished note taker and has kept me abreast of what's been discussed.

In any event, the purpose of this email message to you is to inquire if your schedule permits a one-on-one discussion tomorrow or Thursday this week.

I am interested in your take on "the state of things" regarding VVSG 2.0 comments and also how the EAC regards the evolving perspectives of the manufacturer community. Some proposed discussion points/food for thought follow:

- How does the EAC regard progress toward eventual adoption of VVSG 2.0 in final form?
- Is pressure mounting on the EAC to accelerate progress referenced above?
- In a general sense, how are comments offered thus far viewed by the EAC?
- Is it time to more heavily involve technical SMEs from NIST and the manufacturer community in weekly discussions?
- CBG offered a "tiered" certification approach alternative....how was this idea received by the EAC (or was it even discussed)?
- Can you share any personal frustrations or insights or whatever with CBG w/ regard to evolution of VVSG 2.0 draft requirements?
- Anything else you might like to offer or ask of me.

I am not seeking confidential information as much as a free-flowing conversation that might allow CBG and the EAC to better get in sync with each other, with the ultimate goal of advancing standards that enhance election administration and safeguard voter confidence.

We want to be part of the solution Mona. If you have time and willingness to chat, please suggest a few times and we'll take it from there.

Best, rpd

Russ Dawson
Federal Certification Program Manager
512.350.5720
www.clearballot.com

email: "russ.dawson@clearballot.com Russ Dawson" **Thursday, July 16, 2020 at 10:48:50 AM Eastern Daylight Time**
To: email: "mharrington@eac.gov"

Hi there Mona.

Can't believe it's Thursday already. Summer flying by too now that I've sort of figured out how to live The COVID Life.....

So my offer for a discussion with you still stands. Maybe one-offs with any manufacturer isn't consistent with how the EAC wants to manage lines of communication, I don't know.

Well, that's all for now. Enjoy your day Mona.

Best, rpd

Russ Dawson
Federal Certification Program Manager
512.350.5720
www.clearballot.com

On Tue, Jul 7, 2020 at 12:11 PM Russ Dawson <russ.dawson@clearballot.com> wrote:

> Hello there from sunny ATX.
>
> So, I have missed the past (2) manufacturer's conference calls sponsored by the EAC, both due to client support travel obligations. That being said, Gwenyth Winship is an accomplished note taker and has kept me abreast of what's been discussed.
>
> In any event, the purpose of this email message to you is to inquire if your schedule permits a one-on-one discussion tomorrow or Thursday this week.
>
> I am interested in your take on "the state of things" regarding VVSG 2.0 comments and also how the EAC regards the evolving perspectives of the manufacturer community. Some proposed discussion points/food for thought follow:
>
> - How does the EAC regard progress toward eventual adoption of VVSG 2.0 in final form?
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> - Is it time to more heavily involve technical SMEs from NIST and the manufacturer community in weekly discussions?
> - CBG offered a "tiered" certification approach alternative....how was this idea received by the EAC (or was it even discussed)?
> - Can you share any personal frustrations or insights or whatever with CBG w/ regard to evolution of VVSG 2.0 draft requirements?
> - Anything else you might like to offer or ask of me.
>
> I am not seeking confidential information as much as a free-flowing conversation that might allow CBG and the EAC to better get in sync with each other, with the ultimate goal of advancing standards that enhance election administration and safeguard voter confidence.
>
> We want to be part of the solution Mona. If you have time and willingness to chat, please suggest a few times and we'll take it from there.
>
> Best, rpd
>
> Russ Dawson
> Federal Certification Program Manager
> 512.350.5720

> www.clearballot.com

Verity Voting Contracts

email: "pgeppert@hartic.com Pamela Geppert" **Wednesday, July 15, 2020 at 3:50:46 PM Eastern Daylight Time**
To: email: "JLovato@eac.gov Jerome Lovato (JLovato@eac.gov)"

Hi, Jerome –

I wanted to let you know that contracts have been approved for the following jurisdictions:

Gray County, Texas: Verity Voting 2.4

Deaf Smith County, Texas: Verity Voting 2.4

Onslow County, North Carolina: Verity Voting 2.2

Hill County, Texas: Verity Voting 2.4

Motley County, Texas: Verity Voting 2.4

Please let me know if you have any questions!

Thanks,

Pam

Pam Geppert, PMP, CERV

Director of Certification & Proposals

Hart InterCivic

15500 Wells Port Drive | Austin, TX | 78728

Direct: 512.252.6813 | Mobile: 512.626.4130 | 800.223.HART

pgeppert@hartic.com |
www.hartintercivic.com

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exempt from disclosure under applicable law
or may constitute as attorney work product. If you are not the intended recipient, you are hereby notified that any use, dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error,
notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

Attachments:

image001.jpg 1.5k

---

email: "jlovato@eac.gov Jerome Lovato" **Friday, July 17, 2020 at 2:49:12 PM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"

Thank you, Pam!

Jerome

On Wed, Jul 15, 2020 at 3:50 PM Pamela Geppert <pgeppert@hartic.com> wrote:

Hi, Jerome –

I wanted to let you know that contracts have been approved for the following jurisdictions:

Gray County, Texas: Verity Voting 2.4

Deaf Smith County, Texas: Verity Voting 2.4

Onslow County, North Carolina: Verity Voting 2.2

Hill County, Texas: Verity Voting 2.4

Motley County, Texas: Verity Voting 2.4

Please let me know if you have any questions!

Thanks,

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notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

Attachments:

image001.jpg 1.5k

Re: EAC Request for Information- ExpressPoll

email: "jlovato@eac.gov Jerome Lovato" **Wednesday, July 15, 2020 at 2:55:30 AM Eastern Daylight Time**
To: email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "jbowers@eac.gov Jessica Bowers" , email: "mdunne@eac.gov Margaret Dunne" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Hi Steve,

I am available at 5 pm ET tomorrow and 4 pm on Friday. I have copied Jessica since she may be able to provide more information regarding the objective.

Thank you,
Jerome

On Tue, Jul 14, 2020 at 5:06 PM Pearson, Steve <smpearson@essvote.com> wrote:

> Jerome and Maggie,
>
> Any chance the four of us could get on a call to discuss the objective of this initiative and allow us to better understand how this information will be used? Kathy and I are both free tomorrow morning until noon eastern if that works for
> the two of you.
>
> Let us know. Thanks.
>
> Steve

From: Margaret Dunne <mdunne@eac.gov>

Sent: Monday, July 13, 2020 10:16 AM

To: Pearson, Steve <smpearson@essvote.com>; Burns, TJ <tj.burns@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: EAC Request for Information- ExpressPoll

Dear Election Systems & Software (ES&S),

My name is Maggie Dunne and I am a Cybersecurity Intern at the Federal Election Assistance Commission. I am reaching out to you on behalf of the EAC to request information about your E-Pollbook technology ExpressPoll. This request is in
relation to our clearinghouse function to provide a wide range of information to election officials. The broad categories we would like to understand about your technology are:

1. The Operating System (Windows, etc.)

2. Programming Language

3. Networking (Connected to the internet or self-contained)

4. Hardware

5. The Technology used to run the program (COTS vs. proprietary)

6. Database Software (MySequal, etc.)

Thank you for considering my request. Please feel free to reply to this email or call me at 914-522-6546 to discuss further. I will follow up with a call to the contact information we have on file.

Best,

Maggie Dunne

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To find out more Click Here.

--
Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

---

email: "jbowers@eac.gov Jessica Bowers" **Wednesday, July 15, 2020 at 10:29:08 AM Eastern Daylight Time**

To: email: "jlovato@eac.gov Jerome Lovato" , email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "mdunne@eac.gov Margaret Dunne" , email: "kathy.rogers@essvote.com Rogers, Kathy"

Hi Steve, I'm also available during the times Jerome listed.

I asked Maggie to perform this survey of non-voting election technology. We are not planning to publish information on any individual manufacturer's system – we're only trying to get a better idea of what the cybersecurity threat landscape looks like in general/aggregate so that we can tailor any guidance we provide to election officials with our checklists, guides, etc.

We're under considerable pressure to update and provide additional security information on non-voting election technology and, as you're aware, this isn't a segment the EAC has classically had much visibility into. We appreciate any information you are willing to provide to help with this effort but this is purely voluntary on your part.

Our alternative is what we've done in the past, which is reaching out to state and local jurisdictions for this type of information. I would rather have authoritative information directly from the manufacturers, if possible, but understand that this is sensitive on your end.

Thanks!

Jessica

From: Jerome Lovato <jlovato@eac.gov>
Sent: Wednesday, July 15, 2020 12:56 AM
To: Pearson, Steve <smpearson@essvote.com>
Cc: Jessica Bowers <jbowers@eac.gov>; Margaret Dunne <mdunne@eac.gov>; Rogers, Kathy <kathy.rogers@essvote.com>
Subject: Re: EAC Request for Information- ExpressPoll

Hi Steve,

I am available at 5 pm ET tomorrow and 4 pm on Friday. I have copied Jessica since she may be able to provide more information regarding the objective.

Thank you,

Jerome

On Tue, Jul 14, 2020 at 5:06 PM Pearson, Steve <smpearson@essvote.com> wrote:

> Jerome and Maggie,
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> Any chance the four of us could get on a call to discuss the objective of this initiative and allow us to better understand how this information will be used? Kathy and I are both free tomorrow morning until noon eastern if that works for the two of you.
>
> Let us know. Thanks.
>
> Steve
>
> **From:** Margaret Dunne <mdunne@eac.gov>
> **Sent:** Monday, July 13, 2020 10:16 AM
> **To:** Pearson, Steve <smpearson@essvote.com>; Burns, TJ <tj.burns@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>
> **Subject:** EAC Request for Information- ExpressPoll
>
> Dear Election Systems & Software (ES&S),
>
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> 2. Programming Language
>
> 3. Networking (Connected to the internet or self-contained)
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> 4. Hardware
>
> 5. The Technology used to run the program (COTS vs. proprietary)
>
> 6. Database Software (MySequal, etc.)

Thank you for considering my request. Please feel free to reply to this email or call me at 914-522-6546 to discuss further. I will follow up with a call to the contact information we have on file.

Best,

Maggie Dunne

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--

Jerome Lovato

Director, Voting System Testing and Certification

U.S. Election Assistance Commission

Ph. 202-805-4613

---

email: "smpearson@essvote.com Pearson, Steve" Wednesday, July 15, 2020 at 10:38:05 AM Eastern Daylight Time
To: email: "jbowers@eac.gov Jessica Bowers" , email: "jlovato@eac.gov Jerome Lovato" , email: "mdunne@eac.gov Margaret Dunne"
Cc: email: "kathy.rogers@essvote.com Rogers, Kathy"

Let's do 5p eastern today. That works for both Kathy and I as well. I'll send out a meeting invite.

Thanks,

Steve

From: Jessica Bowers <jbowers@eac.gov>

Sent: Wednesday, July 15, 2020 9:29 AM

To: Jerome Lovato <jlovato@eac.gov>; Pearson, Steve <smpearson@essvote.com>

Cc: Margaret Dunne <mdunne@eac.gov>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: RE: EAC Request for Information- ExpressPoll

Hi Steve, I'm also available during the times Jerome listed.

I asked Maggie to perform this survey of non-voting election technology. We are not planning to publish information on any individual manufacturer's system –
we're only trying to get a better idea of what the cybersecurity threat landscape looks like in general/aggregate so that we can tailor any guidance we provide to election officials with our checklists, guides, etc.

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Our alternative is what we've done in the past, which is reaching out to state and local jurisdictions for this type of information. I would rather have authoritative
information directly from the manufacturers, if possible, but understand that this is sensitive on your end.

Thanks!

Jessica

From: Jerome Lovato <jlovato@eac.gov>

Sent: Wednesday, July 15, 2020 12:56 AM

To: Pearson, Steve <smpearson@essvote.com>

Cc: Jessica Bowers <jbowers@eac.gov>; Margaret Dunne <mdunne@eac.gov>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: Re: EAC Request for Information- ExpressPoll

Hi Steve,

I am available at 5 pm ET tomorrow and 4 pm on Friday. I have copied Jessica since she may be able to provide more information regarding the objective.

Thank you,

Jerome

On Tue, Jul 14, 2020 at 5:06 PM Pearson, Steve <smpearson@essvote.com> wrote:

Jerome and Maggie,

Any chance the four of us could get on a call to discuss the objective of this initiative and allow us to better understand how this information will be used? Kathy and I are both free tomorrow morning until noon eastern if that works for the two of you.

Let us know. Thanks.

Steve

From: Margaret Dunne <mdunne@eac.gov>

Sent: Monday, July 13, 2020 10:16 AM

To: Pearson, Steve <smpearson@essvote.com>; Burns, TJ <tj.burns@essvote.com>; Rogers, Kathy <kathy.rogers@essvote.com>

Subject: EAC Request for Information- ExpressPoll

Dear Election Systems & Software (ES&S),

My name is Maggie Dunne and I am a Cybersecurity Intern at the Federal Election Assistance Commission. I am reaching out to you on behalf of the EAC to request information about your E-Pollbook technology ExpressPoll. This request is in relation to our clearinghouse function to provide a wide range of information to election officials. The broad categories we would like to understand about your technology are:

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3. Networking (Connected to the internet or self-contained)

4. Hardware

5. The Technology used to run the program (COTS vs. proprietary)

6. Database Software (MySequal, etc.)

Thank you for considering my request. Please feel free to reply to this email or call me at 914-522-6546 to discuss further. I will follow up with a call to the contact information
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Best,

Maggie Dunne

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Jerome Lovato

Director, Voting System Testing and Certification

U.S. Election Assistance Commission

Ph. 202-805-4613

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EVS 6030 and EVS 6110 Joint Letter

email: "slmckay@essvote.com McKay, Sue" **Tuesday, July 14, 2020 at 10:51:59 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato" , email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "michael.walker@provandv.com Michael Walker" , email: "stephen.han@provandv.com Stephen Han" , email: "wendy.owens@provandv.com Wendy Owens" , email: "smpearson@essvote.com Pearson, Steve" , email: "tjhallett@essvote.com Hallett, Tim"

Jerome and Paul,

Attached is the joint letter for both releases. ES&S and Pro V&V will overnight everything listed in the attached letter, so it will be delivered tomorrow morning. As you are aware, ES&S has multiple states that are looking at approving
this for the upcoming November election. Please let us know if there is anything else you need from us.

Thank you

Sue

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To find out more Click Here.

Attachments:

EVS 6110 Joint Letter.pdf 440k

EVS 6030 Joint Letter.pdf 476k

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email: "paumayr@eac.gov Paul Aumayr" **Tuesday, July 14, 2020 at 3:07:13 PM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "jlovato@eac.gov Jerome Lovato" , email: "michael.walker@provandv.com Michael Walker" , email: "stephen.han@provandv.com Stephen Han" , email: "wendy.owens@provandv.com Wendy Owens" , email: "smpearson@essvote.com Pearson, Steve" , email: "tjhallett@essvote.com Hallett, Tim"

Sue - Received.

Many thanks.

Paul

On Tue, Jul 14, 2020 at 10:52 AM McKay, Sue <slmckay@essvote.com> wrote:

> Jerome and Paul,
>
> Attached is the joint letter for both releases. ES&S and Pro V&V will overnight everything listed in the attached letter, so it will be delivered tomorrow morning. As you are aware, ES&S has multiple states that are looking at approving
> this for the upcoming November election. Please let us know if there is anything else you need from us.

Thank you

Sue

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To find out more Click Here.

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

email: "paumayr@eac.gov Paul Aumayr" **Tuesday, July 14, 2020 at 3:10:25 PM Eastern Daylight Time**
To: email: "eburton@eac.gov Eugene Burton" , email: "jfleming@eac.gov Jessica Fleming"

FYI. This is one of the items required for final system certification.

---------- Forwarded message ---------
From: **McKay, Sue** <slmckay@essvote.com>
Date: Tue, Jul 14, 2020 at 10:52 AM
Subject: EVS 6030 and EVS 6110 Joint Letter
To: Jerome Lovato <jlovato@eac.gov>, Paul Aumayr <paumayr@eac.gov>
Cc: Michael Walker <michael.walker@provandv.com>, Stephen Han <stephen.han@provandv.com>, Wendy Owens <wendy.owens@provandv.com>, Pearson, Steve <smpearson@essvote.com>, Hallett, Tim <tjhallett@essvote.com>

Jerome and Paul,

Attached is the joint letter for both releases. ES&S and Pro V&V will overnight everything listed in the attached letter, so it will be delivered tomorrow morning. As you are aware, ES&S has multiple states that are looking at approving
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Thank you

Sue

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Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

Attachments:

EVS 6110 Joint Letter.pdf 440k

EVS 6030 Joint Letter.pdf 476k

---

email: "paumayr@eac.gov Paul Aumayr" **Tuesday, July 14, 2020 at 3:56:43 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Jerome - Did ES&S state to you where they were going to overnight the package too?

Thanks

On Tue, Jul 14, 2020 at 10:52 AM McKay, Sue <slmckay@essvote.com> wrote:

Jerome and Paul,

Attached is the joint letter for both releases. ES&S and Pro V&V will overnight everything listed in the attached letter, so it will be delivered tomorrow morning. As you are aware, ES&S has multiple states that are looking at approving
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Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

email: "jlovato@eac.gov Jerome Lovato" **Wednesday, July 15, 2020 at 2:47:04 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"

They did not. It may come to my home address.

On Tue, Jul 14, 2020 at 3:57 PM Paul Aumayr <paumayr@eac.gov> wrote:

Jerome - Did ES&S state to you where they were going to overnight the package too?

Thanks

On Tue, Jul 14, 2020 at 10:52 AM McKay, Sue <slmckay@essvote.com> wrote:

Jerome and Paul,

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Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

--
Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

---

email: "paumayr@eac.gov Paul Aumayr" **Thursday, July 16, 2020 at 3:22:20 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Looks like they sent it to the office,

On Wed, Jul 15, 2020 at 2:47 AM Jerome Lovato <jlovato@eac.gov> wrote:
They did not. It may come to my home address.

On Tue, Jul 14, 2020 at 3:57 PM Paul Aumayr <paumayr@eac.gov> wrote:
Jerome - Did ES&S state to you where they were going to overnight the package too?

Thanks

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Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

ES&S EVS 6030 and EVS 6100 Approvals

email: "smpearson@essvote.com Pearson, Steve" **Monday, July 13, 2020 at 4:09:36 PM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington (mharrington@eac.gov)"
Cc: email: "jlovato@eac.gov Jerome Lovato - EAC (jlovato@eac.gov)" , email: "slmckay@essvote.com McKay, Sue"

Mona,

I'm reaching out to inquire on the status of the EVS 6030 and EVS 6110 releases we recently completed testing on with Pro V&V. As you might guess, we have a number of states that require EAC final approval that are waiting to move forward
with their examinations. Both of these releases are planned for rollout and use in the November election, so time is quickly becoming our enemy. If there's anything we can to expedite the final approval, please let us know.

Thank you for your support and let us know if there's anything we can do to help.

Regards,

Steve

cid:ima

Steve Pearson

Sr. Vice President, Certification

Election Systems & Software |11208 John Galt Blvd | Omaha, NE 68137

Direct: 402-970-1225 | Cell: 402-212-4660 |
smpearson@essvote.com

www.essvote.com

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Attachments:

image003.jpg 1.9k

email: "smpearson@essvote.com Pearson, Steve" **Tuesday, July 14, 2020 at 10:02:33 AM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington (mharrington@eac.gov)"

Mona, appreciate your signoff on these two releases. We'll have the rest of the items for the final approval to Paul and Jerome today.

Best regards,

Steve P.

From: Pearson, Steve

Sent: Monday, July 13, 2020 3:10 PM

To: Mona Harrington (mharrington@eac.gov) <mharrington@eac.gov>

Cc: Jerome Lovato - EAC (jlovato@eac.gov) <jlovato@eac.gov>; McKay, Sue <slmckay@essvote.com>

Subject: ES&S EVS 6030 and EVS 6100 Approvals

Mona,

I'm reaching out to inquire on the status of the EVS 6030 and EVS 6110 releases we recently completed testing on with Pro V&V. As you might guess, we have a number of states that require EAC final approval that are waiting to move forward
with their examinations. Both of these releases are planned for rollout and use in the November election, so time is quickly becoming our enemy. If there's anything we can to expedite the final approval, please let us know.

Thank you for your support and let us know if there's anything we can do to help.

Regards,

Steve

cid:ima

Steve Pearson

Sr. Vice President, Certification

Election Systems & Software |11208 John Galt Blvd | Omaha, NE 68137

Direct: 402-970-1225 | Cell: 402-212-4660 |
smpearson@essvote.com

www.essvote.com

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Attachments:

image001.jpg 1.9k

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email: "mharrington@eac.gov Mona Harrington" **Tuesday, July 14, 2020 at 10:35:26 AM Eastern Daylight Time**
To: email: "smpearson@essvote.com Pearson, Steve"

You bet! ☺ Have a lovely day.

From: Pearson, Steve <smpearson@essvote.com>
Sent: Tuesday, July 14, 2020 10:03 AM
To: Mona Harrington (mharrington@eac.gov) <mharrington@eac.gov>
Subject: RE: ES&S EVS 6030 and EVS 6100 Approvals

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Attachments:

image002.jpg 1.6k

---

email: "smpearson@essvote.com Pearson, Steve" **Tuesday, July 14, 2020 at 10:34:27 AM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington"

You too. Thanks.

From: Mona Harrington <mharrington@eac.gov>

Sent: Tuesday, July 14, 2020 9:35 AM

To: Pearson, Steve <smpearson@essvote.com>

Subject: RE: ES&S EVS 6030 and EVS 6100 Approvals

You bet! ☺ Have a lovely day.

From: Pearson, Steve <smpearson@essvote.com>

Sent: Tuesday, July 14, 2020 10:03 AM

To: Mona Harrington (mharrington@eac.gov) <mharrington@eac.gov>

Subject: RE: ES&S EVS 6030 and EVS 6100 Approvals

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Cc: Jerome Lovato - EAC (jlovato@eac.gov) <jlovato@eac.gov>; McKay, Sue <slmckay@essvote.com>

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Attachments:

image001.jpg 1.8k

Hart ECO-01349 Submitted for Approval

email: "DForester@slicompliance.com Darrick Forester" Thursday, July 2, 2020 at 10:35:57 AM Eastern Daylight Time
To: email: "jlovato@eac.gov \'jlovato@eac.gov\'"
Cc: email: "jbernal@hartic.com \'Jared Bernal\'" , email: "jcanter@hartic.com \'jcanter@hartic.com\'" , email: "pgeppert@hartic.co \'pgeppert@hartic.co\'" , email: "paumayr@eac.gov \'paumayr@eac.gov\'" , email: "dmunoz@eac.gov \'dmunoz@eac.gov\'" , email: "zshaw@eac.gov \'zshaw@eac.gov\'" , email: "eburton@eac.gov \'eburton@eac.gov\'" , email: "jfleming@eac.gov \'jfleming@eac.gov\'" , email: "JPanek@slicompliance.com Jonathon Panek" , email: "TMapps@slicompliance.com Traci Mapps"

Hi Jerome,

Hart's ECO 01349 assessment attached for your review and approval.

Enclosed in the zip file, you will find:

- SLI Evaluation Hart ECO-01349_Verity Case Man. Improvement Assessment Letter
- SLI Evaluation Hart ECO-01349_Verity Case Man. Improvement
- Documentation used in SLI's Assessment:
  - ECO-01349 Summary - Verity Case Manufacturing Improvement 4005679 A00
  - 2005007-REVE.PDF: CASE, LOWER, W/ OVERMOLD

- 2005008-REVD.PDF: CASE, UPPER, WITH OVERMOLD
- 2005198-REVC.PDF: ASSEMBLY, SHIPPING, TOP, CASE
- 2005199-REVC.PDF: ASSEMBLY, SHIPPING, BOTTOM, CASE

If you have questions, please let us know.

Best Regards,

Darrick

Darrick Forester,
ISTQB® CTFL

Hardware Test Engineer

SLI Compliance

4720
Independence St.

Wheat
Ridge, Colorado 80033

☎ Direct: 303.384.5606

✉ Email:
dforester@slicompliance.com

Web:
www.slicompliance.com

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delete the message and any attachments from your computer.

Attachments:

image001.png 187

Hart ECO-01349_Verity Case Man. Improvement.zip 1.5M

---

email: "JPanek@slicompliance.com Jonathon Panek" Monday, July 13, 2020 at 10:47:18 AM Eastern Daylight Time
To: email: "DForester@slicompliance.com Darrick Forester" , email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "jbernal@hartic.com \'Jared Bernal\'" , email: "jcanter@hartic.com \'jcanter@hartic.com\'" , email: "pgeppert@hartic.co \'pgeppert@hartic.co\'" , email: "paumayr@eac.gov \'paumayr@eac.gov\'" , email: "dmunoz@eac.gov \'dmunoz@eac.gov\'" , email: "zshaw@eac.gov \'zshaw@eac.gov\'" , email: "eburton@eac.gov \'eburton@eac.gov\'" , email: "jfleming@eac.gov \'jfleming@eac.gov\'" , email: "TMapps@slicompliance.com Traci Mapps"

Hi Jerome,

I'm replying to this just to resend SLI's analysis documents in the event they weren't received properly.

If you have questions, please let us know.

Thanks,

Jon

From: Darrick Forester <DForester@SLIcompliance.com>

Sent: Thursday, July 2, 2020 8:36 AM

To: 'jlovato@eac.gov' <jlovato@eac.gov>

Cc: 'Jared Bernal' <jbernal@hartic.com>; 'jcanter@hartic.com' <jcanter@hartic.com>; 'pgeppert@hartic.co' <pgeppert@hartic.co>; 'paumayr@eac.gov' <paumayr@eac.gov>; 'dmunoz@eac.gov' <dmunoz@eac.gov>; 'zshaw@eac.gov' <zshaw@eac.gov>; 'eburton@eac.gov' <eburton@eac.gov>; 'jfleming@eac.gov' <jfleming@eac.gov>; Jonathon Panek <JPanek@slicompliance.com>; Traci Mapps <TMapps@SLIcompliance.com>

Subject: Hart ECO-01349 Submitted for Approval

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Best Regards,

Darrick

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ISTQB® CTFL

Hardware Test Engineer

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☎ Direct: 303.384.5606

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delete the message and any attachments from your computer.

Attachments:

image001.png 187

Hart ECO-01349_Verity Case Man. Improvement.zip 1.5M

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email: "jlovato@eac.gov Jerome Lovato" **Monday, July 13, 2020 at 12:14:05 PM Eastern Daylight Time**
To: email: "JPanek@slicompliance.com Jonathon Panek"
Cc: email: "DForester@slicompliance.com Darrick Forester" , email: "jbernal@hartic.com Jared Bernal" , email: "TMapps@slicompliance.com Traci Mapps" , email: "dmunoz@eac.gov dmunoz@eac.gov" , email: "eburton@eac.gov eburton@eac.gov" , email: "jcanter@hartic.com jcanter@hartic.com" , email: "jfleming@eac.gov jfleming@eac.gov" , email: "paumayr@eac.gov paumayr@eac.gov" , email: "pgeppert@hartic.co pgeppert@hartic.co" , email: "zshaw@eac.gov zshaw@eac.gov"

Thank you, Jon. I received this file. I don't know why I didn't receive Darrick's email. I'll review it tonight.

Jerome

On Mon, Jul 13, 2020 at 10:48 AM Jonathon Panek <JPanek@slicompliance.com> wrote:

Hi Jerome,

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If you have questions, please let us know.

Thanks,

Jon

From: Darrick Forester <DForester@SLIcompliance.com>

Sent: Thursday, July 2, 2020 8:36 AM

To: 'jlovato@eac.gov' <jlovato@eac.gov>

Cc: 'Jared Bernal' <jbernal@hartic.com>; 'jcanter@hartic.com' <jcanter@hartic.com>; 'pgeppert@hartic.co' <pgeppert@hartic.co>; 'paumayr@eac.gov' <paumayr@eac.gov>; 'dmunoz@eac.gov' <dmunoz@eac.gov>; 'zshaw@eac.gov' <zshaw@eac.gov>; 'eburton@eac.gov' <eburton@eac.gov>; 'jfleming@eac.gov' <jfleming@eac.gov>; Jonathon Panek <JPanek@slicompliance.com>; Traci Mapps <TMapps@SLIcompliance.com>

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ISTQB® CTFL

Hardware Test Engineer

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Ridge, Colorado 80033

☎ Direct: 303.384.5606

✉ Email:
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--

Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

Attachments:

image001.png 187

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email: "jlovato@eac.gov Jerome Lovato" **Tuesday, July 14, 2020 at 4:43:52 AM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"
Cc: email: "DForester@slicompliance.com Darrick Forester" , email: "jbernal@hartic.com Jared Bernal" , email: "TMapps@slicompliance.com Traci Mapps" , email: "jcanter@hartic.com jcanter@hartic.com" , email: "JPanek@slicompliance.com Jonathon Panek" , email: "paumayr@eac.gov Paul Aumayr" , email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton"

Hi Pam,

Attached is the approval for ECO 01349.

Thank you,
Jerome

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>>
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>> Thanks,
>>
>> Jon

From: Darrick Forester <DForester@SLIcompliance.com>

Sent: Thursday, July 2, 2020 8:36 AM

To: 'jlovato@eac.gov' <jlovato@eac.gov>

Cc: 'Jared Bernal' <jbernal@hartic.com>; 'jcanter@hartic.com' <jcanter@hartic.com>; 'pgeppert@hartic.co' <pgeppert@hartic.co>; 'paumayr@eac.gov' <paumayr@eac.gov>; 'dmunoz@eac.gov' <dmunoz@eac.gov>; 'zshaw@eac.gov' <zshaw@eac.gov>; 'eburton@eac.gov' <eburton@eac.gov>; 'jfleming@eac.gov' <jfleming@eac.gov>; Jonathon Panek <JPanek@slicompliance.com>; Traci Mapps <TMapps@SLIcompliance.com>

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Jerome Lovato
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U.S. Election Assistance Commission
Ph. 202-805-4613

Attachments:

image001.png 187

Hart ECO 01349 Approval 07-14-2020.pdf 62k

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email: "pgeppert@hartic.com Pamela Geppert" **Tuesday, July 14, 2020 at 10:25:54 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "DForester@slicompliance.com Darrick Forester" , email: "jbernal@hartic.com Jared Bernal" , email: "TMapps@slicompliance.com Traci Mapps" , email: "jcanter@hartic.com Jim Canter" , email: "JPanek@slicompliance.com Jonathon Panek" , email: "paumayr@eac.gov Paul Aumayr" , email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton"

Thank you, Jerome!

-Pam

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, July 14, 2020 3:44 AM

To: Pamela Geppert <pgeppert@hartic.com>

Cc: Darrick Forester <DForester@slicompliance.com>; Jared Bernal <jbernal@hartic.com>; Traci Mapps <TMapps@slicompliance.com>; Jim Canter <jcanter@hartic.com>; Jonathon Panek <JPanek@slicompliance.com>; Paul Aumayr <paumayr@eac.gov>; Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>

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> Jerome
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To: 'jlovato@eac.gov' <jlovato@eac.gov>

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Darrick Forester,
ISTQB® CTFL

Hardware Test Engineer

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Jerome Lovato

Director, Voting System Testing and Certification

U.S. Election Assistance Commission

Ph. 202-805-4613

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notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

Attachments:

image001.png 187

RE: Initial Decision - EVS

email: "slmckay@essvote.com McKay, Sue" **Tuesday, July 14, 2020 at 9:50:29 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "smpearson@essvote.com Pearson, Steve" , email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com Michael Walker" , email: "paumayr@eac.gov Paul Aumayr" , email: "mharrington@eac.gov Mona Harrington"

Thanks Jerome for getting these letters to us. We will be getting the Joint letter to you today.

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, July 14, 2020 3:04 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Pearson, Steve <smpearson@essvote.com>; Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>; Paul Aumayr <paumayr@eac.gov>; Mona Harrington <mharrington@eac.gov>

Subject: Initial Decision - EVS

Hi Sue,

Attached is the initial decision on certification for EVS 6.1.1.0.

Thank you,

Jerome

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To find out more Click Here.

---

email: "smpearson@essvote.com Pearson, Steve" **Tuesday, July 14, 2020 at 9:55:07 AM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue" , email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com Michael Walker" , email: "paumayr@eac.gov Paul Aumayr" , email: "mharrington@eac.gov Mona Harrington"

Ditto. Appreciate everyone's support through the final approval process.

Steve

From: McKay, Sue <slmckay@essvote.com>

Sent: Tuesday, July 14, 2020 8:50 AM

To: Jerome Lovato <jlovato@eac.gov>

Cc: Pearson, Steve <smpearson@essvote.com>; Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>; Paul Aumayr <paumayr@eac.gov>; Mona Harrington <mharrington@eac.gov>

Subject: RE: Initial Decision - EVS

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Sent: Tuesday, July 14, 2020 3:04 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Pearson, Steve <smpearson@essvote.com>; Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>;
Paul Aumayr <paumayr@eac.gov>; Mona Harrington <mharrington@eac.gov>

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Thank you,

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To find out more Click Here.

Dominion Democracy Suite 5.5-C final certification

email: "jlovato@eac.gov Jerome Lovato" **Tuesday, July 14, 2020 at 4:12:19 AM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper"
Cc: email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com Michael Walker" , email: "mharrington@eac.gov Mona Harrington" , email: "paumayr@eac.gov Paul Aumayr"

Hi Ian,

Attached is the certificate of conformance and scope of certification for the Democracy Suite 5.5-C voting system.

Thank you,

Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

Attachments:

DVS DSuite 5.5-C Certification and Scope 07-09-2020.pdf 806k

email: "ian.piper@dominionvoting.com Ian Piper" **Tuesday, July 14, 2020 at 8:54:25 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com Michael Walker" , email: "mharrington@eac.gov Mona Harrington" , email: "paumayr@eac.gov Paul Aumayr"

Jerome:

Thank you very much.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, July 14, 2020 4:12 AM

To: Ian Piper <ian.piper@dominionvoting.com>

Cc: Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>; Mona Harrington <mharrington@eac.gov>; Paul Aumayr <paumayr@eac.gov>

Subject: [EXTERNAL] Dominion Democracy Suite 5.5-C final certification

Hi Ian,

Attached is the certificate of conformance and scope of certification for the Democracy Suite 5.5-C voting system.

Thank you,

Jerome Lovato

Director, Voting System Testing and Certification

U.S. Election Assistance Commission

Ph. 202-805-4613

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Weekly Meeting

email: "pgeppert@hartic.com Pamela Geppert" **Monday, July 13, 2020 at 5:56:35 PM Eastern Daylight Time**
To: email: "eburton@eac.gov Eugene Burton"
Cc: email: "jbernal@hartic.com Jared Bernal" , email: "JPanek@slicompliance.com Jonathon Panek"

Hi, Eugene –

I wanted to touch base with you, since I didn't see a meeting on the calendar for tomorrow. Are we scheduled for a weekly meeting? If so, could you please resend?

Thanks,

Pam

Pam Geppert, PMP, CERV

Director of Certification & Proposals

Hart InterCivic

15500 Wells Port Drive | Austin, TX | 78728

Direct: 512.252.6813 | Mobile: 512.626.4130 | 800.223.HART

pgeppert@hartic.com |
www.hartintercivic.com

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Attachments:

image003.jpg 1.5k

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email: "eburton@eac.gov Eugene Burton" **Tuesday, July 14, 2020 at 1:05:56 PM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"

On Mon, Jul 13, 2020 at 5:56 PM Pamela Geppert <pgeppert@hartic.com> wrote:

> Hi, Eugene –
>
> I wanted to touch base with you, since I didn't see a meeting on the calendar for tomorrow. Are we scheduled for a weekly meeting? If so, could you please resend?
>
> Thanks,
>
> Pam

Pam Geppert, PMP, CERV

Director of Certification & Proposals

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pgeppert@hartic.com |
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--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

Attachments:

image003.jpg 1.5k

Testing & Certification update

email: "jlovato@eac.gov Jerome Lovato" **Friday, April 3, 2020 at 2:56:18 PM Eastern Daylight Time**
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

Hi All,

Due to recent changes in our program, I thought this would be a good time to provide an update and request updated information from you all.

1. T&C Personnel
As some of you may know, Jessica Bowers is no longer with the Testing & Certification team. She started a new role at the EAC as the Senior Cybersecurity Program Manager on March 30th. Paul Aumayr has taken on her T&C projects and I am serving as his backup. We are currently in the process of hiring two additional team members.

2. Updated manufacturer registration information
In an effort to streamline our record keeping and ensure that our records are up to date, I am requesting that you submit an updated manufacturer registration form (attached). Section 2.5.2 also states that manufacturers must submit a revised application form to the EAC within 30 days of any changes to the information required on the application form.

3. Manufacturing site visits (Section 2.3.2.5)
We are still planning on conducting manufacturing site visits this year. Due to the COVID-19 pandemic, we will likely visit at least two manufacturing sites. I will be in touch with each of you as more information becomes available regarding federal travel restrictions.

4. Malfunction reporting (Section 2.3.2.7)
Please remember to report any known malfunction of an EAC-certified voting system. Initial Malfunction Reports should identify the location, nature, date, impact, and status of resolution (if any) of the malfunction and be filed within 30 business days of occurrence during, or in preparation, for a Federal election. A malfunction is a failure of a voting system, not caused solely by operator or administrative error, which causes the system to not function as expected during a Federal election or otherwise results in data loss.

5. EAC-certified voting system use (Section 2.3.2.8)
Please submit a spreadsheet of all EAC-certified voting systems that are in use with this information: jurisdiction name, voting system, voting system version. Just as a reminder, this information must also be submitted to me within five business days of delivery of the first production unit of the voting system to the jurisdiction.

6. EAC Public Hearings
The EAC is planning on conducting a COVID19 hearing on April 22nd and a VVSG 2.0 hearing on May 6th. I will send more detailed information as it becomes available.

As always, please reach out if you have any questions. Hope you all are staying healthy and safe, and thank you for supporting election officials during this trying time.

Jerome
202-805-4613

Attachments:

Manufacturer_Registration_Application.EAC_001C April 2020.pdf 2.8M

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email: "russ.dawson@clearballot.com Russ Dawson" **Monday, April 6, 2020 at 5:26:35 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

Hello everyone from Clear Ballot Group.

Thanks for the update and the clearly defined communication style that we so much appreciate.

Jerome, a few weeks ago you mentioned that the EAC intended to reapproach the vendor community for additionally embellished policies and procedures related to central count scanning hardware. Since then, CBG has edited and improved its policy and procedures document in terms of both content and readability. Never before has this been as important considering how many absentee/mail ballots will be processed throughout the United States this year. In any event, the revised document is attached.

Paul or Zach, a huge (and sort of embarrassing) favor to ask of you. I have totally struck out on my effort to find in CBG's archives the most recently submitted Manufacturer Registration Application. Jerome requested each technology vendor submit an updated application, and it's my task to manage. May I request that one of you sends to me CBG's most recently submitted application? It'd really help me speed up the revision and submission process.

Thanks so much in advance and please let me know if you can assist me.

Best, rpd

Russ Dawson
Federal Certification Program Manager
512.350.5720
www.clearballot.com

On Fri, Apr 3, 2020 at 1:56 PM Jerome Lovato <jlovato@eac.gov> wrote:

> Hi All,
>
> Due to recent changes in our program, I thought this would be a good time to provide an update and request updated information from you all.
>
> **1. T&C Personnel**
> As some of you may know, Jessica Bowers is no longer with the Testing & Certification team. She started a new role at the EAC as the Senior Cybersecurity Program Manager on March 30th. Paul Aumayr has taken on her T&C projects and I am serving as his backup. We are currently in the process of hiring two additional team members.
>
> **2. Updated manufacturer registration information**

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As always, please reach out if you have any questions. Hope you all are staying healthy and safe, and thank you for supporting election officials during this trying time.

Jerome
202-805-4613

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Attachments:

Election Safety Hygiene Doc 040120.pdf 503k

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email: "jlovato@eac.gov Jerome Lovato" **Tuesday, April 7, 2020 at 2:09:49 PM Eastern Daylight Time**
To: email: "russ.dawson@clearballot.com Russ Dawson"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

Hi Russ,

Unfortunately, I cannot find the most recent (or original) application in our files. I will request access to the previous director's email and hope to find it there.

Thank you for sending the revised cleaning doc. Do I have permission to post it on our website?

Thank you,
Jerome

On Mon, Apr 6, 2020 at 5:27 PM Russ Dawson <russ.dawson@clearballot.com> wrote:

> Hello everyone from Clear Ballot Group.
>
> Thanks for the update and the clearly defined communication style that we so much appreciate.
>
> Jerome, a few weeks ago you mentioned that the EAC intended to reapproach the vendor community for additionally embellished policies and procedures related to central count scanning hardware. Since then, CBG has edited and improved its policy and procedures document in terms of both content and readability. Never before has this been as important considering how many absentee/mail ballots will be processed throughout the United States this year. In any event, the revised document is attached.
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---

email: "russ.dawson@clearballot.com Russ Dawson" **Tuesday, April 7, 2020 at 3:15:44 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

Hello everyone.

Revised cleaning document: Yes Jerome, AOK to post. In fact we generated this revised document with the purpose of a universal instrument suitable for distribution to EAC, CBG web site, CBG clientele, poll workers, basically every stakeholder group that would benefit from knowing.

Manufacturer's Application: Again, my request was an embarrassing one. If you have a little time to look around, great. If not, I'll proceed with Plan B later this week.

Again, thanks much for your timely and detailed communication.

- rpd

Russ Dawson
Federal Certification Program Manager
512.350.5720
www.clearballot.com

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>
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>
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Jerome
202-805-4613

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email: "jlovato@eac.gov Jerome Lovato" **Friday, May 1, 2020 at 2:31:32 PM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw" , email: "kay.stimson@dominionvoting.com Kay Stimson"

Hi Ian,

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Please let me know if you have any questions.

Thank you,
Jerome

On Fri, Apr 3, 2020 at 2:56 PM Jerome Lovato <jlovato@eac.gov> wrote:

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Jerome
202-805-4613

Attachments:

Voting Systems by Jurisdiction template.xlsx 9.1k

Manufacturer_Registration_Application.EAC_001C April 2020.pdf 2.8M

---

email: "jlovato@eac.gov Jerome Lovato" **Friday, May 1, 2020 at 2:32:59 PM Eastern Daylight Time**
To: email: "cortiz@unisynvoting.com Chris Ortiz"

Cc: email: "mcoutts@unisynvoting.com McDermot Coutts" , email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

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email: "cortiz@unisynvoting.com Chris Ortiz" **Friday, May 1, 2020 at 2:35:23 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "mcoutts@unisynvoting.com McDermot Coutts" , email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

My apologies Will get this back to you Monday

Have a great weekend

From: Jerome Lovato <jlovato@eac.gov>

Sent: Friday, May 1, 2020 11:33 AM

To: Chris Ortiz <cortiz@unisynvoting.com>

Cc: McDermot Coutts <mcoutts@unisynvoting.com>; Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>

Subject: Re: Testing & Certification update

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email: "jlovato@eac.gov Jerome Lovato" **Friday, May 1, 2020 at 2:42:23 PM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

Hi Pam,

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202-805-4613

Attachments:

Voting Systems by Jurisdiction template.xlsx 9.1k

Manufacturer_Registration_Application.EAC_001C April 2020.pdf 2.8M

Hart - Voting Systems by Jurisdiction 05-01-2020.xlsx 21k

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email: "jlovato@eac.gov Jerome Lovato" **Friday, May 1, 2020 at 2:43:50 PM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "smpearson@essvote.com Pearson, Steve" , email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

Hi Sue,

I am following up on my email from earlier in April. Will you please submit the information requested in #2 and #5? I have attached a template for the voting systems by jurisdiction and manufacturer registration form.

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Manufacturer_Registration_Application.EAC_001C April 2020.pdf 2.8M

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email: "jlovato@eac.gov Jerome Lovato" **Friday, May 1, 2020 at 2:44:32 PM Eastern Daylight Time**
To: email: "cortiz@unisynvoting.com Chris Ortiz"
Cc: email: "mcoutts@unisynvoting.com McDermot Coutts" , email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

Thank you, Chris. Have a good weekend as well!

On Fri, May 1, 2020 at 2:35 PM Chris Ortiz <cortiz@unisynvoting.com> wrote:

My apologies Will get this back to you Monday

Have a great weekend

From: Jerome Lovato <jlovato@eac.gov>

Sent: Friday, May 1, 2020 11:33 AM

To: Chris Ortiz <cortiz@unisynvoting.com>

Cc: McDermot Coutts <mcoutts@unisynvoting.com>; Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>

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email: "pgeppert@hartic.com Pamela Geppert" **Friday, May 1, 2020 at 2:58:22 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

Thanks, Jerome!

Yes, I'll do this ASAP.

-Pam

From: Jerome Lovato <jlovato@eac.gov>

Sent: Friday, May 1, 2020 1:42 PM

To: Pamela Geppert <pgeppert@hartic.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>

Subject: Re: Testing & Certification update

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email: "jlovato@eac.gov Jerome Lovato" **Friday, May 1, 2020 at 3:17:11 PM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

Thank you, Pam. Have a good weekend!

Jerome

On Fri, May 1, 2020 at 2:58 PM Pamela Geppert <pgeppert@hartic.com> wrote:

Thanks, Jerome!

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From: Jerome Lovato <jlovato@eac.gov>

Sent: Friday, May 1, 2020 1:42 PM

To: Pamela Geppert <pgeppert@hartic.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>

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202-805-4613

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email: "slmckay@essvote.com McKay, Sue" **Friday, May 1, 2020 at 4:35:16 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "smpearson@essvote.com Pearson, Steve" , email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

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Sent: Friday, May 01, 2020 1:44 PM

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Cc: Pearson, Steve <smpearson@essvote.com>; Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>

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email: "jlovato@eac.gov Jerome Lovato" **Friday, May 1, 2020 at 4:47:03 PM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "smpearson@essvote.com Pearson, Steve" , email: "zshaw@eac.gov Zachary Shaw"

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Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

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email: "slmckay@essvote.com McKay, Sue" **Friday, May 1, 2020 at 4:55:49 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
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Attachments:

ES&S Manufacturer Application.pdf 2.1M

email: "ian.piper@dominionvoting.com Ian Piper" **Monday, May 4, 2020 at 1:22:04 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw" , email: "kay.stimson@dominionvoting.com Kay Stimson"

Jerome:

I hadn't forgotten about you; just a lot on my plate these days. Please find attached an updated copy of the Manufacturer's Registration form for Dominion Voting
Systems, Inc, which should address item #2. I'm waiting for some further information to address item #5.

If you have any questions, please let me know.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

From: Jerome Lovato <jlovato@eac.gov>

Sent: Friday, May 1, 2020 2:32 PM

To: Ian Piper <ian.piper@dominionvoting.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>; Kay Stimson <kay.stimson@dominionvoting.com>

Subject: [EXTERNAL]Re: Testing & Certification update

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Attachments:

Manufacturer_Registration_Application.EAC_001C (Dominion 2020-05-04).pdf 338k

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email: "jlovato@eac.gov Jerome Lovato" **Monday, May 4, 2020 at 5:38:14 PM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
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Jerome Lovato

Director, Voting System Testing and Certification

U.S. Election Assistance Commission

Ph. 202-805-4613

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---

email: "jlovato@eac.gov Jerome Lovato" **Monday, May 4, 2020 at 5:40:52 PM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw" , email: "kay.stimson@dominionvoting.com Kay Stimson"

Thank you, Ian.

Jerome

On Mon, May 4, 2020 at 1:23 PM Ian Piper <ian.piper@dominionvoting.com> wrote:

Jerome:

I hadn't forgotten about you; just a lot on my plate these days. Please find attached an updated copy of the Manufacturer's Registration form for Dominion Voting
Systems, Inc, which should address item #2. I'm waiting for some further information to address item #5.

If you have any questions, please let me know.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

From: Jerome Lovato <jlovato@eac.gov>

Sent: Friday, May 1, 2020 2:32 PM

To: Ian Piper <ian.piper@dominionvoting.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>; Kay Stimson <kay.stimson@dominionvoting.com>

Subject: [EXTERNAL]Re: Testing & Certification update

Hi Ian,

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Please let me know if you have any questions.

Thank you,

Jerome

On Fri, Apr 3, 2020 at 2:56 PM Jerome Lovato <jlovato@eac.gov> wrote:

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202-805-4613

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---

email: "cortiz@unisynvoting.com Chris Ortiz" **Monday, May 4, 2020 at 6:56:14 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

For consideration.

My apologies on delay

From: Jerome Lovato <jlovato@eac.gov>

Sent: Friday, May 1, 2020 11:33 AM

To: Chris Ortiz <cortiz@unisynvoting.com>

Cc: McDermot Coutts <mcoutts@unisynvoting.com>; Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>

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Attachments:

Voting Systems by Jurisdiction_Unisyn Voting Solutions_050120.xlsx 17k

Manufacturer_Registration_Application.EAC_001C April 2020.pdf 2.9M

email: "jlovato@eac.gov Jerome Lovato" **Tuesday, May 5, 2020 at 1:23:07 PM Eastern Daylight Time**
To: email: "cortiz@unisynvoting.com Chris Ortiz"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

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To: Chris Ortiz <cortiz@unisynvoting.com>

Cc: McDermot Coutts <mcoutts@unisynvoting.com>; Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>

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---

email: "cortiz@unisynvoting.com Chris Ortiz" **Tuesday, May 5, 2020 at 1:37:11 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

No problem. Be safe

Sent from my Verizon, Samsung Galaxy smartphone

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, May 5, 2020 10:23:07 AM

To: Chris Ortiz <cortiz@unisynvoting.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>

Subject: Re: Testing & Certification update

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email: "slmckay@essvote.com McKay, Sue" **Wednesday, May 20, 2020 at 3:19:14 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "smpearson@essvote.com Pearson, Steve" , email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw"

Jerome,

Attached is our list of customers who are currently running on EAC releases. Please let me know if you have any questions.

Sue

From: Jerome Lovato <jlovato@eac.gov>

Sent: Friday, May 01, 2020 1:44 PM

To: McKay, Sue <slmckay@essvote.com>

Cc: Pearson, Steve <smpearson@essvote.com>; Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>

Subject: Re: Testing & Certification update

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To find out more Click Here.

Attachments:

2020 EAC Customer List.xlsx 35k

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email: "jlovato@eac.gov Jerome Lovato" **Wednesday, May 20, 2020 at 6:12:28 PM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
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---

email: "zshaw@eac.gov Zachary Shaw" **Friday, May 22, 2020 at 1:16:32 PM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "jlovato@eac.gov Jerome Lovato" , email: "smpearson@essvote.com Pearson, Steve" , email: "paumayr@eac.gov Paul Aumayr"

Sue,

Thanks for sending this over.

I had the chance to go through everything and had one follow-up question. You have the state of Maine listed without individual counties. I believe that some jurisdictions in Maine do not use voting machines (hand-counts), so I was wondering which counties you supply systems to? Also, do all of those counties use the same version EVS 5.2.1.0 (as currently listed)?

Thank you,

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On Wed, May 20, 2020 at 3:20 PM McKay, Sue <slmckay@essvote.com> wrote:

Jerome,

Attached is our list of customers who are currently running on EAC releases. Please let me know if you have any questions.

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From: Jerome Lovato <jlovato@eac.gov>

Sent: Friday, May 01, 2020 1:44 PM

To: McKay, Sue <slmckay@essvote.com>

Cc: Pearson, Steve <smpearson@essvote.com>; Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>

Subject: Re: Testing & Certification update

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Thank you,

Jerome

On Fri, Apr 3, 2020 at 2:56 PM Jerome Lovato <jlovato@eac.gov> wrote:

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202-805-4613

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Zachary Shaw

Testing and Certification

U.S. Election Assistance Commission

zshaw@eac.gov

(724) 816-9315

---

email: "slmckay@essvote.com McKay, Sue" **Tuesday, May 26, 2020 at 11:38:00 AM Eastern Daylight Time**
To: email: "zshaw@eac.gov Zachary Shaw"
Cc: email: "jlovato@eac.gov Jerome Lovato" , email: "smpearson@essvote.com Pearson, Steve" , email: "paumayr@eac.gov Paul Aumayr"

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Let me know if you have any other questions.

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From: Zachary Shaw <zshaw@eac.gov>

Sent: Friday, May 22, 2020 12:17 PM

To: McKay, Sue <slmckay@essvote.com>

Cc: Jerome Lovato <jlovato@eac.gov>; Pearson, Steve <smpearson@essvote.com>; Paul Aumayr <paumayr@eac.gov>

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Attachments:

Maine Customers.xlsx 12k

---

email: "zshaw@eac.gov Zachary Shaw" **Tuesday, May 26, 2020 at 1:46:36 PM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "jlovato@eac.gov Jerome Lovato" , email: "smpearson@essvote.com Pearson, Steve" , email: "paumayr@eac.gov Paul Aumayr"

Thanks Sue,

This is perfect - appreciate your help.

Have a great week!

-Zach

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> Zach,
>
> Attached is our list of ME customers. All of them are on EVS 5.2.1.0.
>
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zshaw@eac.gov

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email: "jlovato@eac.gov Jerome Lovato" **Tuesday, May 26, 2020 at 5:33:41 PM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw" , email: "kay.stimson@dominionvoting.com Kay Stimson"

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> Thank you, Ian.
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If you have any questions, please let me know.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

From: Jerome Lovato <jlovato@eac.gov>

Sent: Friday, May 1, 2020 2:32 PM

To: Ian Piper <ian.piper@dominionvoting.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>; Kay Stimson <kay.stimson@dominionvoting.com>

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Jerome:

We’re reaching out to our dealers who support specific states and regions to gather additional information about their configurations. I apologize for the delay.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
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720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

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202-805-4613

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To: email: "ian.piper@dominionvoting.com Ian Piper"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "zshaw@eac.gov Zachary Shaw" , email: "kay.stimson@dominionvoting.com Kay Stimson"

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1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
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720-257-5209 OFFICE
(x9221)

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703-244-3180 MOBILE

From: Jerome Lovato <jlovato@eac.gov>

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Attachments:

Voting Systems by Jurisdiction (Dominion 2020-07-13).xlsx 32k

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Sent: Friday, May 1, 2020 2:32 PM

To: Ian Piper <ian.piper@dominionvoting.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Zachary Shaw <zshaw@eac.gov>; Kay Stimson <kay.stimson@dominionvoting.com>

Subject: [EXTERNAL]Re: Testing & Certification update

Hi Ian,

I am following up on my email from earlier in April. Will you please submit the information requested in #2 and #5? I have attached a template for the voting systems by jurisdiction and manufacturer registration form.

We will have another hearing on VVSG 2.0 on May 6th at 1:30 PM ET. Here is the link with the information: https://www.federalregister.gov/documents/2020/04/30/2020-09344/sunshine-act-meeting-public-hearing-the-vvsg-20-requirements-hearing-2-implementation-of-the-vvsg-at

Please let me know if you have any questions.

Thank you,

Jerome

On Fri, Apr 3, 2020 at 2:56 PM Jerome Lovato <jlovato@eac.gov> wrote:

Hi All,

Due to recent changes in our program, I thought this would be a good time to provide an update and request updated information from you all.

1. T&C Personnel

As some of you may know, Jessica Bowers is no longer with the Testing & Certification team. She started a new role at the EAC as the Senior Cybersecurity Program Manager on March
30th. Paul Aumayr has taken on her T&C projects and I am serving as his backup. We are currently in the process of hiring two additional team members.

2. Updated manufacturer registration information

In an effort to streamline our record keeping and ensure that our records are up to date, I am requesting that you submit an updated manufacturer registration form (attached). Section
2.5.2 also states that manufacturers must submit a revised application form to the EAC within 30 days of any changes to the information required on the application form.

3. Manufacturing site visits (Section 2.3.2.5)

We are still planning on conducting manufacturing site visits this year. Due to the COVID-19 pandemic, we will likely visit at least two manufacturing sites. I will be in touch
with each of you as more information becomes available regarding federal travel restrictions.

4. Malfunction reporting (Section 2.3.2.7)

Please remember to report any known malfunction of an EAC-certified voting system. Initial Malfunction Reports should identify the location, nature, date, impact, and status of resolution (if any) of the malfunction and be filed within 30 business days of occurrence during, or in preparation, for a Federal election. A malfunction is a failure of a voting system, not caused solely by operator or administrative error, which causes the system to not function as expected during a Federal election or otherwise results in data loss.

5. EAC-certified voting system use (Section 2.3.2.8)

Please submit a spreadsheet of all EAC-certified voting systems that are in use with this information: jurisdiction name, voting system, voting system version. Just as a reminder, this information must also be submitted to me within five business days of delivery of the first production unit of the voting system to the jurisdiction.

6. EAC Public Hearings

The EAC is planning on conducting a COVID19 hearing on April 22nd and a VVSG 2.0 hearing on May 6th. I will send more detailed information as it becomes available.

As always, please reach out if you have any questions. Hope you all are staying healthy and safe, and thank you for supporting election officials during this trying time.

Jerome

202-805-4613

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ES&S EVS 6030 and EVS 6100 Approvals

email: "smpearson@essvote.com Pearson, Steve" **Monday, July 13, 2020 at 4:09:36 PM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington (mharrington@eac.gov)"
Cc: email: "jlovato@eac.gov Jerome Lovato - EAC (jlovato@eac.gov)" , email: "slmckay@essvote.com McKay, Sue"

Mona,

I'm reaching out to inquire on the status of the EVS 6030 and EVS 6110 releases we recently completed testing on with Pro V&V. As you might guess, we have a number of states that require EAC final approval that are waiting to move forward
with their examinations. Both of these releases are planned for rollout and use in the November election, so time is quickly becoming our enemy. If there's anything we can to expedite the final approval, please let us know.

Thank you for your support and let us know if there's anything we can do to help.

Regards,

Steve

cid:ima

Steve Pearson

Sr. Vice President, Certification

Election Systems & Software |11208 John Galt Blvd | Omaha, NE 68137

Direct: 402-970-1225 | Cell: 402-212-4660 |
smpearson@essvote.com

www.essvote.com

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To find out more Click Here.

Attachments:

image003.jpg 1.9k

email: "jlovato@eac.gov Jerome Lovato" **Monday, July 13, 2020 at 5:34:49 PM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"

---------- Forwarded message ---------
From: **Pearson, Steve** <smpearson@essvote.com>
Date: Mon, Jul 13, 2020 at 4:09 PM
Subject: ES&S EVS 6030 and EVS 6100 Approvals
To: Mona Harrington (mharrington@eac.gov) <mharrington@eac.gov>
CC: Jerome Lovato - EAC (jlovato@eac.gov) <jlovato@eac.gov>, McKay, Sue <slmckay@essvote.com>

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cid:image0

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--

Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

Attachments:

image003.jpg 1.9k

EVS 6030 and 6110 Draft Scopes of Certification

email: "paumayr@eac.gov Paul Aumayr" **Tuesday, July 7, 2020 at 9:35:03 AM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue" , email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton" , email: "stephen.han@provandv.com Stephen Han"

Good morning Sue -

Attached are draft scopes for 6.0.3.0 and 6.1.1.0., for your review and comments. In the meantime, I'm still waiting on feedback from senior management on the initial decision, which I believe will be done very soon.

Many thanks

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

Attachments:

EVS6030_Scope of Certification DRAFT 07072020.docx 382k

EVS6110_Scope of Certification DRAFT 07072020.docx 378k

email: "slmckay@essvote.com McKay, Sue" **Tuesday, July 7, 2020 at 9:39:17 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr" , email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton" , email: "stephen.han@provandv.com Stephen Han"

Thanks Paul. We will get our comments back to you today.

Sent from my Verizon, Samsung Galaxy smartphone

-------- Original message --------

From: Paul Aumayr <paumayr@eac.gov>

Date: 7/7/20 8:35 AM (GMT-06:00)

To: "McKay, Sue" <slmckay@essvote.com>, "Pearson, Steve" <smpearson@essvote.com>

Cc: Jessica Fleming <jfleming@eac.gov>, Eugene Burton <eburton@eac.gov>, Stephen Han <stephen.han@provandv.com>

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email: "slmckay@essvote.com McKay, Sue" **Tuesday, July 7, 2020 at 5:03:50 PM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton" , email: "stephen.han@provandv.com Stephen Han" , email: "smpearson@essvote.com Pearson, Steve" , email: "tjhallett@essvote.com Hallett, Tim"

Afternoon Paul,

Attached is our review of the draft Scopes of Certification. Please let me know if you have any questions regarding or suggestions or comments.

Sue

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, July 07, 2020 8:35 AM

To: McKay, Sue <slmckay@essvote.com>; Pearson, Steve <smpearson@essvote.com>

Cc: Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>; Stephen Han <stephen.han@provandv.com>

Subject: EVS 6030 and 6110 Draft Scopes of Certification

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Attachments:

EVS6030_Scope of Certification_ESSFeedback.docx 396k

EVS6110_Scope of Certification_ESSFeedback.docx 383k

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email: "paumayr@eac.gov Paul Aumayr" **Wednesday, July 8, 2020 at 1:21:11 PM Eastern Daylight Time**

To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton" , email: "stephen.han@provandv.com Stephen Han" , email: "smpearson@essvote.com Pearson, Steve" , email: "tjhallett@essvote.com Hallett, Tim"

Sue - Received.

Many thanks!

Paul

On Tue, Jul 7, 2020 at 5:05 PM McKay, Sue <slmckay@essvote.com> wrote:

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Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

email: "smpearson@essvote.com Pearson, Steve" **Wednesday, July 8, 2020 at 2:16:57 PM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr" , email: "jlovato@eac.gov Jerome Lovato - EAC (jlovato@eac.gov)"
Cc: email: "slmckay@essvote.com McKay, Sue"

Jerome and Paul, any progress updates on the initial decision for these two releases? We are in the midst of state certifications in a handful of states where these two have been requested. As you know, time is precious in getting through
the state cert and customer implementations. Anything the two of you can do to expedite the process would be greatly appreciated.

Thanks,

Steve

From: Paul Aumayr <paumayr@eac.gov>

Sent: Wednesday, July 8, 2020 12:21 PM

To: McKay, Sue <slmckay@essvote.com>

Cc: Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>; Stephen Han <stephen.han@provandv.com>; Pearson, Steve <smpearson@essvote.com>; Hallett, Tim <tjhallett@essvote.com>

Subject: Re: EVS 6030 and 6110 Draft Scopes of Certification

Sue - Received.

Many thanks!

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To: McKay, Sue <slmckay@essvote.com>; Pearson, Steve <smpearson@essvote.com>

Cc: Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>; Stephen Han <stephen.han@provandv.com>

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To: email: "smpearson@essvote.com Pearson, Steve"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue"

Hi Steve,

I submitted the recommendation to Mona earlier this week and she approved them. However, we caught an error in both letters so I re-submitted the letters to Mona for her signature. I will send the letters as soon as they are signed.

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Sent: Wednesday, July 8, 2020 12:21 PM

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To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "slmckay@essvote.com McKay, Sue"

Perfect. Thanks Jerome.

From: Jerome Lovato <jlovato@eac.gov>

Sent: Wednesday, July 8, 2020 1:58 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>

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Sent: Wednesday, July 8, 2020 12:21 PM

To: McKay, Sue <slmckay@essvote.com>

Cc: Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>; Stephen Han <stephen.han@provandv.com>; Pearson, Steve <smpearson@essvote.com>; Hallett, Tim <tjhallett@essvote.com>

Subject: Re: EVS 6030 and 6110 Draft Scopes of Certification

Sue - Received.

Many thanks!

Paul

On Tue, Jul 7, 2020 at 5:05 PM McKay, Sue <slmckay@essvote.com> wrote:

> Afternoon Paul,
>
> Attached is our review of the draft Scopes of Certification. Please let me know if you have any questions regarding or suggestions or comments.
>
> Sue

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, July 07, 2020 8:35 AM

To: McKay, Sue <slmckay@essvote.com>; Pearson, Steve <smpearson@essvote.com>

Cc: Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>; Stephen Han <stephen.han@provandv.com>

Subject: EVS 6030 and 6110 Draft Scopes of Certification

Good morning Sue -

Attached are draft scopes for

6.0.3.0 and
6.1.1.0., for your review and comments. In the meantime, I'm still waiting on feedback from senior management on the initial decision, which I believe will be done very soon.

Many thanks

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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email: "slmckay@essvote.com McKay, Sue" **Monday, July 13, 2020 at 12:27:23 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato" , email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "smpearson@essvote.com Pearson, Steve"

Jerome and Paul,

Any word on this? It has been 3 weeks since our Test Report was finalized.

Sue

From: Jerome Lovato <jlovato@eac.gov>

Sent: Wednesday, July 08, 2020 1:58 PM

To: Pearson, Steve <smpearson@essvote.com>

Cc: Paul Aumayr <paumayr@eac.gov>; McKay, Sue <slmckay@essvote.com>

Subject: Re: EVS 6030 and 6110 Draft Scopes of Certification

Hi Steve,

I submitted the recommendation to Mona earlier this week and she approved them. However, we caught an error in both letters so I re-submitted the letters to Mona for her signature. I will send the letters as soon as they are signed.

Thank you,

Jerome

On Wed, Jul 8, 2020 at 2:17 PM Pearson, Steve <smpearson@essvote.com> wrote:

Jerome and Paul, any progress updates on the initial decision for these two releases? We are in the midst of state certifications in a handful of states where these two have been requested. As you know, time is precious in getting through the state cert and customer implementations. Anything the two of you can do to expedite the process would be greatly appreciated.

Thanks,

Steve

From: Paul Aumayr <paumayr@eac.gov>

Sent: Wednesday, July 8, 2020 12:21 PM

To: McKay, Sue <slmckay@essvote.com>

Cc: Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>; Stephen Han <stephen.han@provandv.com>;
Pearson, Steve <smpearson@essvote.com>; Hallett, Tim <tjhallett@essvote.com>

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From: Paul Aumayr <paumayr@eac.gov>

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Cc: Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>; Stephen Han <stephen.han@provandv.com>

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Paul

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Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

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Paul Aumayr

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Verity Voting 2.5 test plan approval

email: "jlovato@eac.gov Jerome Lovato" **Friday, July 10, 2020 at 5:50:39 PM Eastern Daylight Time**
To: email: "jpanek@slicompliance.com Jonathon Panek"
Cc: email: "tmapps@slicompliance.com Traci Mapps" , email: "msantos@slicompliance.com Mike Santos" , email: "eburton@eac.gov Eugene Burton" , email: "pgeppert@hartic.com Pamela Geppert" , email: "jbernal@hartic.com Jared Bernal"

Hi Jon,

Attached is the Verity Voting 2.5 test plan approval.

Have a good weekend!

Jerome

Attachments:

Verity Voting 2.5 Test Plan Approval 07-10-2020.pdf 76k

email: "pgeppert@hartic.com Pamela Geppert" **Friday, July 10, 2020 at 6:56:05 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Thanks, Jerome!

-Pam

From: Jerome Lovato <jlovato@eac.gov>

Sent: Friday, July 10, 2020 4:51 PM

To: Jonathon Panek <jpanek@slicompliance.com>

Cc: Traci Mapps <tmapps@slicompliance.com>; Mike Santos <msantos@slicompliance.com>; Eugene Burton <eburton@eac.gov>; Pamela Geppert <pgeppert@hartic.com>; Jared Bernal <jbernal@hartic.com>

Subject: Verity Voting 2.5 test plan approval

Hi Jon,

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Have a good weekend!

Jerome

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---

email: "JPanek@slicompliance.com Jonathon Panek" **Sunday, July 12, 2020 at 11:52:23 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "TMapps@slicompliance.com Traci Mapps" , email: "MSantos@slicompliance.com Michael Santos" , email: "eburton@eac.gov Eugene Burton" , email: "pgeppert@hartic.com Pamela Geppert" , email: "jbernal@hartic.com Jared Bernal"

Thank you Jerome!

From: Jerome Lovato <jlovato@eac.gov>

Sent: Friday, July 10, 2020 3:51 PM

To: Jonathon Panek <JPanek@slicompliance.com>

Cc: Traci Mapps <TMapps@SLIcompliance.com>; Michael Santos <MSantos@SLIcompliance.com>; Eugene Burton <eburton@eac.gov>; Pamela Geppert <pgeppert@hartic.com>; Jared Bernal <jbernal@hartic.com>

Subject: Verity Voting 2.5 test plan approval

Hi Jon,

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Jerome

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Summary of Hart thoughts on requirements, test assertion, and innovation

email: "jcanter@hartic.com Jim Canter" **Friday, July 10, 2020 at 6:26:33 PM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington" , email: "jlovato@eac.gov Jerome Lovato" , email: "mary.brady@nist.gov Brady, Mary C. (Fed)"
Cc: email: "sderheimer@hartic.com Sam Derheimer"

Hello Mona, Mary & Jerome –

Thank you for today's meeting. I understand the effort you are going through in herding cats through his process. I hope that my comments during the discussion today were helpful. Hart's only intention is to contribute to making the VVSG
2.0 be successful.

As our submissions have stated, I firmly believe in requirements that meet the definition per the IEEE specification. I've harped on this a lot so I will not bore you with the definition of a good requirement any further. What I do want
to say is that the process going forward should focus on striking a balance between drafting mature requirements while not stifling innovation by making the requirements too restrictive. With that, a couple of follow-on points:

1. I agree with Mary in that if the requirement is well written (per IEEE 830-1998), test assertions are not needed, or at least carry lower value.
   Test assertions reduce the ambiguity of the requirement; inversely, if we're able to add needed

specifications to the requirement language itself
now, we should then be reducing the need for test assertions *later* (not to mention RFI to the EAC from manufacturers).

2. Ben Adida raised an excellent point about stifling innovation, with which I wholeheartedly agree. Frankly, I encourage innovation and competitive differentiation, as it allows the market to decide which systems are best suited for deployment. No one can argue that a well-defined requirement is highly prescriptive – that is the nature of a good requirement. But a requirement should be well-defined or removed as a requirement; it cannot be both. I am advocating that the requirements be either well defined (measurable) *or* be accompanied by a test assertions or eliminated.

   In some cases, I think the EAC and NIST have likely purposely left requirements open to (some degree of) interpretation to allow for innovation, as in a behavioral principle. Here, I want to suggest that such requirements would fit better, and lead to a lot less confusion, if they were *instead made principles*. My favorite example, which Hart has highlighted in our submissions, is the “RLAs must be efficient” requirement; *this is a principle, not a requirement*. Let the market decide which voting systems are efficient or not. But, as written, the test labs can’t test to “efficiency,” thus making it a difficult requirement with which to comply (but a *good* principle that drives competitive innovation).

3. Naturally, there should be well-defined “hard” prescriptive requirements too – this is expected. As I mentioned on the call, I point you to the medical device industry. There is no ambiguity as to the requirements of the emergency stop button. This is highly prescriptive, and needed, as there can’t be any difference across medical devices how to emergency stop the unit. This is a prescriptive requirements example in that all emergency stops must be red, and no other button can be red, as people’s lives depend on it. The flip side is this: if a medical device company wants to have two-factor authentication to program a unit, while another does not offer it, the market decides on the value of this, not the FDA (not trying to say the FDA does not care about security, they do, and there are requirements, but this is an example).

4. Even with the greatest requirements and best test assertions, there will still be risk. New requirements drive risk; this is true for any product development for a complex product.
   But, as these are not mutually exclusive, the fact that risk exists does not eliminate the need for up-front definition of the requirements. It is all about mitigation and an old saying in product development, “test early, test often,” as that mitigates the
   downstream risk, especially in a certified product. Good requirements allow us to just that: test early, test often, and drive time to market.

As I mentioned, my goal has been to help foster the process along. Please take our comments as trying to help, not hinder, and if there is more we can do, please let me know.

Thank you,

Jim

HartLogosm

Jim Canter

Chief Technology Officer

Hart InterCivic

15500 Wells Port Drive | Austin, TX | 78728

512.252.6410 (direct) | 512.497.0093 (mobile) | 512.252.6466 (fax) | 800.223.HART

jcanter@hartic.com |
www.hartintercivic.com

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Attachments:

image001.gif 1.3k

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email: "jlovato@eac.gov Jerome Lovato" **Friday, July 10, 2020 at 6:45:16 PM Eastern Daylight Time**
To: email: "jcanter@hartic.com Jim Canter"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "mary.brady@nist.gov Brady, Mary C. (Fed)" , email: "sderheimer@hartic.com Sam Derheimer"

Thank you, Jim. I appreciate the constructive feedback.

Jerome

On Fri, Jul 10, 2020 at 6:26 PM Jim Canter <jcanter@hartic.com> wrote:

Hello Mona, Mary & Jerome –

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Attachments:

image001.gif 1.3k

Agenda for tomorrow's working group

email: "sderheimer@hartic.com Sam Derheimer" **Thursday, July 9, 2020 at 4:36:42 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Hey Jerome,

Do you guys have an agenda for tomorrow's call?

Jim and I will most likely participate in most calls, but we may substitute in other members of the Hart team if the discussion is going to focus on areas they oversee. So we just want to make sure we have the best people on the call that
will have the most to contribute. Thanks.

Samuel Derheimer

Director of Government Affairs

Hart InterCivic

512.252.6458 (o) | 866.275.4278 (help desk)

512.252.6919 (efax)|
http://www.hartintercivic.com

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notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

---

email: "jlovato@eac.gov Jerome Lovato" **Thursday, July 9, 2020 at 5:47:20 PM Eastern Daylight Time**
To: email: "sderheimer@hartic.com Sam Derheimer"

Hi Sam,

Yes, I will be distributing the agenda later this evening. We will discuss test assertions for Requirements 1.2-A, 1.2-C, and 1.2-D during tomorrow's meeting. Thank you for sending the doc last week.

Jerome

On Thu, Jul 9, 2020 at 4:36 PM Sam Derheimer <sderheimer@hartic.com> wrote:

> Hey Jerome,

Do you guys have an agenda for tomorrow's call?

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Samuel Derheimer

Director of Government Affairs

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notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

---

new CBG clients as they relate to 2.0 Program Manual 2.3.2.8 requirements

email: "russ.dawson@clearballot.com Russ Dawson" **Thursday, July 9, 2020 at 11:39:55 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato" , email: "mharrington@eac.gov"
Cc: email: "gwenyth.winship@clearballot.com Gwenyth Winship"

Hello from Clear Ballot Group!

Gwenyth recently reminded me of 2.3.2.8 EAC requirements mandating update of new CBG clients taking delivery of various ClearVote software and hardware configurations.

Believe it or not, CBG is ADDING clients in this pandemic environment that features a Presidential General Election right around the corner. We recently placed more than a few absentee/mail ballot solutions throughout the State of New York. Our ability to deliver COTS solutions on short notice plus our market leadership in processing and adjudicating these challenging variably marked ballots made the decision an easy one for multiple NY counties.

To the point, all CBG NY clients, plus a few new ones in WA state, are NOT operating EAC-certified configurations. Based on 2.3.2.8 requirements CBG does not think we need to update our EAC client roster with these additions. That said, we did want to inform the EAC of the addition of these new CBG clients.

If the EAC interprets 2.3.2.8 differently than how CBG does, please inform us of the same. Maintaining ongoing compliance is a cornerstone of serving our clientele and of course remaining in step with EAC mandates.

Best, rpd

Russ Dawson
Federal Certification Program Manager
512.350.5720
www.clearballot.com

---

email: "jlovato@eac.gov Jerome Lovato" **Thursday, July 9, 2020 at 7:49:02 PM Eastern Daylight Time**
To: email: "russ.dawson@clearballot.com Russ Dawson"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "gwenyth.winship@clearballot.com Gwenyth Winship"

Hi Russ,

You are correct. The reporting requirement is for EAC-certified voting systems. Thank you for double checking.

Jerome

On Thu, Jul 9, 2020 at 11:41 AM Russ Dawson <russ.dawson@clearballot.com> wrote:

> Hello from Clear Ballot Group!

Gwenyth recently reminded me of 2.3.2.8 EAC requirements mandating update of new CBG clients taking delivery of various ClearVote software and hardware configurations.

Believe it or not, CBG is ADDING clients in this pandemic environment that features a Presidential General Election right around the corner. We recently placed more than a few absentee/mail ballot solutions throughout the State of New York. Our ability to deliver COTS solutions on short notice plus our market leadership in processing and adjudicating these challenging variably marked ballots made the decision an easy one for multiple NY counties.

To the point, all CBG NY clients, plus a few new ones in WA state, are NOT operating EAC-certified configurations. Based on 2.3.2.8 requirements CBG does not think we need to update our EAC client roster with these additions. That said, we did want to inform the EAC of the addition of these new CBG clients.

If the EAC interprets 2.3.2.8 differently than how CBG does, please inform us of the same. Maintaining ongoing compliance is a cornerstone of serving our clientele and of course remaining in step with EAC mandates.

Best, rpd

Russ Dawson
Federal Certification Program Manager
512.350.5720
www.clearballot.com

This mornings D-Suite 5.5-C call

email: "paumayr@eac.gov Paul Aumayr" **Thursday, July 9, 2020 at 9:43:16 AM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper" , email: "hunter.medlock@provandv.com Hunter Medlock"

Ian and Hunter -

I'm not sure we need this morning's call.

I've followed up with the correction in the report and scope document, and I'm waiting on senior management to complete their review with a view to completing final certification.

Paul
--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

email: "ian.piper@dominionvoting.com Ian Piper" **Thursday, July 9, 2020 at 9:52:42 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr" , email: "hunter.medlock@provandv.com Hunter Medlock"

Paul:

I agree we don't need this call, but is there an ETA on when senior management will complete their review?

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) | DOMINIONVOTING.COM

720-257-5209 OFFICE (x9221)

703-244-3180 MOBILE

From: Paul Aumayr <paumayr@eac.gov>

Sent: Thursday, July 9, 2020 9:43 AM

To: Ian Piper <ian.piper@dominionvoting.com>; Hunter Medlock <hunter.medlock@provandv.com>

Subject: [EXTERNAL] This mornings D-Suite 5.5-C call

Ian and Hunter -

I'm not sure we need this morning's call.

I've followed up with the correction in the report and scope document, and I'm waiting on senior management to complete their review with a view to completing final certification.

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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dissemination, distribution, copying or use of this email or its contents is strictly prohibited. If you have received this email in error, please notify the sender
by responding to the email and then immediately delete the email.

ECO 100694

email: "jlovato@eac.gov Jerome Lovato" **Monday, July 6, 2020 at 6:49:15 PM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com Michael Walker"

Hi Ian,

ECO 100694 mentions that testing was performed but we do not have a test report for this ECO. Will you please send that to me as soon as possible? New York is conducting a review and needs this information.

Thank you,
Jerome

email: "michael.walker@provandv.com Michael Walker" **Monday, July 6, 2020 at 7:12:29 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato" , email: "ian.piper@dominionvoting.com Ian Piper"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "wendy.owens@provandv.com Wendy Owens"

Along with the internal testing you are requesting from Ian the 5270 was tested and part of the recent 5.5-C EAC testing campaign in which it was utilized without
issue. Thank you

Michael L. Walker

Pro V&V

6705 Odyssey Drive

Suite C

Huntsville, AL 35806

Office: 256-713-1111
ext. 107

Fax: 256-713-1112

Cell: 256-714-4402

From: Jerome Lovato [mailto:jlovato@eac.gov]

Sent: Monday, July 06, 2020 5:49 PM

To: Ian Piper <ian.piper@dominionvoting.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>

Subject: ECO 100694

Hi Ian,

ECO 100694 mentions that testing was performed but we do not have a test report for this ECO. Will you please send that to me as soon as possible? New York is conducting a review and needs this information.

Thank you,

Jerome

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the transmission to the intended recipient, you are hereby notified that any dissemination, distribution, copying or use of this email or its contents is strictly prohibited. If you have received this email in error, please notify the sender by responding
to the email and then immediately delete the email.

---

email: "jlovato@eac.gov Jerome Lovato" **Monday, July 6, 2020 at 7:23:03 PM Eastern Daylight Time**
To: email: "michael.walker@provandv.com Michael Walker"
Cc: email: "ian.piper@dominionvoting.com Ian Piper" , email: "paumayr@eac.gov Paul Aumayr" , email: "wendy.owens@provandv.com Wendy Owens"

Thank you, Walker.

Jerome

On Mon, Jul 6, 2020 at 7:12 PM Michael Walker <michael.walker@provandv.com> wrote:

> Along with the internal testing you are requesting from Ian the 5270 was tested and part of the recent 5.5-C EAC testing campaign in which it was utilized without
> issue. Thank you
>
> *Michael L. Walker*
>
> ***Pro V&V***
>
> ***6705 Odyssey Drive***
>
> ***Suite C***
>
> ***Huntsville, AL 35806***

Office: 256-713-1111
ext. 107

Fax: 256-713-1112

Cell: 256-714-4402

From: Jerome Lovato [mailto:jlovato@eac.gov]

Sent: Monday, July 06, 2020 5:49 PM

To: Ian Piper <ian.piper@dominionvoting.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>

Subject: ECO 100694

Hi Ian,

ECO 100694 mentions that testing was performed but we do not have a test report for this ECO. Will you please send that to me as soon as possible? New York is conducting a review and needs this information.

Thank you,

Jerome

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to the email and then immediately delete the email.

---

email: "ian.piper@dominionvoting.com Ian Piper" **Tuesday, July 7, 2020 at 9:24:52 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com Michael Walker"

Jerome:

For ECO 100694, the Dominion team that conducted the testing back in early April did not produce an internal test report. We had our System Integration Team (SIT)
retest the configuration last month with the EAC approved 4.14 ICC version (4.14.17) and produce their Test Report (please see attached). In the attached Test Report there is a reference to “NY” in the document title, but that is a typo.

Please note that the ECO before the State of New York (NYS) is ECO 100697, which covers the use of the ICC 4.14.18 version that their jurisdictions use. Dominion’s
SIT has also retested the configuration with the ICC 4.14.18 version and produced a Test Report that has already been provided to NYS. Dominion had provided ECO 100694 to NYS as an example of an earlier ECO that was approved with a similar configuration to
the ECO that was before them for their review. I don’t know if the state currently needs the Test Report from ECO 100694, but you could ask them. I believe that they (and SLI) have everything that they need for the ECO 100697 review.

BTW: In future ECO submissions, Dominion will include the internal test report as part of the documentation submitted to support the ECO.

If you have any questions, please let me know.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) | DOMINIONVOTING.COM

720-257-5209 OFFICE (x9221)

703-244-3180 MOBILE

From: Jerome Lovato <jlovato@eac.gov>

Sent: Monday, July 6, 2020 6:49 PM

To: Ian Piper <ian.piper@dominionvoting.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>

Subject: [EXTERNAL] ECO 100694

Hi Ian,

ECO 100694 mentions that testing was performed but we do not have a test report for this ECO. Will you please send that to me as soon as possible? New York is conducting a review and needs this information.

Thank you,

Jerome

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Attachments:

4.14.17 ICC - Dell 5270 Compatibility Tests - TestRail.pdf 88k

---

email: "jlovato@eac.gov Jerome Lovato" **Wednesday, July 8, 2020 at 3:40:26 AM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com Michael Walker"

Thank you, Ian. I appreciate the explanation.

Jerome

On Tue, Jul 7, 2020 at 9:25 AM Ian Piper <ian.piper@dominionvoting.com> wrote:

> Jerome:
>
> For ECO 100694, the Dominion team that conducted the testing back in early April did not produce an internal test report. We had our System Integration Team (SIT)

retest the configuration last month with the EAC approved 4.14 ICC version (4.14.17) and produce their Test Report (please see attached). In the attached Test Report there is a reference to “NY” in the document title, but that is a typo.

Please note that the ECO before the State of New York (NYS) is ECO 100697, which covers the use of the ICC 4.14.18 version that their jurisdictions use. Dominion’s
SIT has also retested the configuration with the ICC 4.14.18 version and produced a Test Report that has already been provided to NYS. Dominion had provided ECO 100694 to NYS as an example of an earlier ECO that was approved with a similar configuration to the ECO that was before them for their review. I don’t know if the state currently needs the Test Report from ECO 100694, but you could ask them. I believe that they (and SLI) have everything that they need for the ECO 100697 review.

BTW: In future ECO submissions, Dominion will include the internal test report as part of the documentation submitted to support the ECO.

If you have any questions, please let me know.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

From: Jerome Lovato <jlovato@eac.gov>

Sent: Monday, July 6, 2020 6:49 PM

To: Ian Piper <ian.piper@dominionvoting.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>

Subject: [EXTERNAL] ECO 100694

Hi Ian,

ECO 100694 mentions that testing was performed but we do not have a test report for this ECO. Will you please send that to me as soon as possible? New York is conducting a review and needs this information.

Thank you,

Jerome

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by responding to the email and then immediately delete the email.

---

email: "jlovato@eac.gov Jerome Lovato" **Wednesday, July 8, 2020 at 3:46:31 AM Eastern Daylight Time**
To: email: "tmapps@slicompliance.com Traci Mapps" , email: "msantos@slicompliance.com Mike Santos" , email: "dforester@slicompliance.com Darrick Forester (dforester@slicompliance.com)" , email: "jpanek@slicompliance.com Jonathon Panek"
Cc: email: "paumayr@eac.gov Paul Aumayr" , email: "eburton@eac.gov Eugene Burton" , email: "jfleming@eac.gov Jessica Fleming"

Hi Traci,

Here is the email Ian sent me on Tuesday.

---------- Forwarded message ---------
From: **Ian Piper** <ian.piper@dominionvoting.com>
Date: Tue, Jul 7, 2020 at 9:25 AM
Subject: RE: [EXTERNAL] ECO 100694
To: Jerome Lovato <jlovato@eac.gov>
Cc: Paul Aumayr <paumayr@eac.gov>, Wendy Owens <wendy.owens@provandv.com>, Michael Walker <michael.walker@provandv.com>

Jerome:

For ECO 100694, the Dominion team that conducted the testing back in early April did not produce an internal test report. We had our System Integration Team (SIT)
retest the configuration last month with the EAC approved 4.14 ICC version (4.14.17) and produce their Test Report (please see attached). In the attached Test Report there is a reference to “NY” in the document title, but that is a typo.

Please note that the ECO before the State of New York (NYS) is ECO 100697, which covers the use of the ICC 4.14.18 version that their jurisdictions use. Dominion’s
SIT has also retested the configuration with the ICC 4.14.18 version and produced a Test Report that has already been provided to NYS. Dominion had provided ECO 100694 to NYS as an example of an earlier ECO that was approved with a similar configuration to
the ECO that was before them for their review. I don’t know if the state currently needs the Test Report from ECO 100694, but you could ask them. I believe that they (and SLI) have everything that they need for the ECO 100697 review.

BTW: In future ECO submissions, Dominion will include the internal test report as part of the documentation submitted to support the ECO.

If you have any questions, please let me know.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

From: Jerome Lovato <jlovato@eac.gov>

Sent: Monday, July 6, 2020 6:49 PM

To: Ian Piper <ian.piper@dominionvoting.com>

Cc: Paul Aumayr <paumayr@eac.gov>; Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>

Subject: [EXTERNAL] ECO 100694

Hi Ian,

ECO 100694 mentions that testing was performed but we do not have a test report for this ECO. Will you please send that to me as soon as possible? New York is conducting a review and needs this information.

Thank you,

Jerome

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Attachments:

4.14.17 ICC - Dell 5270 Compatibility Tests - TestRail.pdf 88k

5.5-C Test Report

email: "ian.piper@dominionvoting.com Ian Piper" **Monday, July 6, 2020 at 5:38:14 PM Eastern Daylight Time**
To: email: "hunter.medlock@provandv.com Hunter Medlock" , email: "paumayr@eac.gov Paul Aumayr" , email: "michael.walker@provandv.com michael.walker@provandv.com" , email: "wendy.owens@provandv.com Wendy Owens"

On reviewing the 5.5-C materials and Test Report, I noticed that the version numbers for the Adjudication application (client side) and Adjudication Services (server
side) are listed as 5.5.40.2, when they should be listed as 5.5.40.1. This will mean a revision to the 5.5-C Test Report and also a correction for the Scope of Certification document.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

---

email: "paumayr@eac.gov Paul Aumayr" **Tuesday, July 7, 2020 at 9:34:15 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

FYI - we'll have to make a change to the scope, and I'm waiting the amended report from Wendy (Hunter is on vacation this week apparently)

Paul

---------- Forwarded message ---------
From: **Ian Piper** <ian.piper@dominionvoting.com>
Date: Mon, Jul 6, 2020 at 5:38 PM
Subject: 5.5-C Test Report
To: Hunter Medlock <hunter.medlock@provandv.com>, Paul Aumayr <paumayr@eac.gov>, michael.walker@provandv.com <michael.walker@provandv.com>, Wendy Owens <wendy.owens@provandv.com>

On reviewing the 5.5-C materials and Test Report, I noticed that the version numbers for the Adjudication application (client side) and Adjudication Services (server
side) are listed as 5.5.40.2, when they should be listed as 5.5.40.1. This will mean a revision to the 5.5-C Test Report and also a correction for the Scope of Certification document.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

email: "jlovato@eac.gov Jerome Lovato" **Tuesday, July 7, 2020 at 9:35:40 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"

Thanks for the update.

On Tue, Jul 7, 2020 at 7:34 AM Paul Aumayr <paumayr@eac.gov> wrote:

> FYI - we'll have to make a change to the scope, and I'm waiting the amended report from Wendy (Hunter is on vacation this week apparently)
>
> Paul
>
> ---------- Forwarded message ---------
> From: **Ian Piper** <ian.piper@dominionvoting.com>
> Date: Mon, Jul 6, 2020 at 5:38 PM
> Subject: 5.5-C Test Report
> To: Hunter Medlock <hunter.medlock@provandv.com>, Paul Aumayr <paumayr@eac.gov>, michael.walker@provandv.com <michael.walker@provandv.com>, Wendy Owens <wendy.owens@provandv.com>

On reviewing the 5.5-C materials and Test Report, I noticed that the version numbers for the Adjudication application (client side) and Adjudication Services (server
side) are listed as 5.5.40.2, when they should be listed as 5.5.40.1. This will mean a revision to the 5.5-C Test Report and also a correction for the Scope of Certification document.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

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--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

--

Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

---

email: "wendy.owens@provandv.com Wendy Owens" Tuesday, July 7, 2020 at 12:16:09 PM Eastern Daylight Time
To: email: "ian.piper@dominionvoting.com Ian Piper" , email: "hunter.medlock@provandv.com Hunter Medlock" , email: "paumayr@eac.gov Paul Aumayr" , email: "michael.walker@provandv.com Michael Walker"

Everyone-

I am revising the test report now and will upload the corrected version soon.

Thanks,

wendy

From: Ian Piper [mailto:ian.piper@dominionvoting.com]

Sent: Monday, July 06, 2020 4:38 PM

To: Hunter Medlock; Paul Aumayr; Michael Walker; Wendy Owens

Subject: 5.5-C Test Report

On reviewing the 5.5-C materials and Test Report, I noticed that the version numbers for the Adjudication application (client side) and Adjudication Services (server
side) are listed as 5.5.40.2, when they should be listed as 5.5.40.1. This will mean a revision to the 5.5-C Test Report and also a correction for the Scope of Certification document.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

---

email: "wendy.owens@provandv.com Wendy Owens" **Tuesday, July 7, 2020 at 2:08:25 PM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper" , email: "hunter.medlock@provandv.com Hunter Medlock" , email: "paumayr@eac.gov Paul Aumayr" , email: "michael.walker@provandv.com Michael Walker"

Everyone-

The updated report has been uploaded to smartsheet on line 47.

Thanks!

Wendy

From: Wendy Owens

Sent: Tuesday, July 07, 2020 11:16 AM

To: 'Ian Piper'; Hunter Medlock; Paul Aumayr; Michael Walker

Subject: RE: 5.5-C Test Report

Everyone-

I am revising the test report now and will upload the corrected version soon.

Thanks,

wendy

From: Ian Piper [mailto:ian.piper@dominionvoting.com]

Sent: Monday, July 06, 2020 4:38 PM

To: Hunter Medlock; Paul Aumayr; Michael Walker; Wendy Owens

Subject: 5.5-C Test Report

On reviewing the 5.5-C materials and Test Report, I noticed that the version numbers for the Adjudication application (client side) and Adjudication Services (server
side) are listed as 5.5.40.2, when they should be listed as 5.5.40.1. This will mean a revision to the 5.5-C Test Report and also a correction for the Scope of Certification document.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

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703-244-3180 MOBILE

---

email: "paumayr@eac.gov Paul Aumayr" **Tuesday, July 7, 2020 at 2:24:17 PM Eastern Daylight Time**
To: email: "wendy.owens@provandv.com Wendy Owens"
Cc: email: "ian.piper@dominionvoting.com Ian Piper" , email: "hunter.medlock@provandv.com Hunter Medlock" , email: "michael.walker@provandv.com Michael Walker"

Wendy - received, thank you.

Paul

On Tue, Jul 7, 2020 at 2:08 PM Wendy Owens <wendy.owens@provandv.com> wrote:

Everyone-

The updated report has been uploaded to smartsheet on line 47.

Thanks!

Wendy

From: Wendy Owens

Sent: Tuesday, July 07, 2020 11:16 AM

To: 'Ian Piper'; Hunter Medlock; Paul Aumayr; Michael Walker

Subject: RE: 5.5-C Test Report

Everyone-

I am revising the test report now and will upload the corrected version soon.

Thanks,

wendy

From: Ian Piper [mailto:ian.piper@dominionvoting.com]

Sent: Monday, July 06, 2020 4:38 PM

To: Hunter Medlock; Paul Aumayr; Michael Walker; Wendy Owens

Subject: 5.5-C Test Report

On reviewing the 5.5-C materials and Test Report, I noticed that the version numbers for the Adjudication application (client side) and Adjudication Services (server
side) are listed as 5.5.40.2, when they should be listed as 5.5.40.1. This will mean a revision to the 5.5-C Test Report and also a correction for the Scope of Certification document.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

email: "wendy.owens@provandv.com Wendy Owens" **Tuesday, July 7, 2020 at 2:27:16 PM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"

I apologize for that!

We also gave it a thorough review and corrected a few typos in the report (the cover page still contained our old address so I updated that).

From: Paul Aumayr [mailto:paumayr@eac.gov]

Sent: Tuesday, July 07, 2020 1:24 PM

To: Wendy Owens

Cc: Ian Piper; Hunter Medlock; Michael Walker

Subject: Re: 5.5-C Test Report

Wendy - received, thank you.

Paul

On Tue, Jul 7, 2020 at 2:08 PM Wendy Owens <wendy.owens@provandv.com> wrote:

> Everyone-
>
> The updated report has been uploaded to smartsheet on line 47.
>
> Thanks!
>
> Wendy
>
> ---
>
> **From:** Wendy Owens

Sent: Tuesday, July 07, 2020 11:16 AM

To: 'Ian Piper'; Hunter Medlock; Paul Aumayr; Michael Walker

Subject: RE: 5.5-C Test Report

Everyone-

I am revising the test report now and will upload the corrected version soon.

Thanks,

wendy

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Sent: Monday, July 06, 2020 4:38 PM

To: Hunter Medlock; Paul Aumayr; Michael Walker; Wendy Owens

Subject: 5.5-C Test Report

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to the email and then immediately delete the email.

---

email: "paumayr@eac.gov Paul Aumayr" **Tuesday, July 7, 2020 at 3:09:49 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

We've got Wendy's update, and I've made the change in the unsigned certificate and scope pdf.

Paul

On Tue, Jul 7, 2020 at 9:35 AM Jerome Lovato <jlovato@eac.gov> wrote:

> Thanks for the update.
>
> On Tue, Jul 7, 2020 at 7:34 AM Paul Aumayr <paumayr@eac.gov> wrote:
>
> > FYI - we'll have to make a change to the scope, and I'm waiting the amended report from Wendy (Hunter is on vacation this week apparently)
> >
> > Paul
> >
> > ---------- Forwarded message ---------
> > From: **Ian Piper** <ian.piper@dominionvoting.com>
> > Date: Mon, Jul 6, 2020 at 5:38 PM
> > Subject: 5.5-C Test Report

To: Hunter Medlock <hunter.medlock@provandv.com>, Paul Aumayr <paumayr@eac.gov>, michael.walker@provandv.com <michael.walker@provandv.com>, Wendy Owens <wendy.owens@provandv.com>

On reviewing the 5.5-C materials and Test Report, I noticed that the version numbers for the Adjudication application (client side) and Adjudication Services (server side) are listed as 5.5.40.2, when they should be listed as 5.5.40.1. This will mean a revision to the 5.5-C Test Report and also a correction for the Scope of Certification document.

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Ph. 202-805-4613

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PAumayr@eac.gov

(202) 476-9051

---

email: "paumayr@eac.gov Paul Aumayr" **Thursday, July 9, 2020 at 3:53:07 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Jerome - any update on the sign off for the final certification? Ian has been asking about it.

Paul

On Tue, Jul 7, 2020 at 3:09 PM Paul Aumayr <paumayr@eac.gov> wrote:

> We've got Wendy's update, and I've made the change in the unsigned certificate and scope pdf.
>
> Paul
>
> On Tue, Jul 7, 2020 at 9:35 AM Jerome Lovato <jlovato@eac.gov> wrote:
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> > Thanks for the update.
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> > >
> > > Paul
> > >
> > > ---------- Forwarded message ---------
> > > From: **Ian Piper** <ian.piper@dominionvoting.com>
> > > Date: Mon, Jul 6, 2020 at 5:38 PM
> > > Subject: 5.5-C Test Report
> > > To: Hunter Medlock <hunter.medlock@provandv.com>, Paul Aumayr <paumayr@eac.gov>, michael.walker@provandv.com <michael.walker@provandv.com>, Wendy Owens <wendy.owens@provandv.com>

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email: "jlovato@eac.gov Jerome Lovato" **Thursday, July 9, 2020 at 4:04:34 PM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"

Yes, I'll send it to Mona today. I wanted to make sure we had ECO 100694 resolved and had to double check that the change was included in this certification.

On Thu, Jul 9, 2020 at 3:53 PM Paul Aumayr <paumayr@eac.gov> wrote:
> Jerome - any update on the sign off for the final certification? Ian has been asking about it.
>
> Paul
>
> On Tue, Jul 7, 2020 at 3:09 PM Paul Aumayr <paumayr@eac.gov> wrote:
>> We've got Wendy's update, and I've made the change in the unsigned certificate and scope pdf.
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>>>>
>>>> Paul
>>>>
>>>> ---------- Forwarded message ---------
>>>> From: **Ian Piper** <ian.piper@dominionvoting.com>
>>>> Date: Mon, Jul 6, 2020 at 5:38 PM
>>>> Subject: 5.5-C Test Report
>>>> To: Hunter Medlock <hunter.medlock@provandv.com>, Paul Aumayr <paumayr@eac.gov>, michael.walker@provandv.com <michael.walker@provandv.com>, Wendy Owens <wendy.owens@provandv.com>

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---

email: "paumayr@eac.gov Paul Aumayr" **Thursday, July 9, 2020 at 4:16:29 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Cool. Thanks!

On Thu, Jul 9, 2020 at 4:04 PM Jerome Lovato <jlovato@eac.gov> wrote:
> Yes, I'll send it to Mona today. I wanted to make sure we had ECO 100694 resolved and had to double check that the change was included in this certification.
>
> On Thu, Jul 9, 2020 at 3:53 PM Paul Aumayr <paumayr@eac.gov> wrote:
>> Jerome - any update on the sign off for the final certification? Ian has been asking about it.
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>> Paul
>>
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>>>>>
>>>>> Paul

---------- Forwarded message ---------
From: **Ian Piper** <ian.piper@dominionvoting.com>
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Subject: 5.5-C Test Report
To: Hunter Medlock <hunter.medlock@provandv.com>, Paul Aumayr <paumayr@eac.gov>, michael.walker@provandv.com <michael.walker@provandv.com>, Wendy Owens <wendy.owens@provandv.com>

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PAumayr@eac.gov

(202) 476-9051

Re: EVS 6030 EVS 6110 Call

email: "paumayr@eac.gov Paul Aumayr" **Friday, June 26, 2020 at 10:41:22 AM Eastern Daylight Time**
To: email: "slmckay@essvote.com McKay, Sue"
Cc: email: "stephen.han@provandv.com Stephen Han" , email: "michael.walker@provandv.com Michael Walker" , email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton" , email: "oletts@eac.gov Olivia Letts" , email: "dmunoz@eac.gov Danielle Munoz" , email: "zshaw@eac.gov Zachary Shaw"

Hi Sue -

I'm fine with that. Right now the initial decision is going 'up the chain', so we should hear something early next week, if not beforehand. I'm drafting the scopes for both systems at the moment, and looking to forwarding them to you early next week too.

Paul

On Fri, Jun 26, 2020 at 10:35 AM McKay, Sue <slmckay@essvote.com> wrote:

> Morning Paul,
>
> I do not feel we need to have a call today unless you or Pro V&V does. My only question is when will we have the Initial Decision letter so we can move forward with the next steps so I can plan for that.
>
> Thank you
>
> Sue

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--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

email: "slmckay@essvote.com McKay, Sue" **Friday, June 26, 2020 at 10:43:32 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "stephen.han@provandv.com Stephen Han" , email: "michael.walker@provandv.com Michael Walker" , email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton" , email: "oletts@eac.gov Olivia Letts" , email: "dmunoz@eac.gov Danielle Munoz" , email: "zshaw@eac.gov Zachary Shaw"

Thanks Paul for the quick response.

Have a nice weekend.

From: Paul Aumayr <paumayr@eac.gov>

Sent: Friday, June 26, 2020 9:41 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>; Michael Walker <michael.walker@provandv.com>; Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>; Olivia Letts <oletts@eac.gov>; Danielle Munoz <dmunoz@eac.gov>; Zachary Shaw <zshaw@eac.gov>

Subject: Re: EVS 6030 EVS 6110 Call

Hi Sue -

I'm fine with that. Right now the initial decision is going 'up the chain', so we should hear something early next week, if not beforehand. I'm drafting the scopes for both systems at the moment, and looking to forwarding them to you
early next week too.

Paul

On Fri, Jun 26, 2020 at 10:35 AM McKay, Sue <slmckay@essvote.com> wrote:

> Morning Paul,
>
> I do not feel we need to have a call today unless you or Pro V&V does. My only question is when will we have the Initial Decision letter so we can move forward with the next steps so I can plan for that.
>
> Thank you
>
> Sue

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---

email: "slmckay@essvote.com McKay, Sue" **Monday, July 6, 2020 at 11:18:22 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "stephen.han@provandv.com Stephen Han" , email: "michael.walker@provandv.com Michael Walker" , email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton" , email: "oletts@eac.gov Olivia Letts" , email: "dmunoz@eac.gov Danielle Munoz" , email: "zshaw@eac.gov Zachary Shaw" , email: "smpearson@essvote.com Pearson, Steve" , email: "tjhallett@essvote.com Hallett, Tim"

Paul,

Could you please give me an update on the initial decisions? It has been over a week since our last update. We have states that would like to certify and implement before the November election so we are quickly running out of time.

Let me know if there is anything you need from me.

Thank you.

Sue

From: Paul Aumayr <paumayr@eac.gov>

Sent: Friday, June 26, 2020 9:41 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>; Michael Walker <michael.walker@provandv.com>; Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>; Olivia Letts <oletts@eac.gov>; Danielle Munoz <dmunoz@eac.gov>; Zachary Shaw <zshaw@eac.gov>

Subject: Re: EVS 6030 EVS 6110 Call

Hi Sue -

I'm fine with that. Right now the initial decision is going 'up the chain', so we should hear something early next week, if not beforehand. I'm drafting the scopes for both systems at the moment, and looking to forwarding them to you
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Paul

On Fri, Jun 26, 2020 at 10:35 AM McKay, Sue <slmckay@essvote.com> wrote:

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Thank you

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Hi Sue - I've pushed it up to senior management for a sign off for the Initial Decision.

In the meantime, I'm looking to forward you draft scopes of certification for review later on today or tomorrow morning.

Paul

On Mon, Jul 6, 2020 at 11:18 AM McKay, Sue <slmckay@essvote.com> wrote:

> Paul,
>
> Could you please give me an update on the initial decisions? It has been over a week since our last update. We have states that would like to certify and implement before the November election so we are quickly running out of time.
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Sent: Friday, June 26, 2020 9:41 AM

To: McKay, Sue <slmckay@essvote.com>

Cc: Stephen Han <stephen.han@provandv.com>; Michael Walker <michael.walker@provandv.com>; Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>; Olivia Letts <oletts@eac.gov>; Danielle Munoz <dmunoz@eac.gov>; Zachary Shaw <zshaw@eac.gov>

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To find out more Click Here.

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

checking in

email: "ben@voting.works Ben Adida **Tuesday, June 30, 2020 at 4:09:11 PM Eastern Daylight Time**
To: email: "bhovland@eac.gov Benjamin Hovland"

Ben,

I wanted to give you an update on our vote-by-mail work, whenever you have a chance. No rush, let me know when might work for you.

-Ben

email: "bhovland@eac.gov Benjamin Hovland" **Tuesday, June 30, 2020 at 11:06:05 PM Eastern Daylight Time**
To: email: "ben@voting.works Ben Adida"

Short notice, but tomorrow has turned out to be fairly flexible for me if there is a good time on your end. Let me know.

Thanks,
Ben

Sent from my iPhone

> On Jun 30, 2020, at 3:09 PM, Ben Adida wrote:
>
>
>
> Ben,
>
> I wanted to give you an update on our vote-by-mail work, whenever you have a chance. No rush, let me know when might work for you.
>
> -Ben

email: "ben@voting.works Ben Adida" **Wednesday, July 1, 2020 at 1:52:49 PM Eastern Daylight Time**
To: email: "bhovland@eac.gov Benjamin Hovland"

Hi Ben,

Ah today is a mess. Tomorrow or Friday?

-Ben

On Tue, Jun 30, 2020 at 8:06 PM Benjamin Hovland <bhovland@eac.gov> wrote:

Short notice, but tomorrow has turned out to be fairly flexible for me if there is a good time on your end. Let me know.

Thanks,

Ben

Sent from my iPhone

> On Jun 30, 2020, at 3:09 PM, Ben Adida <ben@voting.works> wrote:

>

>

>

> Ben,

>

> I wanted to give you an update on our vote-by-mail work, whenever you have a chance. No rush, let me know when might work for you.

>

> -Ben

--

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> sender by responding to the email and then immediately delete the email.

---

email: "bhovland@eac.gov Benjamin Hovland" **Wednesday, July 1, 2020 at 3:28:58 PM Eastern Daylight Time**
To: email: "ben@voting.works Ben Adida"

Would 2pm ET work for you tomorrow?

From: Ben Adida <ben@voting.works>
Sent: Wednesday, July 1, 2020 1:53 PM
To: Benjamin Hovland <bhovland@eac.gov>
Subject: Re: checking in

Hi Ben,

Ah today is a mess. Tomorrow or Friday?

-Ben

On Tue, Jun 30, 2020 at 8:06 PM Benjamin Hovland <bhovland@eac.gov> wrote:

> Short notice, but tomorrow has turned out to be fairly flexible for me if there is a good time on your end. Let me know.
>
> Thanks,
> Ben
>
> Sent from my iPhone
>
> > On Jun 30, 2020, at 3:09 PM, Ben Adida <ben@voting.works> wrote:
> >
> >
> >
> > Ben,
> >

> I wanted to give you an update on our vote-by-mail work, whenever you have a chance. No rush, let me know when might work for you.
>
> -Ben

--

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---

email: "ben@voting.works Ben Adida **Wednesday, July 1, 2020 at 6:03:51 PM Eastern Daylight Time**
To: email: "bhovland@eac.gov Benjamin Hovland"

Yes, that works! Do you want to call me at 415.683.1383 or should I call you?

-Ben

On Wed, Jul 1, 2020 at 12:28 PM Benjamin Hovland <bhovland@eac.gov> wrote:

> Would 2pm ET work for you tomorrow?
>
> **From:** Ben Adida <ben@voting.works>
> **Sent:** Wednesday, July 1, 2020 1:53 PM
> **To:** Benjamin Hovland <bhovland@eac.gov>
> **Subject:** Re: checking in
>
> Hi Ben,
>
> Ah today is a mess. Tomorrow or Friday?
>
> -Ben

On Tue, Jun 30, 2020 at 8:06 PM Benjamin Hovland <bhovland@eac.gov> wrote:

> Short notice, but tomorrow has turned out to be fairly flexible for me if there is a good time on your end. Let me know.
>
> Thanks,
> Ben
>
> Sent from my iPhone
>
> > On Jun 30, 2020, at 3:09 PM, Ben Adida <ben@voting.works> wrote:
> >
> >
> >
> > Ben,
> >
> > I wanted to give you an update on our vote-by-mail work, whenever you have a chance. No rush, let me know when might work for you.
> >
> > -Ben
>
> --
> Confidential Notice: This message may contain Controlled Unclassified Information (CUI) that requires safeguarding or dissemination control under applicable law, regulation, or Government-wide policy. This email, including all attachments, may constitute a Federal record or other Government property that is intended only for the use of the individual or entity to which it is addressed. If you are not the intended recipient or the employee or agent responsible for delivering the transmission to the intended recipient, you are hereby notified that any dissemination, distribution, copying or use of this email or its contents is strictly prohibited. If you have received this email in error, please notify the sender by responding to the email and then immediately delete the email.

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---

email: "bhovland@eac.gov Benjamin Hovland" **Wednesday, July 1, 2020 at 10:07:17 PM Eastern Daylight Time**
To: email: "ben@voting.works Ben Adida"

Sounds good. Talk to you then.

Sent from my iPhone

On Jul 1, 2020, at 5:04 PM, Ben Adida <ben@voting.works> wrote:

Yes, that works! Do you want to call me at 415.683.1383 or should I call you?

-Ben

On Wed, Jul 1, 2020 at 12:28 PM Benjamin Hovland <bhovland@eac.gov> wrote:

> Would 2pm ET work for you tomorrow?
>
> **From:** Ben Adida <ben@voting.works>
> **Sent:** Wednesday, July 1, 2020 1:53 PM
> **To:** Benjamin Hovland <bhovland@eac.gov>
> **Subject:** Re: checking in
>
> Hi Ben,
>
> Ah today is a mess. Tomorrow or Friday?
>
> -Ben
>
> On Tue, Jun 30, 2020 at 8:06 PM Benjamin Hovland <bhovland@eac.gov> wrote:
>
>> Short notice, but tomorrow has turned out to be fairly flexible for me if there is a good time on your end. Let me know.
>>
>> Thanks,
>> Ben
>>
>> Sent from my iPhone
>>
>> > On Jun 30, 2020, at 3:09 PM, Ben Adida <ben@voting.works> wrote:
>> >
>> >
>> >
>> > Ben,
>> >
>> > I wanted to give you an update on our vote-by-mail work, whenever you have a

> chance. No rush, let me know when might work for you.
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> > -Ben
>
> --
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---

email: "bhovland@eac.gov Benjamin Hovland" **Thursday, July 2, 2020 at 11:02:59 AM Eastern Daylight Time**
To: email: "ben@voting.works Ben Adida"

Sorry, I left off that I can call you.

Sent from my iPhone

> On Jul 1, 2020, at 5:04 PM, Ben Adida <ben@voting.works> wrote:
>
> Yes, that works! Do you want to call me at 415.683.1383 or should I call you?
>
> -Ben
>
> On Wed, Jul 1, 2020 at 12:28 PM Benjamin Hovland <bhovland@eac.gov> wrote:
>
> > Would 2pm ET work for you tomorrow?

From: Ben Adida <ben@voting.works>
Sent: Wednesday, July 1, 2020 1:53 PM
To: Benjamin Hovland <bhovland@eac.gov>
Subject: Re: checking in

Hi Ben,

Ah today is a mess. Tomorrow or Friday?

-Ben

On Tue, Jun 30, 2020 at 8:06 PM Benjamin Hovland <bhovland@eac.gov> wrote:

> Short notice, but tomorrow has turned out to be fairly flexible for me if there is a good time on your end. Let me know.
>
> Thanks,
> Ben
>
> Sent from my iPhone
>
> > On Jun 30, 2020, at 3:09 PM, Ben Adida <ben@voting.works> wrote:
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> >
> >
> > Ben,
> >
> > I wanted to give you an update on our vote-by-mail work, whenever you have a chance. No rush, let me know when might work for you.
> >
> > -Ben
>
> --
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---

email: "ben@voting.works Ben Adida **Thursday, July 2, 2020 at 12:14:38 PM Eastern Daylight Time**
To: email: "bhovland@eac.gov Benjamin Hovland"

Great talk soon!

On Thu, Jul 2, 2020 at 8:03 AM Benjamin Hovland <bhovland@eac.gov> wrote:

Sorry, I left off that I can call you.

Sent from my iPhone

On Jul 1, 2020, at 5:04 PM, Ben Adida <ben@voting.works> wrote:

Yes, that works! Do you want to call me at 415.683.1383 or should I call you?

-Ben

On Wed, Jul 1, 2020 at 12:28 PM Benjamin Hovland <bhovland@eac.gov> wrote:

Would 2pm ET work for you tomorrow?

From: Ben Adida <ben@voting.works>
Sent: Wednesday, July 1, 2020 1:53 PM
To: Benjamin Hovland <bhovland@eac.gov>
Subject: Re: checking in

Hi Ben,

Ah today is a mess. Tomorrow or Friday?

-Ben

On Tue, Jun 30, 2020 at 8:06 PM Benjamin Hovland <bhovland@eac.gov> wrote:

> Short notice, but tomorrow has turned out to be fairly flexible for me if there is a good time on your end. Let me know.
>
> Thanks,
> Ben
>
> Sent from my iPhone
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> > On Jun 30, 2020, at 3:09 PM, Ben Adida <ben@voting.works> wrote:
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> >
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> > Ben,
> >
> > I wanted to give you an update on our vote-by-mail work, whenever you have a chance. No rush, let me know when might work for you.
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> > -Ben
>
> --
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Comments on the feasibility of the VVSG 2.0 Requirements

email: "sderheimer@hartic.com Sam Derheimer" **Tuesday, June 30, 2020 at 11:25:25 AM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington" , email: "jlovato@eac.gov Jerome Lovato"

Mona and Jerome,

As requested, Hart is providing our original submitted comments on the VVSG 2.0 Requirements with expanded detail and explanation on the feasibility of the challenges cited. If you would find this valuable, we would be happy to set up a
call on which our team can walk the EAC through our comments to better flesh out our analysis and provide additional context on the feasibility of the Requirements to which we've called attention. Let me know, and I'll get a virtual meeting set up.

I hope you guys have a great 4th of July. I'm in DC for the next few weeks, and there is no better time to be in the District. Well, normally. We'll see how this plays out in a pandemic. Stay safe and hope you have an awesome
holiday weekend.

Samuel Derheimer

Director of Government Affairs

Hart InterCivic

512.252.6458 (o) | 866.275.4278 (help desk)

512.252.6919 (efax)|
http://www.hartintercivic.com

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notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

Attachments:

Hart InterCivic_Feasibility of VVSG 2.0 Requirements.pdf 806k

---

D_Suite 5.5-C Attestation

email: "paumayr@eac.gov Paul Aumayr" **Monday, June 29, 2020 at 9:35:59 AM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper" , email: "hunter.medlock@provandv.com Hunter Medlock"

Ian and Hunter -

I don't believe we've received the attestation from you both. If you could forward it, that would be much appreciated.

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

email: "ian.piper@dominionvoting.com Ian Piper" **Monday, June 29, 2020 at 9:37:57 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr" , email: "hunter.medlock@provandv.com Hunter Medlock"

Paul:

I was just waiting for the images to get to you so I could attest to that delivery. I'll get that letter to you (Mona) this morning.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

From: Paul Aumayr <paumayr@eac.gov>

Sent: Monday, June 29, 2020 9:36 AM

To: Ian Piper <ian.piper@dominionvoting.com>; Hunter Medlock <hunter.medlock@provandv.com>

Subject: [EXTERNAL] D_Suite 5.5-C Attestation

Ian and Hunter -

I don't believe we've received the attestation from you both. If you could forward it, that would be much appreciated.

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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---

email: "paumayr@eac.gov Paul Aumayr" **Monday, June 29, 2020 at 9:39:09 AM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper"
Cc: email: "hunter.medlock@provandv.com Hunter Medlock"

Thanks Ian - I have the images.

Paul

On Mon, Jun 29, 2020 at 9:38 AM Ian Piper <ian.piper@dominionvoting.com> wrote:

> Paul:
>
> I was just waiting for the images to get to you so I could attest to that delivery. I'll get that letter to you (Mona) this morning.
>
> Sincerely:
>
> **IAN S. PIPER | CERTIFICATION DIRECTOR**

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

From: Paul Aumayr <paumayr@eac.gov>

Sent: Monday, June 29, 2020 9:36 AM

To: Ian Piper <ian.piper@dominionvoting.com>; Hunter Medlock <hunter.medlock@provandv.com>

Subject: [EXTERNAL] D_Suite 5.5-C Attestation

Ian and Hunter -

I don't believe we've received the attestation from you both. If you could forward it, that would be much appreciated.

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

email: "ian.piper@dominionvoting.com Ian Piper" **Monday, June 29, 2020 at 4:24:11 PM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"

Cc: email: "hunter.medlock@provandv.com Hunter Medlock" , email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com michael.walker@provandv.com"

Paul:

Attached is the Final Letter of Attestation.

If you have any questions, please let me know.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

Attachments:

EAC D-Suite 5.5-C Final Attestation (2020-06-29) signed.pdf 96k

---

email: "paumayr@eac.gov Paul Aumayr" **Tuesday, June 30, 2020 at 9:24:03 AM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper"
Cc: email: "hunter.medlock@provandv.com Hunter Medlock" , email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com michael.walker@provandv.com"

Ian - received.

Thanks!

On Mon, Jun 29, 2020 at 4:24 PM Ian Piper <ian.piper@dominionvoting.com> wrote:

> Paul:
>
> Attached is the Final Letter of Attestation.

If you have any questions, please let me know.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

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703-244-3180 MOBILE

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

DVS 5.5-C Draft Scope of Conformance

email: "paumayr@eac.gov Paul Aumayr" **Wednesday, June 24, 2020 at 3:46:46 PM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper"

Ian

Please find attached a Draft DVS 5.5-C Scope of Conformance. Please let me know of any comments at your earliest convenience.

Many thanks!

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

Attachments:

DVS_5.5_C_Scope_Conformance DRAFT.docx 228k

email: "ian.piper@dominionvoting.com Ian Piper" **Friday, June 26, 2020 at 6:33:13 PM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"

Paul:

Attached is a copy of the Scope of Conformance document with my suggested edits.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

From: Paul Aumayr <paumayr@eac.gov>

Sent: Wednesday, June 24, 2020 3:47 PM

To: Ian Piper <ian.piper@dominionvoting.com>

Subject: [EXTERNAL] DVS 5.5-C Draft Scope of Conformance

Ian

Please find attached a Draft DVS 5.5-C Scope of Conformance. Please let me know of any comments at your earliest convenience.

Many thanks!

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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Attachments:

DVS_5.5_C_Scope_Conformance DRAFT (ISP 2020-06-26).docx 236k

---

email: "paumayr@eac.gov Paul Aumayr" **Monday, June 29, 2020 at 9:19:14 AM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper"

Ian -received

Many thanks

On Fri, Jun 26, 2020 at 6:34 PM Ian Piper <ian.piper@dominionvoting.com> wrote:

> Paul:
>
> Attached is a copy of the Scope of Conformance document with my suggested edits.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) | DOMINIONVOTING.COM

720-257-5209 OFFICE (x9221)

703-244-3180 MOBILE

From: Paul Aumayr <paumayr@eac.gov>

Sent: Wednesday, June 24, 2020 3:47 PM

To: Ian Piper <ian.piper@dominionvoting.com>

Subject: [EXTERNAL] DVS 5.5-C Draft Scope of Conformance

Ian

Please find attached a Draft DVS 5.5-C Scope of Conformance. Please let me know of any comments at your earliest convenience.

Many thanks!

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

email: "ian.piper@dominionvoting.com Ian Piper" **Monday, June 29, 2020 at 9:21:35 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"

Paul:

Do you have the pre- and -post images from ProVV?

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) | DOMINIONVOTING.COM

720-257-5209 OFFICE (x9221)

703-244-3180 MOBILE

From: Paul Aumayr <paumayr@eac.gov>

Sent: Monday, June 29, 2020 9:19 AM

To: Ian Piper <ian.piper@dominionvoting.com>

Subject: Re: [EXTERNAL] DVS 5.5-C Draft Scope of Conformance

Ian -received

Many thanks

On Fri, Jun 26, 2020 at 6:34 PM Ian Piper <ian.piper@dominionvoting.com> wrote:

Paul:

Attached is a copy of the Scope of Conformance document with my suggested edits.

Sincerely:

IAN S. PIPER |
CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

From: Paul Aumayr <paumayr@eac.gov>

Sent: Wednesday, June 24, 2020 3:47 PM

To: Ian Piper <ian.piper@dominionvoting.com>

Subject: [EXTERNAL] DVS 5.5-C Draft Scope of Conformance

Ian

Please find attached a Draft DVS 5.5-C Scope of Conformance. Please let me know of any comments at your earliest convenience.

Many thanks!

Paul

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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5.5-C System ID Guide

email: "ian.piper@dominionvoting.com Ian Piper" **Wednesday, June 24, 2020 at 4:51:48 PM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "hunter.medlock@provandv.com Hunter Medlock"

Paul:

You should have received an email from Dominion's MFT Server with a download link for the D-Suite 5.5-C System ID Guide. Please download the document for your records.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) |
DOMINIONVOTING.COM

720-257-5209 OFFICE
(x9221)

703-244-3180 MOBILE

---

email: "paumayr@eac.gov Paul Aumayr" **Wednesday, June 24, 2020 at 6:25:15 PM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper"
Cc: email: "hunter.medlock@provandv.com Hunter Medlock"

Ian - received.

Thanks.

On Wed, Jun 24, 2020 at 4:51 PM Ian Piper <ian.piper@dominionvoting.com> wrote:

> Paul:

You should have received an email from Dominion's MFT Server with a download link for the D-Suite 5.5-C System ID Guide. Please download the document for your records.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

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703-244-3180 MOBILE

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

EVS 6030 and EVS 6110 Test Reports

email: "stephen.han@provandv.com Stephen Han" Wednesday, June 10, 2020 at 11:43:01 AM Eastern Daylight Time
To: email: "jlovato@eac.gov Jerome Lovato" , email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "slmckay@essvote.com McKay, Sue" , email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com Michael Walker"

All,

The Test Reports for both projects are available on Smartssheets. Let us know if you have any questions. Thanks.

---

email: "paumayr@eac.gov Paul Aumayr" Tuesday, June 23, 2020 at 1:40:18 PM Eastern Daylight Time
To: email: "stephen.han@provandv.com Stephen Han"
Cc: email: "jlovato@eac.gov Jerome Lovato" , email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com Michael Walker" , email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton"

Hi Stephen

I've attached comments for the EVS 6.1.1.0 to Smartsheet - line 11. I don't have additional comments for 6.0.3.0

Thanks

Paul

On Wed, Jun 10, 2020 at 11:43 AM Stephen Han <stephen.han@provandv.com> wrote:

All,

The Test Reports for both projects are available on Smartssheets. Let us know if you have any questions. Thanks.

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

email: "stephen.han@provandv.com Stephen Han" **Tuesday, June 23, 2020 at 2:29:32 PM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "jlovato@eac.gov Jerome Lovato" , email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com Michael Walker" , email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton"

Hey Paul,

I have uploaded our responses to the comments to SmartSheet line 12. We will upload the Rev of the 6110 Report shortly.

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, June 23, 2020 12:40 PM

To: Stephen Han <stephen.han@provandv.com>

Cc: Jerome Lovato <jlovato@eac.gov>; Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>; Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>

Subject: Re: EVS 6030 and EVS 6110 Test Reports

Hi Stephen

I've attached comments for the EVS 6.1.1.0 to Smartsheet - line 11. I don't have additional comments for 6.0.3.0

Thanks

Paul

On Wed, Jun 10, 2020 at 11:43 AM Stephen Han <stephen.han@provandv.com> wrote:

> All,
>
> The Test Reports for both projects are available on Smartssheets. Let us know if you have any questions. Thanks.

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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---

email: "stephen.han@provandv.com Stephen Han" **Tuesday, June 23, 2020 at 2:47:48 PM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr"
Cc: email: "jlovato@eac.gov Jerome Lovato" , email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com Michael Walker" , email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton" , email: "slmckay@essvote.com McKay, Sue" , email: "christina.cejka@essvote.com Cejka, Christina"

Hey Paul,

I have uploaded the Revised Report for 6110 to Smartsheet line 13. This should be the final rev for this project.

I have also uploaded the Final Report for 6030. I just change the name of the Report and removed ‘Initial’ from the file name. There are no other changes.

I will send all of the Trusted Items to the EAC and soon as we receive initial certifications and no other changes are required. Thanks.

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, June 23, 2020 12:40 PM

To: Stephen Han <stephen.han@provandv.com>

Cc: Jerome Lovato <jlovato@eac.gov>; Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>; Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>

Subject: Re: EVS 6030 and EVS 6110 Test Reports

Hi Stephen

I've attached comments for the EVS 6.1.1.0 to Smartsheet - line 11. I don't have additional comments for 6.0.3.0

Thanks

Paul

On Wed, Jun 10, 2020 at 11:43 AM Stephen Han <stephen.han@provandv.com> wrote:

> All,
>
> The Test Reports for both projects are available on Smartssheets. Let us know if you have any questions. Thanks.

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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---

email: "paumayr@eac.gov Paul Aumayr" **Wednesday, June 24, 2020 at 10:42:46 AM Eastern Daylight Time**
To: email: "stephen.han@provandv.com Stephen Han"
Cc: email: "jlovato@eac.gov Jerome Lovato" , email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com Michael Walker" , email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton" , email: "slmckay@essvote.com McKay, Sue" , email: "christina.cejka@essvote.com Cejka, Christina"

Stephen - Received.

Thanks.

On Tue, Jun 23, 2020 at 2:47 PM Stephen Han <stephen.han@provandv.com> wrote:

> Hey Paul,
>
> I have uploaded the Revised Report for 6110 to Smartsheet line 13. This should be the final rev for this project.
>
> I have also uploaded the Final Report for 6030. I just change the name of the Report and removed 'Initial' from the file name. There are no other changes.
>
> I will send all of the Trusted Items to the EAC and soon as we receive initial certifications and no other changes are required. Thanks.

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, June 23, 2020 12:40 PM

To: Stephen Han <stephen.han@provandv.com>

Cc: Jerome Lovato <jlovato@eac.gov>; Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>; Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>

Subject: Re: EVS 6030 and EVS 6110 Test Reports

Hi Stephen

I've attached comments for the EVS 6.1.1.0 to Smartsheet - line 11. I don't have additional comments for 6.0.3.0

Thanks

Paul

On Wed, Jun 10, 2020 at 11:43 AM Stephen Han <stephen.han@provandv.com> wrote:

> All,
>
> The Test Reports for both projects are available on Smartssheets. Let us know if you have any questions. Thanks.

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

---

email: "slmckay@essvote.com McKay, Sue" **Wednesday, June 24, 2020 at 10:48:48 AM Eastern Daylight Time**
To: email: "paumayr@eac.gov Paul Aumayr" , email: "stephen.han@provandv.com Stephen Han"
Cc: email: "jlovato@eac.gov Jerome Lovato" , email: "wendy.owens@provandv.com Wendy Owens" , email: "michael.walker@provandv.com Michael Walker" , email: "jfleming@eac.gov Jessica Fleming" , email: "eburton@eac.gov Eugene Burton" , email: "christina.cejka@essvote.com Cejka, Christina"

Morning Paul,

ES&S is also working on the initial draft letter we will be ready to send once the initial decision letter has been received. Also, if you would like to send us the draft scope of certification when you get it completed we can get them
reviewed and the ECO's added to it and sent back to you.

Thanks

Sue

From: Paul Aumayr <paumayr@eac.gov>

Sent: Wednesday, June 24, 2020 9:43 AM

To: Stephen Han <stephen.han@provandv.com>

Cc: Jerome Lovato <jlovato@eac.gov>; Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>; Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>; McKay, Sue <slmckay@essvote.com>; Cejka, Christina <christina.cejka@essvote.com>

Subject: Re: EVS 6030 and EVS 6110 Test Reports

Stephen - Received.

Thanks.

On Tue, Jun 23, 2020 at 2:47 PM Stephen Han <stephen.han@provandv.com> wrote:

Hey Paul,

I have uploaded the Revised Report for 6110 to Smartsheet line 13. This should be the final rev for this project.

I have also uploaded the Final Report for 6030. I just change the name of the Report and removed 'Initial' from the file name. There are no other changes.

I will send all of the Trusted Items to the EAC and soon as we receive initial certifications and no other changes are required. Thanks.

From: Paul Aumayr <paumayr@eac.gov>

Sent: Tuesday, June 23, 2020 12:40 PM

To: Stephen Han <stephen.han@provandv.com>

Cc: Jerome Lovato <jlovato@eac.gov>; Wendy Owens <wendy.owens@provandv.com>; Michael Walker <michael.walker@provandv.com>;
Jessica Fleming <jfleming@eac.gov>; Eugene Burton <eburton@eac.gov>

Subject: Re: EVS 6030 and EVS 6110 Test Reports

Hi Stephen

I've attached comments for the EVS

6.1.1.0 to Smartsheet - line 11. I don't have additional comments for 6.0.3.0

Thanks

Paul

On Wed, Jun 10, 2020 at 11:43 AM Stephen Han <stephen.han@provandv.com> wrote:

All,

The Test Reports for both projects are available on Smartssheets. Let us know if you have any questions. Thanks.

--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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--

Paul Aumayr

Senior Election Technology Specialist

U.S. Election Assistance Commission

PAumayr@eac.gov

(202) 476-9051

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Upcoming weekly meetings

email: "eburton@eac.gov Eugene Burton" **Tuesday, June 23, 2020 at 3:23:16 PM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert" , email: "jbernal@hartic.com"
Cc: email: "jlovato@eac.gov Jerome Lovato"

Good afternoon Pamela,

Hope all is well! Wanted to know which particular days and times worked best for you? Monday's between 11:00 a.m. - 2:00 p.m or Tuesday's any time after 1:00 p.m. If you have any additional questions please let me know. Thanks!

Eugene

--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

email: "pgeppert@hartic.com Pamela Geppert" **Tuesday, June 23, 2020 at 4:13:30 PM Eastern Daylight Time**
To: email: "eburton@eac.gov Eugene Burton" , email: "jbernal@hartic.com Jared Bernal"
Cc: email: "jlovato@eac.gov Jerome Lovato"

Hi, Eugene!

Thanks, and I hope all is well with you as well! Tuesdays between 1PM and 3PM Central would work best for us, if that's available. As a side note, I will be on vacation next week and the week after (although I will probably be keeping up with emails, etc.), but Jared will be able to attend the first couple of calls.

Thanks!

Pam

From: Eugene Burton <eburton@eac.gov>

Sent: Tuesday, June 23, 2020 2:23 PM

To: Pamela Geppert <pgeppert@hartic.com>; Jared Bernal <jbernal@hartic.com>

Cc: Jerome Lovato <jlovato@eac.gov>

Subject: Upcoming weekly meetings

Good afternoon Pamela,

Hope all is well! Wanted to know which particular days and times worked best for you? Monday's between 11:00 a.m. - 2:00 p.m or Tuesday's any time after 1:00 p.m. If you have any additional questions please let me know. Thanks!

Eugene

--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

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or may constitute as attorney work product. If you are not the intended recipient, you are hereby notified that any use, dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error,
notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

Initial Decision on Certification - Democracy Suite 5.5-C

email: "jlovato@eac.gov Jerome Lovato" **Tuesday, June 23, 2020 at 10:21:34 AM Eastern Daylight Time**
To: email: "ian.piper@dominionvoting.com Ian Piper"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "paumayr@eac.gov Paul Aumayr" , email: "hunter.medlock@provandv.com Hunter Medlock" , email: "michael.walker@provandv.com Michael Walker" , email: "wendy.owens@provandv.com Wendy Owens"

Good morning Ian,

Attached is the Initial Decision on Certification for Democracy Suite 5.5-C.

Thank you,
Jerome

Attachments:

Initial Decision D-Suite 5.5-C 06-23-2020.pdf 79k

email: "ian.piper@dominionvoting.com Ian Piper" **Tuesday, June 23, 2020 at 10:27:09 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "mharrington@eac.gov Mona Harrington" , email: "paumayr@eac.gov Paul Aumayr" , email: "hunter.medlock@provandv.com Hunter Medlock" , email: "michael.walker@provandv.com Michael Walker" , email: "wendy.owens@provandv.com Wendy Owens"

Jerome:

Thank you very much! ProVV and I will follow-up on the remaining deliverables today.

Sincerely:

IAN S. PIPER | CERTIFICATION DIRECTOR

DOMINION VOTING SYSTEMS, INC.

1201 18th Street, Suite 210, DENVER, CO 80202

866-654-VOTE (8683) | DOMINIONVOTING.COM

720-257-5209 OFFICE (x9221)

703-244-3180 MOBILE

From: Jerome Lovato <jlovato@eac.gov>

Sent: Tuesday, June 23, 2020 10:22 AM

To: Ian Piper <ian.piper@dominionvoting.com>

Cc: Mona Harrington <mharrington@eac.gov>; Paul Aumayr <paumayr@eac.gov>; Hunter Medlock <hunter.medlock@provandv.com>; Michael Walker <michael.walker@provandv.com>; Wendy Owens

<wendy.owens@provandv.com>

Subject: [EXTERNAL] Initial Decision on Certification - Democracy Suite 5.5-C

Good morning Ian,

Attached is the Initial Decision on Certification for Democracy Suite 5.5-C.

Thank you,

Jerome

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by responding to the email and then immediately delete the email.

Website error

email: "chris.wlaschin@essvote.com Wlaschin, Chris" **Tuesday, June 23, 2020 at 9:21:44 AM Eastern Daylight Time**
To: email: "mturner@eac.gov mturner@eac.gov"

Good morning, can you pass this to Josh or who ever needs to see it. I tried to access the new cyber training website and I get error messages regardless of browser.

Thanks

Chris

Chris Wlaschin, CISSP | Vice President Systems Security and CISO | Election Systems & Software

11208 John Galt Blvd. Omaha, NE 68137 | O: 402.938-1450

chris.wlaschin@essvote.com | www.essvote.com

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To find out more Click Here.

Attachments:

image007.jpg 31k

image008.jpg 37k

image009.png 3.6k

---

email: "mturner@eac.gov Maurice Turner" **Tuesday, June 23, 2020 at 9:32:51 AM Eastern Daylight Time**
To: email: "chris.wlaschin@essvote.com Wlaschin, Chris"

Thanks for letting me know. I'll pass it along.

Maurice Turner

Senior Advisor

U.S. Election Assistance Commission

mturner@eac.gov | www.eac.gov

From: Wlaschin, Chris <chris.wlaschin@essvote.com>

Sent: Tuesday, June 23, 2020 9:21:44 AM

To: mturner@eac.gov <mturner@eac.gov>

Subject: Website error

Good morning, can you pass this to Josh or who ever needs to see it. I tried to access the new cyber training website and I get error messages regardless of browser.

Thanks

Chris

Chris Wlaschin, CISSP | Vice President Systems Security and CISO | Election Systems & Software

11208 John Galt Blvd. Omaha, NE 68137 | O: 402.938-1450

chris.wlaschin@essvote.com | www.essvote.com

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Attachments:

image007.jpg 31k

image008.jpg 37k

image009.png 3.6k

Re: Verity Voting 2.5 Application

email: "jlovato@eac.gov Jerome Lovato" **Tuesday, June 23, 2020 at 12:33:53 AM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"
Cc: email: "jbernal@hartic.com Jared Bernal" , email: "tmapps@slicompliance.com Traci Mapps" , email: "jpanek@slicompliance.com Jonathon Panek" , email: "eburton@eac.gov Eugene Burton"

Hi Pam,

I have attached the application approval. Eugene is the project manager for this system and I will be working closely with him throughout the test campaign.

Thank you,
Jerome

Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

On Mon, May 11, 2020 at 5:22 PM Pamela Geppert <pgeppert@hartic.com> wrote:

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>
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Thank you!

Pam

PS – I am still waiting on one final piece of information on the Manufacturer's Registration form but should (hopefully) be able to get that to you tomorrow!

Pam Geppert, PMP, CERV

Director of Certification & Proposals

Hart InterCivic

15500 Wells Port Drive | Austin, TX | 78728

Direct: 512.252.6813 | Mobile: 512.626.4130 | 800.223.HART

pgeppert@hartic.com |
www.hartintercivic.com

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Attachments:

image003.jpg 1.5k

Application Approval Letter HRT-Verity-2.5 06-23-2020.pdf 73k

email: "jlovato@eac.gov Jerome Lovato" **Tuesday, June 23, 2020 at 12:36:34 AM Eastern Daylight Time**
To: email: "eburton@eac.gov Eugene Burton"

Good morning Eugene,

Will you please coordinate a weekly meeting schedule with Hart and SLI? Mondays between 11 - 2 and Tuesdays after 1 work best for me but I'm open to other days/times if that doesn't work for them.

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image003.jpg 1.5k

email: "pgeppert@hartic.com Pamela Geppert" **Tuesday, June 23, 2020 at 7:50:50 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "jbernal@hartic.com Jared Bernal" , email: "tmapps@slicompliance.com Traci Mapps" , email: "jpanek@slicompliance.com Jonathon Panek" , email: "eburton@eac.gov Eugene Burton"

Thanks, Jerome! And welcome to Eugene!

-Pam

From: Jerome Lovato <jlovato@eac.gov>

Sent: Monday, June 22, 2020 11:34 PM

To: Pamela Geppert <pgeppert@hartic.com>

Cc: Jared Bernal <jbernal@hartic.com>; Traci Mapps <tmapps@slicompliance.com>; Jonathon Panek <jpanek@slicompliance.com>; Eugene Burton <eburton@eac.gov>

Subject: Re: Verity Voting 2.5 Application

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Attachments:

image001.jpg 1.5k

---

email: "eburton@eac.gov Eugene Burton" **Tuesday, June 23, 2020 at 8:34:39 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Good morning Jerome,

I will reach out to them both today to get their availability.

Eugene

On Tue, Jun 23, 2020 at 12:36 AM Jerome Lovato <jlovato@eac.gov> wrote:

> Good morning Eugene,
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> Will you please coordinate a weekly meeting schedule with Hart and SLI? Mondays between 11 - 2 and Tuesdays after 1 work best for me but I'm open to other days/times if that doesn't work for them.
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--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

Attachments:

image003.jpg 1.5k

---

email: "eburton@eac.gov Eugene Burton" **Tuesday, June 23, 2020 at 8:36:55 AM Eastern Daylight Time**
To: email: "pgeppert@hartic.com Pamela Geppert"

Thanks Pam!

On Tue, Jun 23, 2020 at 7:51 AM Pamela Geppert <pgeppert@hartic.com> wrote:

Thanks, Jerome! And welcome to Eugene!

-Pam

From: Jerome Lovato <jlovato@eac.gov>

Sent: Monday, June 22, 2020 11:34 PM

To: Pamela Geppert <pgeppert@hartic.com>

Cc: Jared Bernal <jbernal@hartic.com>; Traci Mapps <tmapps@slicompliance.com>; Jonathon Panek <jpanek@slicompliance.com>; Eugene Burton <eburton@eac.gov>

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Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

Attachments:

image001.jpg 1.5k

---

email: "eburton@eac.gov Eugene Burton" **Tuesday, June 23, 2020 at 8:51:06 AM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Jerome,

What is the beginning date and end date for these weekly meetings?

Eugene

On Tue, Jun 23, 2020 at 12:36 AM Jerome Lovato <jlovato@eac.gov> wrote:

> Good morning Eugene,
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> Will you please coordinate a weekly meeting schedule with Hart and SLI? Mondays between 11 - 2 and Tuesdays after 1 work best for me but I'm open to other days/times if that doesn't work for them.
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Attachments:

image003.jpg 1.5k

---

email: "jlovato@eac.gov Jerome Lovato" **Tuesday, June 23, 2020 at 9:50:08 AM Eastern Daylight Time**
To: email: "eburton@eac.gov Eugene Burton"

We usually start once we receive the test plan and then base the end date off of the project schedule.

On Tue, Jun 23, 2020 at 6:51 AM Eugene Burton <eburton@eac.gov> wrote:

> Jerome,
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Attachments:

image003.jpg 1.5k

---

email: "eburton@eac.gov Eugene Burton" **Tuesday, June 23, 2020 at 3:00:24 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"

Okay, so just wait until we receive the draft test plan?

Eugene

On Tue, Jun 23, 2020 at 9:50 AM Jerome Lovato <jlovato@eac.gov> wrote:

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Attachments:

image003.jpg 1.5k

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email: "jlovato@eac.gov Jerome Lovato" **Tuesday, June 23, 2020 at 3:27:19 PM Eastern Daylight Time**
To: email: "eburton@eac.gov Eugene Burton"

Yes.

On Tue, Jun 23, 2020 at 3:00 PM Eugene Burton <eburton@eac.gov> wrote:
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- Verity 2.5 System Diagram
- Verity Voting 2.5 Change Notes
- Verity Voting 2.5 Usability Impact Statement

We will be working with SLI Compliance on this campaign (copied on this email). Once you've had the opportunity to review the attached documents, please let us know if you have any questions or concerns.

Thank you!

Pam

PS – I am still waiting on one final piece of information on the Manufacturer's Registration form but should (hopefully) be able to get that to you tomorrow!

HartLogosm

Pam Geppert, PMP, CERV

Director of Certification & Proposals

Hart InterCivic

15500 Wells Port Drive | Austin, TX | 78728

Direct: 512.252.6813 | Mobile: 512.626.4130 | 800.223.HART

pgeppert@hartic.com |
www.hartintercivic.com

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notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

--

Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
Ph. 202-805-4613

--

Eugene Burton

Senior Election Technology Specialist

U.S. Election Assistance Commission

EBurton@eac.gov

(202) 868-1608

Attachments:
image003.jpg 1.5k

VVSG 2.0 Requirements comment period

email: "jlovato@eac.gov Jerome Lovato" **Monday, June 22, 2020 at 12:15:34 PM Eastern Daylight Time**
Cc: email: "mharrington@eac.gov Mona Harrington"
Bcc: email: "kay.stimson@dominionvoting.com Kay Stimson" , email: "ian.piper@dominionvoting.com Ian Piper" , email: "jcanter@hartic.com Jim Canter" , email: "sderheimer@hartic.com Sam Derheimer" , email: "ben@voting.works Ben Adida" , email: "matt@voting.works Matt Pasternack" , email: "edwin.smith@smartmatic.com Edwin Smith"

Hi All,

Just want to remind you that today is the last day to submit comments for the VVSG 2.0 Requirements. The deadline is 5 pm ET. Please submit comments via this link: https://www.regulations.gov/document?D=EAC-2020-0002-0001

Thank you,
Jerome

---

email: "ben@voting.works Ben Adida" **Monday, June 22, 2020 at 12:46:41 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "mharrington@eac.gov Mona Harrington"

Hi Jerome, Mona,

We're definitely planning to submit, but got a bit delayed by lots of other work. The web site says deadline is midnight eastern... is it midnight or 5pm?

-Ben

On Mon, Jun 22, 2020 at 9:15 AM Jerome Lovato <jlovato@eac.gov> wrote:

> Hi All,
>
> Just want to remind you that today is the last day to submit comments for the VVSG 2.0 Requirements. The deadline is 5 pm ET. Please submit comments via this link: https://www.regulations.gov/document?D=EAC-2020-0002-0001
>
> Thank you,
> Jerome
>
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---

email: "jlovato@eac.gov Jerome Lovato" **Monday, June 22, 2020 at 1:20:29 PM Eastern Daylight Time**
To: email: "ben@voting.works Ben Adida"
Cc: email: "mharrington@eac.gov Mona Harrington"

Hi Ben,

I apologize for the confusion. Our notice states 5 pm Eastern and the website states 11:59 pm Eastern. The website time did not sync with our notice time, so the official deadline is 5 pm Eastern.

Thank you,
Jerome

On Mon, Jun 22, 2020 at 10:47 AM Ben Adida <ben@voting.works> wrote:

> Hi Jerome, Mona,
>
> We're definitely planning to submit, but got a bit delayed by lots of other work. The web site says deadline is midnight eastern... is it midnight or 5pm?
>
> -Ben
>
> On Mon, Jun 22, 2020 at 9:15 AM Jerome Lovato <jlovato@eac.gov> wrote:
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--
Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission

Ph. 202-805-4613

---

email: "ben@voting.works Ben Adida" **Monday, June 22, 2020 at 1:36:52 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "mharrington@eac.gov Mona Harrington"

Got it, ok!

On Mon, Jun 22, 2020 at 10:20 AM Jerome Lovato <jlovato@eac.gov> wrote:

> Hi Ben,
>
> I apologize for the confusion. Our notice states 5 pm Eastern and the website states 11:59 pm Eastern. The website time did not sync with our notice time, so the official deadline is 5 pm Eastern.
>
> Thank you,
> Jerome
>
> On Mon, Jun 22, 2020 at 10:47 AM Ben Adida <ben@voting.works> wrote:
>
>> Hi Jerome, Mona,
>>
>> We're definitely planning to submit, but got a bit delayed by lots of other work. The web site says deadline is midnight eastern... is it midnight or 5pm?
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>> -Ben
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>> On Mon, Jun 22, 2020 at 9:15 AM Jerome Lovato <jlovato@eac.gov> wrote:
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---

email: "ben@voting.works Ben Adida" **Monday, June 22, 2020 at 5:03:18 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "mharrington@eac.gov Mona Harrington"

Hi Jerome, Mona,

I *just* submitted our comments. We were rushed as we thought we had a few more hours to polish things up, so I hope it's still useful and meaningful. Please let me know if we can provide any additional information.

-Ben

On Mon, Jun 22, 2020 at 10:36 AM Ben Adida <ben@voting.works> wrote:

> Got it, ok!
>
> On Mon, Jun 22, 2020 at 10:20 AM Jerome Lovato <jlovato@eac.gov> wrote:
>
> > Hi Ben,
> >
> > I apologize for the confusion. Our notice states 5 pm Eastern and the website states 11:59 pm Eastern. The website time did not sync with our notice time, so the official deadline is 5 pm Eastern.
> >
> > Thank you,
> > Jerome
> >
> > On Mon, Jun 22, 2020 at 10:47 AM Ben Adida <ben@voting.works> wrote:
> >
> > > Hi Jerome, Mona,
> > >
> > > We're definitely planning to submit, but got a bit delayed by lots of other work. The web site says deadline is midnight eastern... is it midnight or 5pm?
> > >
> > > -Ben
> > >
> > > On Mon, Jun 22, 2020 at 9:15 AM Jerome Lovato <jlovato@eac.gov> wrote:
> > > > Hi All,
> > > >
> > > > Just want to remind you that today is the last day to submit comments for the VVSG 2.0 Requirements. The deadline is 5 pm ET. Please submit comments via this link: https://www.regulations.gov/document?D=EAC-2020-0002-0001

Thank you,
Jerome

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---

email: "jlovato@eac.gov Jerome Lovato" **Monday, June 22, 2020 at 7:03:14 PM Eastern Daylight Time**
To: email: "ben@voting.works Ben Adida"
Cc: email: "mharrington@eac.gov Mona Harrington"

Thank you, Ben. I have posted your comments on regulations.gov.

Jerome

On Mon, Jun 22, 2020 at 5:03 PM Ben Adida <ben@voting.works> wrote:

Hi Jerome, Mona,

I *just* submitted our comments. We were rushed as we thought we had a few more hours to polish things up, so I hope it's still useful and meaningful. Please let me know if we can provide any additional information.

-Ben

On Mon, Jun 22, 2020 at 10:36 AM Ben Adida <ben@voting.works> wrote:

Got it, ok!

On Mon, Jun 22, 2020 at 10:20 AM Jerome Lovato <jlovato@eac.gov> wrote:

Hi Ben,

I apologize for the confusion. Our notice states 5 pm Eastern and the website states 11:59 pm Eastern. The website time did not sync with our notice time, so the official deadline is 5 pm Eastern.

Thank you,
Jerome

On Mon, Jun 22, 2020 at 10:47 AM Ben Adida <ben@voting.works> wrote:

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We're definitely planning to submit, but got a bit delayed by lots of other work. The web site says deadline is midnight eastern... is it midnight or 5pm?

-Ben

On Mon, Jun 22, 2020 at 9:15 AM Jerome Lovato <jlovato@eac.gov> wrote:

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Thank you,
Jerome

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---

email: "ben@voting.works Ben Adida" **Monday, June 22, 2020 at 7:09:05 PM Eastern Daylight Time**
To: email: "jlovato@eac.gov Jerome Lovato"
Cc: email: "mharrington@eac.gov Mona Harrington"

Jerome: awesome!

One additional comment I wanted to make that I forgot to add, but thought I would mention to you as it is stylistic and not material to the requirements themselves: as I'm sure you know there is a movement to remove terminology in technology that has roots in racism. It would be pretty great if this could be applied to the VVSG, specifically:

- "master" can be changed to "primary"
- "whitelist/blacklist" can be changed to "accept-list / block-list" or "yeslist / nolist".

Thanks again for the opportunity to comment on these!

-Ben

On Mon, Jun 22, 2020 at 4:03 PM Jerome Lovato <jlovato@eac.gov> wrote:

> Thank you, Ben. I have posted your comments on regulations.gov.
>
> Jerome
>
>
> On Mon, Jun 22, 2020 at 5:03 PM Ben Adida <ben@voting.works> wrote:
>
> > Hi Jerome, Mona,
> >
> > I *just* submitted our comments. We were rushed as we thought we had a few more hours to polish things up, so I hope it's still useful and meaningful. Please let me know if we can provide any additional information.
> >
> > -Ben
> >
> > On Mon, Jun 22, 2020 at 10:36 AM Ben Adida <ben@voting.works> wrote:
> >
> > > Got it, ok!
> > >
> > > On Mon, Jun 22, 2020 at 10:20 AM Jerome Lovato <jlovato@eac.gov> wrote:
> > >
> > > > Hi Ben,
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> > > > I apologize for the confusion. Our notice states 5 pm Eastern and the website states 11:59 pm Eastern. The website time did not sync with our notice time, so the official deadline is 5 pm Eastern.
> > > >
> > > > Thank you,
> > > > Jerome

On Mon, Jun 22, 2020 at 10:47 AM Ben Adida <ben@voting.works> wrote:

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We're definitely planning to submit, but got a bit delayed by lots of other work. The web site says deadline is midnight eastern... is it midnight or 5pm?

-Ben

On Mon, Jun 22, 2020 at 9:15 AM Jerome Lovato <jlovato@eac.gov> wrote:

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Thank you,
Jerome

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Hart's submission on the VVSG 2.0 Requirements

email: "sderheimer@hartic.com Sam Derheimer" **Monday, June 22, 2020 at 2:35:14 PM Eastern Daylight Time**
To: email: "mharrington@eac.gov Mona Harrington" , email: "jlovato@eac.gov Jerome Lovato"

Mona and Jerome,

I've attached Hart's official submission of our comments on the VVSG 2.0 Requirements. This document was also uploaded to the appropriate federal registry, but I wanted you to have a direct copy from us, as well.

We take our responsibility to help guide and improve the process of updating the VVSG extremely seriously, and, as you'll see from our comments, we dedicated significant resources to providing as much detailed and critical feedback as we
could. We hope these comments will be helpful in your essential work to update the VVSG, and we look forward to continuing the conversation during future meetings of the manufacturers working group.

As always, please reach out any time if you have any questions or comments.

Samuel Derheimer

Director of Government Affairs

Hart InterCivic

512.252.6458 (o) | 866.275.4278 (help desk)

512.252.6919 (efax)|
http://www.hartintercivic.com

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notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

Attachments:

Hart InterCivic_VVSG 2.0 Requirements Comments.pdf 759k

---

email: "jlovato@eac.gov Jerome Lovato" **Monday, June 22, 2020 at 2:37:40 PM Eastern Daylight Time**
To: email: "sderheimer@hartic.com Sam Derheimer"
Cc: email: "mharrington@eac.gov Mona Harrington"

Thank you, Sam. We received the comments via regulations.gov and I just posted them so they should be public soon.

Jerome

On Mon, Jun 22, 2020 at 2:35 PM Sam Derheimer <sderheimer@hartic.com> wrote:

Mona and Jerome,

I've attached Hart's official submission of our comments on the VVSG 2.0 Requirements. This document was also uploaded to the appropriate federal registry, but I wanted you to have a direct copy from us, as well.

We take our responsibility to help guide and improve the process of updating the VVSG extremely seriously, and, as you'll see from our comments, we dedicated significant resources to providing as much detailed and critical feedback as we could. We hope these comments will be helpful in your essential work to update the VVSG, and we look forward to continuing the conversation during future meetings of the manufacturers working group.

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Samuel Derheimer

Director of Government Affairs

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notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.

---

email: "mharrington@eac.gov Mona Harrington" **Monday, June 22, 2020 at 3:43:02 PM Eastern Daylight Time**
To: email: "sderheimer@hartic.com Sam Derheimer"

Thank you!

From: Sam Derheimer <sderheimer@hartic.com>
Sent: Monday, June 22, 2020 2:35 PM
To: Mona Harrington <mharrington@eac.gov>; Jerome Lovato <jlovato@eac.gov>
Subject: Hart's submission on the VVSG 2.0 Requirements

Mona and Jerome,

I've attached Hart's official submission of our comments on the VVSG 2.0 Requirements. This document was also uploaded to the appropriate federal registry, but I wanted you to have a direct copy from us, as well.

We take our responsibility to help guide and improve the process of updating the VVSG extremely seriously, and, as you'll see from our comments, we dedicated significant resources to providing as much detailed and critical feedback as we could. We hope these comments will be helpful in your essential work to update the VVSG, and we look forward to continuing the conversation during future meetings of the manufacturers working group.

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Samuel Derheimer

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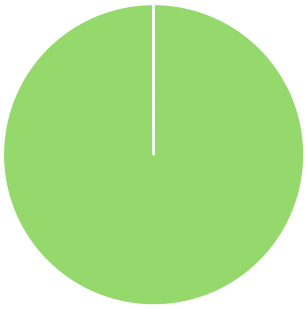
4.14.17 ICC - NY - Dell 5270 Compatibility Tests

Project: ICC Project
By Syed Ali-Jaffar, 25/06/2020 2:06 PM

Run: 4.14.17 ICC - NY - Dell 5270 Compatibility Tests



37 Passed
100% set to Passed

0 Blocked
0% set to Blocked

0 Retest
0% set to Retest

0 Failed
0% set to Failed

100%
passed

0 / 37 untested (0%).

Tests to verify compatibility of ICC 4.14.17 with Dell Optiplex 5270 AIO as ICC Workstation.

5270 Drivers (S.Tag - 3FXM903)
BIOS : 1.5.0
CAB : 5270 AIO-WIN10-A05-X88MM.CAB
Windows 10 - 1909
WSUS 12.0

Scanner: G1130 (Serial No : GF304418)
F.W. - 1.33

Drivers : Kofax VRS 4.5

Hardening Scripts applied.

Created On	24/06/2020
Completed	No

Tests & Results

1. Workstation Setup (12)

ID	Title	Status
T1027197	Windows OS Installation - Windows 10 1909	Passed
T1027318	WSUS Offline Updates 12.0	Passed
T1027439	System Drivers Installation	Passed
T1027560	OS Configuration	Passed
T1027681	Kofax VRS 4.5 Installation	Passed
T1027802	Kofax VRS 4.5 Service Pack Installation	Passed
T1027923	Kofax VRS 4.5 DR-G1130 Component Installer	Passed
T1028044	Canon DR-G1130 Scanner Driver Installation	Passed
T1028165	Microsoft Visual C++ Redistributable 2013 (x86) Installation	Passed
T1028286	Apply Hardening Scripts and Reboot	Passed
T1028407	Setup Project for ICC	Passed
T1028528	Executing ICC Application	Passed

2. Starting and Exiting (0)

Starting and Exiting ICC application

2.1. Starting the Application (3)

ID	Title	Status
T1007451	Starting the application for the first time	Passed
T1007452	Starting the application after batches have been accepted	Passed
T1007453	Starting the application with the tabulator closed	Passed

3. Configuration Menu (0)

This section contains everything that falls under the CONFIGURATION section of ICC

3.1. Primary Path (1)

ID	Title	Status
T1007457	Primary Path - Non Editable	Passed

3.2. Scan options (1)

Stop Condition test cases can be found under "Scanning Ballots"

ID	Title	Status
T1007459	Change Scan Options	Passed

4. Scanning ballots (3)

ID	Title	Status
T1027059	Scan Ballots and Accept Batch	Passed
T1027060	Scan Ballots and Discard Batch	Passed
T1027061	Pressing scan while there are no ballots residing in input tray of the scanner	Passed

4.1. Stop Conditions (Common for all Elections) (4)

ID	Title	Status
T1027062	Stop Scan On - Ambiguous Voting Mark	Passed
T1027063	Stop Scan On - Write-in Vote	Passed
T1027064	Stop Scan On - Blank Ballot	Passed
T1027065	Stop Scan On - All Overvotes	Passed

4.2. Scanner Continuity (2)

ID	Title	Status
T1027066	Scanner Continuity - Continuous scan with only one scan per batch	Passed
T1027067	Scanner Continuity - Continuous scan with multiple scans per batch	Passed

5. Report (0)

Test cases that fall under the Reporting/Results of ICC under the Status Menu.

5.1. Zero report (1)

ID	Title	Status
T1007495	Printing the Zero Report – by Contest	Passed

5.2. Results report (1)

ID	Title	Status
T1007496	Results - All Accepted Batches	Passed

6. Log (0)

Test cases that fall under the Log of ICC under the Status Menu.

6.1. Log window (1)

ID	Title	Status
T1027074	Log window	Passed

7. Results Tally & Reporting (1)

Test cases concerning the integration of ICC with RTR.

ID	Title	Status
T1027075	Transfering the Results to RTR	Passed

8. iButton (4)

Test cases that concern the iButton.

ID	Title	Status
T1007512	Ensure that Supervisor mode does not stay enabled after iButton is removed	Passed
T1007514	Inputting Wrong Passcode for security key	Passed
T1007525	Ensure that ICC does not lose connecting with iButton	Passed
T1007523	Properties, Change scanner and Browse Button should disappear after ibutton is removed.	Passed

8.1. Tech Key (1)

ID	Title	Status
T1007517	ICC should ask for the Tech passcode - Tech key	Passed

9. Version Verification (2)

Tests to verify that correct version number is reflected across all windows and areas

ID	Title	Status
T1007532	Verification of ICC Version in Windows Programs and Features	Passed
T1007534	Verification of ICC Version on the main ICC Window	Passed

State	Client Name
Alabama	Autauga County, Alabama
Alabama	Baldwin County, Alabama
Alabama	Barbour County, Alabama
Alabama	Bibb County, Alabama
Alabama	Blount County, Alabama
Alabama	Bullock County, Alabama
Alabama	Butler County, Alabama
Alabama	Calhoun County, Alabama
Alabama	Chambers County, Alabama
Alabama	Cherokee County, Alabama
Alabama	Chilton County, Alabama
Alabama	Choctaw County, Alabama
Alabama	Clarke County, Alabama
Alabama	Clay County, Alabama
Alabama	Cleburne County, Alabama
Alabama	Coffee County, Alabama
Alabama	Colbert County, Alabama
Alabama	Conecuh County, Alabama
Alabama	Coosa County, Alabama
Alabama	Covington County, Alabama
Alabama	Crenshaw County, Alabama
Alabama	Cullman County, Alabama
Alabama	Dale County, Alabama
Alabama	Dallas County, Alabama
Alabama	Dekalb County, Alabama
Alabama	Elmore County, Alabama
Alabama	Escambia County, Alabama
Alabama	Etowah County, Alabama
Alabama	Fayette County, Alabama
Alabama	Franklin County, Alabama
Alabama	Geneva County, Alabama
Alabama	Greene County, Alabama
Alabama	Hale County, Alabama
Alabama	Henry County, Alabama
Alabama	Houston County, Alabama
Alabama	Jackson County, Alabama
Alabama	Jefferson County, Alabama
Alabama	Lamar County, Alabama
Alabama	Lauderdale County, Alabama
Alabama	Lawrence County, Alabama
Alabama	Lee County, Alabama
Alabama	Limestone County, Alabama
Alabama	Lowndes County, Alabama
Alabama	Macon County, Alabama
Alabama	Madison County, Alabama

Alabama	Marengo County, Alabama
Alabama	Marion County, Alabama
Alabama	Marshall County, Alabama
Alabama	Mobile County, Alabama
Alabama	Monroe County, Alabama
Alabama	Montgomery County, Alabama
Alabama	Morgan County, Alabama
Alabama	Perry County, Alabama
Alabama	Pickens County, Alabama
Alabama	Pike County, Alabama
Alabama	Randolph County, Alabama
Alabama	Russell County, Alabama
Alabama	Shelby County, Alabama
Alabama	St Clair County, Alabama
Alabama	Sumter County, Alabama
Alabama	Talladega County, Alabama
Alabama	Tallapoosa County, Alabama
Alabama	Tuscaloosa County, Alabama
Alabama	Walker County, Alabama
Alabama	Washington County, Alabama
Alabama	Wilcox County, Alabama
Alabama	Winston County, Alabama
Arizona	Apache County, Arizona
Arizona	Cochise County, Arizona
Arizona	Coconino County, Arizona
Arizona	Gila County, Arizona
Arizona	Graham County, Arizona
Arizona	Greenlee County, Arizona
Arizona	La Paz County, Arizona
Arizona	Mohave County, Arizona
Arizona	Navajo County Elections
Arizona	Pima County, Arizona
Arizona	Pinal County, Arizona
Arizona	Santa Cruz County, Arizona
Arizona	Yuma County, Arizona
Arkansas	Arkansas County, Arkansas
Arkansas	Ashley County, Arkansas
Arkansas	Baxter County, Arkansas
Arkansas	Benton County, Arkansas
Arkansas	Boone County, Arkansas
Arkansas	Bradley County, Arkansas
Arkansas	Calhoun County, Arkansas
Arkansas	Carroll County, Arkansas
Arkansas	Chicot County, Arkansas
Arkansas	Clark County, Arkansas
Arkansas	Clay County, Arkansas

Arkansas	Cleburne County, Arkansas
Arkansas	Cleveland County, Arkansas
Arkansas	Columbia County, Arkansas
Arkansas	Conway County, Arkansas
Arkansas	Craighead County, Arkansas
Arkansas	Crawford County, Arkansas
Arkansas	Crittenden County, Arkansas
Arkansas	Cross County, Arkansas
Arkansas	Dallas County, Arkansas
Arkansas	Desha County, Arkansas
Arkansas	Drew County, Arkansas
Arkansas	Faulkner County, Arkansas
Arkansas	Franklin County, Arkansas
Arkansas	Fulton County, Arkansas
Arkansas	Garland County, Arkansas
Arkansas	Grant County, Arkansas
Arkansas	Greene County, Arkansas
Arkansas	Hempstead County, Arkansas
Arkansas	Hot Spring County, Arkansas
Arkansas	Howard County, Arkansas
Arkansas	Independence County, Arkansas
Arkansas	Izard County, Arkansas
Arkansas	Jackson County, Arkansas
Arkansas	Jefferson County, Arkansas
Arkansas	Johnson County, Arkansas
Arkansas	Lafayette County, Arkansas
Arkansas	Lawrence County, Arkansas
Arkansas	Lee County, Arkansas
Arkansas	Lincoln County, Arkansas
Arkansas	Little River County, Arkansas
Arkansas	Logan County, Arkansas
Arkansas	Lonoke County, Arkansas
Arkansas	Madison County, Arkansas
Arkansas	Marion County, Arkansas
Arkansas	Miller County, Arkansas
Arkansas	Mississippi County, Arkansas
Arkansas	Monroe County, Arkansas
Arkansas	Montgomery County, Arkansas
Arkansas	Nevada County, Arkansas
Arkansas	Newton County, Arkansas
Arkansas	Ouachita County, Arkansas
Arkansas	Perry County, Arkansas
Arkansas	Phillips County, Arkansas
Arkansas	Pike County, Arkansas
Arkansas	Poinsett County, Arkansas
Arkansas	Polk County, Arkansas

Arkansas	Pope County, Arkansas
Arkansas	Prairie County, Arkansas
Arkansas	Pulaski County, Arkansas
Arkansas	Randolph County, Arkansas
Arkansas	Saline County, Arkansas
Arkansas	Scott County, Arkansas
Arkansas	Searcy County, Arkansas
Arkansas	Sebastian County, Arkansas
Arkansas	Sevier County, Arkansas
Arkansas	Sharp County, Arkansas
Arkansas	St Francis County, Arkansas
Arkansas	Stone County, Arkansas
Arkansas	Union County, Arkansas
Arkansas	Van Buren County, Arkansas
Arkansas	Washington County, Arkansas
Arkansas	White County, Arkansas
Arkansas	Woodruff County, Arkansas
Arkansas	Yell County, Arkansas
Delaware	Kent County, Delaware
Delaware	New Castle, Delaware
Delaware	Sussex County, Delaware
Idaho	Adams County, Idaho
Idaho	Bannock County, Idaho
Idaho	Bear Lake County, Idaho
Idaho	Benwah County, Idaho
Idaho	Bingham County, Idaho
Idaho	Blaine County, Idaho
Idaho	Boise County, Idaho
Idaho	Boundary County, Idaho
Idaho	Butte County, Idaho
Idaho	Camas County, Idaho
Idaho	Canyon County, Idaho
Idaho	Cassia County, Idaho
Idaho	Clark County, Idaho
Idaho	Clearwater County, Idaho
Idaho	Custer County, Idaho
Idaho	Elmore County, Idaho
Idaho	Fremont County, Idaho
Idaho	Gem County, Idaho
Idaho	Gooding County, Idaho
Idaho	Idaho County, Idaho
Idaho	Jefferson County, Idaho
Idaho	Jerome County, Idaho
Idaho	Kootenai County, Idaho
Idaho	Latah County, Idaho
Idaho	Lemhi County, Idaho

Idaho	Lewis County, Idaho
Idaho	Lincoln County, Idaho
Idaho	Madison County, Idaho
Idaho	Minidoka County, Idaho
Idaho	Nez Perce County, Idaho
Idaho	Oneida County, Idaho
Idaho	Owyhee County, Idaho
Idaho	Payette County, Idaho
Idaho	Power County, Idaho
Idaho	Shoshone County, Idaho
Idaho	Teton County, Idaho
Idaho	Twin Falls County, Idaho
Idaho	Valley County, Idaho
Idaho	Washington County, Idaho
Indiana	Carroll County, Indiana
Indiana	Clark County, Indiana
Indiana	Crawford County, Indiana
Indiana	Dearborn County, Indiana
Indiana	Elkhart County, Indiana
Indiana	Hancock County, Indiana
Indiana	Henry County, Indiana
Indiana	Howard County, Indiana
Indiana	Jennings County, Indiana
Indiana	Madison County, Indiana
Indiana	Marion County, Indiana
Indiana	Martin County, Indiana
Indiana	Porter County, Indiana
Indiana	Union County, Indiana
Kansas	Allen County, Kansas
Kansas	Atchison County, Kansas
Kansas	Barton County, Kansas
Kansas	Brown County, Kansas
Kansas	Butler County, Kansas
Kansas	Chautauqua County, Kansas
Kansas	Cherokee County, Kansas
Kansas	Cloud County, Kansas
Kansas	Coffey County, Kansas
Kansas	Cowley County, Kansas
Kansas	Crawford County, Kansas
Kansas	Decatur County, Kansas
Kansas	Doniphan County, Kansas
Kansas	Ellis County, Kansas
Kansas	Ellsworth County, Kansas
Kansas	Finney County, Kansas
Kansas	Jewell County, Kansas
Kansas	Johnson County, Kansas

Kansas	Kingman County, Kansas
Kansas	Labette County, Kansas
Kansas	Leavenworth County, Kansas
Kansas	Linn County, Kansas
Kansas	Lyon County, Kansas
Kansas	Marion County, Kansas
Kansas	McPherson County, Kansas
Kansas	Miami County, Kansas
Kansas	Mitchell County, Kansas
Kansas	Montgomery County, Kansas
Kansas	Nemaha County, Kansas
Kansas	Neosho County, Kansas
Kansas	Ness County, Kansas
Kansas	Norton County, Kansas
Kansas	Osage County, Kansas
Kansas	Republic County, Kansas
Kansas	Riley County, Kansas
Kansas	Rush County, Kansas
Kansas	Saline County, Kansas
Kansas	Sedgwick County, Kansas
Kansas	Shawnee County, Kansas
Kansas	Sherman County, Kansas
Kansas	Smith County, Kansas
Kansas	Summer County, Kansas
Kansas	Trego County, Kansas
Kansas	Washington County, Kansas
Kansas	Wichita County, Kansas
Kansas	Wilson County, Kansas
Kansas	Wyandotte County, Kansas
Kentucky	Breathitt County, Kentucky
Kentucky	Clay County, Kentucky
Kentucky	Clinton County, Kentucky
Kentucky	Elliott County, Kentucky
Kentucky	Floyd County, Kentucky
Kentucky	Jackson County, Kentucky
Kentucky	Jefferson County, Kentucky
Kentucky	Johnson County, Kentucky
Kentucky	Knott County, Kentucky
Kentucky	Knox County, Kentucky
Kentucky	Laurel County, Kentucky
Kentucky	Lee County, Kentucky
Kentucky	Leslie County, Kentucky
Kentucky	Letcher County, Kentucky
Kentucky	Madison County, Kentucky
Kentucky	Magoffin County, Kentucky
Kentucky	Martin County, Kentucky

Kentucky	Menifee County, Kentucky
Kentucky	Morgan County, Kentucky
Kentucky	Pendleton County, Kentucky
Kentucky	Powell County, Kentucky
Kentucky	Rockcastle County, Kentucky
Kentucky	Wolfe County, Kentucky
Maine	State of Maine
Maryland	Allegany County, Maryland
Maryland	Anne Arundel County, Maryland
Maryland	Baltimore County, Maryland
Maryland	Calvert County, Maryland
Maryland	Caroline County, Maryland
Maryland	Carroll County, Maryland
Maryland	Cecil County, Maryland
Maryland	Charles County, Maryland
Maryland	Dorchester County, Maryland
Maryland	Frederick County, Maryland
Maryland	Garrett County, Maryland
Maryland	Harford County, Maryland
Maryland	Howard County, Maryland
Maryland	Kent County, Maryland
Maryland	Montgomery County, Maryland
Maryland	Prince Georges County, Maryland
Maryland	Queen Annes County, Maryland
Maryland	Somerset County, Maryland
Maryland	St Mary's County, Maryland
Maryland	Talbot County, Maryland
Maryland	Washington County, Maryland
Maryland	Wicomico County, Maryland
Maryland	Worcester County, Maryland
Mississippi	DeSoto County, Mississippi
Mississippi	Harrison County, Mississippi
Mississippi	Hinds County, Mississippi
Mississippi	Lauderdale County, Mississippi
Mississippi	Lee County, Mississippi
Mississippi	Madison County, Mississippi
Mississippi	Neshoba County, Mississippi
Mississippi	Newton County, Mississippi
Mississippi	Panola County, Mississippi
Mississippi	Pearl River County, Mississippi
Mississippi	Winston County, Mississippi
Mississippi	Yalobusha County, Mississippi
Missouri	Boone County, Missouri
Missouri	Cooper County, Missouri
Missouri	Greene County, Missouri
Missouri	Johnson County, Missouri

Missouri	Kansas City, City of, Missouri
Missouri	Laclede County, Missouri
Missouri	Lincoln County, Missouri
Missouri	Macon County, Missouri
Missouri	Vernon County, Missouri
Montana	Beaverhead County, Montana
Montana	Big Horn County, Montana
Montana	Blair County, Montana
Montana	Broadwater County, Montana
Montana	Carbon County, Montana
Montana	Carter County, Montana
Montana	Cascade County, Montana
Montana	Chouteau County, Montana
Montana	Custer County, Montana
Montana	Daniels County, Montana
Montana	Dawson County, Montana
Montana	Deer Lodege County, Montana
Montana	Fallon County, Montana
Montana	Fergus County, Montana
Montana	Flathead County, Montana
Montana	Gallatin County, Montana
Montana	Garfield County, Montana
Montana	Glacier County, Montana
Montana	Golden Valley County, Montana
Montana	Granite County, Montana
Montana	Hill County, Montana
Montana	Jefferson County, Montana
Montana	Judith Basin County, Montana
Montana	Lake County, Montana
Montana	Lewis and Clark County, Montana
Montana	Liberty County, Montana
Montana	Lincoln County, Montana
Montana	Madison County, Montana
Montana	McCone County, Montana
Montana	Meagher County, Montana
Montana	Mineral County, Montana
Montana	Missoula County, Montana
Montana	Musselshell County, Montana
Montana	Park County, Montana
Montana	Petroleum County, Montana
Montana	Phillips County, Montana
Montana	Pondera County, Montana
Montana	Powder River County, Montana
Montana	Powell County, Montana
Montana	Prairie County, Montana
Montana	Ravalli County, Montana

Montana	Richland County, Montana
Montana	Roosevelt County, Montana
Montana	Rosebud County, Montana
Montana	Sanders County, Montana
Montana	Sheridan County, Montana
Montana	Silver Bow County, Montana
Montana	Stillwater County, Montana
Montana	Sweet Grass County, Montana
Montana	Teton County, Montana
Montana	Toole County, Montana
Montana	Treasure County, Montana
Montana	Valley County, Montana
Montana	Wheatland County, Montana
Montana	Wilbaux County, Montana
Montana	Yellowstone County, Montana
Nebraska	Adams County, Nebraska
Nebraska	Antelope County, Nebraska
Nebraska	Arthur County, Nebraska
Nebraska	Banner County, Nebraska
Nebraska	Blaine County, Nebraska
Nebraska	Boone County, Nebraska
Nebraska	Box Butte County, Nebraska
Nebraska	Boyd County, Nebraska
Nebraska	Brown County, Nebraska
Nebraska	Buffalo County, Nebraska
Nebraska	Burt County, Nebraska
Nebraska	Butler County, Nebraska
Nebraska	Cass County, Nebraska
Nebraska	Cedar County, Nebraska
Nebraska	Chase County, Nebraska
Nebraska	Cherry County, Nebraska
Nebraska	Cheyenne County, Nebraska
Nebraska	Clay County, Nebraska
Nebraska	Colfax County, Nebraska
Nebraska	Custer County, Nebraska
Nebraska	Dakota County, Nebraska
Nebraska	Dawes County, Nebraska
Nebraska	Dawson County, Nebraska
Nebraska	Deuel County, Nebraska
Nebraska	Dixon County, Nebraska
Nebraska	Dodge County, Nebraska
Nebraska	Douglas County, Nebraska
Nebraska	Dundy County, Nebraska
Nebraska	Fillmore County, Nebraska
Nebraska	Franklin County, Nebraska
Nebraska	Frontier County, Nebraska

Nebraska	Furnas County, Nebraska
Nebraska	Gage County, Nebraska
Nebraska	Garden County, Nebraska
Nebraska	Garfield County, Nebraska
Nebraska	Gosper County, Nebraska
Nebraska	Grant County, Nebraska
Nebraska	Greeley County, Nebraska
Nebraska	Hall County, Nebraska
Nebraska	Hamilton County, Nebraska
Nebraska	Harlan County, Nebraska
Nebraska	Hayes County, Nebraska
Nebraska	Hitchcock County, Nebraska
Nebraska	Holt County, Nebraska
Nebraska	Hooker County, Nebraska
Nebraska	Howard County, Nebraska
Nebraska	Jefferson County, Nebraska
Nebraska	Johnson County, Nebraska
Nebraska	Kearney County, Nebraska
Nebraska	Keith County, Nebraska
Nebraska	Keya Paha County, Nebraska
Nebraska	Kimball County, Nebraska
Nebraska	Knox County, Nebraska
Nebraska	Lancaster County, Nebraska
Nebraska	Lincoln County, Nebraska
Nebraska	Loup County, Nebraska
Nebraska	Madison County, Nebraska
Nebraska	McPherson County, Nebraska
Nebraska	Merrick County, Nebraska
Nebraska	Morrill County, Nebraska
Nebraska	Nance County, Nebraska
Nebraska	Nemaha County, Nebraska
Nebraska	Nuckolls County, Nebraska
Nebraska	Otoe County, Nebraska
Nebraska	Pawnee County, Nebraska
Nebraska	Perkins County, Nebraska
Nebraska	Phelps County, Nebraska
Nebraska	Pierce County, Nebraska
Nebraska	Platte County, Nebraska
Nebraska	Polk County, Nebraska
Nebraska	Red Willow County, Nebraska
Nebraska	Richardson County, Nebraska
Nebraska	Rock County, Nebraska
Nebraska	Saline County, Nebraska
Nebraska	Sarpy County, Nebraska
Nebraska	Saunders County, Nebraska
Nebraska	Scotts Bluff County, Nebraska

Nebraska	Seward County, Nebraska
Nebraska	Sheridan County, Nebraska
Nebraska	Sherman County, Nebraska
Nebraska	Sioux County, Nebraska
Nebraska	Stanton County, Nebraska
Nebraska	Thayer County, Nebraska
Nebraska	Thomas County, Nebraska
Nebraska	Thurston County, Nebraska
Nebraska	Valley County, Nebraska
Nebraska	Washington County, Nebraska
Nebraska	Wayne County, Nebraska
Nebraska	Webster County, Nebraska
Nebraska	Wheeler County, Nebraska
Nebraska	York County, Nebraska
Nevada	Carson City County, Nevada
New Jersey	Atlantic County, New Jersey
New Jersey	Gloucester County, New Jersey
New Jersey	Union County, New Jersey
New Jersey	Warren County, New Jersey
North Carolina	Alamance County, North Carolina
North Carolina	Ashe County, North Carolina
North Carolina	Buncombe County, North Carolina
North Carolina	Burke County, North Carolina
North Carolina	Catawba County, North Carolina
North Carolina	Cherokee County, North Carolina
North Carolina	Davidson County, North Carolina
North Carolina	Davie County, North Carolina
North Carolina	Edgecombe County, North Carolina
North Carolina	Forsyth County, North Carolina
North Carolina	Guildford County, Northa Carolina
North Carolina	Haywood County, North Carolina
North Carolina	Henderson County, North Carolina
North Carolina	Jackson County, North Carolina
North Carolina	Lenoir County, North Carolina
North Carolina	Mecklenburg County, North Carolina
North Carolina	New Hanover County, North Carolina
North Carolina	Northhampton County, North Carolina
North Carolina	Pamlico County, North Carolina
North Carolina	Pender County, North Carolina
North Carolina	Perquimans County, North Carolina
North Carolina	Polk County, North Carolina
North Carolina	Rutherford County, North Carolina
North Carolina	Stokes County, North Carolina
North Carolina	Surry County, North Carolina
North Carolina	Transylvania County, North Carolina
North Carolina	Warren County, North Carolina

North Carolina	Wayne County, North Carolina
North Dakota	Adams County, North Dakota
North Dakota	Barnes County, North Dakota
North Dakota	Benson County, North Dakota
North Dakota	Billings County, North Dakota
North Dakota	Bottineau County, North Dakota
North Dakota	Bowman County, North Dakota
North Dakota	Burke County, North Dakota
North Dakota	Burleigh County, North Dakota
North Dakota	Cass County, North Dakota
North Dakota	Cavalier County, North Dakota
North Dakota	Dickey County, North Dakota
North Dakota	Divide County, North Dakota
North Dakota	Dunn County, North Dakota
North Dakota	Eddy County, North Dakota
North Dakota	Emmons County, North Dakota
North Dakota	Foster County, North Dakota
North Dakota	Golden Valley County, North Dakota
North Dakota	Grand Forks County, North Dakota
North Dakota	Grant County, North Dakota
North Dakota	Griggs County, North Dakota
North Dakota	Hettinger County, North Dakota
North Dakota	Kidder County, North Dakota
North Dakota	Lamoure County, North Dakota
North Dakota	Logan County, North Dakota
North Dakota	McHenry County, North Dakota
North Dakota	McIntosh County, North Dakota
North Dakota	McKenzie County, North Dakota
North Dakota	McLean County, North Dakota
North Dakota	Mercer County, North Dakota
North Dakota	Morton County, North Dakota
North Dakota	Mountrail County, North Dakota
North Dakota	Nelson County, North Dakota
North Dakota	Oliver County, North Dakota
North Dakota	Pembina County, North Dakota
North Dakota	Pierce County, North Dakota
North Dakota	Ramsey County, North Dakota
North Dakota	Ransom County, North Dakota
North Dakota	Renville County, North Dakota
North Dakota	Richland County, North Dakota
North Dakota	Rolette County, North Dakota
North Dakota	Sargent County, North Dakota
North Dakota	Sheridan County, North Dakota
North Dakota	Sioux County, North Dakota
North Dakota	Slope County, North Dakota
North Dakota	Stark County, North Dakota

North Dakota	Steele County, North Dakota
North Dakota	Stutsman County, North Dakota
North Dakota	Towner County, North Dakota
North Dakota	Traill County, North Dakota
North Dakota	Walsh County, North Dakota
North Dakota	Ward County, North Dakota
North Dakota	Wells County, North Dakota
North Dakota	Williams County, North Dakota
Ohio	Allen County, Ohio
Ohio	Ashtabula County, Ohio
Ohio	Athens County, Ohio
Ohio	Auglaize County, Ohio
Ohio	Clermont County, Ohio
Ohio	Columbiana County, Ohio
Ohio	Coshocton County, Ohio
Ohio	Crawford County, Ohio
Ohio	Cuyahoga County, Ohio
Ohio	Darke County, Ohio
Ohio	Erie County, Ohio
Ohio	Fayette County, Ohio
Ohio	Franklin County, Ohio
Ohio	Geauga County, Ohio
Ohio	Henry County, Ohio
Ohio	Knox County, Ohio
Ohio	Lake County, Ohio
Ohio	Lawrence County, Ohio
Ohio	Licking County, Ohio
Ohio	Logan County, Ohio
Ohio	Lorain County, Ohio
Ohio	Lucas County, Ohio
Ohio	Madison County, Ohio
Ohio	Mahoning County, Ohio
Ohio	Medina County, Ohio
Ohio	Meigs County, Ohio
Ohio	Mercer County, Ohio
Ohio	Monroe County, Ohio
Ohio	Montgomery County, Ohio
Ohio	Morgan County, Ohio
Ohio	Noble County, Ohio
Ohio	Ottawa County, Ohio
Ohio	Paulding County, Ohio
Ohio	Pickaway County, Ohio
Ohio	Portage County, Ohio
Ohio	Preble County, Ohio
Ohio	Putnam County, Ohio
Ohio	Ross County, Ohio

Ohio	Sandusky County, Ohio
Ohio	Seneca County, Ohio
Ohio	Shelby County, Ohio
Ohio	Summit County, Ohio
Ohio	Trumbull County, Ohio
Ohio	Tuscarawas County, Ohio
Ohio	Van Wert County, Ohio
Ohio	Vinton County, Ohio
Ohio	Wyandot County, Ohio
Oregon	Baker County, Oregon
Oregon	Benton County, Oregon
Oregon	Clatsop County, Oregon
Oregon	Columbia County, Oregon
Oregon	Gilliam County, Oregon
Oregon	Hood River County, Oregon
Oregon	Jefferson County, Oregon
Oregon	Lane County, Oregon
Oregon	Lincoln County, Oregon
Oregon	Morrow County, Oregon
Oregon	Polk County, Oregon
Oregon	Sherman County, Oregon
Oregon	Tillamook County, Oregon
Oregon	Umatilla County, Oregon
Oregon	Union County, Oregon
Pennsylvania	Adams County, Pennsylvania
Pennsylvania	Allegheny County, Pennsylvania
Pennsylvania	Beaver County, Pennsylvania
Pennsylvania	Berks County, Pennsylvania
Pennsylvania	Butler County, Pennsylvania
Pennsylvania	Cameron County, Pennsylvania
Pennsylvania	Centre County, Pennsylvania
Pennsylvania	Chester County, Pennsylvania
Pennsylvania	Clearfield County, Pennsylvania
Pennsylvania	Clinton County, Pennsylvania
Pennsylvania	Elk County, Pennsylvania
Pennsylvania	Forest County, Pennsylvania
Pennsylvania	Franklin County, Pennsylvania
Pennsylvania	Greene County, Pennsylvania
Pennsylvania	Huntingdon County, Pennsylvania
Pennsylvania	Indiana County, Pennsylvania
Pennsylvania	Juniata County, Pennsylvania
Pennsylvania	Lackawanna County, Pennsylvania
Pennsylvania	Lawrence County, Pennsylvania
Pennsylvania	Lebanon County, Pennsylvania
Pennsylvania	Lehigh County, Pennsylvania
Pennsylvania	Mckean County, Pennsylvania

Pennsylvania	Mifflin County, Pennsylvania
Pennsylvania	Montour County, Pennsylvania
Pennsylvania	Northampton County, Pennsylvania
Pennsylvania	Northumberland County, Pennsylvania
Pennsylvania	Philadelphia, City of, Pennsylvania
Pennsylvania	Potter County, Pennsylvania
Pennsylvania	Schuylkill County, Pennsylvania
Pennsylvania	Snyder County, Pennsylvania
Pennsylvania	Somerset County, Pennsylvania
Pennsylvania	Tioga County, Pennsylvania
Pennsylvania	Venango County, Pennsylvania
Pennsylvania	Washington County, Pennsylvania
South Carolina	Abbeville County, South Carolina
South Carolina	Aiken County, South Carolina
South Carolina	Allendale County, South Carolina
South Carolina	Anderson County, South Carolina
South Carolina	Bamberg County, South Carolina
South Carolina	Barnwell County, South Carolina
South Carolina	Beaufort County, South Carolina
South Carolina	Berkeley County, South Carolina
South Carolina	Calhoun County, South Carolina
South Carolina	Charleston County, South Carolina
South Carolina	Cherokee County, South Carolina
South Carolina	Chester County, South Carolina
South Carolina	Chesterfield County, South Carolina
South Carolina	Clarendon County, South Carolina
South Carolina	Colleton County, South Carolina
South Carolina	Darlington County, South Carolina
South Carolina	Dillon County, South Carolina
South Carolina	Dorchester County, South Carolina
South Carolina	Edgefield County, South Carolina
South Carolina	Fairfield County, South Carolina
South Carolina	Florence County, South Carolina
South Carolina	Georgetown County, South Carolina
South Carolina	Greenville County, South Carolina
South Carolina	Greenwood County, South Carolina
South Carolina	Hampton County, South Carolina
South Carolina	Horry County, South Carolina
South Carolina	Jasper County, South Carolina
South Carolina	Kershaw County, South Carolina
South Carolina	Lancaster County, South Carolina
South Carolina	Laurens County, South Carolina
South Carolina	Lee County, South Carolina
South Carolina	Lexington County, South Carolina
South Carolina	Marion County, South Carolina
South Carolina	Marlboro County, South Carolina

South Carolina	McCormick County, South Carolina
South Carolina	Newberry County, South Carolina
South Carolina	Oconee County, South Carolina
South Carolina	Orangeburg County, South Carolina
South Carolina	Pickens County, South Carolina
South Carolina	Richland County, South Carolina
South Carolina	Saluda County, South Carolina
South Carolina	Spartanburg County, South Carolina
South Carolina	Sumter County, South Carolina
South Carolina	Union County, South Carolina
South Carolina	Williamsburg County, South Carolina
South Carolina	York County, South Carolina
South Dakota	Aurora County, South Dakota
South Dakota	Beadle County, South Dakota
South Dakota	Bennett County, South Dakota
South Dakota	Bon Homme County, South Dakota
South Dakota	Brookings County, South Dakota
South Dakota	Brown County, South Dakota
South Dakota	Brule County, South Dakota
South Dakota	Buffalo County, South Dakota
South Dakota	Butte County, South Dakota
South Dakota	Campbell County, South Dakota
South Dakota	Charles Mix County, South Dakota
South Dakota	Clark County, South Dakota
South Dakota	Clay County, South Dakota
South Dakota	Codington County, South Dakota
South Dakota	Corson County, South Dakota
South Dakota	Custer County, South Dakota
South Dakota	Davison County, South Dakota
South Dakota	Day County, South Dakota
South Dakota	Deuel County, South Dakota
South Dakota	Dewey County, South Dakota
South Dakota	Douglas County, South Dakota
South Dakota	Edmunds County, South Dakota
South Dakota	Fall River County, South Dakota
South Dakota	Faulk County, South Dakota
South Dakota	Grant County, South Dakota
South Dakota	Gregory County, South Dakota
South Dakota	Haakon County, South Dakota
South Dakota	Hamlin County, South Dakota
South Dakota	Hand County, South Dakota
South Dakota	Hanson County, South Dakota
South Dakota	Harding County, South Dakota
South Dakota	Hughes County, South Dakota
South Dakota	Hutchinson County, South Dakota
South Dakota	Hyde County, South Dakota

South Dakota	Jackson County, South Dakota
South Dakota	Jerauld County, South Dakota
South Dakota	Jones Coutny, South Dakota
South Dakota	Kingsbury County, South Dakota
South Dakota	Lake County, South Dakota
South Dakota	Lawrence County, South Dakota
South Dakota	Lincoln County, South Dakota
South Dakota	Lyman County, South Dakota
South Dakota	Marshall County, South Dakota
South Dakota	McCook County, South Dakota
South Dakota	McPherson County, South Dakota
South Dakota	Meade County, South Dakota
South Dakota	Mellette County, South Dakota
South Dakota	Miner County, South Dakota
South Dakota	Minnehaha County, South Dakota
South Dakota	Moody County, South Dakota
South Dakota	Oglala Lakota County, South Dakota
South Dakota	Pennington County, South Dakota
South Dakota	Perkins County, South Dakota
South Dakota	Potter County, South Dakota
South Dakota	Roberts County, South Dakota
South Dakota	Sanborn County, South Dakota
South Dakota	Spink County, South Dakota
South Dakota	Stanley County, South Dakota
South Dakota	Sully County, South Dakota
South Dakota	Todd County, South Dakota
South Dakota	Tripp County, South Dakota
South Dakota	Turner County, South Dakota
South Dakota	Union County, South Dakota
South Dakota	Walworth County, South Dakota
South Dakota	Yankton County, South Dakota
South Dakota	Ziebach County, South Dakota
Tennessee	Chester County, Tennessee
Tennessee	Coffee County, Tennessee
Tennessee	Davidson County, Tennessee
Tennessee	Decatur County, Tennessee
Tennessee	Greene County, Tennessee
Tennessee	Hardin County, Tennessee
Tennessee	Houston County, Tennessee
Tennessee	Lincoln County, Tennessee
Tennessee	Loudon County, Tennessee
Tennessee	McNairy County, Tennessee
Tennessee	Moore County, Tennessee
Tennessee	Pickett County, Tennessee
Tennessee	Sevier County, Tennessee
Tennessee	Stewart County, Tennessee

Tennessee	Weakley County, Tennessee
Tennessee	Wilson County, Tennessee
Texas	Andrews County, Texas
Texas	Angelina County, Texas
Texas	Atascosa County, Texas
Texas	Austin County, Texas
Texas	Bastrop County, Texas
Texas	Bell County, Texas
Texas	Bexar County, Texas
Texas	Blanco County, Texas
Texas	Bosque County, Texas
Texas	Bowie County, Texas
Texas	Brewster County, Texas
Texas	Briscoe County, Texas
Texas	Caldwell County, Texas
Texas	Cameron County, Texas
Texas	Carson County, Texas
Texas	Childress County, Texas
Texas	Clay County, Texas
Texas	Cochran County, Texas
Texas	Coleman County, Texas
Texas	Collin County, Texas
Texas	Colorado County, Texas
Texas	Cooke County, Texas
Texas	Crane County, Texas
Texas	Dallas County, Texas
Texas	El Paso County, Texas
Texas	Ellis County, Texas
Texas	Erath County, Texas
Texas	Fayette County, Texas
Texas	Franklin County, Texas
Texas	Gonzales County, Texas
Texas	Grayson County, Texas
Texas	Guadalupe County, Texas
Texas	Hemphill County, Texas
Texas	Henderson County, Texas
Texas	Hockley County, Texas
Texas	Howard County, Texas
Texas	Hutchinson County, Texas
Texas	Jackson County, Texas
Texas	Jasper County, Texas
Texas	Kaufman County, Texas
Texas	Kinney County, Texas
Texas	Knox County, Texas
Texas	Lamb County, Texas
Texas	Midland County, Texas

Texas	Montague County, Texas
Texas	Moore County, Texas
Texas	Navarro County, Texas
Texas	Nolan County, Texas
Texas	Ochiltree County, Texas
Texas	Oldham County, Texas
Texas	Orange County, Texas
Texas	Parmer County, Texas
Texas	Pecos County, Texas
Texas	Presidio County, Texas
Texas	Real County, Texas
Texas	Robertson County, Texas
Texas	Rockwall County, Texas
Texas	Rusk County, Texas
Texas	Sherman County, Texas
Texas	Smith County, Texas
Texas	Starr County, Texas
Texas	Sutton County, Texas
Texas	Travis County, Texas
Texas	Tyler County, Texas
Texas	Upton County, Texas
Texas	Walker County, Texas
Texas	Washington County, Texas
Texas	Wharton County, Texas
Texas	Williamson County, Texas
Texas	Yoakum County, Texas
Utah	Box Elder County, Utah
Utah	Cache County, Utah
Utah	Carbon County, Utah
Utah	Daggett County, Utah
Utah	Davis County, Utah
Utah	Duchesne County, Utah
Utah	Emery County, Utah
Utah	Garfield County, Utah
Utah	Grand County, Utah
Utah	Iron County, Utah
Utah	Juab County, Utah
Utah	Kane County, Utah
Utah	Millard County, Utah
Utah	Morgan County, Utah
Utah	Piute County, Utah
Utah	Rich County, Utah
Utah	San Juan County, Utah
Utah	Sanpete County, Utah
Utah	Sevier County, Utah
Utah	Summit County, Utah

Utah	Tooele County, Utah
Utah	Uintah County, Utah
Utah	Utah County, Utah
Utah	Wasatch County, Utah
Utah	Washington County, Utah
Utah	Wayne County, Utah
Utah	Weber County, Utah
Washington	Adams County, Washington
Washington	Jefferson County, Washington
Washington	Pend Oreille County, Washington
Washington	Spokane County, Washington
Washington	Thurston County, Washington
Washington	Wahkiakum County, Washington
Washington	Walla Walla County, Washington
Washington	Whitman County, Washington
West Virginia	Barbour County, West Virginia
West Virginia	Boone County, West Virginia
West Virginia	Braxton County, West Virginia
West Virginia	Brooke County, West Virginia
West Virginia	Cabell County, West Virginia
West Virginia	Calhoun County, West Virginia
West Virginia	Clay County, West Virginia
West Virginia	Doddridge County, West Virginia
West Virginia	Fayette County, West Virginia
West Virginia	Gilmer County, West Virginia
West Virginia	Grant County, West Virginia
West Virginia	Greenbrier County, West Virginia
West Virginia	Hampshire County, West Virginia
West Virginia	Hancock County, West Virginia
West Virginia	Hardy County, West Virginia
West Virginia	Harrison County, West Virginia
West Virginia	Jackson County, West Virginia
West Virginia	Jefferson County, West Virginia
West Virginia	Kanawha County, West Virginia
West Virginia	Lewis County, West Virginia
West Virginia	Lincoln County, West Virginia
West Virginia	Logan County, West Virginia
West Virginia	Marion County, West Virginia
West Virginia	Marshall County, West Virginia
West Virginia	Mason County, West Virginia
West Virginia	McDowell County, West Virginia
West Virginia	Mercer County, West Virginia
West Virginia	Mineral County, West Virginia
West Virginia	Mingo County, West Virginia
West Virginia	Monongalia County, West Virginia
West Virginia	Monroe County, West Virginia

West Virginia	Nicholas County, West Virginia
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West Virginia	Pocahontas County, West Virginia
West Virginia	Preston County, West Virginia
West Virginia	Putnam County, West Virginia
West Virginia	Raleigh County, West Virginia
West Virginia	Randolph County, West Virginia
West Virginia	Ritchie County, West Virginia
West Virginia	Roane County, West Virginia
West Virginia	Summers County, West Virginia
West Virginia	Taylor County, West Virginia
West Virginia	Tucker County, West Virginia
West Virginia	Tyler County, West Virginia
West Virginia	Upshur County, West Virginia
West Virginia	Wayne County, West Virginia
West Virginia	Webster County, West Virginia
West Virginia	Wetzel County, West Virginia
West Virginia	Wirt County, West Virginia
West Virginia	Wood County, West Virginia
West Virginia	Wyoming County, West Virginia
Wisconsin	La Crosse County, Wisconsin
Wisconsin	Lincoln County, Wisconsin
Wisconsin	Wood County, Wisconsin
Wyoming	Albany County, Wyoming
Wyoming	Big Horn County, Wyoming
Wyoming	Campbell County, Wyoming
Wyoming	Carbon County, Wyoming
Wyoming	Converse County, Wyoming
Wyoming	Crook County, Wyoming
Wyoming	Fremont County, Wyoming
Wyoming	Goshen County, Wyoming
Wyoming	Hot Springs County, Wyoming
Wyoming	Johnson County, Wyoming
Wyoming	Laramie County, Wyoming
Wyoming	Lincoln County, Wyoming
Wyoming	Natrona County, Wyoming
Wyoming	Niobrara County, Wyoming
Wyoming	Park County, Wyoming
Wyoming	Platte County, Wyoming
Wyoming	Sheridan County, Wyoming
Wyoming	Sublette County, Wyoming
Wyoming	Sweetwater County, Wyoming
Wyoming	Teton County, Wyoming
Wyoming	Uinta County, Wyoming

Wyoming	Washakie County, Wyoming
Wyoming	Weston County, Wyoming
Virgin Islands (US)	St Croix, Virgin Islands

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U. S. ELECTION ASSISTANCE COMMISSION
VOTING SYSTEM TESTING AND CERTIFICATION PROGRAM
1335 East West Highway, Suite 4300
Silver Spring, MD 20910

June 23, 2020 **Sent via e-mail**

Pamela Geppert, Director of Certification & Proposals
Hart Intercivic
15500 Wells Port Drive
Austin, TX 78728

Approval of Verity Voting 2.5 Voting System Testing Application Package

Dear Mrs. Geppert,

The U.S. Election Assistance Commission (EAC) completed the review of the application package for the Hart InterCivic Verity Voting 2.5 voting system. The application was accepted and assigned the following unique application number: HRT-Verity-2.5 .

Hart InterCivic selected SLI Compliance as the lead VSTL for this testing engagement and testing will be conducted to the VVSG 1.0. If the system meets the criteria for a grant of certification, the system will be assigned the number "**HRT-Verity-2.5**" per your request on the application form (EAC-002C).

The Certification Program assigned Eugene Burton as Project Manager to oversee this testing engagement. The goal of the Project Manager is to facilitate the communication between EAC staff (including Technical Reviewers), manufacturer, and VSTL to optimize the efficiency of the certification process. The Project Manager will monitor the voting system throughout its life cycle in the Certification Program, and ensure the process meets the requirements of the Certification Program's manuals.

The contact information for this Project Manager is:

- Name: Eugene Burton, Senior Election Technology Specialist
- Email: eburton@eac.gov
- Phone: (202) 868-1608

The EAC may at any time utilize additional technical reviewers to assist in the review of test plans, test cases, and test reports. All communications with the technical reviewers shall be facilitated through the Project Manager.

Finally, we strongly encourage you to regularly visit the EAC's Web site (www.eac.gov) for the latest Notices of Interpretation and Clarification, news, program manuals, and updates. The exact location of this information is: http://www.eac.gov/program-areas/voting-systems. The information contained in the Notices of Interpretation and Clarification is critical to understanding testing standards and program requirements. It is a manufacturer's responsibility to ensure they adhere to all procedural requirements of the program.

If you have any questions or need further information about this matter, please do not hesitate to contact us at your earliest convenience. We thank you in advance for your cooperation in this matter.

Sincerely,

Jerome Lovato
Director, Voting System Testing and Certification

Configuration Management

Process

Authorized for public release. Copyright© 2018, Hart InterCivic, Inc.	**Hart InterCivic**	
	Part Number: 1001074	REV: D.01
	Part Name: Configuration Management Process	
	PDF File Name: Configuration Management Process 1001074 D01.pdf	Page 1 of 7

Change History

Version	Date	Author	Description
A	12/6/06	Hart InterCivic	Initial draft
B	3/15/07	Hart InterCivic	Updated the “Proprietary and Confidential” statement
B.01	2/19/2013	Hart InterCivic	Added links to terms and definitions Added SharePoint as the project repository
D.00	11/13/2014	Hart InterCivic	TDP Discrepancy update Update to current Document Control Process
D.01	07/12/2018	Hart InterCivic	Update document title from “Configuration Management Processes” to “Configuration Management Process” Clarifications to section 3.4: Change Control regarding voting system control policies

Table of Contents

1 INTRODUCTION 4
2 SCOPE 4
3 CONFIGURATION MANAGEMENT 4
3.1 General Requirements 4
3.2 Configuration Management Processes Overview 5
3.3 Design Control 5
3.4 Change Control 6
3.5 Implementation Control 7
4 APPENDIX 7
4.1 Glossary and Terms 7

1 INTRODUCTION

Hart InterCivic designs, develops, integrates, and oversees the contract manufacture of government solutions, including records and election management applications, election systems software and hardware products that improve, or make possible, cost effective government processes.

CONFIGURATION MANAGEMENT PROCESS is a summary and guide to the various practices embedded in other Hart procedures. For a guide to all Hart Product Realization, Production and Implementation processes, see the QUALITY MANUAL.

2 SCOPE

Hart Intercivic applies configuration management across many company functions to ensure that:

- Design intent is documented
- Documented designs are produced
- Products are delivered, installed and updated as intended

3 CONFIGURATION MANAGEMENT

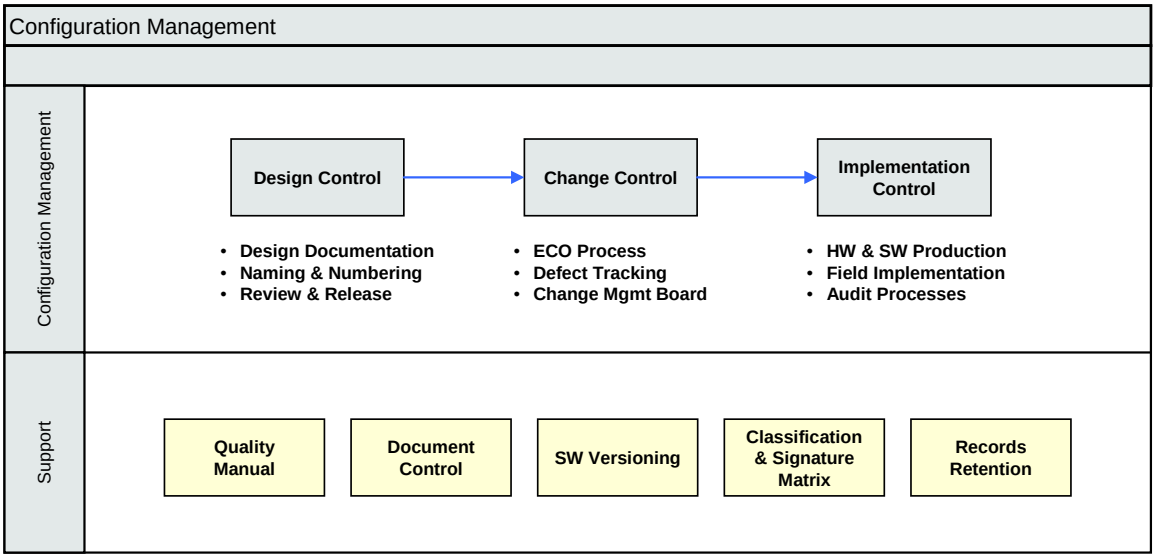
3.1 General Requirements

CONFIGURATION MANAGEMENT PROCESS is a summary and guide to the various practices embedded in other Hart procedures. For a guide to all Hart Product Realization and Production processes, see the QUALITY MANUAL.

Hart Configuration Management Procedures apply to all Voting System components, including: Hardware, software and documentation. Products, subsystems and component levels are managed by these procedures as well as internally defined and third party components.

There are three main areas of Configuration Management: Design Control, Change Control and Implementation Control.

3.2 Configuration Management Processes Overview



3.3 Design Control

Hart's inventions of products are managed at several levels. PROJECT PLANNING and PRODUCT REQUIREMENTS processes define the scope, schedule and resource investments intended. Hart engineering processes, HARDWARE DESIGN AND DEVELOPMENT and SOFTWARE DESIGN AND DEVELOPMENT, have specific controls for the naming, numbering, tracking and documentation of all designs.

These procedures utilize naming and numbering conventions for parts and assemblies that ensure that all designs and associated documentation have unique identifiers. All components and assemblies are assigned unique part numbers with revision numbers that must change if the design is changed. General rules for numbering documents and parts can be found in the DOCUMENT CONTROL PROCEDURE. Software version numbering is defined in the SOFTWARE VERSIONING PROCEDURE. Engineering information for designs in process is stored in the SHAREPOINT DESIGN FILES (OR DESIGN HISTORY FILE). Documentation for products and designs that have been released outside of Hart are controlled and stored by Hart's Product Lifecycle Management system.

Input for these processes come from a variety of sources but all issues are gathered into Hart's issue tracking system, aka Hart Support Online. This system gathers information on defects and tracks defect resolution.

In addition, Hart design and development processes require engineering peer review and review and approval by management of the design input documentation required to describe and document all Voting System components. The DOCUMENT CONTROL PROCEDURE establishes these requirements, and is supported by the CLASSIFICATION AND SIGNATURE MATRIX and RECORDS RETENTION MATRIX.

3.4 Change Control

Software version numbering, as defined in the SOFTWARE VERSIONING PROCEDURE, is documented for purposes of tracing, supporting, and maintaining software.

A voting system is identified by a parent VOTING SYSTEM NAME (e.g., “Hart Voting System,” or “Verity Voting.”) Components of a voting system include complementary hardware devices and software applications, with associated COTS products. Changes to the version number following a VOTING SYSTEM NAME indicate trackable changes to the hardware, software, or firmware applicable to that modified revision of that particular voting system.

Broader determinations of voting system change control are prompted by customer requirements, product requirements, and certification requirements, and are made by the Product Management team. Such determinations include product roadmap commitments, end-of-support, and end-of-life which ultimately lead to the decision to modify an existing voting system or to launch a new voting system.

The following guidelines are applicable for voting system designations for an EAC certification exercise and have been defined to be consistent with *EAC Voting System Testing and Certification Program Manual* requirements.

De minimis change	A change to the hardware, software, firmware, TDP, or data of a certified voting system that will not materially alter the system’s reliability, functionality, capability, or operation.
Modification	A change to the hardware, software, or firmware of a previously certified voting system that is not classified as a de minimis change and that is resubmitted for certification to the same voting system standard to which it was certified prior to the change.
New voting system	A voting system, identified by parent VOTING SYSTEM NAME, that has not been previously tested to any standard or that has not been previously EAC certified to the voting system standard that is requested for certification.

Taken together, the design control and change control procedures direct product realization and certification. After modified systems or new systems are certified by applicable federal or state authorities, they are released to external entities.

Once released to external entities (suppliers, customers, etc.), The HARDWARE DESIGN AND DEVELOPMENT and SOFTWARE DESIGN AND DEVELOPMENT procedures require formal engineering change order (ECO) processes to make changes to components, systems or documentation. All changes to certified products are additionally subject to the requirements of the certification standard and applicable Program Manual.

For large projects once product requirements have been reviewed and signed off, these product requirements will be entered in to the Quality Assurance management tool; once entered into this tool, the requirements are managed in the QA tool.

Depending on their magnitude, changes are planned and managed by Hart personnel under the direction of Hart Change Control Boards (CCBs). All changes must be reviewed and approved by a level of management as defined in the CLASSIFICATION AND SIGNATURE MATRIX.

3.5 Implementation Control

Documented product designs are produced in the factory as defined by the SUPPLIER QUALIFICATION AND MANAGEMENT and SOFTWARE PRODUCTION procedures. These procedures are established to enable control of the configuration of all hardware and software produced by Hart and its subcontractors. Hart has established procedures to monitor the work of any contract manufacturers (CM) engaged to build Hart product.

Purchased product is installed and implemented by Hart according to the VOTING SYSTEM IMPLEMENTATION AND MAINTENANCE process document. This process covers all field installation, implementation and customer acceptance testing of new product as well as corresponding upgrades of existing customer product.

Per Election Assistance Commission (EAC) process requirements, Hart has methods to enable Hart, customer and regulatory agency confirmation of proper configuration at any time before or after election activities.

4 APPENDIX

4.1 Glossary and Terms

Reference documents on SharePoint

Glossary – http://intranet/engineering/Templates/Voting%20Systems%20Glossary.docx

Terms – http://intranet/engineering/Templates/Voting%20Systems%20Acronyms.docx

Continual Improvement

Process

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HART INTERCIVIC	
Part Number: 1000550	REV: E.02
Part Name: Continual Improvement Process	
PDF File Name: Continual Improvement Process 1000550 E02.pdf	Page 1 of 7

Change History

Version	Date	Author	Description
1	8/15/06	MB	Initial Draft
2	9/06/06	MB	Revision
3	9/18/06	KK	Revision to provide more guidance
A	10/6/06	KK	Initial Release
B	1/5/07	KK	Revised Preventive Action Procedure and flow chart; fix typos.
C	3/15/07	AR	Updated the “Proprietary and Confidential” statement
D	3/21/07	KK	Updated to include ISMS
E	08/17/2012	TWF	Update to current processes
E.01	2/20/2013	Hart InterCivic	Update to current revision process Clarified the CAR and PAR common process, these were redundant processes with different names
E.02	5/19/2015	Hart InterCivic	Update for new Doc Control Process, file naming convention

Table of Contents

1 PURPOSE 4
2 INFORMATIVE REFERENCES 4
3 FLOW CHART 4
4 CORECTIVE AND PREVENTATIVE ACTION PROCESSES 4
4.1 CR Initiation Stage 4
4.1.1 Initiate Stage - Steps 5
4.2 CR Acknowledgment 5
4.3 CR Investigation 5
4.4 CR Implementation 6
4.5 CR Verification 6
4.6 CR Validation 6
4.6.1 Response to Third Parties 6
5 SUPPORT PROCESSES INSTRUCTIONS 7
5.1 Customer Complaints 7

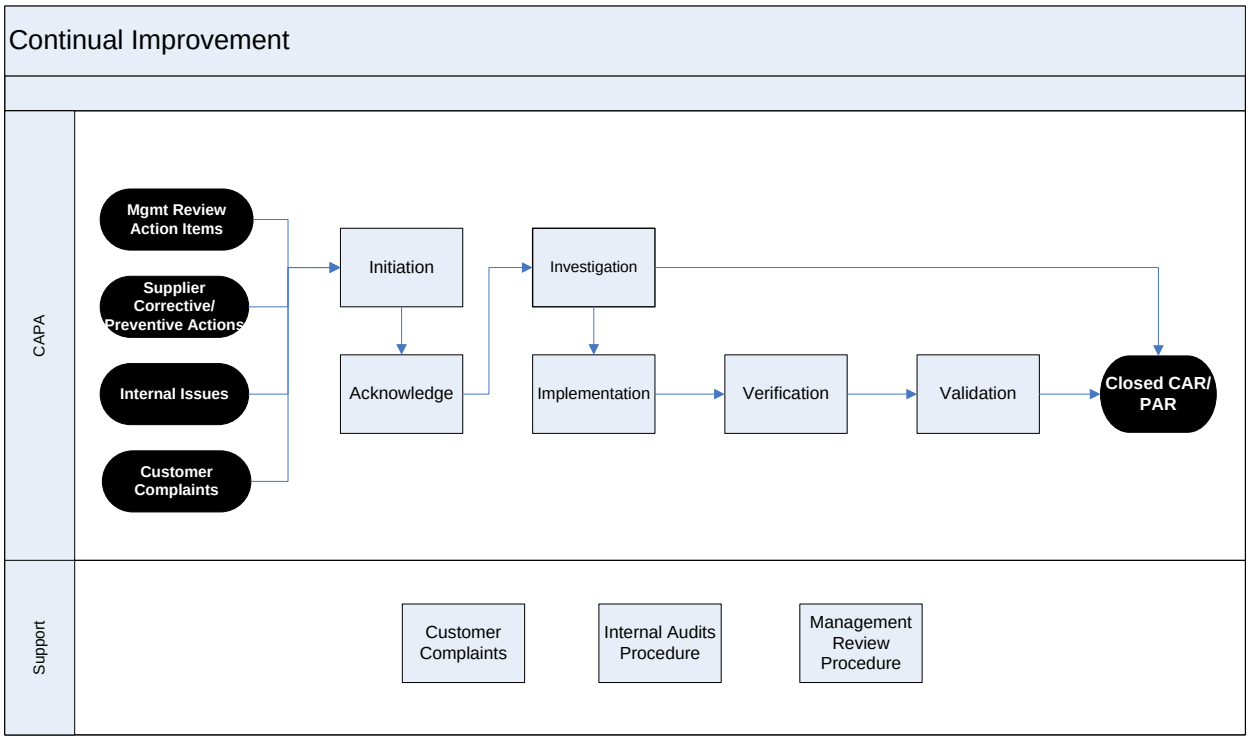
1 PURPOSE

To describe the process by which Hart InterCivic's Quality Management System considers every problem, such as systemic problems or opportunities for improvement, audit findings, etc. to ensure that the problem is identified, investigated and prevented from reoccurring.

2 INFORMATIVE REFERENCES

- ISO9001:2000 8.5 Improvement
- ISO27001:2005 8.1 Continual Improvement
- ISO27001:2005 8.2 Corrective Action
- ISO27001:2005 8.3 Preventive Action

3 FLOW CHART



4 CORECTIVE AND PREVENTATIVE ACTION PROCESSES

4.1 CR Initiation Stage

A Corrective Action Request or a Preventive Action Request in the form of a Change Request (CR) may be requested by any employee as a result of an internal findings, customer findings, or supplier issues. A CR is submitted in to Change Control Board via Agile (or current PLM system). Sources for a CR may be any of the following, but not limited to:

- Action Items derived from a Management Review Meeting
- Supplier non-conformances

- Major service non-conformances
- Significant trends (or recurrence) of minor service non-conformances
- Recurring problems with a process or work operation
- Goals for the measurable quality objectives are not achieved
- Major information security non-conformances
- Significant trends (or recurrence) of information security non-conformances
- Previous corrective or preventive actions are found to be ineffective
- Hart Support Online (HSO) entry for customer identified product issues

4.1.1 Initiate Stage - Steps

Once logged into the Agile, the document control application software, the next steps must be followed:

a. Right click and select New from the pop-up window
b. Select QMS from the Object List *
c. Click on the button "123". This will assign the QMS number and open the form
d. Fill out the entire cover page of the form:
    a. Effected Product Line(s) – select all appropriate items
    b. select “Change Request” for Document Category
    c. provide enough detail to assure that the issue is completely understandable and why the change is needed.
e. Click on Save
f. Click on the Next Status Button to submit the CR to the CCB.
g. Select OK

When the request is complete, the system forwards an email to the CCB for notification.

* If this option is not available on the New Object list, then access to this module has not been granted. Please contact the Agile administrator for further instructions.

4.2 CR Acknowledgment

The Change Control Board (CCB) receives an email prompting them about the new CR. Their job is to assign the CR to the appropriate individual(s) for investigation using the steps below:

a. Go to the Sign Off tab and click on the Next Step button
b. Select Approver(s) for investigation *
c. Select Observer(s) if desired
d. Click on the Route button to submit the CR to the Approver(s).
e. Select OK

When the acknowledgement is complete, the system forwards an email to the Approver(s) for notification.

* Approvers can be persons suggested by the CR originator, the Department Manager or the Process owner. This person will then assign the appropriate resource to investigate the corrective/preventative action.

4.3 CR Investigation

The investigation stage deals with finding the root cause of the problem and devising short and long term action plans. Once logged into the Agile with the CR open, the next steps must be followed:

a. Fill out the Investigation page.
b. *Fill out the Root Cause Analysis
c. Define and enter Short Term Actions required.
d. Define and enter Long Term Actions required.
e. Determine the Implementation Date
f. Click the Approve button

**If root cause analysis indicates that changes to the item called out in the QMS are required to resolve the issue, then an ECO request is generated.*

In Agile:

h. Right click and select New from the pop-up window
*i. Select ECO from the Object List **
j. Click on the button "123". This will assign the ECO number and open the form
k. Fill out the entire cover page of the form:
  a. effected product line(s)
  b. document type and category, also
  c. reference the QMS # and provide enough detail to assure that the issue is completely understandable and why the change is needed.
l. Click on Save
m. Click on the Next Status Button to submit the CR to the CCB.
n. Select OK

4.4 CR Implementation

Once short term and long term goals are entered, an implementation date must be selected before moving on to the next step. Once the implementation date is selected, the Next Step button will route the CR to the CCB for notification.

4.5 CR Verification

After the Investigation/Implementation steps have been completed, the CCB will forward the results to the Process Owner or Department Manager. Process Owners or Department Manager will then follow up to determine that the proposed short term and long term actions have been carried out. Results of this analysis will be entered into the appropriate section and then the Verification Status will be approved by the Process Owner or Department Manager.

4.6 CR Validation

The CCB will confirm that the original problem has not reoccurred. Validation is typically done three months after CR Verification; however each case may be different. Results of this analysis will be entered into the appropriate section and then the Validation Status will approved by the CCB.

4.6.1 Response to Third Parties

The person who initiated a third party CR is responsible for communicating and reporting back to the third party regarding the outcome and conclusion of the CR.

5 SUPPORT PROCESSES INSTRUCTIONS

5.1 Customer Complaints

Customer complaints are collected by the field teams and logged into Hart Support Online (HSO). They are then triaged, and if required submitted to engineering for root cause analysis. If an appropriate resolution cannot be identified, the issue is submitted to program management for evaluation to deem if a Change Request (CR) is required. Proposed action is then communicated to Hart Customer Services to pass along the customer.

Control of Nonconforming Product

Procedure

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	Part Number: 1000657	REV: B.02
	Part Name: Control of Nonconforming Product Procedure	
	PDF File Name: Control of Nonconforming Product Procedure 1000657 B02.pdf	PAGE 1 OF 7

Change History

Version	Date	Author	Description
A	11/21/06	JW	Initial Release
B	3/15/07	AR	Updated the “Proprietary and Confidential” statement
B.01	3/6/2013	Hart InterCivic	Updated document style/format Change Naming and Versioning conventions to current processes Removed references to “Colorado Engineering”
B.02	5/19/2015	Hart InterCivic	Update for new Doc Control Process, file naming convention

Table of Contents

1 PURPOSE 4
2 INFORMATIVE REFRERENCES 4
3 ASSOCIATED DOCUMENTS 4
4 ORIGINATION OF PRODUCT FOR EVALUATION 4
4.1 Customer Owned Product 4
4.2 Hart owned Product 4
4.3 New Product at Contract Manufacturer (CM) 4
4.4 Hart Supplied Material to CM 4
5 REQUEST FOR RETURN MATERIAL AUTHORIZATION (RMA) 5
5.1 General 5
5.2 Customer Owned or Hart Owned Product for Evaluation 5
5.3 Product Evaluation from Contract Manufacturer 6
5.4 Product RMA Record 6
5.4.1 Customer or Hart Owned Product 6
5.4.2 Product from CM 7
5.5 Product Evaluation and Communication 7
6 EVALUATION RESPONSE TIME 7
7 PRODUCT RETURN 7

1 PURPOSE

The purpose of this procedure is to define requirements pertaining to the control of product nonconformance and guidelines for reporting and handling of product returns shipped to Hart InterCivic for engineering evaluation.

2 INFORMATIVE REFRERENCES

- ISO9001:2000 8.3 Control of nonconforming product

3 ASSOCIATED DOCUMENTS

- Procedure – Debit Return of Hart Supplied Material
- RMA - Customer Product Tracking, Spreadsheet
- RMA - CM Product Tracking, Spreadsheet

4 ORIGINATION OF PRODUCT FOR EVALUATION

4.1 Customer Owned Product

Customer owned Hart InterCivic (Hart) product is reported as failing or exhibiting an unusual condition that has not been resolved through verbal customer service support or by on site account manager and needs technical evaluation of unit by Hart Engineering.

4.2 Hart owned Product

Hart owned product at a customer site or Hart facility that is reported as failing or exhibiting an unusual condition that has not been resolved through verbal customer service support, product support or by on site account manager and needs technical evaluation of unit by Engineering.

4.3 New Product at Contract Manufacturer (CM)

Request for engineering evaluation of new product built by Contract Manufacturer that either did not pass initial or final test and was not resolved by other test criteria provided by Hart.

4.4 Hart Supplied Material to CM

Control of nonconforming material located at CM that was originally provided by Hart for production use is managed through an RMA process for return of discrepant raw material or assemblies in Procedure – Debit Return of Hart Supplied Material and is not a part of this document.

5 REQUEST FOR RETURN MATERIAL AUTHORIZATION (RMA)

5.1 General

RMA requests to return product to Hart for engineering evaluation will be managed through use of the Product Evaluation form (RMA form) and will include an RMA number assigned by the RMA Coordinator. This is a required formal request for product return and will serve as a documented summary record of the evaluation performed.

5.2 Customer Owned or Hart Owned Product for Evaluation

Prior to requesting an RMA number, the product issue shall be entered into the HartSupport Online (HSO) program and will include documented attempts to resolve the issue noted through support from Customer Service, Product support, Account Manager, Application Engineer or other applicable Hart personnel.

An RMA request for product evaluation by Engineering will be approved for an open HSO case with an assigned ID number and after review and approval by the Applications Engineer. After receipt of the RMA form, and copy of the HSO Issue report, an RMA number and name of the evaluation owner will be provided to the case originator by the RMA Coordinator.

On receipt in Engineering, product will be logged as received and moved directly into the locked cage area and the evaluation owner notified of the receipt. The RMA number may be highlighted or marked in a larger format for quick location of shipment.

Product arriving without an assigned RMA number (or other form of control such as a Purchase Order number) visible on the external shipping carton or on the Packing List will be marked as Quarantined and moved into the locked cage area until required processes are followed for an RMA or other shipment type is identified and routed appropriately.

To obtain an RMA number the following information is needed on the RMA form.

- HSO Issue ID #
- Originator
- Account Manager
- Product Name, Qty, Serial Number
- Customer Name
- Contact Person, phone, fax, e-mail
- Issue reported (Summary)
- Hart Evaluation / Instruction (Summary)
- Return shipment name and location

At the time of shipment to Hart the Freight carrier and Tracking number shall be provided via e-mail or fax to the RMA Coordinator. On return shipment the intended recipient will be provided the Freight carrier and Tracking number.

5.3 Product Evaluation from Contract Manufacturer

In the event, that new product produced by CM exhibits an error or anomaly that has not been resolved by standard methods, Engineering evaluation may be requested.

To enable product shipment, an RMA number shall be requested from the RMA Coordinator by either Supply Chain Manager, Responsible Engineer, directly from CM or other involved party as long as there is advance knowledge and agreement from Engineering. With issuance of an RMA number, the evaluation owner will be assigned. The RMA number shall be visible on the external shipping carton.

On arrival in Engineering, the product receipt will be documented on the *RMA – CM Product Tracking* spreadsheet; shipment will be secured in the locked cage area and the evaluation owner notified of the receipt. The RMA number will be highlighted or marked in larger format on the external packaging for quick location of shipment.

Product shipped from CM will be charged to the Engineering account and credited on return of the product to CM. Engineering holds right of return of the product to CM.

5.4 Product RMA Record

Product RMA records are maintained on spreadsheets located on the drive <hart intranet>\\Control_DB\RMA Tracking folder under their respective file names provided in this section and Section 3, Associated Documents.

5.4.1 Customer or Hart Owned Product

On receipt of product in engineering, the RMA Coordinator will document the product receipt in file *RMA- Customer Product Tracking.* The RMA form will be used for case recording by the evaluation owner, updated with evaluation summary, final disposition, and date. A copy of the evaluation record will also be maintained according to the Records Retention Matrix.

It is the evaluation owner's responsibility to maintain security of the product during the evaluation process and to return unit(s) to the locked cage area when not in use.

5.4.2 Product from CM

A summary case record only of the product evaluation will be maintained in file *RMA - CM Product Tracking* spreadsheet.

5.5 Product Evaluation and Communication

Once product is logged on arrival, regardless of source (Customer, Hart or CM), the evaluation engineer identified on the RMA form is notified of product arrival. Any material leaving the locked cage area will be logged out by the responsible engineer by signing out the product on the Sign Out/In Log. The Engineer will evaluate the product nonconforming information against the product specification to determine product disposition. After evaluation, the engineer will communicate the next steps to the case originator and what appropriate actions will be taken to address the product issue(s). Any RMA controlled product checked out for evaluation will then be returned to the locked cage area and signed back in on the Log. Until final resolution is defined, product will reside in the locked cage.

Once product issue has been resolved, the RMA form will be updated by the Engineer with a summary of the evaluation results, final disposition, disposition date, Formal Report number, as applicable.

6 EVALUATION RESPONSE TIME

Product returned to Engineering through the RMA process will be reviewed for issue noted balanced against current resource work load to determine evaluation response time. If it is determined that additional time is needed to address the product issue, the RMA Coordinator will notify the case originator of the potential delay in return and will document that on the RMA form.

In the event a controlled Formal Report is required the completion date will be agreed between the product evaluator and the case originator and documented on the RMA form.

7 PRODUCT RETURN

After resolution of the product issue, completion of the RMA form evaluation elements and any other associated documentation deemed appropriate, the product will be shipped to the location provided on the RMA form. At the time of shipment the return date, ship method and tracking number will be added to the RMA form. The completed RMA form will be included with the product return and a copy shall be maintained per the Record Retention Matrix.

Document Control

Procedure

This document is authorized for public release. Copyright © 2002-2015, Hart InterCivic, Inc.	**Hart InterCivic**	
	Part Number: 1000538	REV: E.05
	Part Name: Document Control Procedure	
	PDF File Name: Document Control Procedure 1000538 E05.pdf	Page 1 of 12

Change History

Version	Date	Author	Description
1	7/12/06	Hart InterCivic	Initial Draft
2	9/05/06	Hart InterCivic	Revision
3	9/19/06	Hart InterCivic	Revision
A	10/6/06	Hart InterCivic	Initial Release
B	3/15/07	Hart InterCivic	Updated the “Proprietary and Confidential” statement
C	3/21/07	Hart InterCivic	Updated to include ISMS
D	08/17/2012	Hart InterCivic	Update to current processes
E.00	12/05/2012	Hart InterCivic	Corrected description of page Header content Added Minor Revision Numbering definition Used Minor Revision Numbering Move Software Versioning reference Document Release
E.01.01	02/05/2013	Hart InterCivic	Extended versioning by adding pre-release version definition, this benefits author during document creation Added Product Documentation Control reference
E.01	03/14/2013	Hart InterCivic	Document Release
E.02	11/13/2014	Hart InterCivic	TDP Discrepancy update
E.03	15Jan2015	Hart InterCivic	TDP Discrepancy update, added Product Branding section
E.04	10Feb2015	Hart InterCivic	TDP Discrepancy update, added Agile description section
E.05	5/19/2015	Hart InterCivic	Update for new Doc Control Process, file naming convention

Table of Contents

1 PURPOSE 4
2 INFORMATIVE REFERENCES 4
3 DOCUMENTATION FLOW CHART 4
4 ENGINEERING CHANGE ORDER PROCESSES 4
4.1.1 Internal/Informal Design Documents 5
4.1.2 Product Life Cycle Management software 5
4.1.3 Product Branding 5
4.1.4 Part Number & Revision 5
4.1.5 Minimum Format Requirements 6
4.1.6 File naming conventions 7
4.1.7 New Product Development (NPD) Pre-Release Documents 8
4.1.8 Document/Item Control 8
4.2 Engineering Change Order Initiation 8
4.3 Change Analyst 9
4.4 Change Control Board (CCB) 10
4.5 Observers and Notification Persons 10
4.6 Document/Item Change Release 10
4.6.1 Product Related Change Implementation 11
5 SUPPORT PROCESSES INSTRUCTIONS 11
5.1 Change Request 11
5.2 Deviations 11
5.3 Obsolete Documents 11
5.4 Documents of External Origin 11
5.5 Software Package Release 12
5.6 Product Documentation 12

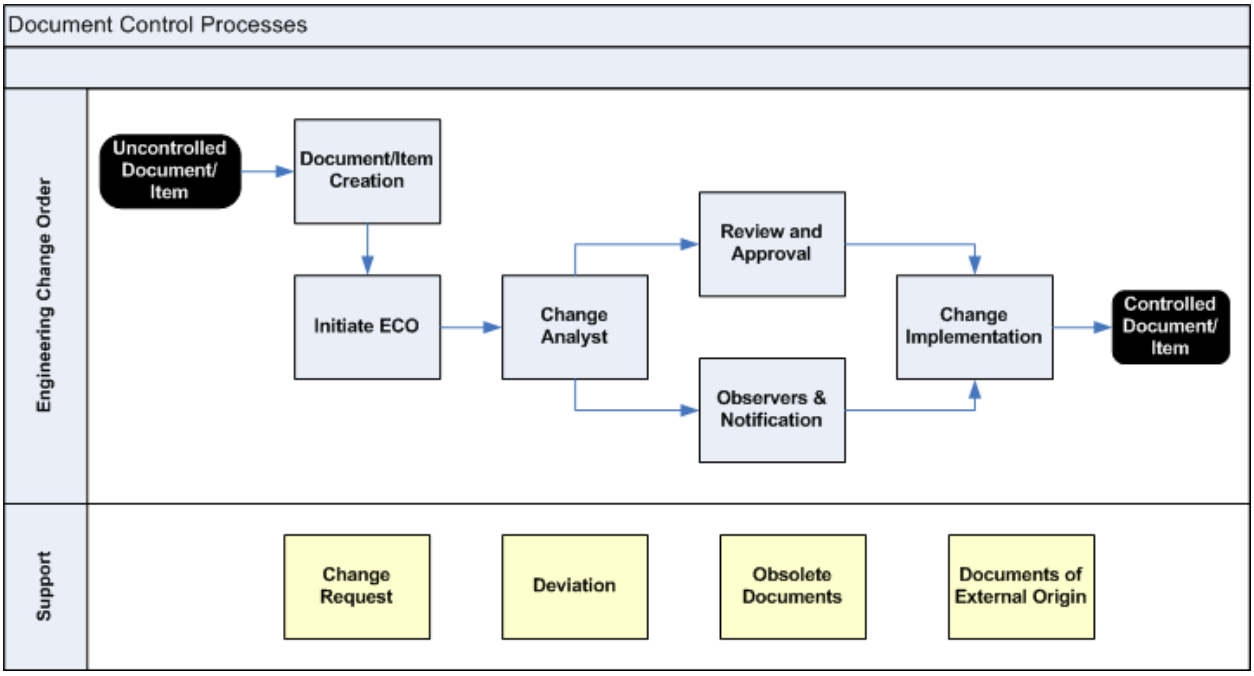
1 PURPOSE

Define the processes for Documentation Control and items that require reviews, approval, and revision control.

2 INFORMATIVE REFERENCES

- ISO9001:2000 4.2.3 Control of Documents
- ISO27001:2005 4.3.2 Control of Documents

3 DOCUMENTATION FLOW CHART



Processes with red background depict outsourced processes.

4 ENGINEERING CHANGE ORDER PROCESSES

Documents outlined in this process may describe hardware, software, licensed materials, user documentation, user manuals, and operating procedures.
Not all of Hart documentation is required to be versioned or released, this will depend on intended use and the need to formally control the document, many design documents are maintained in a revision control system and will not need versioning on the document itself due to the fact that the revision control system will provide this functionality.

4.1.1 Internal/Informal Design Documents

During the development process there will be many documents that are generated to capture ideas, concepts, and points of discussion; these documents are intended to bring clarity during the design phase of the development and are not necessarily formal in nature. These documents shall not be required to follow the formal document control process, but it is required that these documents are retained in a source control repository (SCR) such as SVN, GIT, or CVS. By using a SCR for these informal documents, all change history to a design document can be tracked. These informal documents shall not be required to have document numbers or revision numbers associated with them, in the manner that formal documents are required. It is suggested the document number be N/R and the revsion number be initials or name of the source control repository.

4.1.2 Product Life Cycle Management software

Hart has implemented Oracle's **Agile** Product Lifecycle Management to enable strategic management of the complete lifecycle of a product: from the ideation phase to recycling and retirement of a product.

Agile is a server based product that is licensed from Oracle, installed by Oracle, and maintained by Hart's IT Department.

Agile URL: http://agile.hartis.com/
Agile Version: AWS.2006.2.680.0
Agile Documentation: Hart IT Department

4.1.3 Product Branding

Product branding is a Product Management and Marketing function. There are no governing rules for the naming or branding of the product, but typically reflects the product's family and the products functionality.

When assigning documentation numbers associated with specific product brands, the correct product brand shall be selected (see 4.1.6.d).

4.1.4 Part Number & Revision

New documents/items are automatically assigned an item number or manually assigned an item number based (i.e. to allow for documents to be grouped by product line). When the document/item is added to the Document Control Application Software. The initial release of a document/item is revision A.00. Modified document/item requires an incremental rise in the major revision letter or the minor revision number depending on the modification, <Major>.<Minor>.

> **Major** - modification to the document's design, structure, or adding/deleting functional descriptions described by the content.

Minor - modification to the document's description that does not change the functionality of the item being described by the document, but adds clarity/robustness to the existing description.

Pre-Release – prior to a <Major>.<Minor>.<PR> release of a document, the author should consider using a third number appended to the "to be released" version for tracking changes during document development. Pre-Release versions of the document can be used for document reviews, allowing the author to get feedback and integrating suggested changes prior to document release.

If the document being modified is currently released as version A.01 and the author is making a series minor modifications the author should use a numbering system to allow the tracking of the series of changes for the future release of A.02, thus modification tracking in the documents "change log" should look similar to this –

E.00	12/05/2012	TW Farley	Corrected description of page Header content Added Minor Revision Numbering definition Used Minor Revision Numbering Move Software Versioning reference Document Release
E.01.01	02/05/2013	TW Farley	Extended versioning by adding pre-release version definition, this benefits author during document creation Added Product Documentation Control reference
E.01	03/14/2013	Hart InterCivic	Document Release

At the time of release the "pre-release" numbers will be dropped from the document and it will be released as A.02 in this example.

4.1.5 Minimum Format Requirements

Minimum requirements for QMS and ISMS documents are:

a. Include a cover page that contains the:
   - Hart InterCivic Logo
   - Document Title
   - If needed, a Confidentiality Statement
   - Current Copyright date

b. Include a header on each page that contains the:
    - Item/Document Number in the upper left block
        a. Document numbers only need to be in one location Header or Footer
    - Revision letter in the upper right block
    - Document Title center block
    - PDF file name bottom left block
    - Page count bottom right block

c. Include a footer on each page that contains the:
    - Part number left (alternative, Header centered)
        a. Part numbers only need to be in one location Header or Footer
    - Document Security Classification (centered in Footer Section)
        a. If required, Confidential & Proprietary centered
    - Page number out of the total number of pages

d. Documents, such as Quality Manual, Security Manual and Procedures shall also have a Change Table table with the following fields:
    - Date of change
    - Revision
    - Author
    - Description of change

4.1.6 File naming conventions

It is strongly suggested that document naming conventions include the title of the document as listed in the Title Block, Document (Agile Item) Number, and Revision (excluding any dot(period) from the revision number).

For source files such as Word documents, the file name for the Word file should be the Document Title.

Example: Document Control Procedure
Document<*sp*>Control<*sp*>Procedure
Title: Document Control Procedure
Item Number: 1000538 (or 1000-538)
Revision: D.01 (shown as D01, no dot (period))
File name: Document Control Procedure.doc

PDF files created from source documents must have a PDF file name that includes the Document Title, Item Number, and Revision. The file name in the documents title block must reflect this file name format.

Example: Document Control Procedure – 1000538 D01
Document<*sp*>Control<*sp*>Procedure<*sp*>– <*sp*>1000538<*sp*>D01
Title: Document Control Procedure

Item Number: 1000538 (or 1000-538)
Revision: D.01 (shown as D01, no dot (period))
PDF File name: Document Control Procedure 1000538 D01.pdf

4.1.7 New Product Development (NPD) Pre-Release Documents

Pre-release documents developed during the NPD process are controlled with numeric revisions prior to formal release. The Project Manager maintains these documents in the SharePoint Project Repository

Pre-release software is controlled according to software versioning procedure.

4.1.8 Document/Item Control

Once the document/item has been reviewed by the appropriate team members, it can be transferred into Agile (or current Product Life-cycle Management (PLM) application).

The following steps are required:

a. Right click and select New from the pop-up window
b. Select type of object from the Object List
c. The Part Number may be automatically generated by clicking on the button "123" or the operator can manually enter a predefined number. This will assign the Part Number and open the form
d. Fill out the entire title block page of the form, including the type, category and the description of the item
e. Enter in all pertinent information on page two (if applicable)
f. On the BOM tab enter all corresponding items that fall under the assigned Part Number
g. Add Manufacturers (as applicable)
h. Attach the item details – include design documents and specifications
i. Click on Save
j. Initiate the Engineering Change Order Process

4.2 Engineering Change Order Initiation

Anyone in the organization with access to Agile (or the current Product Lifecycle Management tool) may request an Engineering Change Order (ECO). The ECO creator considers how the changes affect other documents and whether design, production or processes are affected. All potential impacts of the change should be thought through prior to assigning an ECO.

The following steps are required:

a. Open the item that will be revised
b. Right-click and select “new change” and determine the type of change
c. Click the “123” button to assign a number and open the form

d. Assign the Change Analyst
e. Assign the workflow
f. Define the Reason Code
g. Enter the Description of Change – A summary of the changes made to the original item that should include the specific product or processes affected by the change. If changes are too extensive to provide a brief summary, a “Read Me” file will be attached to the ECO to provide detailed account of the changes.
h. Enter the Reason for Change – An account of the purpose, objective and rationale for the change(s), as well as information on required timing for implementation.
i. Choose Signature Classification for the ECO based on the following Classification Matrix, refer to *I/N 1000418 – Classification Signature Matrix* for more detail

   A = Major changes, initial release of cross-functional controlled materials, visible to customer/external group

   B = Minor changes affecting cross-functional organization, not visible to customer

   C = Minor changes affecting product development or product implementation

   D = Documentation correction

j. Enter the description of the verification and validation steps that have been taken to determine that proposed changes are the proper solution.
   - Attach verification/validation documents, such as Review minutes and Test reports, to ECO attachment tab if appropriate.
k. Note any training that may need to occur – include details on who will require training, who should conduct training and when the training should occur.
l. Define Implementation: Lifecycle phase, effective date & material dispositions
   - Note: for most documentation with possible exception of end-user materials, such as product manuals, the dispositions will be NA.
m. Redline BOM, Manufacturers and attachments (if necessary)
n. Advance the ECO to next status and submit to Document Control Application Software Change Analyst

4.3 Change Analyst

The Change Analyst reviews the ECO and verifies the following:

a. all required fields are filled out per the above requirements
b. verification/validation is correctly entered
c. required supporting documentation is attached
d. attachments are located in the correct places
e. redlines are completed (if applicable)
f. correct signature classification has been assigned

Upon verification of the fields, the Change Analyst assigns Approvers according to the Classification Signature Matrix and routes the ECO for review and approval. The Change Analyst also assigns Observers and Notification persons according to the Classification Signature Matrix.

4.4 Change Control Board (CCB)

Employees assigned as Approvers are the Change Control Board required to review the ECO "package" before it can be released. This review is to ensure the ECO package completeness; it is not intended to be a review of the document content. The document content should be peer reviewed prior to ECO/MCO submission. There is not an order or sequence to the Approver list, each Approver can review the ECO/MCO submission at any time and provide approval or rejection.

All information relating to the change is included:

a. required documentation is attached
b. all attached documents have correct version
c. all attached documents, that require Review & Sign-off, are signed
d. ECO description of changes is correct

If necessary, comments can be made by approvers through Document Control Application Software to the originator. These comments become auditable records in Agile (or the current PLM) history tab. The Approvers have two options:

a. Accept: once the ECO is approved, the creator and Change Analyst are notified
b. Reject: A rejection by an approver will send the ECO back to the pending status. Notification is sent to the members of the CCB, originator and Change Analyst.

Designated Approvers may assign additional (ad hoc) approvers at anytime during the CCB process if the Approver deems broader review is necessary. Only a Change Analyst may remove ad hoc approvers after it has been confirmed that the approver is not required by the Classification Signature Matrix.

4.5 Observers and Notification Persons

Employees assigned as Observers and Notification are not required to approve the ECO, routing is for information only and the ECO cannot be rejected these persons. Comments can be made by Observers and Notification persons through Agile (or the current PLM) to the CCB. These comments become auditable records in Document Control Application Software history tab.

4.6 Document/Item Change Release

Once all Approvers have signed, Agile (or the current PLM) sends an email notification to the Change Analyst. The Change Analyst accepts redlines on documentation (if

applicable) and incorporates (locks) attachments. The Change Analyst also notifies approvers, Observers and Notification persons regarding the release of the ECO.

4.6.1 Product Related Change Implementation

Supply Management is responsible for communicating and coordinating the implementation of product changes with the appropriate affected suppliers and/or manufacturers. Supply Management will work with Document Control to create a complete PDX package of ECO and affected items to be distributed to the appropriate parties (ITA, CM, Suppliers, etc.)

5 SUPPORT PROCESSES INSTRUCTIONS

5.1 Change Request

A Change Request differs from an ECO in that it is a formal suggestion. A Change Request is used when a potential change or improvement needs to be routed for approval. The Change Request is then routed through the appropriate department for approval. If the item is approved, an ECO will then be created. If the potential change or improvement was not accepted by the department representatives the Change Request is canceled.

5.2 Deviations

A Deviation differs from an ECO in that it has a limited effectiveness. When there is a need for a Deviation, it will include both an effective date and an expiration date. A Deviation may be used as a temporary fix for a line-down or emergency situation where product is not conforming. The revision is not changed; instead the Deviation number is marked on the product. With these exceptions, the Deviation procedure is the same as the ECO procedure.

5.3 Obsolete Documents

Obsolete documents and prior revision of documents are stored and maintained on the Agile (or the current PLM) or network. Obsolete documents are marked as such in a lifecycle phase in the Document Control Application Software. Some historical obsolete documents (prior to implementation of the new Document Control System) may also be stored the network. Access is Read-Only.

5.4 Documents of External Origin

External Documents are not controlled through the ECO process, but are retained by Document Control for reference. When possible, electronic versions of External Documents will be maintained on the network. Obsolete External Documents are retained within a separate file location and labeled “OBS” for “Obsolete” as part of the file name. Employees using External Documents must verify the currency of the

document prior to use. External Documents are referenced in internal documents by control number, revision and description, if available.

Supplier and customer documents that form a part of the QMS documentation are maintained as External Documents and are typically named using the reference and revision letter of the supplier or customer document.

5.5 Software Package Release

Refer to the Software Versioning Procedure, Hart I/N 1001070.

After a software release candidate package has been validated and given the approval to is to be released to manufacturing, the RTM source, build process tools and instructions, and RTM compiled software shall be packaged and controlled documents created and released for this software build/release.

5.6 Product Documentation

Refer to the Professional Services documentation that provides guidance for product documentation and user documentation document control processes and naming conventions; these documents can be found in SharePoint:
http://intranet/engineering/Shared Documents/Tech Pubs

Reference Documents for User Documentation
Documentation Process Checklist
Training Product and File Naming Conventions

United States Election Assistance Commission

Certificate of Conformance

Dominion Voting Systems
Democracy Suite 5.5-C

The voting system identified on this certificate has been evaluated at an accredited voting system testing laboratory for conformance to the *Voluntary Voting System Guidelines Version 1.0 (VVSG 1.0)* . Components evaluated for this certification are detailed in the attached Scope of Certification document. This certificate applies only to the specific version and release of the product in its evaluated configuration. The evaluation has been verified by the EAC in accordance with the provisions of the EAC *Voting System Testing and Certification Program Manual* and the conclusions of the testing laboratory in the test report are consistent with the evidence adduced. This certificate is not an endorsement of the product by any agency of the U.S. Government and no warranty of the product is either expressed or implied.

Product Name: Democracy Suite

Model or Version: 5.5-C

Name of VSTL: Pro V&V

EAC Certification Number: DVS-DemSuite5.5-C

Date Issued: July 9, 2020

Mona Harrington

Executive Director

Scope of Certification Attached

Scope of Certification

This document describes the scope of the validation and certification of the system defined above. Any use, configuration changes, revision changes, additions or subtractions from the described system are not included in this evaluation.

Significance of EAC Certification

An EAC certification is an official recognition that a voting system (in a specific configuration or configurations) has been tested to and has met an identified set of Federal voting system standards. An EAC certification is **not**:

- An endorsement of a Manufacturer, voting system, or any of the system's components.
- A Federal warranty of the voting system or any of its components.
- A determination that a voting system, when fielded, will be operated in a manner that meets all HAVA requirements.
- A substitute for State or local certification and testing.
- A determination that the system is ready for use in an election.
- A determination that any particular component of a certified system is itself certified for use outside the certified configuration.

Representation of EAC Certification

Manufacturers may not represent or imply that a voting system is certified unless it has received a Certificate of Conformance for that system. Statements regarding EAC certification in brochures, on Web sites, on displays, and in advertising/sales literature must be made solely in reference to specific systems. Any action by a Manufacturer to suggest EAC endorsement of its product or organization is strictly prohibited and may result in a Manufacturer's suspension or other action pursuant to Federal civil and criminal law.

System Overview:

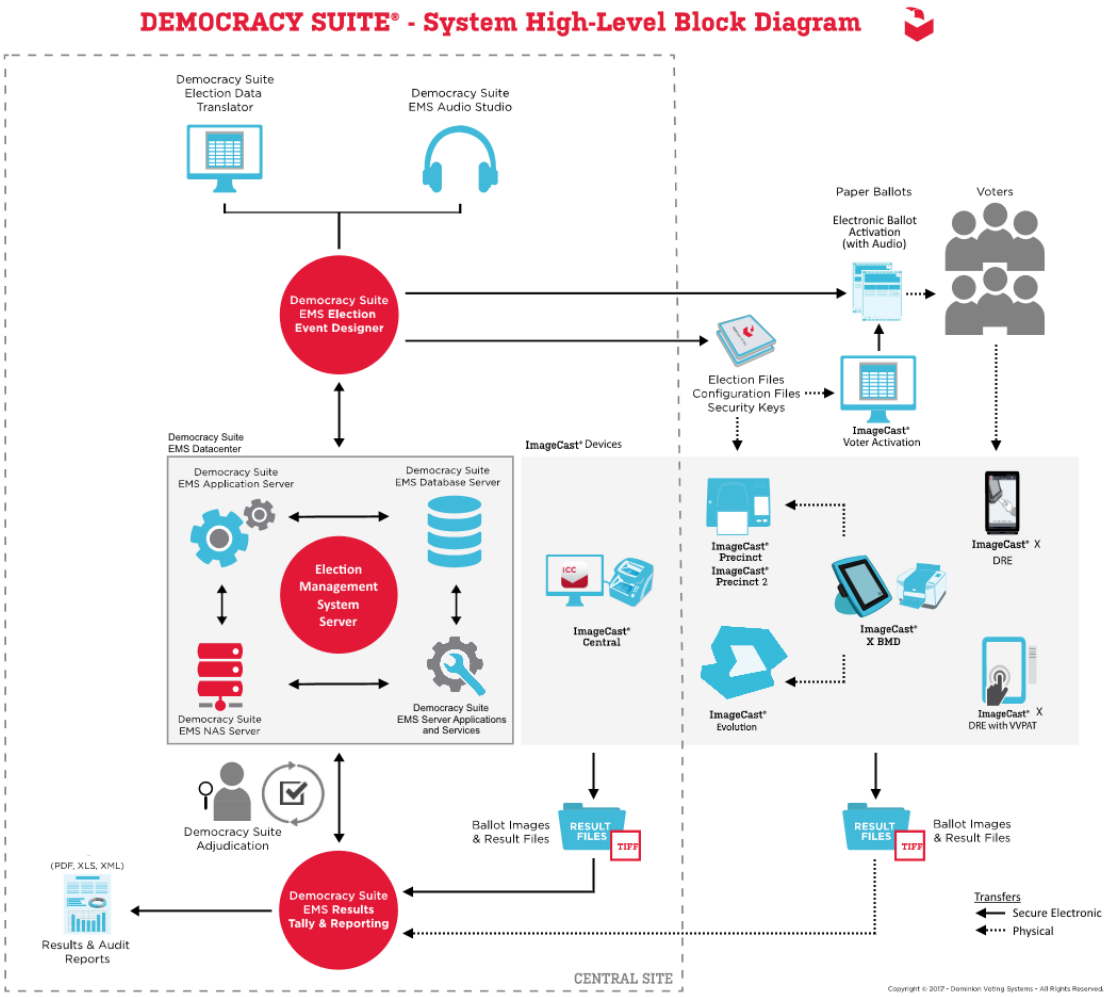
The D-Suite 5.5-C Voting System is a paper-based optical scan voting system with a hybrid paper/DRE option consisting of the following major components: The Election Management System (EMS), the ImageCast Central (ICC), the ImageCast Precinct (ICP and ICP2), the ImageCast Evolution (ICE), the ImageCast X (ICX) DRE w/ Reports Printer, ImageCast X (ICX) DRE w/ voter-verifiable paper audit trail (VVPAT), and the ImageCast X ballot marking device (BMD). The D-Suite 5.5-C Voting System configuration is a modification from the EAC approved D-Suite 5.5-B system configuration.

Language capability:

This section provides information describing the languages supported by the various components of the system.

Language	ICE	ICP	ICP2	ICX
Alaska Native	Yes, if using Latin alphabet	Yes	No	No
Apache	Audio only	Audio only	No	No
Bengali	Yes	Yes	Yes	Yes
Chinese	Yes	Yes	Yes	Yes
English	Yes	Yes	Yes	Yes
Eskimo	Yes, if using Latin alphabet	Yes	No	No
Filipino	Yes, if using Latin alphabet	Yes	Yes	No
French	Yes	Yes	No	Yes
Hindi	Yes	Audio only	Yes	Yes
Japanese	Yes	Yes	Yes	Yes
Jicarilla	Audio only	Audio only	No	No
Keres	Audio only	Audio only	No	No
Khmer	Yes	Audio only	No	No
Korean	Yes	Yes	Yes	Yes
Navajo	Audio only	Audio only	No	No
Seminole	Audio only	Audio only	No	No
Spanish	Yes	Yes	Yes	Yes
Tagalog	No	No	No	Yes
Thai	Yes	Audio only	Yes	Yes
Towa	Audio only	Audio only	No	No
Ute	Audio only	Audio only	No	No
Vietnamese	Yes	Yes	Yes	Yes
Yuman	Audio only	Audio only	No	No

Democracy Suite 5.5-C System Diagram



Components Included:

This section provides information describing the components and revision level of the primary components included in this Certification.

Voting System Software Components:

System Component	Software or Firmware Version	Operating System or COTS	Comments
EMS Election Event Designer (EED)	5.5.40.2	Windows 10 Pro	EMS
EMS Results Tally and Reporting (RTR)	5.5.40.2	Windows 10 Pro	EMS
EMS Application Server	5.5.40.2	Windows Server 2012 R2 Windows 10 Pro	EMS
EMS File System Service (FSS)	5.5.40.2	Window 10 Pro	EMS
EMS Audio Studio (AS)	5.5.40.2	Windows 10 Pro	EMS
EMS Data Center Manager (DCM)	5.5.40.2	Windows Server 2012 R2 Windows 10 Pro	EMS
EMS Election Data Translator (EDT)	5.5.40.2	Windows 10 Pro	EMS
ImageCast Voter Activation (ICVA)	5.5.40.2	Windows 10 Pro	EMS
EMS Adjudication (ADJ)	5.5.40.1	Windows 10 Pro	EMS
EMS Adjudication Services	5.5.40.1	Windows 10 Pro	EMS
Smart Card Helper Service (SCHS)	5.5.40.2	Windows 10 Pro	EMS
Election Firmware	5.5.41.3	uClinux	ICP
Firmware Updater	5.5.41.3	uClinux	ICP
Firmware Extractor	5.5.41.3	uClinux	ICP
Kernel (uClinux)	5.5.41.3	Modified COTS	ICP
Boot Loader (COLILO)	20040221	Modified COTS	ICP
Asymmetric Key Generator	5.5.41.3	uClinux	ICP
Asymmetric Key Exchange Utility	5.5.41.3	uClinux	ICP
Firmware Extractor (Technician Key)	5.5.41.3	uClinux	ICP
ICP2 Application	5.5.2.1	uClinux	ICP2
ICP2 Update Card	5.5.2.1	uClinux	ICP2
Voting Machine	5.5.6.5	Ubuntu Linux	ICE
Election Application	5.5.6.5	Ubuntu Linux	ICE
ImageCast Central Application	5.5.41.0002	Windows 10 Pro	ICC
ICX Application	5.5.15.2	Android 5.1.1 (ICX Prime) Android 4.4.4 (ICX Classic)	ICX

Voting System Platform:

System Component	Version	Operating System or COTS	Comments
Microsoft Windows Server	2012 R2 Standard	Unmodified COTS	EMS Server SW Component
Microsoft Windows	10 Professional	Unmodified COTS	EMS Client/Server SW Component
.NET Framework	3.5	Unmodified COTS	EMS Client/Server SW Component
Microsoft Visual J#	2.0	Unmodified COTS	EMS Client/Server SW Component
Microsoft Visual C++ 2013 Redistributable	2013	Unmodified COTS	EMS Client/Server SW Component
Microsoft Visual C++ 2015 Redistributable	2015	Unmodified COTS	EMS Client/Server SW Component

System Component	Version	Operating System or COTS	Comments
Java Runtime Environment	7u80	Unmodified COTS	EMS Client/Server SW Component
Java Runtime Environment	8u144	Unmodified COTS	EMS Client/Server SW Component
Microsoft SQL Server 2016 Standard	2016 Standard	Unmodified COTS	EMS Client/Server SW Component
Microsoft SQL Server 2016 Service Pack 2	2016 SP1	Unmodified COTS	EMS Client/Server SW Component
Microsoft SQL Server 2016 SP1 Express	2016 SP2	Unmodified COTS	EMS Client/Server SW Component
Cepstral Voices	6.2.3.801	Unmodified COTS	EMS Client/Server SW Component
Arial Narrow Fonts	2.37a	Unmodified COTS	EMS Client/Server SW Component
Maxim iButton Driver	4.05	Unmodified COTS	EMS Client/Server SW Component
Adobe Reader DC	AcrobatDC	Unmodified COTS	EMS Client/Server SW Component
Microsoft Access Database Engine	2010	Unmodified COTS	EMS Client/Server SW Component
Open XML SDK 2.0 for Microsoft Office	2.0	Unmodified COTS	EMS Client/Server SW Component
Infragistics NetAdvantage Win Forms 2011.1	2011 Vol. 1	Unmodified COTS	EMS SW Platform
Infragistics NetAdvantage WPF 2012.1	2012 Vol. 1	Unmodified COTS	EMS SW Platform
TX Text Control Library for .NET	16.0	Unmodified COTS	EMS SW Platform
SOX	14.3.1	Unmodified COTS	EMS SW Platform
NLog	1.0.0.505	Unmodified COTS	EMS SW Platform
iTextSharp	5.0.5	Unmodified COTS	EMS SW Platform
OpenSSL	1.0.2K	Unmodified COTS	EMS SW Platform
OpenSSL FIPS Object Module	2.0.14	Unmodified COTS	EMS SW Platform
SQLite	1.0.103.0	Unmodified COTS	EMS SW Platform
Lame	3.99.4	Unmodified COTS	EMS SW Platform
Speex	1.0.4	Unmodified COTS	EMS SW Platform
Ghostscript	9.04	Unmodified COTS	EMS SW Platform
One Wire API for .NET	4.0.2.0	Unmodified COTS	EMS SW Platform
Avalon-framework-cvs-20020806	20020806	Unmodified COTS	EMS SW Platform
Batik	0.20-5	Unmodified COTS	EMS SW Platform
Fop	0.20-5	Unmodified COTS	EMS SW Platform
Microsoft Visual J# 2.0 Redistributable Package – Second Edition (x64)	2.0	Unmodified COTS	EMS SW Platform
Entity framework	6.1.3	Unmodified COTS	EMS SW Platform
Spreadsheetlight	3.4.3	Unmodified COTS	EMS SW Platform
Open XML SDK 2.0 for Microsoft Office	2.0.5022.0	Unmodified COTS	EMS SW Platform
Open SSL	1.0.2K	Unmodified COTS	ICP
OpenSSL FIPS Object Module	2.0.10	Unmodified COTS	ICP
Zlib	1.2.3	Unmodified COTS	ICP
uClinux	20070130	Modified COTS	ICP
Kernel (Linux)	2.6.30.9-dvs-36	Modified COTS	ICE

System Component	Version	Operating System or COTS	Comments
U-Boot	1.3.4	Modified COTS	ICE
Google Text-to-Speech Engine	3.11.12	Unmodified COTS	ICX SW
Kernel	4.9.11	Modified COTS	ICP2
U-Boot	2017.03	Modified COTS	ICP2
Zxing Barcode Scanner	4.7.5	Modified COTS	ICX SW
SoundTouch	1.9.2	Modified COTS	ICX SW
ICX Prime Android 5.1.1 Image	5.1.1-1.17.3	Modified COTS	ICX SW
ICX Classic Android 4.4.4 Image	0.0.98	Modified COTS	ICX SW
OpenSSL FIPS Object Module	2.0.10 (Cert 2473)	Unmodified COTS	ICX SW Build Library
OpenSSL	1.0.2K	Unmodified COTS	ICC SW Build Library
OpenSSL FIPS Object Module	2.0.10 (Cert 1747)	Unmodified COTS	ICC SW Build Library
1-Wire Driver (x86)	4.05	Unmodified COTS	ICC Runtime SW
1-Wire Driver (x64)	4.05	Unmodified COTS	ICC Runtime SW
Canon DR-G1130 TWAIN Driver	1.2 SP6	Unmodified COTS	ICC Runtime SW
Canon DR-G160II TWAIN Driver	1.2 SP6	Unmodified COTS	ICC Runtime SW
Canon DR-M260 TWAIN Driver,	1.1 SP2	Unmodified COTS	ICC Runtime SW
InoTec HiPro 821 TWAIN Driver	1.2.0.5	Unmodified COTS	ICC Runtime SW
Visual C++ 2013 Redistributable (x86)	12.0.30501	Unmodified COTS	ICC Runtime SW
Machine Configuration File (MCF)	5.5.15.1_20200306	Proprietary	ICX Configuration File
Device Configuration File (DCF)	5.5.41.3_20200507	Proprietary	ICP and ICC Configuration File
ICE Machine Behavior Settings	5.5.6.3_20200415	Proprietary	ICE Configuration
ICP2 Machine Behavior Settings	5.5.2.1_20200415	Proprietary	ICP2 Configuration

Hardware Components:

System Component	Hardware Version	Proprietary or COTS	Comments
ImageCast Precinct (ICP)	PCOS-320C	Proprietary	Precinct Scanner
ImageCast Precinct (ICP)	PCOS-320A	Proprietary	Precinct Scanner
ImageCast 2 Precinct (ICP2)	PCOS-330A	Proprietary	Precinct Scanner
ImageCast Evolution (ICE)	PCOS-410A	Proprietary	Precinct Scanner
ICP Ballot Box	BOX-330A	Proprietary	Ballot Box
ICP Ballot Box	BOX-340C	Proprietary	Ballot Box
ICP Ballot Box	BOX-341C	Proprietary	Ballot Box
ICP Ballot Box	ElectionSource IM-COLLAPSIBLE	Proprietary	Ballot Box
ICE Ballot Box	BOX-410A	Proprietary	Ballot Box
ICE Ballot Box	BOX-420A	Proprietary	Ballot Box
ICP2 Ballot Box	BOX-350A	Proprietary	Ballot Box
ICP2 Ballot Box	BOX-340C	Proprietary	Ballot Box
ICP2 Ballot Box	BOX-341C	Proprietary	Ballot Box
ICP2 Ballot Box	ElectionSource IM-COLLAPSIBLE	Proprietary	Ballot Box
ICX UPS Inline EMI Filter	1.0	Proprietary	EMI Filter
ICX Tablet (Classic)	aValue 15” Tablet (SID-15V)	COTS	Ballot Marking Device
ICX Tablet (Classic)	aValue 21” Tablet (SID-21V)	COTS	Ballot Marking Device
ICX Tablet (Prime)	aValue 21” Tablet (HID-21V) (Steel or Aluminum chassis)	COTS	Ballot Marking Device or Direct Recording Electronic
Thermal Printer	SII RP-D10	COTS	Report Printer

System Component	Hardware Version	Proprietary or COTS	Comments
Thermal Printer (VVPAT)	KFI VRP3 V1 and V1C	COTS	Voter-verifiable paper audit trail (VVPAT)
Server	Dell PowerEdge R620	COTS	Standard Server
Server	Dell PowerEdge R630	COTS	Standard Server
Server	Dell PowerEdge R640	COTS	Standard Server
ICC Workstation HW	Dell Optiplex 5270 All in One	COTS	
ICC Workstation HW	Dell OptiPlex 7440 All in One	COTS	
ICC Workstation HW	Dell OptiPlex 3050 All In One	COTS	
ICC Workstation HW	Dell OptiPlex 9030 All In One	COTS	
ICC Workstation HW	Dell OptiPlex 9020 All In One	COTS	
ICC Workstation HW	Dell OptiPlex 9010 All In One	COTS	
ICC Scanner	Canon imageFormula DR-G1130	COTS	Central Count Scanner
ICC Scanner	Canon imageFormula DR-M160II	COTS	Central Count Scanner
ICC Scanner	Canon imageFormula DR-M260	COTS	Central Count Scanner
ICC Scanner	Canon imageFormula DR-G2140	COTS	Central Count Scanner
ICC Scanner	InoTec HiPro 821	COTS	Central Count Scanner
ICC Scanner	Dell Optiplex 7070	COTS	
ICC Scanner	Dell Optiplex 7060	COTS	
ICC Scanner	Dell Optiplex 7050	COTS	
ICC Scanner Monitor	Lenovo 10QXPAR1US	COTS	
ICC Scanner Monitor	Dell 2418HT Monitor	COTS	
Client Workstation HW and Express Server	Dell Precision 3430	COTS	
Client Workstation HW and Express Server	Dell Precision 3431	COTS	
Client Workstation HW and Express Server	Dell Precision T3420	COTS	
Client Workstation HW	Dell Precision T1700	COTS	
Client Workstation HW	Dell Latitude 3400	COTS	
Client Workstation HW	Dell Latitude 3490	COTS	
Client Workstation HW	Dell Latitude E3480	COTS	
Client Workstation HW	Dell Latitude E3470	COTS	
Client Workstation HW	Dell Latitude E7450	COTS	
ICX Printer	HP LaserJet Pro Printer M402dn	COTS	
ICX Printer	HP LaserJet Pro Printer M402dne	COTS	
ICX Printer	HP LaserJet Printer M501dn	COTS	
ICE Dual Monitor	AOC e1649FWU	COTS	
ICE Dual Monitor	Display Logic LM15.6-USB-DV.B	COTS	
Monitor	Dell Monitor KM632	COTS	
Monitor	Dell Monitor P2414Hb	COTS	
Monitor	P2419H	COTS	
Monitor	P2417H	COTS	
Monitor	Dell Ultrasharp 24” Monitor U2414H	COTS	
CD/DVD Reader	Dell DVD Multi Recorder GP60NB60	COTS	
iButton Programmer	Maxim iButton Programmer DS9490R# with DS1402-RP8+	COTS	
UPS	Tripp Lite SMART1500RMXL2U	COTS	
UPS	APC SMT1500C Smart-UPS	COTS	
UPS	APC SMT1500 Smart-UPS	COTS	
UPS	APC BE600M1	COTS	
UPS	APC BR1000G	COTS	

System Component	Hardware Version	Proprietary or COTS	Comments
UPS	CyberPower PR1500LCD	COTS	
UPS	CyberPower PR1500LCD-VTVM	COTS	
Network Switch	Dell X1008	COTS	
Network Switch	Dell X1018	COTS	
Network Switch	Dell X1026	COTS	
Network Switch	Dell PowerConnect 2808	COTS	
Sip and Puff	Enabling Devices #972	COTS	
Headphones	Cyber Acoustics ACM-70 and ACM-70B	COTS	
4-way Joystick Controller	S26	Modified COTS	
Rocker (Paddle) Switch	Enabling Device #971	COTS	
Rocker (Paddle) Switch	AbleNet 10033400 (2x)	COTS	
Rocker (Paddle) Switch Cable	Hosa Technology YMM-261 (for use with AbleNet switches)	COTS	
CF Card Reader	IOGEAR SDHC/microSDHC 0U51USC410	COTS	
CF Card Dual-Slot Reader	Lexar USB 3.0	COTS	
CF Card Reader	Hoodman Steel USB 3.0 102015	COTS	
CF Card Reader	Lexar Professional CFR1	COTS	
CF Card Reader	Kingston FCR-HS4	COTS	
ATI	ATI handset	Proprietary	
ATI	ATI-USB handset	Proprietary	
ACS PC-Linked Smart Card Reader	ACR38U	COTS	
ACS PC-Linked Smart Card Reader	ACR39U	COTS	

System Limitations

This table depicts the limits the system has been tested and certified to meet.

Characteristic	Limiting Component	Limit	Comment
Ballot positions	22” Ballot	292*/462**	Landscape Ballot: 240 candidates + 24 write-ins + 28 Yes/No choices.
Precincts in an election	EMS	1000; 250	Memory Standard; Express
Contests in an election	EMS	1000; 250	Memory Standard; Express
Candidates/Counters in an election	EMS	10000; 2500	Memory Standard; Express
Candidates/Counters in a precinct	22” Ballot	240*/462**	Memory Both EMS
Candidates/Counters in a tabulator	Tabulator	10000; 2500	Memory Standard; Express
Ballot Styles in an election	Tabulator	3000; 750	Memory Standard; Express
Ballot IDs in a tabulator	ICP	200	Memory Both EMS
Contests in a ballot style	ICX BMD Ballot	38*/156**	14” Ballot Both EMS
Candidates in a contest	22” Ballot	240*/231**	Ballot Both EMS
Ballot styles in a precinct	Tabulator	5	Memory Both EMS
Number of political parties	Tabulator	30	Memory Both EMS
“vote for” in a contest	22” Ballot	24*/30**	Ballot Both EMS
Supported languages in an election	Tabulator	5	Memory Both EMS

Characteristic	Limiting Component	Limit	Comment
Number of write-ins	22 “Ballot	24*/462**	Ballot Both EMS

* Reflects the system limit for a ballot printed in landscape.

** Reflects the system limit for a ballot printed in portrait.

Functionality

2005 VVSG Supported Functionality Declaration

Feature/Characteristic	Yes/No	Comment
Voter Verified Paper Audit Trails		
VVPAT	YES	
Accessibility		
Forward Approach	YES	
Parallel (Side) Approach	YES	
Closed Primary		
Primary: Closed	YES	
Open Primary		
Primary: Open Standard (provide definition of how supported)	YES	
Primary: Open Blanket (provide definition of how supported)	YES	
Partisan & Non-Partisan:		
Partisan & Non-Partisan: Vote for 1 of N race	YES	
Partisan & Non-Partisan: Multi-member ("vote for N of M") board races	YES	
Partisan & Non-Partisan: "vote for 1" race with a single candidate and write-in voting	YES	
Partisan & Non-Partisan "vote for 1" race with no declared candidates and write-in voting	YES	
Write-In Voting:		
Write-in Voting: System default is a voting position identified for write-ins.	YES	
Write-in Voting: Without selecting a write in position.	NO	
Write-in: With No Declared Candidates	YES	
Write-in: Identification of write-ins for resolution at central count	YES	
Primary Presidential Delegation Nominations & Slates:		
Primary Presidential Delegation Nominations: Displayed delegate slates for each presidential party	YES	
Slate & Group Voting: one selection votes the slate.	YES	
Ballot Rotation:		
Rotation of Names within an Office; define all supported rotation methods for location on the ballot and vote tabulation/reporting	YES	Equal time rotation
Straight Party Voting:		
Straight Party: A single selection for partisan races in a general election	YES	
Straight Party: Vote for each candidate individually	YES	
Straight Party: Modify straight party selections with crossover votes	YES	
Straight Party: A race without a candidate for one party	YES	
Straight Party: "N of M race (where "N">1)	YES	
Straight Party: Excludes a partisan contest from the straight party selection	YES	
Cross-Party Endorsement:		

Feature/Characteristic	Yes/No	Comment
Cross party endorsements, multiple parties endorse one candidate.	YES	
Split Precincts:		
Split Precincts: Multiple ballot styles	YES	
Split Precincts: P & M system support splits with correct contests and ballot identification of each split	YES	
Split Precincts: DRE matches voter to all applicable races.	YES	
Split Precincts: Reporting of voter counts (# of voters) to the precinct split level; Reporting of vote totals is to the precinct level	YES	
Vote N of M:		
Vote for N of M: Counts each selected candidate, if the maximum is not exceeded.	YES	
Vote for N of M: Invalidates all candidates in an overvote (paper)	YES	
Recall Issues, with options:		
Recall Issues with Options: Simple Yes/No with separate race/election. (Vote Yes or No Question)	YES	
Recall Issues with Options: Retain is the first option, Replacement candidate for the second or more options (Vote 1 of M)	NO	
Recall Issues with Options: Two contests with access to a second contest conditional upon a specific vote in contest one. (Must vote Yes to vote in 2nd contest.)	NO	
Recall Issues with Options: Two contests with access to a second contest conditional upon any vote in contest one. (Must vote Yes to vote in 2nd contest.)	NO	
Cumulative Voting		
Cumulative Voting: Voters are permitted to cast, as many votes as there are seats to be filled for one or more candidates. Voters are not limited to giving only one vote to a candidate. Instead, they can put multiple votes on one or more candidate.	NO	
Ranked Order Voting		
Ranked Order Voting: Voters can write in a ranked vote.	NO	
Ranked Order Voting: A ballot stops being counting when all ranked choices have been eliminated	NO	
Ranked Order Voting: A ballot with a skipped rank counts the vote for the next rank.	NO	
Ranked Order Voting: Voters rank candidates in a contest in order of choice. A candidate receiving a majority of the first choice votes wins. If no candidate receives a majority of first choice votes, the last place candidate is deleted, each ballot cast for the deleted candidate counts for the second choice candidate listed on the ballot. The process of eliminating the last place candidate and recounting the ballots continues until one candidate receives a majority of the vote	NO	
Ranked Order Voting: A ballot with two choices ranked the same, stops being counted at the point of two similarly ranked choices.	NO	

Feature/Characteristic	Yes/No	Comment
Ranked Order Voting: The total number of votes for two or more candidates with the least votes is less than the votes of the candidate with the next highest number of votes, the candidates with the least votes are eliminated simultaneously and their votes transferred to the next-ranked continuing candidate.	NO	

Feature/Characteristic	Yes/No	Comment
Provisional or Challenged Ballots		
Provisional/Challenged Ballots: A voted provisional ballots is identified but not included in the tabulation, but can be added in the central count.	YES	
Provisional/Challenged Ballots: A voted provisional ballots is included in the tabulation, but is identified and can be subtracted in the central count	NO	
Provisional/Challenged Ballots: Provisional ballots maintain the secrecy of the ballot.	YES	
Overvotes (must support for specific type of voting system)		
Overvotes: P & M: Overvote invalidates the vote. Define how overvotes are counted.	YES	Overvotes cause a warning to the voter and can be configured to allow voter to override.
Overvotes: DRE: Prevented from or requires correction of overvoting.	YES	
Overvotes: If a system does not prevent overvotes, it must count them. Define how overvotes are counted.	YES	If allowed via voter override, overvotes are tallied separately.
Overvotes: DRE systems that provide a method to data enter absentee votes must account for overvotes.	N/A	
Undervotes		
Undervotes: System counts undervotes cast for accounting purposes	YES	
Blank Ballots		
Totally Blank Ballots: Any blank ballot alert is tested.	YES	Precinct voters receive a warning; both precinct and central scanners will warn on blank ballots.
Totally Blank Ballots: If blank ballots are not immediately processed, there must be a provision to recognize and accept them	YES	Blank ballots are flagged. These ballots can be manually examined and then be scanned and accepted as blank; or precinct voter can override and accept.
Totally Blank Ballots: If operators can access a blank ballot, there must be a provision for resolution.	YES	Operators can examine a blank ballot, re-mark if needed and allowed, and then re-scan it.
Networking		
Wide Area Network – Use of Modems	NO	
Wide Area Network – Use of Wireless	NO	

Feature/Characteristic	Yes/No	Comment
Local Area Network – Use of TCP/IP	YES	Client/server only
Local Area Network – Use of Infrared	NO	
Local Area Network – Use of Wireless	NO	
FIPS 140-2 validated cryptographic module	YES	
Used as (if applicable):		
Precinct counting device	YES	ImageCast Precinct ImageCast Precinct 2 ImageCast Evolution ImageCast X DRE
Central counting device	YES	ImageCast Central

Baseline Certification Engineering Change Orders (ECO)

ECO #	Component	Description
100607	ImageCast Central - HiPro Scanner configuration	Added Dell Optiplex 7060 and 7070.
100653	ImageCast Central Scanner Workstation	Added DELL Optiplex 5270 AIO computer.
100624	ImageCast Evolution	Alternative supplier (King Cord) for ICE power cord
100648	ImageCast Precinct 2	Added new Centon SDHC memory device”
100630	ImageCast Central	Added a scanner (Canon DR-G2140) for use with the D-Suite ImageCast Central workstation
100654	ImageCast Precinct2 PCOS 330A	Adding the ICP2 adapter plate for use with Eagle ballot box
100657	ImageCast Evolution PCOS 410A	Added Addmaster KR-85A printer as an AVL replacement
100669	ImageCast X Prime	Added RRC 2054-2 battery as an AVL for the ICX Prime replacement battery.

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DRAFT

Language capability:

This section provides information describing the languages supported by the various components of the system.

Language	ICE	ICP	ICP2	ICX
Alaska Native	Yes, if using Latin alphabet	Yes	No	No
Apache	Audio only	Audio only	No	No
Bengali	Yes	Yes	Yes	Yes
Chinese	Yes	Yes	Yes	Yes
English	Yes	Yes	Yes	Yes
Eskimo	Yes, if using Latin alphabet	Yes	No	No
Filipino	Yes, if using Latin alphabet	Yes	Yes	No
French	Yes	Yes	No	Yes
Hindi	Yes	Audio only	Yes	Yes
Japanese	Yes	Yes	Yes	Yes
Jicarilla	Audio only	Audio only	No	No
Keres	Audio only	Audio only	No	No
Khmer	Yes	Audio only	No	No
Korean	Yes	Yes	Yes	Yes
Navajo	Audio only	Audio only	No	No
Seminole	Audio only	Audio only	No	No
Spanish	Yes	Yes	Yes	Yes
Tagalog	No	No	No	Yes
Thai	Yes	Audio only	Yes	Yes
Towa	Audio only	Audio only	No	No
Ute	Audio only	Audio only	No	No
Vietnamese	Yes	Yes	Yes	Yes
Yuman	Audio only	Audio only	No	No

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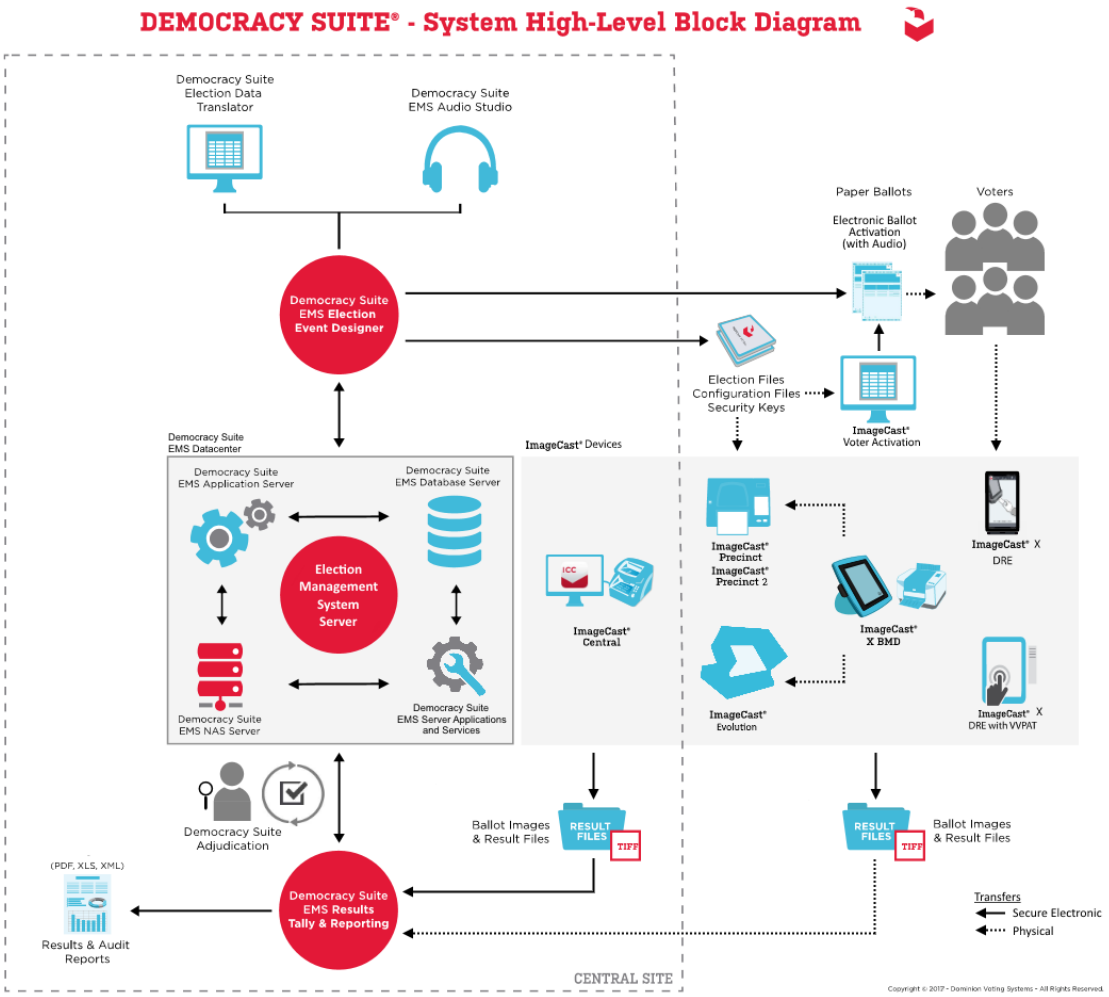
Democracy Suite 5.5-C System Diagram



Components Included:

This section provides information describing the components and revision level of the primary components included in this Certification.

Voting System Software Components:

System Component	Software or Firmware Version	Operating System or COTS	Comments
EMS Election Event Designer (EED)	5.5.40.2	Windows 10 Pro	EMS
EMS Results Tally and Reporting (RTR)	5.5.40.2	Windows 10 Pro	EMS
EMS Application Server	5.5.40.2	Windows Server 2012 R2 Windows 10 Pro	EMS
EMS File System Service (FSS)	5.5.40.2	Window 10 Pro	EMS
EMS Audio Studio (AS)	5.5.40.2	Windows 10 Pro	EMS
EMS Data Center Manager (DCM)	5.5.40.2	Windows Server 2012 R2 Windows 10 Pro	EMS
EMS Election Data Translator (EDT)	5.5.40.2	Windows 10 Pro	EMS
ImageCast Voter Activation (ICVA)	5.5.40.2	Windows 10 Pro	EMS
EMS Adjudication (ADJ)	5.5.40.2	Windows 10 Pro	EMS
EMS Adjudication Services	5.5.40.2	Windows 10 Pro	EMS
Smart Card Helper Service (SCHS)	5.5.40.2	Windows 10 Pro	EMS
Election Firmware	5.5.41.3	uClinux	ICP
Firmware Updater	5.5.41.3	uClinux	ICP
Firmware Extractor	5.5.41.3	uClinux	ICP
Kernel (uClinux)	5.5.41.3	Modified COTS	ICP
Boot Loader (COLILO)	20040221	Modified COTS	ICP
Asymmetric Key Generator	5.5.41.3	uClinux	ICP
Asymmetric Key Exchange Utility	5.5.41.3	uClinux	ICP
Firmware Extractor (Technician Key)	5.5.41.3	uClinux	ICP
ICP2 Application	5.5.2.1	uClinux	ICP2
ICP2 Update Card	5.5.2.1	uClinux	ICP2
Voting Machine	5.5.6.5	Ubuntu Linux	ICE
Election Application	5.5.6.5	Ubuntu Linux	ICE
ImageCast Central Application	5.5.41.0002	Windows 10 Pro	ICC
ICX Application	5.5.15.2	Android 5.1.1 (ICX Prime) Android 4.4.4 (ICX Classic)	ICX

Voting System Platform:

System Component	Version	Operating System or COTS	Comments
Microsoft Windows Server	2012 R2 Standard	Unmodified COTS	EMS Server SW Component
Microsoft Windows	10 Professional	Unmodified COTS	EMS Client/Server SW Component
.NET Framework	3.5	Unmodified COTS	EMS Client/Server SW Component
Microsoft Visual J#	2.0	Unmodified COTS	EMS Client/Server SW Component
Microsoft Visual C++ 2013 Redistributable	2013	Unmodified COTS	EMS Client/Server SW Component

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System Component	Version	Operating System or COTS	Comments
Microsoft Visual C++ 2015 Redistributable	2015	Unmodified COTS	EMS Client/Server SW Component
Java Runtime Environment	7u80	Unmodified COTS	EMS Client/Server SW Component
Java Runtime Environment	8u144	Unmodified COTS	EMS Client/Server SW Component
Microsoft SQL Server 2016 Standard	2016 Standard	Unmodified COTS	EMS Client/Server SW Component
Microsoft SQL Server 2016 Service Pack 2	2016 SP1	Unmodified COTS	EMS Client/Server SW Component
Microsoft SQL Server 2016 SP1 Express	2016 SP2	Unmodified COTS	EMS Client/Server SW Component
Cepstral Voices	6.2.3.801	Unmodified COTS	EMS Client/Server SW Component
Arial Narrow Fonts	2.37a	Unmodified COTS	EMS Client/Server SW Component
Maxim iButton Driver	4.05	Unmodified COTS	EMS Client/Server SW Component
Adobe Reader DC	AcrobatDC	Unmodified COTS	EMS Client/Server SW Component
Microsoft Access Database Engine	2010	Unmodified COTS	EMS Client/Server SW Component
Open XML SDK 2.0 for Microsoft Office	2.0	Unmodified COTS	EMS Client/Server SW Component
Infragistics NetAdvantage Win Forms 2011.1	2011 Vol. 1	Unmodified COTS	EMS SW Platform
Infragistics NetAdvantage WPF 2012.1	2012 Vol. 1	Unmodified COTS	EMS SW Platform
TX Text Control Library for .NET	16.0	Unmodified COTS	EMS SW Platform
SOX	14.3.1	Unmodified COTS	EMS SW Platform
NLog	1.0.0.505	Unmodified COTS	EMS SW Platform
iTextSharp	5.0.5	Unmodified COTS	EMS SW Platform
OpenSSL	1.0.2K	Unmodified COTS	EMS SW Platform
OpenSSL FIPS Object Module	2.0.14	Unmodified COTS	EMS SW Platform
SQLite	1.0.103.0	Unmodified COTS	EMS SW Platform
Lame	3.99.4	Unmodified COTS	EMS SW Platform
Speex	1.0.4	Unmodified COTS	EMS SW Platform
Ghostscript	9.04	Unmodified COTS	EMS SW Platform
One Wire API for .NET	4.0.2.0	Unmodified COTS	EMS SW Platform
Avalon-framework-cvs-20020806	20020806	Unmodified COTS	EMS SW Platform
Batik	0.20-5	Unmodified COTS	EMS SW Platform
Fop	0.20-5	Unmodified COTS	EMS SW Platform
Microsoft Visual J# 2.0 Redistributable Package – Second Edition (x64)	2.0	Unmodified COTS	EMS SW Platform
Entity framework	6.1.3	Unmodified COTS	EMS SW Platform
Spreadsheetlight	3.4.3	Unmodified COTS	EMS SW Platform
Open XML SDK 2.0 for Microsoft Office	2.0.5022.0	Unmodified COTS	EMS SW Platform
Open SSL	1.0.2K	Unmodified COTS	ICP
OpenSSL FIPS Object Module	2.0.10	Unmodified COTS	ICP

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System Component	Version	Operating System or COTS	Comments
Zlib	1.2.3	Unmodified COTS	ICP
uClinux	20070130	Modified COTS	ICP
Kernel (Linux)	2.6.30.9-dvs-36	Modified COTS	ICE
U-Boot	1.3.4	Modified COTS	ICE
Google Text-to-Speech Engine	3.11.12	Unmodified COTS	ICX SW
Kernel	4.9.11	Modified COTS	ICP2
U-Boot	2017.03	Modified COTS	ICP2
Zxing Barcode Scanner	4.7.5	Modified COTS	ICX SW
SoundTouch	1.9.2	Modified COTS	ICX SW
ICX Prime Android 5.1.1 Image	0405	Modified COTS	ICX SW
ICX Classic Android 4.4.4 Image	0.0.98	Modified COTS	ICX SW
OpenSSL FIPS Object Module	2.0.10 (Cert 2473)	Unmodified COTS	ICX SW Build Library
OpenSSL	1.0.2K	Unmodified COTS	ICC SW Build Library
OpenSSL FIPS Object Module	2.0.10 (Cert 1747)	Unmodified COTS	ICC SW Build Library
1-Wire Driver (x86)	4.05	Unmodified COTS	ICC Runtime SW
1-Wire Driver (x64)	4.05	Unmodified COTS	ICC Runtime SW
Canon DR-G1130 TWAIN Driver	1.2 SP6	Unmodified COTS	ICC Runtime SW
Canon DR-G160II TWAIN Driver	1.2 SP6	Unmodified COTS	ICC Runtime SW
Canon DR-M260 TWAIN Driver,	1.1 SP2	Unmodified COTS	ICC Runtime SW
InoTec HiPro 821 TWAIN Driver	1.2.3.17	Unmodified COTS	ICC Runtime SW
Visual C++ 2013 Redistributable (x86)	12.0.30501	Unmodified COTS	ICC Runtime SW
Machine Configuration File (MCF)	5.5.12.1_20190510	Proprietary	ICX Configuration File
Device Configuration File (DCF)	5.5.31_20190423	Proprietary	ICP and ICC Configuration File
ICE Machine Behavior Settings	5.5.6.3 20190512	Proprietary	ICE Configuration
ICP2 Machine Behavior Settings	5.5.1.4 20190510	Proprietary	ICP2 Configuration

Hardware Components:

System Component	Hardware Version	Proprietary or COTS	Comments
ImageCast Precinct (ICP)	PCOS-320C	Proprietary	Precinct Scanner
ImageCast Precinct (ICP)	PCOS-320A	Proprietary	Precinct Scanner
ImageCast 2 Precinct (ICP2)	PCOS-330A	Proprietary	Precinct Scanner
ImageCast Evolution (ICE)	PCOS-410A	Proprietary	Precinct Scanner
ICP Ballot Box	BOX-330A	Proprietary	Ballot Box
ICP Ballot Box	BOX-340C	Proprietary	Ballot Box
ICP Ballot Box	BOX-341C	Proprietary	Ballot Box
ICP Ballot Box	ElectionSource IM-COLLAPSIBLE	Proprietary	Ballot Box
ICE Ballot Box	BOX-410A	Proprietary	Ballot Box
ICE Ballot Box	BOX-420A	Proprietary	Ballot Box
ICP2 Ballot Box	BOX-350A	Proprietary	Ballot Box
ICP2 Ballot Box	BOX-340C	Proprietary	Ballot Box
ICP2 Ballot Box	BOX-341C	Proprietary	Ballot Box
ICP2 Ballot Box	ElectionSource IM-COLLAPSIBLE	Proprietary	Ballot Box
ICX UPS Inline EMI Filter	1.0	Proprietary	EMI Filter
ICX Tablet (Classic)	aValue 15” Tablet (SID-15V)	COTS	Ballot Marking Device
ICX Tablet (Classic)	aValue 21” Tablet (SID-21V) (Steel or Aluminum chassis)	COTS	Ballot Marking Device

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System Component	Hardware Version	Proprietary or COTS	Comments
ICX Tablet (Prime)	aValue 21" Tablet (HID-21V) (Steel or Aluminum chassis)	COTS	Ballot Marking Device or Direct Recording Electronic
Thermal Printer	SII RP-D10	COTS	Report Printer
Thermal Printer (VVPAT)	KFI VRP3	COTS	Voter-verifiable paper audit trail (VVPAT)
Server	Dell PowerEdge R620	COTS	Standard Server
Server	Dell PowerEdge R630	COTS	Standard Server
Server	Dell PowerEdge R640	COTS	Standard Server
ICC Workstation HW	Dell Optiplex 5270 All in One	COTS	
ICC Workstation HW	Dell OptiPlex 7440 All in One	COTS	
ICC Workstation HW	Dell OptiPlex 3050 All In One	COTS	
ICC Workstation HW	Dell OptiPlex 9030 All In One	COTS	
ICC Workstation HW	Dell OptiPlex 9020 All In One	COTS	
ICC Workstation HW	Dell OptiPlex 9010 All In One	COTS	
ICC Scanner	Canon imageFormula DR-G1130	COTS	Central Count Scanner
ICC Scanner	Canon imageFormula DR-M160II	COTS	Central Count Scanner
ICC Scanner	Canon imageFormula DR-M260	COTS	Central Count Scanner
ICC Scanner	Cano imageFormula DR-G2140	COTS	Central Count Scanner
ICC Scanner	InoTec HiPro 821	COTS	Central Count Scanner
ICC Scanner	Dell Optiplex 7070	COTS	
ICC Scanner	Dell Optiplex 7060	COTS	
ICC Scanner	Dell Optiplex 7050	COTS	
ICC Scanner Monitor	Lenovo 10QXPAR1US	COTS	
ICC Scanner Monitor	Dell 2418HT Monitor	COTS	
Client Workstation HW and Express Server	Dell Precision 3430	COTS	
Client Workstation HW and Express Server	Dell Precision 3431	COTS	
Client Workstation HW and Express Server	Dell Precision T3420	COTS	
Client Workstation HW	Dell Precision T1700	COTS	
Client Workstation HW	Dell Latitude 3400	COTS	
Client Workstation HW	Dell Latitude 3490	COTS	
Client Workstation HW	Dell Latitude E3480	COTS	
Client Workstation HW	Dell Latitude E3470	COTS	
Client Workstation HW	Dell Latitude E7450	COTS	
ICX Printer	HP LaserJet Pro Printer M402dn	COTS	
ICX Printer	HP LaserJet Pro Printer M402dne	COTS	
ICX Printer	HP LaserJet Printer M501dn	COTS	
ICE Dual Monitor	AOC e1649FWU	COTS	
ICE Dual Monitor	Display Logic LM15.6-USB-DV.B	COTS	
Monitor	Dell Monitor KM632	COTS	
Monitor	Dell Monitor P2414Hb	COTS	
Monitor	P2419H	COTS	
Monitor	P2417H	COTS	
Monitor	Dell Ultrasharp 24" Monitor U2414H	COTS	
CD/DVD Reader	Dell DVD Multi Recorder GP60NB60	COTS	
iButton Programmer	Maxim iButton Programmer DS9490R# with DS1402-RP8+	COTS	

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System Component	Hardware Version	Proprietary or COTS	Comments
UPS	Tripp Lite SMART1500RMXL2U	COTS	
UPS	APC SMT1500C Smart-UPS	COTS	
UPS	APC SMT1500 Smart-UPS	COTS	
UPS	APC BE600M1	COTS	
UPS	APC BR1000G	COTS	
UPS	CyberPower PR1500LCD	COTS	
UPS	CyberPower PR1500LCD-VTVM	COTS	
Network Switch	Dell X1008	COTS	
Network Switch	Dell X1018	COTS	
Network Switch	Dell X1026	COTS	
Network Switch	Dell PowerConnect 2808	COTS	
Sip and Puff	Enabling Devices #972	COTS	
Headphones	Cyber Acoustics ACM-70 and ACM-70B	COTS	
4-way Joystick Controller	S26	Modified COTS	
Rocker (Paddle) Switch	Enabling Device #971	COTS	
Rocker (Paddle) Switch	AbleNet 10033400 (2x)	COTS	
Rocker (Paddle) Switch Cable	Hosa Technology YMM-261 (for use with AbleNet switches)	COTS	
CF Card Reader	IOGEAR SDHC/microSDHC 0U51USC410	COTS	
CF Card Dual-Slot Reader	Lexar USB 3.0	COTS	
CF Card Reader	Hoodman Steel USB 3.0 102015	COTS	
CF Card Reader	Lexar Professional CFR1	COTS	
CF Card Reader	Kingston FCR-HS4	COTS	
ATI	ATI handset	Proprietary	
ATI	ATI-USB handset	Proprietary	
ACS PC-Linked Smart Card Reader	ACR38	COTS	
ACS PC-Linked Smart Card Reader	ACR39	COTS	

System Limitations

This table depicts the limits the system has been tested and certified to meet.

Characteristic	Limiting Component	Limit	Comment
Ballot positions	22” Ballot	292*/462**	Landscape Ballot: 240 candidates + 24 write-ins + 28 Yes/No choices.
Precincts in an election	EMS	1000; 250	Memory Standard; Express
Contests in an election	EMS	1000; 250	Memory Standard; Express
Candidates/Counters in an election	EMS	10000; 2500	Memory Standard; Express
Candidates/Counters in a precinct	22” Ballot	240*/462**	Both
Candidates/Counters in a tabulator	Tabulator	10000; 2500	Memory Standard; Express
Ballot Styles in an election	Tabulator	3000; 750	Memory Standard; Express
Ballot IDs in a tabulator	ICP	200	Both EMS

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Characteristic	Limiting Component	Limit	Comment
Contests in a ballot style	ICX BMD Ballot	38*/156**	Both EMS
Candidates in a contest	22” Ballot	240*/231**	Both EMS
Ballot styles in a precinct	Tabulator	5	Both EMS
Number of political parties	Tabulator	30	Both EMS
“vote for” in a contest	22” Ballot	24*/30**	Both EMS
Supported languages in an election	Tabulator	5	Both EMS
Number of write-ins	22 “Ballot	24*/462**	Both EMS

* Reflects the system limit for a ballot printed in landscape.

** Reflects the system limit for a ballot printed in portrait.

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Functionality

2005 VVSG Supported Functionality Declaration

Feature/Characteristic	Yes/No	Comment
Voter Verified Paper Audit Trails		
VVPAT	YES	
Accessibility		
Forward Approach	YES	
Parallel (Side) Approach	YES	
Closed Primary		
Primary: Closed	YES	
Open Primary		
Primary: Open Standard (provide definition of how supported)	YES	
Primary: Open Blanket (provide definition of how supported)	YES	
Partisan & Non-Partisan:		
Partisan & Non-Partisan: Vote for 1 of N race	YES	
Partisan & Non-Partisan: Multi-member ("vote for N of M") board races	YES	
Partisan & Non-Partisan: "vote for 1" race with a single candidate and write-in voting	YES	
Partisan & Non-Partisan "vote for 1" race with no declared candidates and write-in voting	YES	
Write-In Voting:		
Write-in Voting: System default is a voting position identified for write-ins.	YES	
Write-in Voting: Without selecting a write in position.	NO	
Write-in: With No Declared Candidates	YES	
Write-in: Identification of write-ins for resolution at central count	YES	
Primary Presidential Delegation Nominations & Slates:		
Primary Presidential Delegation Nominations: Displayed delegate slates for each presidential party	YES	
Slate & Group Voting: one selection votes the slate.	YES	
Ballot Rotation:		
Rotation of Names within an Office; define all supported rotation methods for location on the ballot and vote tabulation/reporting	YES	Equal time rotation
Straight Party Voting:		
Straight Party: A single selection for partisan races in a general election	YES	
Straight Party: Vote for each candidate individually	YES	
Straight Party: Modify straight party selections with crossover votes	YES	
Straight Party: A race without a candidate for one party	YES	
Straight Party: "N of M race (where "N">1)	YES	
Straight Party: Excludes a partisan contest from the straight party selection	YES	

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Feature/Characteristic	Yes/No	Comment
Cross-Party Endorsement:		
Cross party endorsements, multiple parties endorse one candidate.	YES	
Split Precincts:		
Split Precincts: Multiple ballot styles	YES	
Split Precincts: P & M system support splits with correct contests and ballot identification of each split	YES	
Split Precincts: DRE matches voter to all applicable races.	YES	
Split Precincts: Reporting of voter counts (# of voters) to the precinct split level; Reporting of vote totals is to the precinct level	YES	
Vote N of M:		
Vote for N of M: Counts each selected candidate, if the maximum is not exceeded.	YES	
Vote for N of M: Invalidates all candidates in an overvote (paper)	YES	
Recall Issues, with options:		
Recall Issues with Options: Simple Yes/No with separate race/election. (Vote Yes or No Question)	YES	
Recall Issues with Options: Retain is the first option, Replacement candidate for the second or more options (Vote 1 of M)	NO	
Recall Issues with Options: Two contests with access to a second contest conditional upon a specific vote in contest one. (Must vote Yes to vote in 2nd contest.)	NO	
Recall Issues with Options: Two contests with access to a second contest conditional upon any vote in contest one. (Must vote Yes to vote in 2nd contest.)	NO	
Cumulative Voting		
Cumulative Voting: Voters are permitted to cast, as many votes as there are seats to be filled for one or more candidates. Voters are not limited to giving only one vote to a candidate. Instead, they can put multiple votes on one or more candidate.	NO	
Ranked Order Voting		
Ranked Order Voting: Voters can write in a ranked vote.	NO	
Ranked Order Voting: A ballot stops being counting when all ranked choices have been eliminated	NO	
Ranked Order Voting: A ballot with a skipped rank counts the vote for the next rank.	NO	

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Feature/Characteristic	Yes/No	Comment
Ranked Order Voting: Voters rank candidates in a contest in order of choice. A candidate receiving a majority of the first choice votes wins. If no candidate receives a majority of first choice votes, the last place candidate is deleted, each ballot cast for the deleted candidate counts for the second choice candidate listed on the ballot. The process of eliminating the last place candidate and recounting the ballots continues until one candidate receives a majority of the vote	NO	
Ranked Order Voting: A ballot with two choices ranked the same, stops being counted at the point of two similarly ranked choices.	NO	
Ranked Order Voting: The total number of votes for two or more candidates with the least votes is less than the votes of the candidate with the next highest number of votes, the candidates with the least votes are eliminated simultaneously and their votes transferred to the next-ranked continuing candidate.	NO	

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Feature/Characteristic	Yes/No	Comment
Provisional or Challenged Ballots		
Provisional/Challenged Ballots: A voted provisional ballots is identified but not included in the tabulation, but can be added in the central count.	YES	
Provisional/Challenged Ballots: A voted provisional ballots is included in the tabulation, but is identified and can be subtracted in the central count	NO	
Provisional/Challenged Ballots: Provisional ballots maintain the secrecy of the ballot.	YES	
Overvotes (must support for specific type of voting system)		
Overvotes: P & M: Overvote invalidates the vote. Define how overvotes are counted.	YES	Overvotes cause a warning to the voter and can be configured to allow voter to override.
Overvotes: DRE: Prevented from or requires correction of overvoting.	YES	
Overvotes: If a system does not prevent overvotes, it must count them. Define how overvotes are counted.	YES	If allowed via voter override, overvotes are tallied separately.
Overvotes: DRE systems that provide a method to data enter absentee votes must account for overvotes.	N/A	
Undervotes		
Undervotes: System counts undervotes cast for accounting purposes	YES	
Blank Ballots		
Totally Blank Ballots: Any blank ballot alert is tested.	YES	Precinct voters receive a warning; both precinct and central scanners will warn on blank ballots.
Totally Blank Ballots: If blank ballots are not immediately processed, there must be a provision to recognize and accept them	YES	Blank ballots are flagged. These ballots can be manually examined and then be scanned and accepted as blank; or precinct voter can override and accept.
Totally Blank Ballots: If operators can access a blank ballot, there must be a provision for resolution.	YES	Operators can examine a blank ballot, re-mark if needed and allowed, and then re-scan it.
Networking		
Wide Area Network – Use of Modems	NO	
Wide Area Network – Use of Wireless	NO	

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Feature/Characteristic	Yes/No	Comment
Local Area Network – Use of TCP/IP	YES	Client/server only
Local Area Network – Use of Infrared	NO	
Local Area Network – Use of Wireless	NO	
FIPS 140-2 validated cryptographic module	YES	
Used as (if applicable):		
Precinct counting device	YES	ImageCast Precinct
Central counting device	YES	ImageCast Central

Baseline Certification Engineering Change Orders (ECO)

ECO #	Component	Description
100607	ImageCast Central - HiPro Scanner configuration	Added Dell Optiplex 7060 and 7070.
100653	ImageCast Central Scanner Workstation	Added DELL Optiplex 5270 AIO computer.
100624	ImageCast Evolution	Alternative supplier (King Cord) for ICE power cord
100648	ImageCast Precinct 2	Update to the DR-G1130 Scanner LCD Panel User Interface.
100630	ImageCast Central	Added a scanner (Canon DR-G2140) for use with the D-Suite ImageCast Central workstation
100654	ImageCast Precinct2 PCOS 330A	Adding the ICP2 adapter plate for use with Eagle ballot box
100657	ImageCast Evolution PCOS 410A	Added Addmaster KR-85A printer as an AVL replacement
100669	ImageCast X Prime	Added RRC 2054-2 battery as an AVL for the ICX Prime replacement battery.

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Scope of Certification

This document describes the scope of the validation and certification of the system defined above. Any use, configuration changes, revision changes, additions or subtractions from the described system are not included in this evaluation.

Significance of EAC Certification

An EAC certification is an official recognition that a voting system (in a specific configuration or configurations) has been tested to and has met an identified set of Federal voting system standards. An EAC certification is **not**:

- An endorsement of a Manufacturer, voting system, or any of the system's components.
- A Federal warranty of the voting system or any of its components.
- A determination that a voting system, when fielded, will be operated in a manner that meets all HAVA requirements.
- A substitute for State or local certification and testing.
- A determination that the system is ready for use in an election.
- A determination that any particular component of a certified system is itself certified for use outside the certified configuration.

Representation of EAC Certification

Manufacturers may not represent or imply that a voting system is certified unless it has received a Certificate of Conformance for that system. Statements regarding EAC certification in brochures, on Web sites, on displays, and in advertising/sales literature must be made solely in reference to specific systems. Any action by a Manufacturer to suggest EAC endorsement of its product or organization is strictly prohibited and may result in a Manufacturer's suspension or other action pursuant to Federal civil and criminal law.

System Overview:

The D-Suite 5.5-C Voting System is a paper-based optical scan voting system with a hybrid paper/DRE option consisting of the following major components: The Election Management System (EMS), the ImageCast Central (ICC), the ImageCast Precinct (ICP and ICP2), the ImageCast Evolution (ICE), the ImageCast X (ICX) DRE w/ Reports Printer, ImageCast X (ICX) DRE w/ voter-verifiable paper audit trail (VVPAT), and the ImageCast X ballot marking device (BMD). The D-Suite 5.5-C Voting System configuration is a modification from the EAC approved D-Suite 5.5-B system configuration.

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Language capability:

This section provides information describing the languages supported by the various components of the system.

Language	ICE	ICP	ICP2	ICX
Alaska Native	Yes, if using Latin alphabet	Yes	No	No
Apache	Audio only	Audio only	No	No
Bengali	Yes	Yes	Yes	Yes
Chinese	Yes	Yes	Yes	Yes
English	Yes	Yes	Yes	Yes
Eskimo	Yes, if using Latin alphabet	Yes	No	No
Filipino	Yes, if using Latin alphabet	Yes	Yes	No
French	Yes	Yes	No	Yes
Hindi	Yes	Audio only	Yes	Yes
Japanese	Yes	Yes	Yes	Yes
Jicarilla	Audio only	Audio only	No	No
Keres	Audio only	Audio only	No	No
Khmer	Yes	Audio only	No	No
Korean	Yes	Yes	Yes	Yes
Navajo	Audio only	Audio only	No	No
Seminole	Audio only	Audio only	No	No
Spanish	Yes	Yes	Yes	Yes
Tagalog	No	No	No	Yes
Thai	Yes	Audio only	Yes	Yes
Towa	Audio only	Audio only	No	No
Ute	Audio only	Audio only	No	No
Vietnamese	Yes	Yes	Yes	Yes
Yuman	Audio only	Audio only	No	No

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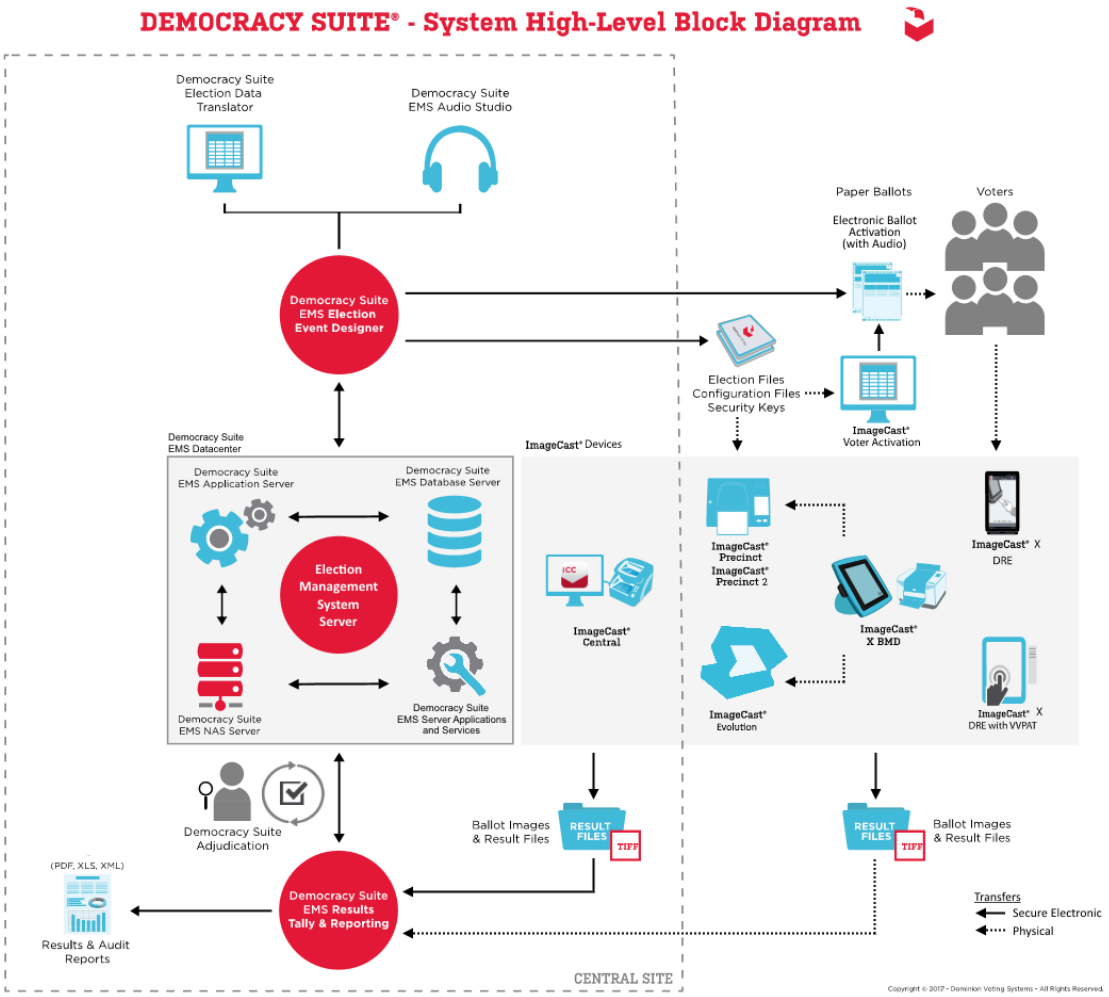
Democracy Suite 5.5-C System Diagram



Components Included:

This section provides information describing the components and revision level of the primary components included in this Certification.

Voting System Software Components:

System Component	Software or Firmware Version	Operating System or COTS	Comments
EMS Election Event Designer (EED)	5.5.40.2	Windows 10 Pro	EMS
EMS Results Tally and Reporting (RTR)	5.5.40.2	Windows 10 Pro	EMS
EMS Application Server	5.5.40.2	Windows Server 2012 R2 Windows 10 Pro	EMS
EMS File System Service (FSS)	5.5.40.2	Window 10 Pro	EMS
EMS Audio Studio (AS)	5.5.40.2	Windows 10 Pro	EMS
EMS Data Center Manager (DCM)	5.5.40.2	Windows Server 2012 R2 Windows 10 Pro	EMS
EMS Election Data Translator (EDT)	5.5.40.2	Windows 10 Pro	EMS
ImageCast Voter Activation (ICVA)	5.5.40.2	Windows 10 Pro	EMS
EMS Adjudication (ADJ)	5.5.40.2	Windows 10 Pro	EMS
EMS Adjudication Services	5.5.40.2	Windows 10 Pro	EMS
Smart Card Helper Service (SCHS)	5.5.40.2	Windows 10 Pro	EMS
Election Firmware	5.5.41.3	uClinux	ICP
Firmware Updater	5.5.41.3	uClinux	ICP
Firmware Extractor	5.5.41.3	uClinux	ICP
Kernel (uClinux)	5.5.41.3	Modified COTS	ICP
Boot Loader (COLILO)	20040221	Modified COTS	ICP
Asymmetric Key Generator	5.5.41.3	uClinux	ICP
Asymmetric Key Exchange Utility	5.5.41.3	uClinux	ICP
Firmware Extractor (Technician Key)	5.5.41.3	uClinux	ICP
ICP2 Application	5.5.2.1	uClinux	ICP2
ICP2 Update Card	5.5.2.1	uClinux	ICP2
Voting Machine	5.5.6.5	Ubuntu Linux	ICE
Election Application	5.5.6.5	Ubuntu Linux	ICE
ImageCast Central Application	5.5.41.0002	Windows 10 Pro	ICC
ICX Application	5.5.15.2	Android 5.1.1 (ICX Prime) Android 4.4.4 (ICX Classic)	ICX

Voting System Platform:

System Component	Version	Operating System or COTS	Comments
Microsoft Windows Server	2012 R2 Standard	Unmodified COTS	EMS Server SW Component
Microsoft Windows	10 Professional	Unmodified COTS	EMS Client/Server SW Component
.NET Framework	3.5	Unmodified COTS	EMS Client/Server SW Component
Microsoft Visual J#	2.0	Unmodified COTS	EMS Client/Server SW Component
Microsoft Visual C++ 2013 Redistributable	2013	Unmodified COTS	EMS Client/Server SW Component

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System Component	Version	Operating System or COTS	Comments
Microsoft Visual C++ 2015 Redistributable	2015	Unmodified COTS	EMS Client/Server SW Component
Java Runtime Environment	7u80	Unmodified COTS	EMS Client/Server SW Component
Java Runtime Environment	8u144	Unmodified COTS	EMS Client/Server SW Component
Microsoft SQL Server 2016 Standard	2016 Standard	Unmodified COTS	EMS Client/Server SW Component
Microsoft SQL Server 2016 Service Pack 2	2016 SP1	Unmodified COTS	EMS Client/Server SW Component
Microsoft SQL Server 2016 SP1 Express	2016 SP2	Unmodified COTS	EMS Client/Server SW Component
Cepstral Voices	6.2.3.801	Unmodified COTS	EMS Client/Server SW Component
Arial Narrow Fonts	2.37a	Unmodified COTS	EMS Client/Server SW Component
Maxim iButton Driver	4.05	Unmodified COTS	EMS Client/Server SW Component
Adobe Reader DC	AcrobatDC	Unmodified COTS	EMS Client/Server SW Component
Microsoft Access Database Engine	2010	Unmodified COTS	EMS Client/Server SW Component
Open XML SDK 2.0 for Microsoft Office	2.0	Unmodified COTS	EMS Client/Server SW Component
Infragistics NetAdvantage Win Forms 2011.1	2011 Vol. 1	Unmodified COTS	EMS SW Platform
Infragistics NetAdvantage WPF 2012.1	2012 Vol. 1	Unmodified COTS	EMS SW Platform
TX Text Control Library for .NET	16.0	Unmodified COTS	EMS SW Platform
SOX	14.3.1	Unmodified COTS	EMS SW Platform
NLog	1.0.0.505	Unmodified COTS	EMS SW Platform
iTextSharp	5.0.5	Unmodified COTS	EMS SW Platform
OpenSSL	1.0.2K	Unmodified COTS	EMS SW Platform
OpenSSL FIPS Object Module	2.0.14	Unmodified COTS	EMS SW Platform
SQLite	1.0.103.0	Unmodified COTS	EMS SW Platform
Lame	3.99.4	Unmodified COTS	EMS SW Platform
Speex	1.0.4	Unmodified COTS	EMS SW Platform
Ghostscript	9.04	Unmodified COTS	EMS SW Platform
One Wire API for .NET	4.0.2.0	Unmodified COTS	EMS SW Platform
Avalon-framework-cvs-20020806	20020806	Unmodified COTS	EMS SW Platform
Batik	0.20-5	Unmodified COTS	EMS SW Platform
Fop	0.20-5	Unmodified COTS	EMS SW Platform
Microsoft Visual J# 2.0 Redistributable Package – Second Edition (x64)	2.0	Unmodified COTS	EMS SW Platform
Entity framework	6.1.3	Unmodified COTS	EMS SW Platform
Spreadsheetlight	3.4.3	Unmodified COTS	EMS SW Platform
Open XML SDK 2.0 for Microsoft Office	2.0.5022.0	Unmodified COTS	EMS SW Platform
Open SSL	1.0.2K	Unmodified COTS	ICP
OpenSSL FIPS Object Module	2.0.10	Unmodified COTS	ICP

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System Component	Version	Operating System or COTS	Comments
Zlib	1.2.3	Unmodified COTS	ICP
uClinux	20070130	Modified COTS	ICP
Kernel (Linux)	2.6.30.9-dvs-36	Modified COTS	ICE
U-Boot	1.3.4	Modified COTS	ICE
Google Text-to-Speech Engine	3.11.12	Unmodified COTS	ICX SW
Kernel	4.9.11	Modified COTS	ICP2
U-Boot	2017.03	Modified COTS	ICP2
Zxing Barcode Scanner	4.7.5	Modified COTS	ICX SW
SoundTouch	1.9.2	Modified COTS	ICX SW
ICX Prime Android 5.1.1 Image	0405	Modified COTS	ICX SW
ICX Classic Android 4.4.4 Image	0.0.98	Modified COTS	ICX SW
OpenSSL FIPS Object Module	2.0.10 (Cert 2473)	Unmodified COTS	ICX SW Build Library
OpenSSL	1.0.2K	Unmodified COTS	ICC SW Build Library
OpenSSL FIPS Object Module	2.0.10 (Cert 1747)	Unmodified COTS	ICC SW Build Library
1-Wire Driver (x86)	4.05	Unmodified COTS	ICC Runtime SW
1-Wire Driver (x64)	4.05	Unmodified COTS	ICC Runtime SW
Canon DR-G1130 TWAIN Driver	1.2 SP6	Unmodified COTS	ICC Runtime SW
Canon DR-G160II TWAIN Driver	1.2 SP6	Unmodified COTS	ICC Runtime SW
Canon DR-M260 TWAIN Driver,	1.1 SP2	Unmodified COTS	ICC Runtime SW
InoTec HiPro 821 TWAIN Driver	1.2.3.17	Unmodified COTS	ICC Runtime SW
Visual C++ 2013 Redistributable (x86)	12.0.30501	Unmodified COTS	ICC Runtime SW
Machine Configuration File (MCF)	5.5.12.1_20190510	Proprietary	ICX Configuration File
Device Configuration File (DCF)	5.5.31_20190423	Proprietary	ICP and ICC Configuration File
ICE Machine Behavior Settings	5.5.6.3 20190512	Proprietary	ICE Configuration
ICP2 Machine Behavior Settings	5.5.1.4 20190510	Proprietary	ICP2 Configuration

Hardware Components:

System Component	Hardware Version	Proprietary or COTS	Comments
ImageCast Precinct (ICP)	PCOS-320C	Proprietary	Precinct Scanner
ImageCast Precinct (ICP)	PCOS-320A	Proprietary	Precinct Scanner
ImageCast 2 Precinct (ICP2)	PCOS-330A	Proprietary	Precinct Scanner
ImageCast Evolution (ICE)	PCOS-410A	Proprietary	Precinct Scanner
ICP Ballot Box	BOX-330A	Proprietary	Ballot Box
ICP Ballot Box	BOX-340C	Proprietary	Ballot Box
ICP Ballot Box	BOX-341C	Proprietary	Ballot Box
ICP Ballot Box	ElectionSource IM-COLLAPSIBLE	Proprietary	Ballot Box
ICE Ballot Box	BOX-410A	Proprietary	Ballot Box
ICE Ballot Box	BOX-420A	Proprietary	Ballot Box
ICP2 Ballot Box	BOX-350A	Proprietary	Ballot Box
ICP2 Ballot Box	BOX-340C	Proprietary	Ballot Box
ICP2 Ballot Box	BOX-341C	Proprietary	Ballot Box
ICP2 Ballot Box	ElectionSource IM-COLLAPSIBLE	Proprietary	Ballot Box
ICX UPS Inline EMI Filter	1.0	Proprietary	EMI Filter
ICX Tablet (Classic)	aValue 15” Tablet (SID-15V)	COTS	Ballot Marking Device
ICX Tablet (Classic)	aValue 21” Tablet (SID-21V) (Steel or Aluminum chassis)	COTS	Ballot Marking Device

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System Component	Hardware Version	Proprietary or COTS	Comments
ICX Tablet (Prime)	aValue 21" Tablet (HID-21V) (Steel or Aluminum chassis)	COTS	Ballot Marking Device or Direct Recording Electronic
Thermal Printer	SII RP-D10	COTS	Report Printer
Thermal Printer (VVPAT)	KFI VRP3	COTS	Voter-verifiable paper audit trail (VVPAT)
Server	Dell PowerEdge R620	COTS	Standard Server
Server	Dell PowerEdge R630	COTS	Standard Server
Server	Dell PowerEdge R640	COTS	Standard Server
ICC Workstation HW	Dell OptiPlex 7440 All in One	COTS	
ICC Workstation HW	Dell OptiPlex 3050 All In One	COTS	
ICC Workstation HW	Dell OptiPlex 9030 All In One	COTS	
ICC Workstation HW	Dell OptiPlex 9020 All In One	COTS	
ICC Workstation HW	Dell OptiPlex 9010 All In One	COTS	
ICC Scanner	Canon imageFormula DR-G1130	COTS	Central Count Scanner
ICC Scanner	Canon imageFormula DR-M160II	COTS	Central Count Scanner
ICC Scanner	Canon imageFormula DR-M260	COTS	Central Count Scanner
ICC Scanner	Cano imageFormula DR-G2140	COTS	Central Count Scanner
ICC Scanner	InoTec HiPro 821	COTS	Central Count Scanner
ICC Scanner	Dell Optiplex 7050	COTS	
ICC Scanner	Dell 2418HT Monitor	COTS	
Client Workstation HW and Express Server	Dell Precision 3430	COTS	
Client Workstation HW and Express Server	Dell Precision 3431	COTS	
Client Workstation HW and Express Server	Dell Precision T3420	COTS	
Client Workstation HW	Dell Precision T1700	COTS	
Client Workstation HW	Dell Latitude 3400	COTS	
Client Workstation HW	Dell Latitude 3490	COTS	
Client Workstation HW	Dell Latitude E3480	COTS	
Client Workstation HW	Dell Latitude E3470	COTS	
Client Workstation HW	Dell Latitude E7450	COTS	
ICX Printer	HP LaserJet Pro Printer M402dn	COTS	
ICX Printer	HP LaserJet Pro Printer M402dne	COTS	
ICX Printer	HP LaserJet Printer M501dn	COTS	
Monitor	Dell Monitor KM632	COTS	
Monitor	Dell Monitor P2414Hb	COTS	
Monitor	P2419H	COTS	
Monitor	P2417H	COTS	
Monitor	Dell Ultrasharp 24" Monitor U2414H	COTS	
CD/DVD Reader	Dell DVD Multi Recorder GP60NB60	COTS	
iButton Programmer	Maxim iButton Programmer DS9490R# with DS1402-RP8+	COTS	
UPS	Tripp Lite SMART1500RMXL2U	COTS	
UPS	APC SMT1500C Smart-UPS	COTS	
UPS	APC SMT1500 Smart-UPS	COTS	
UPS	APC BE600M1	COTS	
UPS	APC BR1000G	COTS	
Network Switch	Dell X1008	COTS	

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System Component	Hardware Version	Proprietary or COTS	Comments
Network Switch	Dell X1018	COTS	
Network Switch	Dell X1026	COTS	
Network Switch	Dell PowerConnect 2808	COTS	
Sip and Puff	Enabling Devices #972	COTS	
Headphones	Cyber Acoustics ACM-70 and ACM-70B	COTS	
4-way Joystick Controller	S26	Modified COTS	
Rocker (Paddle) Switch	Enabling Device #971	COTS	
Rocker (Paddle) Switch	AbleNet 10033400 (2x)	COTS	
CF Card Reader	IOGEAR SDHC/microSDHC 0U51USC410	COTS	
CF Card Dual-Slot Reader	Lexar USB 3.0	COTS	
CF Card Reader	Hoodman Steel USB 3.0 102015	COTS	
CF Card Reader	Lexar Professional CFR1	COTS	
CF Card Reader	Kingston FCR-HS4	COTS	
ATI	ATI handset	Proprietary	
ATI	ATI-USB handset	Proprietary	
ACS PC-Linked Smart Card Reader	ACR38	COTS	
ACS PC-Linked Smart Card Reader	ACR39	COTS	

System Limitations

This table depicts the limits the system has been tested and certified to meet.

Characteristic	Limiting Component	Limit	Comment
Ballot positions	22” Ballot	292*/462**	Landscape Ballot: 240 candidates + 24 write-ins + 28 Yes/No choices.
Precincts in an election	EMS	1000; 250	Memory Standard; Express
Contests in an election	EMS	1000; 250	Memory Standard; Express
Candidates/Counters in an election	EMS	10000; 2500	Memory Standard; Express
Candidates/Counters in a precinct	22” Ballot	240*/462**	Both
Candidates/Counters in a tabulator	Tabulator	10000; 2500	Memory Standard; Express
Ballot Styles in an election	Tabulator	3000; 750	Memory Standard; Express
Ballot IDs in a tabulator	ICP	200	Both EMS
Contests in a ballot style	ICX BMD Ballotbengali	38*/156**	Both EMS
Candidates in a contest	22” Ballot	240*/231**	Both EMS
Ballot styles in a precinct	Tabulator	5	Both EMS
Number of political parties	Tabulator	30	Both EMS
“vote for” in a contest	22” Ballot	24*/30**	Both EMS
Supported languages in an election	Tabulator	5	Both EMS
Number of write-ins	22 “Ballot	24*/462**	Both EMS

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* Reflects the system limit for a ballot printed in landscape.
** Reflects the system limit for a ballot printed in portrait.

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Functionality

2005 VVSG Supported Functionality Declaration

Feature/Characteristic	Yes/No	Comment
Voter Verified Paper Audit Trails		
VVPAT	YES	
Accessibility		
Forward Approach	YES	
Parallel (Side) Approach	YES	
Closed Primary		
Primary: Closed	YES	
Open Primary		
Primary: Open Standard (provide definition of how supported)	YES	
Primary: Open Blanket (provide definition of how supported)	YES	
Partisan & Non-Partisan:		
Partisan & Non-Partisan: Vote for 1 of N race	YES	
Partisan & Non-Partisan: Multi-member ("vote for N of M") board races	YES	
Partisan & Non-Partisan: "vote for 1" race with a single candidate and write-in voting	YES	
Partisan & Non-Partisan "vote for 1" race with no declared candidates and write-in voting	YES	
Write-In Voting:		
Write-in Voting: System default is a voting position identified for write-ins.	YES	
Write-in Voting: Without selecting a write in position.	NO	
Write-in: With No Declared Candidates	YES	
Write-in: Identification of write-ins for resolution at central count	YES	
Primary Presidential Delegation Nominations & Slates:		
Primary Presidential Delegation Nominations: Displayed delegate slates for each presidential party	YES	
Slate & Group Voting: one selection votes the slate.	YES	
Ballot Rotation:		
Rotation of Names within an Office; define all supported rotation methods for location on the ballot and vote tabulation/reporting	YES	Equal time rotation
Straight Party Voting:		
Straight Party: A single selection for partisan races in a general election	YES	
Straight Party: Vote for each candidate individually	YES	
Straight Party: Modify straight party selections with crossover votes	YES	
Straight Party: A race without a candidate for one party	YES	
Straight Party: "N of M race (where "N">1)	YES	
Straight Party: Excludes a partisan contest from the straight party selection	YES	

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Feature/Characteristic	Yes/No	Comment
Cross-Party Endorsement:		
Cross party endorsements, multiple parties endorse one candidate.	YES	
Split Precincts:		
Split Precincts: Multiple ballot styles	YES	
Split Precincts: P & M system support splits with correct contests and ballot identification of each split	YES	
Split Precincts: DRE matches voter to all applicable races.	YES	
Split Precincts: Reporting of voter counts (# of voters) to the precinct split level; Reporting of vote totals is to the precinct level	YES	
Vote N of M:		
Vote for N of M: Counts each selected candidate, if the maximum is not exceeded.	YES	
Vote for N of M: Invalidates all candidates in an overvote (paper)	YES	
Recall Issues, with options:		
Recall Issues with Options: Simple Yes/No with separate race/election. (Vote Yes or No Question)	YES	
Recall Issues with Options: Retain is the first option, Replacement candidate for the second or more options (Vote 1 of M)	NO	
Recall Issues with Options: Two contests with access to a second contest conditional upon a specific vote in contest one. (Must vote Yes to vote in 2nd contest.)	NO	
Recall Issues with Options: Two contests with access to a second contest conditional upon any vote in contest one. (Must vote Yes to vote in 2nd contest.)	NO	
Cumulative Voting		
Cumulative Voting: Voters are permitted to cast, as many votes as there are seats to be filled for one or more candidates. Voters are not limited to giving only one vote to a candidate. Instead, they can put multiple votes on one or more candidate.	NO	
Ranked Order Voting		
Ranked Order Voting: Voters can write in a ranked vote.	NO	
Ranked Order Voting: A ballot stops being counting when all ranked choices have been eliminated	NO	
Ranked Order Voting: A ballot with a skipped rank counts the vote for the next rank.	NO	

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Feature/Characteristic	Yes/No	Comment
Ranked Order Voting: Voters rank candidates in a contest in order of choice. A candidate receiving a majority of the first choice votes wins. If no candidate receives a majority of first choice votes, the last place candidate is deleted, each ballot cast for the deleted candidate counts for the second choice candidate listed on the ballot. The process of eliminating the last place candidate and recounting the ballots continues until one candidate receives a majority of the vote	NO	
Ranked Order Voting: A ballot with two choices ranked the same, stops being counted at the point of two similarly ranked choices.	NO	
Ranked Order Voting: The total number of votes for two or more candidates with the least votes is less than the votes of the candidate with the next highest number of votes, the candidates with the least votes are eliminated simultaneously and their votes transferred to the next-ranked continuing candidate.	NO	

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Feature/Characteristic	Yes/No	Comment
Provisional or Challenged Ballots		
Provisional/Challenged Ballots: A voted provisional ballots is identified but not included in the tabulation, but can be added in the central count.	YES	
Provisional/Challenged Ballots: A voted provisional ballots is included in the tabulation, but is identified and can be subtracted in the central count	NO	
Provisional/Challenged Ballots: Provisional ballots maintain the secrecy of the ballot.	YES	
Overvotes (must support for specific type of voting system)		
Overvotes: P & M: Overvote invalidates the vote. Define how overvotes are counted.	YES	Overvotes cause a warning to the voter and can be configured to allow voter to override.
Overvotes: DRE: Prevented from or requires correction of overvoting.	YES	
Overvotes: If a system does not prevent overvotes, it must count them. Define how overvotes are counted.	YES	If allowed via voter override, overvotes are tallied separately.
Overvotes: DRE systems that provide a method to data enter absentee votes must account for overvotes.	N/A	
Undervotes		
Undervotes: System counts undervotes cast for accounting purposes	YES	
Blank Ballots		
Totally Blank Ballots: Any blank ballot alert is tested.	YES	Precinct voters receive a warning; both precinct and central scanners will warn on blank ballots.
Totally Blank Ballots: If blank ballots are not immediately processed, there must be a provision to recognize and accept them	YES	Blank ballots are flagged. These ballots can be manually examined and then be scanned and accepted as blank; or precinct voter can override and accept.
Totally Blank Ballots: If operators can access a blank ballot, there must be a provision for resolution.	YES	Operators can examine a blank ballot, re-mark if needed and allowed, and then re-scan it.
Networking		
Wide Area Network – Use of Modems	NO	
Wide Area Network – Use of Wireless	NO	

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Feature/Characteristic	Yes/No	Comment
Local Area Network – Use of TCP/IP	YES	Client/server only
Local Area Network – Use of Infrared	NO	
Local Area Network – Use of Wireless	NO	
FIPS 140-2 validated cryptographic module	YES	
Used as (if applicable):		
Precinct counting device	YES	ImageCast Precinct
Central counting device	YES	ImageCast Central

Baseline Certification Engineering Change Orders (ECO)

ECO #	Component	Description
100607	ImageCast Central - HiPro Scanner configuration	Added Dell Optiplex 7060 and 7070.
100653	ImageCast Central Scanner Workstation	Added DELL Optiplex 5270 AIO computer.
100624	ImageCast Evolution	Alternative supplier (King Cord) for ICE power cord
100648	ImageCast Precinct 2	Update to the DR-G1130 Scanner LCD Panel User Interface.
100630	ImageCast Central	Added a scanner (Canon DR-G2140) for use with the D-Suite ImageCast Central workstation
100654	ImageCast Precinct2 PCOS 330A	Adding the ICP2 adapter plate for use with Eagle ballot box
100657	ImageCast Evolution PCOS 410A	Added Addmaster KR-85A printer as an AVL replacement
100669	ImageCast X Prime	Added RRC 2054-2 battery as an AVL for the ICX Prime replacement battery.

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1201 18TH STREET, SUITE 210 DENVER, CO 80202

June 29, 2020

Attn: Mona Harrington
Executive Director
United States Election Assistance Commission
1335 East West Highway, Suite 4300
Silver Spring, MD 20910
Email: MHarrington@eac.gov

sent via electronic transmission

RE: D-SUITE 5.5-C FINAL ATTESTATION

Dear Ms. Harrington:

Dominion Voting is in receipt of the Initial Decision on Certification. We thank the EAC for its diligence and effort during the testing of the Democracy Suite 5.5-C system. This letter fulfills the request in your letter dated December June 23, 2020. Dominion states, under penalty of law, that:

1. We have performed a trusted build consistent with the requirements of section 5.6 of the EAC's Certification Manual;

2. That software is deposited with the EAC and in accordance with section 5.7 of the EAC's Certification Manual. This item has been sent to Paul Aumayr of your office;

3. Dominion Voting has created and made available system identification tools consistent with section 5.8 of the EAC's Certification Manual. This item has been sent to Paul Aumayr of your office;

4. Upon a final decision to grant certification, Dominion voting accepts the certification and all conditions placed on the certification.

Once again, we thank the EAC for its work in this certification campaign. We look forward to continuing to work with the EAC as this system enters the Quality Monitoring Program.

Sincerely,

Ian S. Piper
Director, Federal Certification
Dominion Voting Systems, Inc.

Wendy Owens

Wendy Owens
VSTL Program Manager
ProV&V, Inc.

Cc: **Jerome Lovato** **(U.S. Election Assistance Commission)**
Paul Aumayr **(U.S. Election Assistance Commission)**
Michael Walker **(ProV&V, Inc.)**

Election Systems & Software
MAINTAINING VOTER CONFIDENCE. ENHANCING THE VOTING EXPERIENCE.
EXPERIENCE RELIABILITY SECURITY INNOVATION
11208 John Galt Boulevard · Omaha, NE 68137 USA
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www.essvote.com

January 17, 2020

VIA EMAIL
AND OVERNIGHT DELIVERY

Jerome Lovato
Director, Voting System Testing and Certification
U.S. Election Assistance Commission
1335 East West Highway, Suite 4300
Silver Spring, Maryland 20910

RE: Request for Election Systems & Software, LLC ("ES&S") Marketing Material

Dear Mr. Lovato:

ES&S is in receipt of your request for ES&S' marketing materials associated with ES&S' United States Election Assistance Commission's ("EAC") certified voting systems. Due to the volume and size of the materials being provided, ES&S is sending to your attention by overnight mail today, a thumb drive which contains ES&S' corporate marketing materials for ES&S' EAC Certified EVS 5.2.0.0 version through ES&S' most recent EAC certified EVS 6.1.0.0 version. Although many of the materials being provided are public documents and have been provided to customers as well as displayed on our website, ES&S respectfully requests that the EAC not publicly disclose any information provided without first contacting ES&S to determine if such materials being requested contain ES&S proprietary and confidential information or links to such ES&S' proprietary and confidential information.

Please be advised that it was never the intent of ES&S to state or imply that ES&S' DS200 modeming capability was EAC certified. Further, ES&S makes those states which allow for modeming fully aware that the modeming configuration has not been approved by the EAC.

In all cases, ES&S' voting system releases capable of modeming unofficial results are separate releases that are tested by NVLAP/EAC accredited voting system testing laboratories on behalf of those jurisdictions which allow for modeming of unofficial election results. In no case has ES&S ever represented to these jurisdictions these releases to be EAC certified.

In order to avoid any confusion with respect to ES&S' EAC certified voting systems and ES&S' voting systems which allow for the modeming of unofficial results, ES&S has removed all references in its current corporate marketing materials related to the "optional use" of modems. Included please see updated ES&S corporate marketing materials for ES&S' products, including ES&S' DS200 marketing material as this is the only ES&S voting system unit which can allow for modeming of unofficial election results.

If you have any questions or need additional information, please do not hesitate to contact me directly.

Sincerely,

Steve Pearson
Senior Vice President of Certification

cc: Kathy Rogers – ES&S

January 7, 2020

Chairwoman Christy McCormick
Vice Chair Benjamin Hovland
U.S. Election Assistance Commission
1335 East West Highway, Suite 4300
Silver Spring, Maryland 20910
cmccormick@eac.gov
bhovland@eac.gov

RE: **Request to investigate ES&S for misrepresentations regarding EAC certification of voting machines with modems**

Dear Chairwoman McCormick,

We write to you to request that the Election Assistance Commission (EAC) initiate an inquiry and investigation into Elections Systems & Software (ES&S). ES&S may have violated, and likely continues to violate, Sections 5.14 and 5.15.1 of the EAC Testing and Certification Program Manual Version 2.0 (May 31, 2015) (TCPM)[1] by representing or implying that the DS200 with modem configuration is EAC certified when in fact only the DS200 *without* modem is EAC certified.[2] ES&S also may have violated Section 5.16 by failing to warn purchasers that adding an uncertified modem to the DS200 will void the EAC certification of the voting system in its entirety. The EAC should investigate this misconduct, require corrective action, and determine whether to suspend ES&S's manufacturer registration.

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[1] Election Assistance Commission, Testing & Certification Program Manual v.2 (May 31, 2015), *available at* http://bit.ly/2tzHgQq.

[2] ES&S EVS 5.0.0.0 Certificate of Conformance, *available at* http://bit.ly/352lkLq (May 16, 2013). The ES&S EVS 5.0.0.0 Certificate of Conformance and all documents cited hereafter relating to the certification of the EVS 5.0.0.0 are available at https://www.eac.gov/voting-equipment/evs-5000/.

1. Background

ES&S manufactures the DS200, a precinct-based ballot scanner and vote tabulator. The EAC certified the DS200 without a modem in 2009, under the Voluntary Voting Systems Guidelines Version 1.0 (VVSG 1.0) as part of the certification of the ES&S Unity 3200 system.[3] In 2011, ES&S submitted a new voting system, the EVS 5.0.0.0, to the EAC for certification. As part of the EVS 5.0.0.0 system, ES&S sought certification of the DS200 as a stand-alone precinct scanner, as a precinct scanner with wired modem capability, and as a precinct scanner with wireless network capability. The testing agency subsequently developed a draft certification test plan to test all three versions of the DS200.[4] However, on August 13, 2012, ES&S withdrew both the wired modem and wireless transmission configurations of the DS200 from their application process.[5] Thereafter, the testing agency revised its test plan and tested the EVS 5.0.0.0 system, including the DS200 only as a stand-alone precinct scanner.[6] This version of the EVS 5.0.0.0 system—which does not include either a wired modem or wireless transmission configuration of the DS200—was certified by the EAC to VVSG 1.0 standards on May 13, 2013.[7] Since initial certification, it is our understanding that ES&S has not submitted a wired modem or wireless configuration of the DS200 for EAC testing or certification.

2. Misrepresentations

Despite withdrawing the wired modem and wireless configurations of the DS200 from the certification process, ES&S continues to offer the modem configuration as an optional add-on to the DS200. Through a "product one-sheet" currently available on the ES&S website and appended to this letter as Attachment A, ES&S identifies the DS200 "optional wireless modem results transfer with

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[3] iBeta Quality Assurance, "Election Systems & Software Unity 3.2.0.0 Voting System VSTL Certification Test Report (2009), *available at* https://www.eac.gov/documents/2009/7/22/ess-unity-3200-test-report-ver-40-ibeta/.

[4] Wyle Laboratories, Certification Test Plan, Certification Test Plan No. T59087.01, Manufacturer System EVS 5.0.0.0 (March 22, 2012).

[5] Steve Pearson, Vice President, Certification, ES&S, Letter to U.S. Election Assistance Commission Re: EVS 5.0.0.0 Scope Revision (August 13, 2012).

[6] Wyle Laboratories, Certification Test Plan, Certification Test Plan No. T59087.01 REV D, Manufacturer System EVS 5.0.0.0 (March 22, 2012).

[7] ES&S EVS 5.0.0.0 Certificate of Conformance; Alice P. Miller, U.S. Election Assistance Commission, Letter to Steve Pearson, Vice President, Certification, ES&S, Re: Agency Decision—Grant of Certification (May 16, 2013); Wyle Laboratories, Test Report, Report No. T59087.01-01 Rev A (May 1, 2013).

encryption" as an example of the scanner's "comprehensive" key features.[8] ES&S also distributes the one-sheet, past versions of the one-sheet, and similar materials to potential buyers, including Cuyahoga County, Ohio (2018),[9] South Dakota (2018),[10] Tioga County, Pennsylvania (2019),[11] North Carolina (2019),[12] and Boone County (2019).[13] ES&S also has produced and disseminated at least one other similar DS200 brochure, appended to this letter as Attachment B, including to Grand Traverse, Michigan.[14] It is our understanding that ES&S has produced and distributed these one-sheets and similar promotional materials, featuring both the "EAC certified" logo and the wireless modem as an available option, since approximately 2016, and possibly earlier.

3. Violations of the Testing and Certification Program Manual

ES&S's advertisements violate Sections 5.14 and 5.15.1 of the TCPM by falsely stating or implying that the DS200, when purchased with the optional wireless modem, is certified to EAC standards. The EAC requires that manufacturers accurately display its mark of certification and avoid misleading potential buyers into believing that a system, or any component thereof, is certified when it is not.

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[8] *See* ES&S "DS200 Precinct Scanner & Tabulator" (2016), *available at* https://www.essvote.com/wp-content/uploads/2019/07/DS200_One-Sheet.pdf (last visited Dec. 11, 2019). As of December 11, 2019, the document can be found by visiting the DS200 product page on the ES&S website, *available at* https://www.essvote.com/products/ds200/, where ES&S provides the "product one-sheet" as a download.

[9] ES&S, "Cuyahoga County, Ohio Tabulation Equipment Survey" p. 103-04 (Nov. 9, 2018), *available at* http://bit.ly/33Wa6al.

[10] ES&S Information Sheets, DS200 Product One-Sheet at p.3-4, *available at* http://bit.ly/33ScZJ9.

[11] ES&S DS200 Product One-Sheet, *available at* http://bit.ly/2RJRdVo.

[12] ES&S DS200 Product One-Sheet, *available at* http://bit.ly/362eJko. The document can be found with other ES&S materials provided to the North Carolina State Board of Elections (NC SBE), which can be found and downloaded through the NC SBE, *at* https://dl.ncsbe.gov/index.html?prefix=State_Board_Meeting_Docs/2019-07-28/Certification/Voting%20System%20Certification/ESS/.

[13] ES&S DS200 Product One-Sheet, included in Boone County Commission proceedings at 300-01 (July 16, 2019), *available at* http://bit.ly/34f58Fw. *See id.* at pp. 99-342 (documents related to Boone County purchase of ES&S equipment)

[14] DS200 Product Brochure, *available at* http://bit.ly/36nZXVl.

TCPM Section 5.14 provides that:

> Manufacturers may not represent or imply a voting system is EAC certified unless it has received a Certificate of Conformance for the system. Statements regarding EAC certification in brochures, on websites, on displays, and in advertising/sales literature must be made solely in reference to specific systems. Any action by a Manufacturer to suggest EAC endorsement of its product or organization is strictly prohibited and may result in a Manufacturer's suspension or other action pursuant to Federal civil and criminal law. Manufacturers must provide a copy of the Certificate and Scope of Certification document (found at www.eac.gov) to any jurisdiction purchasing an EAC certified system.[15]

Under Section 5.15.1, the TCPM also provides that:

> The Manufacturer may use only the Mark of Certification that accurately reflects the certification held by the voting system as a whole. The certification of individual components or modifications shall not be independently represented by a Mark of Certification. In the event a system has components or modifications tested to various (later) version of the VVSG, the system shall bear only the Mark of Certification of the standard to which the system (as a whole) was tested and certified (i.e. the lesser standard). Ultimately, a voting system shall only display the Mark of Certification of the oldest or least rigorous standard to which any of its components are certified.[16]

Pursuant to Section 5.16, the TCPM also requires that "[t]he user's manual or instruction manual for a certified voting system shall warn purchasers that any changes or modifications to the system not tested and certified by the EAC will void the EAC certification of the voting system."[17]

ES&S has not followed the standards set forth in the TCPM. It displays the mark of certification on its website page for the DS200 and on other advertising materials sent or otherwise made available to election officials. The advertisements

[15] EAC Testing and Certification Program Manual Version 2.0 § 5.14 (May 31, 2015) (hereinafter "TCPM").
[16] TCPM § 5.15.1 (emphasis added).
[17] TCPM § 5.16 (emphasis added).

clearly indicate to buyers that the DS200—alone or with its optional features, including the modem—is fully certified by the EAC. Election officials easily could be misled into purchasing the DS200 with a wireless modem configuration, not realizing that the modem is uncertified, and that under Section 5.15.1 and Section 5.16, the modem's addition to the DS200 would void its certification and indeed, would void the certification of the entire system.

ES&S may also be misrepresenting the modem as certified throughout the procurement process, which may qualify as an additional violation of the TCPM. In 2014, for example, in response to the Maryland State Board of Elections Request for Proposal (RFP) for an election system, ES&S submitted a proposal for its EVS 5.2.0.0, which Maryland accepted.[18] It is our understanding that during the procurement process, ES&S proposed the addition of a modem to the DS200 without indicating that its addition would void the system's EAC certification. Ultimately, after providing Maryland with a more expensive version of the EVS that included DS200 with modems, ES&S had to refund $1.2 million to the state of Maryland and remove modems from the already distributed machines.[19] ES&S may well have violated Section 5.16 by failing to warn the Maryland State Board of Elections that installing the modems in the DS200 voided the system's certification.

In Rhode Island, ES&S submitted a proposal in response to the state's RFP for a new voting system.[20] In its proposal, ES&S repeatedly claimed that its voting system, the EVS 5.2.0.3, was EAC certified.[21] Although it acknowledged that modem transmissions were not part of the EAC certification process, ES&S did not

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[18] Maryland State Board of Elections Request for Proposals, No. D38B4400019 (July 22, 2014); State of Maryland State Board of Elections, Meeting Minutes—October 30, 2014, at p. 9, *available at* http://bit.ly/2PAtaWj.

[19] State of Maryland State Board of Elections, Meeting Minutes—July 17, 2015, at p. 5-6, *available at* http://bit.ly/36rGmUo; State of Maryland State Board of Elections, Meeting Minutes—August 27, 2015, at p. 4, *available at* http://bit.ly/38DLkPM.

[20] ES&S, "Enhancing the Election Process for the State of Rhode Island: Request for Proposal RFP #9549934 Voting Equipment System (Oct. 30, 2015) (hereinafter ES&S Rhode Island Proposal). Relevant excerpts are appended to this letter as Attachment C, and we have made the entire document available on the Free Speech For People website, at http://bit.ly/2LIMFLh.

[21] *Id.* at 9 ("Certified Proven Products—ES&S is bidding the proven DS200 precinct based scanner."); *id.* at 55 ("Designed and federally certified to meet the rigorous security standards of the 2005 Voluntary Voting Systems Guidelines, the operating system controls, limits, and detects unauthorized access to all critical system components."); *id.* at 117 ("The proposed version of the DS200 is the latest version of the DS200 which is certified to the U.S. EAC VVSG 2005 standard . . . .").

disclose that use of non-certified components will void the entire system's EAC certification.[22] ES&S also submitted a diagram that coded the DS200 with internal wireless modem as being part of the "EAC Certified Configuration."[23] Furthermore, though the diagram showed a system that integrated EAC-certified and non-certified components, ES&S did not clarify that under EAC guidelines, inclusion of <u>any</u> non-certified component in a voting system would void the entire system's certification. ES&S may well have violated Section 5.15.1, as well as 5.16 by failing to disclose to the Rhode Island Board of Elections that the EVS 5.2.0.3 may no longer be EAC certified if used with the DS200 with internal modems.

The TCPM correctly recognizes that an election technology manufacturer cannot be allowed to falsely claim certification that its systems have not earned. And ES&S's omissions in its advertisements and procurement-related communications do precisely this. Though the EVS 5.0.0.0 and its subsequent versions are certified, inclusion of the uncertified modem <u>voids the entire system's certification</u>. ES&S clearly violates the TCPM by omitting this information from its advertisements and its procurement communications.

Courts throughout the country have long recognized that omission of material facts may void contracts and give rise to cognizable claims for damages against the omitting party. As the Supreme Court recently confirmed,"[b]ecause common-law fraud has long encompassed certain misrepresentations by omission, 'false or fraudulent claims' include more than just claims containing express falsehoods . . . misrepresentations by omission can give rise to liability."[24] Omission of critical information about "statutory, regulatory, or contractual requirements" may well result in "misleading half-truths" that give rise to cognizable claims of fraudulent misrepresentation.[25]

But counties and states should not have to resort to contract disputes with election vendors. They must be able to trust the accuracy of vendor assurances about EAC certification.

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[22] *See id*. at 49 (noting that modem transmissions were not part of the EAC certification process).
[23] *Id.* at 166-67.
[24] *Universal Health Servs., Inc. v. United States*, 136 S. Ct. 1989, 1999 (2016).
[25] *Id*. at 2001. Though federal contract law does not govern ES&S's fraudulent misrepresentations, omission of material fact is recognized as a form of fraud in states throughout the country, including those in which ES&S has contracted.

4. Requested action

The EAC should rigorously apply its standards and protections, and take swift response where vendors make false and misleading claims. Section 5.15.4 of the Testing and Certification Program Manual provides a broad range of remedies for vendor misrepresentation of certification status, including requiring corrective action, decertification, and manufacturer suspension:[26]

> If the EAC determines a voting system is not in compliance with the VVSG, and the system has already been sold or otherwise distributed bearing the Mark of Certification, the EAC shall provide written notice to the Manufacturer. If the Manufacturer fails to take corrective action within 15 days of receipt of such notice, the EAC shall have the right to announce publicly that the voting system may no longer comply with its original certification, and may choose to initiate decertification actions as outlined in Chapter 7 of the *Manual*, and/or suspension of Manufacturer Registration as outlined in Section 2.6 of the *Manual*. Corrective action may include modification of the voting system to bring it into compliance with the VVSG, or removal of the Mark of Certification from the product.

(Section 5.15.4)

For this reason, we strongly urge the EAC to investigate ES&S's alleged violations of Sections 5.14, 5.15.1, and 5.16. And if ES&S requests an opportunity to cure its violations, the EAC should require substantive action on the vendor's part. Simply removing the advertisements or adding curative language is necessary, but not sufficient. ES&S must take proactive steps to correct its error, including but not limited to negotiating with parties that have purchased the equipment to reach an appropriate settlement of damages; running public advertisements in all states that have, or are considering the purchase of the DS200, to acknowledge and correct the omissions; and conducting public forums for voters who have had to, or may have to, vote on modem-equipped DS200 machines. Furthermore, the EAC should subject ES&S to rigorous overview of its advertisements for such period of time as necessary to reassure voters throughout the country that ES&S has learned to accurately advertise its certifications. Finally,

[26] Section 2.6 provides that "[w]hen Manufacturers violate the certification program's requirements by engaging in management activities inconsistent with this Manual or failing to cooperate with the EAC, their registration may be suspended until such time as the issue is remedied." Under Section 2.6.2, suspension of registration means that "[a] suspended Manufacturer may not submit a voting system for certification."

the EAC should reserve the right, based on information derived from its investigation or if ES&S is any way uncooperative, to suspend the company's registration indefinitely.

States and counties across the country rely upon the EAC certification process to guide their choice in voting systems and vendors. And the EAC correctly requires vendors to advertise certification only when *all* components of the advertised system has been thoroughly tested and certified by the EAC. Rules 5.14, 5.15.1, and 5.16 are important rules that protect purchasing states and counties, and through them, the voters, from having to cast votes on systems that have not been properly vetted by the EAC. ES&S has repeatedly advertised its DS200 with internal modem—a critical component to ES&S's voting systems—as being EAC certified when, in fact, it is not. We therefore again respectfully request that EAC investigate and take action to correct this serious issue.

Sincerely,

Courtney Hostetler, Counsel
Ronald A. Fein, Legal Director
John C. Bonifaz, President
Ben T. Clements, Chair of the Board
Free Speech For People
1320 Centre St. #405
Newton, MA 02459
(617) 249-3015
chostetler@freespeechforpeople.org

Susan Greenhalgh
Vice President of Policy and Program
National Election Defense Coalition

ATTACHMENT A

DS200®

Precinct Scanner & Tabulator

Protective Cover

Cover has heavy-duty rubber seal to shelter DS200 from elements during transport.

Easy to Set Up

Lid-up, power-on approach allows poll workers to easily open polls.

Touch Screen and Display

Provides voters with instructions and immediate feedback. Tension bearings hold screen in place for custom positioning.

Ballot/Card Slot

Voters cast both ballots and vote summary cards here; accommodates up to 19-inch ballots.

Auxiliary Ballot Compartment

Main Ballot Compartment

Easy, hassle-free storage of up to 2,500 ballots.

11

The number of 14-inch flat ballots processed per minute

Version 3

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DS200 Key Features

The DS200 is a precinct-based scanner and vote tabulator equipped with the latest in ES&S' patented technology. Fully certified and compliant with EAC guidelines, the DS200 enhances the voting experience for voters and election officials alike. Our patented IMR® and PTRAC® technology ensures even the most poorly marked ballots are read accurately and consistently — protecting voter intent. All of this is designed to make everyone's job easier.

ACCURATE

The DS200 combines the ES&S-patented Intelligent Mark Recognition (IMR®) and patented Positive Target Recognition & Alignment Compensation (PTRAC®) systems to accurately track and pinpoint target locations. This technology accommodates ballots inserted at angles or with erroneous marks to uphold voter intent. This precision improves the reliability of elections.

SECURE

Like all ES&S tabulation equipment, the DS200 includes physical security features such as locking panels and security seals to secure sensitive components and election files, and a key-locked case for transport and shipping. The DS200 operating system controls, limits and detects unauthorized access to all critical data. The system also includes safeguards, such as data encryption and digital signatures, that help protect sensitive data and verify authenticity, including certification of all firmware.

RELIABLE

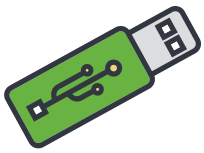
Having both battery backup and thermal paper means you never have to worry about power outages or printer ink.

COMPATIBLE

Works in conjunction with:

- ExpressVote® Universal Voting System
- DS450® High-Throughput Scanner & Tabulator
- DS850® High-Speed Scanner & Tabulator
- Electionware® Election Management Software
- AutoMARK® Ballot Marking Device
- Election Reporting Manager®

COMPREHENSIVE



- Optional wireless modem results transfer with encryption
- Primary data storage device
- Backup data storage
- Data sent via Secure File Transfer Protocol (SFTP) server

For more information visit ***www.essvote.com***

ATTACHMENT B

PRECINCT SCANNER AND TABULATOR

DS200®

BECAUSE WHO WANTS TO BE STUCK INSIDE COUNTING BALLOTS?

The DS200 is a precinct-based scanner and vote tabulator equipped with the latest in ES&S' patented technology to make your job easier. Fully certified and compliant with EAC guidelines, the DS200 enhances the voting experience for voters and officials alike.

Our patented IMR™ and PTRAC™ technology ensures even the most poorly marked ballots are read accurately and consistently — protecting voter intent. This technology greatly reduces time spent manually adjudicating as it automatically verifies voter marks.

Intelligent, integrated, digital, patented, flexible, easy to use, reliable, secure, certified and accessible – the DS200 is the answer to your precinct-level election needs.

CERTIFIED EAC CERTIFIED

Faster election results and greater voter confidence

KEY FEATURES

LARGE CAPACITY

Handles up to 9,900 precincts for early voting needs.

SPEED

Completely processes both sides of a ballot in six seconds or less. Handles bent or folded ballots with ease.

ACCURACY

DS200 combines the ES&S patented Positive Target Recognition & Alignment Compensation (PTRAC™) and patented Intelligent Mark Recognition (IMR™) systems to positively track and pinpoint target locations, accommodating for ballots inserted at irregular angles or with erroneous marks to create unparalleled accuracy in determining voter intent. This accuracy improves the reliability of elections.

ACCESSIBILITY

Compatible with the ES&S ExpressVote® Universal Voting System and AutoMARK® Americans with Disabilities Act (ADA)-compliant ballot-marking device.

RELIABILITY

Battery backup in case of a power outage and thermal paper means you never have to worry about power outages or running out of printer ink.

COMPATIBILITY

Works in conjunction with ES&S' Electionware® and Election Reporting Manager® software, ADA-compliant marking devices (AutoMARK® or ExpressVote®), the DS450™ and DS850® central scanner and tabulators and plastic or metal ballot bins to provide a complete end-to-end election solution.

AVAILABLE OPTIONS

Wireless modem and capacity to send data via Secure File Transfer Protocol (SFTP) server; backup data storage in addition to being a primary data storage device.

ATTACHMENT C

ENHANCING THE ELECTION PROCESS FOR THE STATE OF RHODE ISLAND

REQUEST FOR PROPOSAL
RFP #9549934 VOTING EQUIPMENT SYSTEM

October 30, 2015

ORIGINAL

State of Rhode Island and Providence Plantations
Department of Administration
Division of Purchases

RIVIP BIDDER CERTIFICATION COVER FORM

SECTION 1 - BIDDER INFORMATION

Bidder must be registered as a vendor on the RIVIP system at www.purchasing.ri.gov to submit a bid proposal.

Solicitation Number:	7549934
Solicitation Title:	RFP-VOTING EQUIPMENT SYSTEM (81 pages)
Bid Proposal Submission Deadline Date & Time:	10/30/2015 10:00 AM
RIVIP Vendor ID #:	18999
Bidder Name:	Election Systems And Software
Address:	11208 John Galt Blvd. Omaha , NE 68137 USA
Telephone:	402-938-1440
Fax:	402-970-1276
Contact Name:	Tamara Kaup
Contact Title:	Manager of Proposals
Contact Email:	bids@essvote.com

SECTION 2 —DISCLOSURES

Bidders must respond to every statement. Bid proposals submitted without a complete response may be deemed nonresponsive.

Indicate "Y" (Yes) or "N" (No) for Disclosures 1-4, and if "Yes," provide details below. Complete Disclosure 5. If the Bidder is publicly held, the Bidder may provide owner information about only those stockholders, members, partners, or other owners that hold at least 10% of the record or beneficial equity interests of the Bidder.

N 1. State whether the Bidder, or any officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder or any parent, subsidiary, or affiliate has been subject to suspension or debarment by any federal, state, or municipal governmental authority, or the subject of criminal prosecution, or convicted of a criminal offense within the previous 5 years. If "Yes," provide details below.

N 2. State whether the Bidder, or any officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder or any parent, subsidiary, or affiliate has had any contracts with a federal, state, or municipal governmental authority terminated for any reason within the previous 5 years. If "Yes," provide details below.

N 3. State whether the Bidder, or any officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder or any parent, subsidiary, or affiliate has been fined more than $5000 for violation(s) of any Rhode Island environmental law(s) by the Rhode Island Department of Environmental Management within the previous 5 years. If "Yes," provide details below.

N 4. State whether any officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder is serving or has served within the past two calendar years as either an appointed or elected official of any state governmental authority or quasi-public corporation, including without limitation, any entity created as a legislative body or public or state agency by the general assembly or constitution of this state.

5. List each officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder, and each intermediate parent company and the ultimate parent company of the Bidder. For each individual, provide his or her name, business address, principal occupation, position with the Bidder, and the percentage of ownership, if any, he or she holds in the Bidder, and each intermediate parent company and the ultimate parent company of the Bidder.

Disclosure details (continue on additional sheet if necessary):

Management Board
* Aldo Tesi - Chairman, Election Systems & Software, LLC, 11208 John Galt Boulevard, Omaha, NE 68137
* Michael R. McCarthy - Board Member of ES&S, Chairman of McCarthy Group, LLC, 1601 Dodge Street, Suite 3800, Omaha, NE 68102
Officers (all located at Election Systems & Software, LLC, 11208 John Galt Boulevard, Omaha, NE 68137)
Thomas E. Burt - President and Chief Executive Officer; Thomas F. O'Brien - Executive Vice President, Finance, Treasurer and Chief Financial Officer; Kathy Rogers - Senior Vice President, Government Relations; Ken Carbullido - Senior Vice President, Innovations; Matthew Nelson - Senior Vice President, Sales; Jim Schmidt - Senior Vice President, Manufacturing; Richard Jablonski - Vice President, Finance and Secretary; Steve Bolton - Vice President, Intellectual Property; Gary Weber - Vice President, Software Development; Eric Anderson - Vice President/General Counsel; Steve Pearson - Vice President, Certification; Adam Carbullido - Vice President, Release Management; Michele Feichtinger-Ernst - Vice President, Customer Service
Parent Company to ES&S - Government Systems, Software & Services, Inc. (Owns 100% of ES&S)

SECTION 3 —CERTIFICATIONS

Bidders must respond to every statement. Bid proposals submitted without a complete response may be deemed nonresponsive.

Indicate "Y" (Yes) or "N" (No), and if "No," provide details below.

THE BIDDER CERTIFIES THAT:

Y 1. The Bidder will immediately disclose, in writing, to the State Purchasing Agent any potential conflict of interest which may occur during the term of any contract awarded pursuant to this solicitation.

Y 2. The Bidder possesses all licenses and anyone who will perform any work will possess all licenses required by applicable federal, state, and local law necessary to perform the requirements of any contract awarded pursuant to this solicitation and will maintain all required licenses during the term of any contract awarded pursuant to this solicitation. In the event that any required license shall lapse or be restricted or suspended, the Bidder shall immediately notify the State Purchasing Agent in writing.

Y 3. The Bidder will maintain all required insurance during the term of any contract pursuant to this solicitation. In the event that any required insurance shall lapse or be canceled, the Bidder will immediately notify the State Purchasing Agent in writing.

Y 4. The Bidder understands that falsification of any information in this bid proposal or failure to notify the State Purchasing Agent of any changes in any disclosures or certifications in this Bidder Certification may be grounds for suspension, debarment, and/or prosecution for fraud.

Y 5. The Bidder has not paid and will not pay any bonus, commission, fee, gratuity, or other remuneration to any employee or official of the State of Rhode Island or any subdivision of the State of Rhode Island or other governmental authority for the purpose of obtaining an award of a contract pursuant to this solicitation. The Bidder further certifies that no bonus, commission, fee, gratuity, or other remuneration has been or will be received from any third party or paid to any third party contingent on the award of a contract pursuant to this solicitation.

Y 6. This bid proposal is not a collusive bid proposal. Neither the Bidder, nor any of its owners, stockholders, members, partners, principals, directors, managers, officers, employees, or agents has in any way colluded, conspired, or agreed, directly or indirectly, with any other bidder or person to submit a collusive bid proposal in response to the solicitation or to refrain from submitting a bid proposal in response to the solicitation, or has in any manner, directly or indirectly, sought by agreement or collusion or other communication with any other bidder or person to fix the price or prices in the bid proposal or the bid proposal of any other bidder, or to fix any overhead, profit, or cost component of the bid price in the bid proposal or the bid proposal of any other bidder, or to secure through any collusion, conspiracy, or unlawful agreement any advantage against the State of Rhode Island or any person with an interest in the contract awarded pursuant to this solicitation. The bid price in the bid proposal is fair and proper and is not tainted by any collusion, conspiracy, or unlawful agreement on the part of the Bidder, its owners, stockholders, members, partners, principals, directors, managers, officers, employees, or agents.

Y 7. The Bidder: (i) is not identified on the General Treasurer's list created pursuant to R.I. Gen. Laws § 37-2.5-3 as a person or entity engaging in investment activities in Iran described in § 37-2.5-2(b); and (ii) is not engaging in any such investment activities in Iran.

Y 8. The Bidder will comply with all of the laws that are incorporated into and/or applicable to any contract with the State of Rhode Island.

Certification details (continue on additional sheet if necessary):

Submission by the Bidder of a bid proposal pursuant to this solicitation constitutes an offer to contract with the State of Rhode Island through the Division of Purchases on the terms and conditions contained in this solicitation and the bid proposal. The Bidder certifies that: (1) the Bidder has reviewed this solicitation and agrees to comply with its terms and conditions; (2) the bid proposal is based on this solicitation; and (3) the information submitted in the bid proposal (including this Bidder Certification Cover Form) is accurate and complete. The Bidder acknowledges that the terms and conditions of this solicitation and the bid proposal will be incorporated into any contract awarded to the Bidder pursuant to this solicitation and the bid proposal. The person signing below represents, under penalty of perjury, that he or she is fully informed regarding the preparation and contents of this bid proposal and has been duly authorized to execute and submit this bid proposal on behalf of the Bidder.

BIDDER

Date: 10/27/2015

Election Systems & Software, LLC

Name of Bidder

Signature in ink

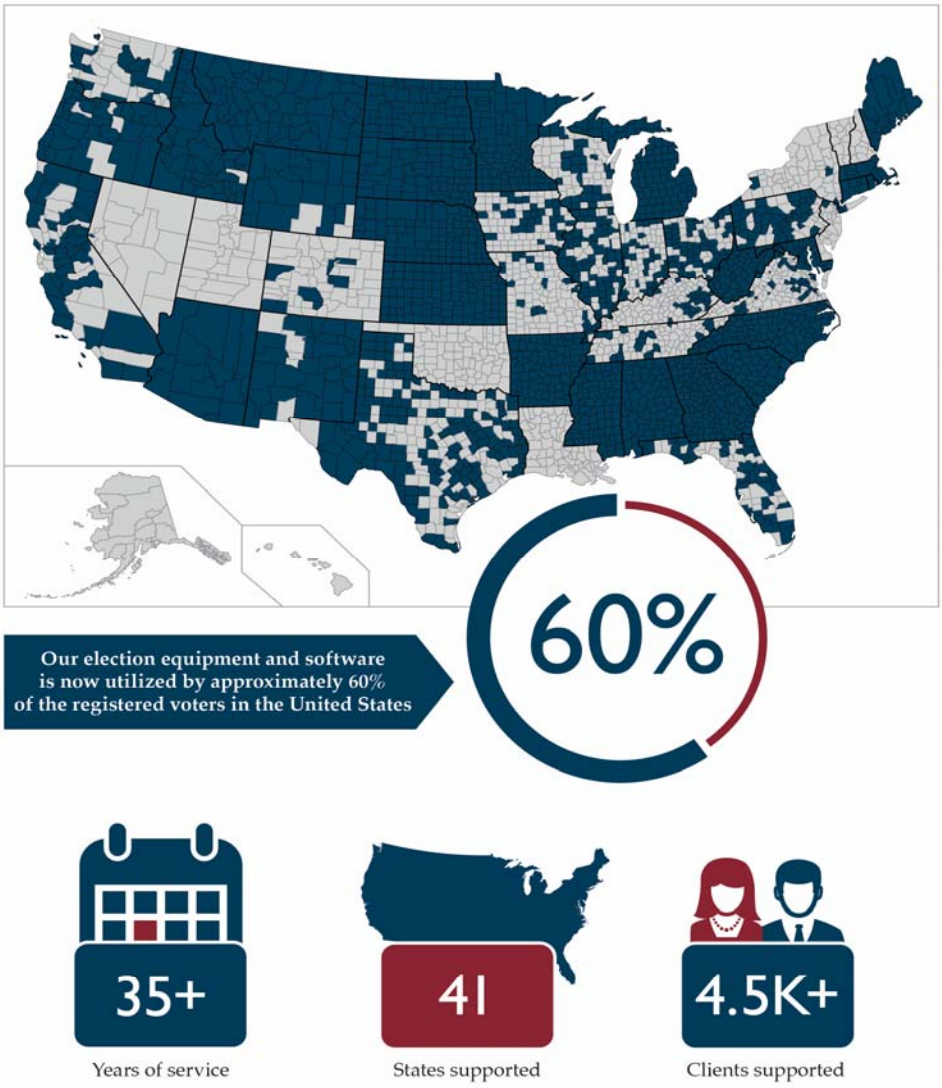
Richard J. Jablonski, Vice President, Finance

Printed name and title of person signing on behalf of Bidder

second to none and will provide invaluable during the implementation and first use of a new voting system.

- **Certified Proven Products –** ES&S is bidding the proven DS200 precinct based scanner. With more than 25,000 DS200's in use in 16 states and successfully tabulating millions of votes in jurisdictions like New York City, Miami and Minneapolis not to mention the states of Maine and Maryland, Rhode Island will be utilizing the industry's number 1 digital precinct solution..

Today, not only do we work with many of the same customers we've s supported for more than three decades, but our business has grown to serve 41 states and includes more than 4,500 clients. From our humble beginnings supporting a handful of election administrators and voters in 1979, our election equipment and software is now utilized by approximately 60% of the registered voters in the United States (see the figure that follows; Jurisdictions Using ES&S Equipment and Software are shown in dark blue).



2. Vendor must provide the following information for verification of completion of VSTL certification:
• Name, address, and telephone number of VSTL performing certification test
• Date of certification

ES&S RESPONSE

The base system, EVS,5.2.0.3, was VSTL tested by:

National Technical Systems (NTS)
7800 Hwy 20 West
Huntsville, AL 35806
256-837-4411

Date of VSTL Certification: July 22, 2015

Additional components not part of the Election Assistance Commission's certification process, including wireless transmission of election results were VSTL tested by NTS and certified August 21, 2015.

3. Provide a flow chart of the entire System and how each component integrates into it.

ES&S RESPONSE

Please see **Attachment B** for a flow chart of the system.

4. Describe any components of your system that are not part of the Elections Assistance Commission's certification process including but not limited to the wireless transmission of election results.

ES&S RESPONSE

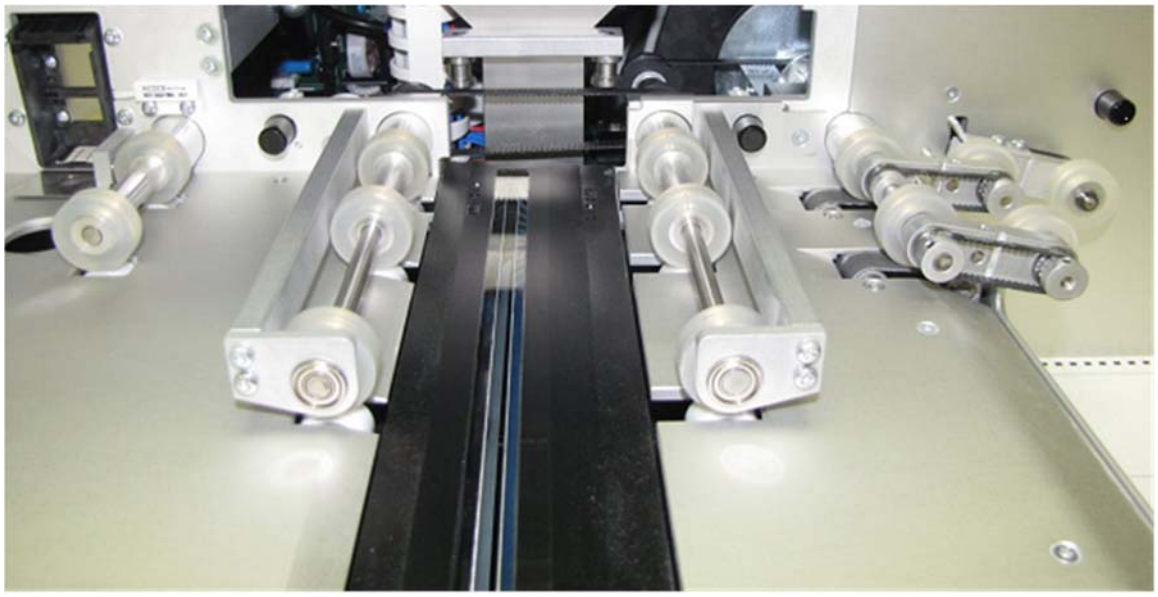
The following components are not part of the EAC's certification process:

- Electionware Toolbox – provides ballot test decks for L&A testing
- Modem transmission of results from the 9 towns with DS200's with wireless modems to the Central Tabulation Equipment (Voting System Test Lab (VSTL) Tested)
- The Firewall and Communications Server at the State Board of Elections that will receive the DS200 results transmissions from the DS200's with wireless modems at the 9 towns (VSTL Tested)
- The remote connection of Election Reporting Manager workstations at the 30 Regional Tabulation Equipment sites. The Election Reporting Manager application used at the Regional Tabulation Equipment sites is EAC certified.
- Ballot-on-demand Balotar printers
- Small and medium-sized font for printing on ExpressVote vote summary cards.

9. Describe if a voted ballot that contains a crease or other type of fold mark can be read by the precinct count unit and the central mail ballot counting unit. Attach individual ballots that can be read by a precinct count unit and central mail ballot counting unit containing a sample of creases and fold marks.

ES&S RESPONSE

Yes, a voted ballot that contains a crease or other type of fold mark can be read by the precinct count unit and the central mail ballot counting unit. Both the DS200 and DS850 have been uniquely designed to accept ballots that have been folded. The paper transports on both scanners safely guide previously folded ballots through the read heads to avoid paper jams or misreads and the scan speed approaches the processing speed for unfolded ballots. The DS850 uses a patented technology known as TruGrip™, to provide constant contact with each ballot. By using 22 axled, double-rollers, full control of the ballot is ensured from start to finish. A close-up of the DS850 TruGrip rollers is shown below:



Sample ballots are attached as **Attachment E.**

10. Describe what security measures are available to protect the operating system, application programs and data on all System equipment from unauthorized change.

ES&S RESPONSE

From concept to construction, ES&S adheres to industry-leading standards for quality and security.

Designed and federally certified to meet the rigorous security standards of the 2005 Voluntary Voting System Guidelines, the operating system controls, limits, and detects unauthorized access to all critical system components. The system also implements state-of-the-art safeguards against losses of system integrity, availability, confidentiality and accountability.

PREVIOUS EXPERIENCE AND BACKGROUND

PREVIOUS EXPERIENCE AND BACKGROUND – EQUIPMENT VENDOR

1. Provide the history of the proposed System, including whether the System proposed is the latest version of the equipment available that has been fully tested and currently in distribution.

ES&S RESPONSE

The DS200 was first manufactured in April 2007. By November 2008, more than 4,500 DS200 digital precinct scanners were built and successfully used in the Florida Primary and General elections. ES&S utilized Ricoh Electronics Inc. as its prime contract manufacturer for the DS200 from 2007-2009.

In 2009, the EAC certified the DS200 under 2002 Voting System Standards. During 2009, more than 8,000 DS200 digital scanners were successfully used in the primary and general elections in Florida and Ohio. In 2009, ES&S shifted responsibility for contract manufacturing to Pivot International, Inc, headquartered out of Lenexa, Kansas. Pivot conducts manufacturing operations out of its ISO 9001 certified facility in Manila, Republic of the Philippines.

In 2010 New York City, selected ES&S to provide DS200 digital scanners to support its 4.6 million voters. Five other counties in New York also chose the DS200 as their primary voting system. In 2012, the State of New York certified the DS200 under the 2005 Voluntary Voting Systems Guidelines (VVSG) and New York election law requirements. Less than a year later, in May 2013, the U.S. Election Assistance Commission (EAC) approved the certification of the DS200 under the 2005 VVSG standards.

As of today, ES&S has manufactured more than 24,000 DS200 scanners. By the end of 2015, ES&S will manufacture an additional 4,000 DS200 units bringing the total produced since the first build to over 21,000.

Today, more than 50 million registered voters in the United States and Canada can now cast their ballots via this state-of-the-art ballot scanner.

The proposed version of the DS200 is the latest version of the DS200 which is certified to the U.S. EAC VVSG 2005 standard and includes many enhancements in the areas of security, ballot processing speed, ballot handling, and voter and poll worker graphical interfaces.

The DS850 was first manufactured in 2009. The DS850 was first used in Colorado Springs Colorado in May of 2010. ES&S utilized DATAWIN Inc. as its prime contract manufacturer for the DS850.

In 2012, the EAC certified the DS850 under 2002 Voting System Standards. From 2009 to 2015 170 DS850 have been manufactured by DATAWIN, and are in use over 20 states from coast to coast

The DS850 was design to span the EAC standards and was also certified to the U.S. EAC VVSG 2005 standard.

The ExpressVote was first manufactured in 2014. By September of 2015, more than 5000 ExpressVotes were built and successfully deployed to customers across the US. Pivot International, Inc, headquartered out of Lenexa, Kansas is the original and current manufacture for the ExpressVote. Pivot conducts manufacturing operations out of its ISO 9001 certified facility in Manila, Republic of the Philippines.

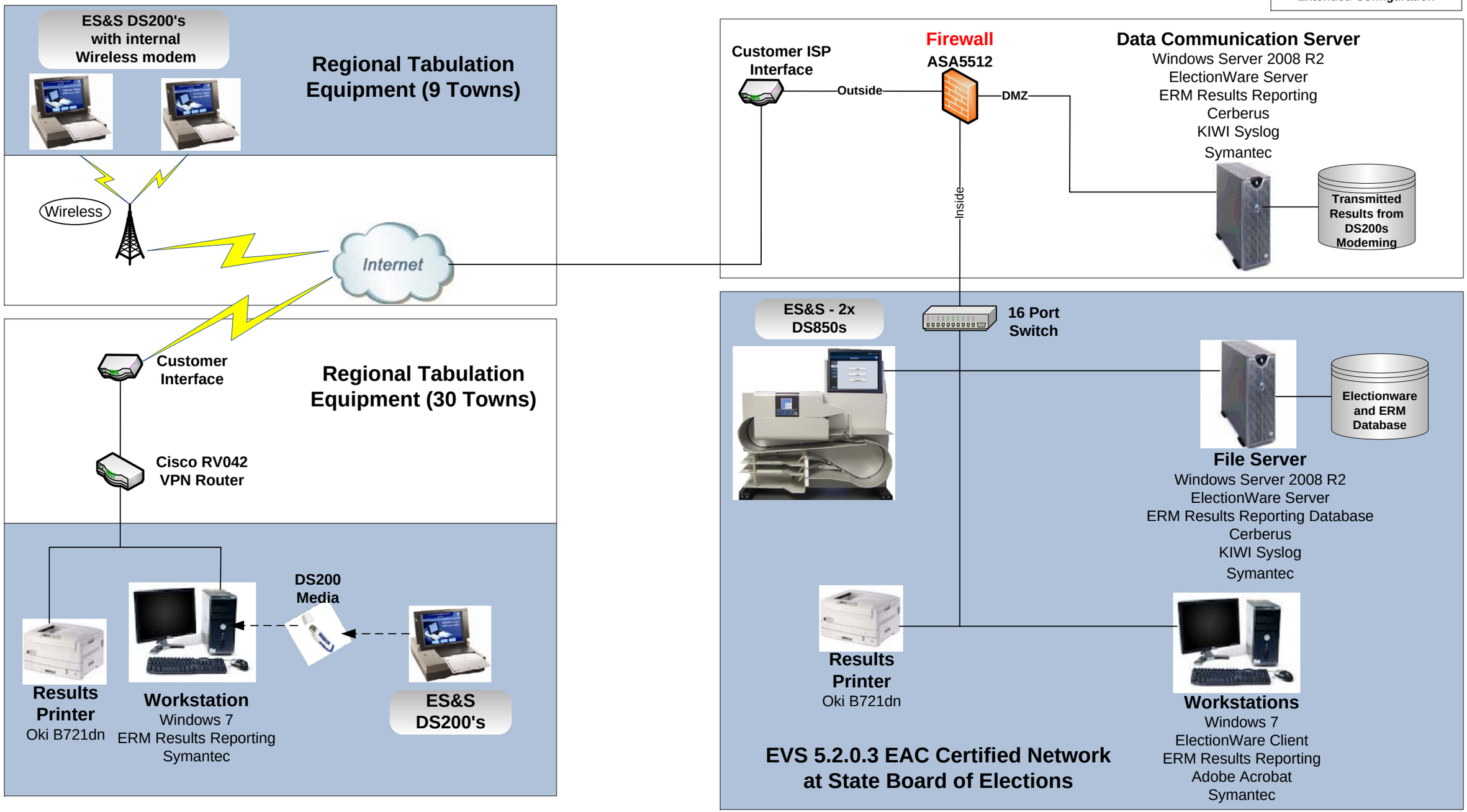
The current ExpressVote was certified to U.S. EAC VVSG 2005.

ELECTION SYSTEMS & SOFTWARE
MAINTAINING VOTER CONFIDENCE.
ENHANCING THE VOTING EXPERIENCE.

Rhode Island EVS 5.2.0.3/5.3.0.3 Statewide Network System Configuration

October 23, 2015

Legend: EAC Certified Configuration | Extended Configuration



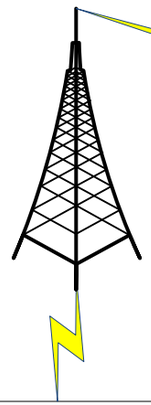
ELECTION SYSTEMS & SOFTWARE
MAINTAINING VOTER CONFIDENCE.
ENHANCING THE VOTING EXPERIENCE.

State of Rhode Island EVS 5.2.0.3/5.3.0.3 DS200 Modeming System Configuration

October 23, 2015

Legend
- EAC Certified Configuration
- Extended Configuration

Regional Tabulation Equipment (9 Towns)



ES&S DS200's with internal Wireless modem

9 Cities, Towns or Villages using a wireless modem in the DS200s to transmit results to the BOE Office

Internet

State Board of Elections

Customer ISP Interface

Outside

Firewall
ASA5512

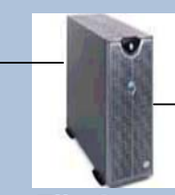
DMZ

Inside

Data Communication Server
Windows Server 2008 R2
ElectionWare Server
ERM Results Reporting
Cerberus
KIWI Syslog
Symantec

Transmitted Results from DS200s Modeming

16 Port Switch



Electionware and ERM Database

File Server
Windows Server 2008 R2
ElectionWare Server
ERM Results Reporting Database
Cerberus
KIWI Syslog
Symantec

Results Printer
Oki B721dn

Workstations
Windows 7
ElectionWare Client
ERM Results Reporting
Adobe Acrobat
IPSwitch
Symantec

EVS 5.2.0.3 EAC Certified Network at State Board of Elections

U.S. Election Assistance Commission

Print Form | Print Form | Submit by Email

Manufacturer Registration Application

OMB Control # 3265-0004

1. Manufacturer Information

Legal Name of Business: Hart InterCivic

Address of Business: 15500 Wells Port Drive

City: Austin **State:** Texas **ZIP Code:** 78728

Organization Type: ☑ Corporation ☐ Partnership ☐ Sole Proprietorship ☐ Other

Names of Officers, Board of Directors, and all Partners:
Board of Directors:
Devin Talbott (Chairman)

Name of Individual or Entity with Controlling Ownership in the Manufacturer: Enlightenment Capital

2. Management Representative

First Name: Pamela **Title:** Director, Certification and Propos

Last Name: Geppert **Middle Initial:**

Address: 15500 Wells Port Drive

City: Austin **State:** Texas

ZIP Code: 78728 **Email:** pgeppert@hartic.com

Phone Number: 512.626.4130 **FAX Number:** 866.391.1834

3. Technical Representative

First Name: Pamela **Title:** Director, Certification and Propos

Last Name: Geppert **Middle Initial:**

Address: 15500 Wells Port Drive

City: Austin **State:** Texas

ZIP Code: 78728 **Email:** pgeppert@hartic.com

Phone Number: 512.626.4130 **FAX Number:** 866.391.1834

4. Briefly describe your quality system (e.g. ISO 9001). Provide your written policies supporting this description as a part of this application:

Hart's Quality Management System is based on ISO-9001:2000.
Hart's ISMS is based on ISO-27001

5. Briefly describe your internal requirements for managing change control/version control for both hardware/firmware and software. Provide your written policies supporting this description as part of this application:

Hart's Document Control system is based on a Product Lifecycle Management system and supporting documentation for hardware and software definition, development, and maintenance.

6. Briefly describe your document retention requirements . Provide your written policies supporting this description as part of this application :

Hart's data/document retention requirements provide a minimum retention period of 7 years.

7. List the name, address, city, state/province, country, postal code, and phone number for all facilities used by your company to manufacture your voting system product, and the name, title, address, email address, and phone number for a person at each facility:

Virtex Enterprises
Virtex Enterprises
Contact: Eric Wichmann
Title: General Manager
12234A N Interstate Hwy 35
Austin, TX 78753
eric.wichmann@virtexassembly.com

8. Manufacturer Certification Agreement:

To maintain a voting system certification under the Election Assistance Commission (EAC) program, the manufacturer must agree to:

1. Represent a voting system as certified only when it is authorized by the EAC and consistent with the procedures and requirements of the Testing and Certification Program Manual (the Manual).

2. Produce and permanently affix an EAC certification label to all production units of the certified system.

3. Notify the EAC of changes to any system previously certified by the EAC pursuant to the requirements of the Manual.

4. Permit an EAC representative to verify manufacturer quality control by coordinating with EAC efforts to test and review fielded voting systems consistent with Section 8.6 of the Manual.

5. Permit an EAC representative to verify manufacturer quality control by conducting periodic inspections of manufacturing facilities consistent with Chapter 8 of the Manual.

6. Cooperate with any EAC inquiries and investigations into a certified system's compliance with voting system standards or the procedural requirements of the Manual.

7. Report to the Program Director any known malfunction of a voting system holding a current EAC Certification. A malfunction is defined as a failure of the voting system, not caused by operator or administrative error, which causes the system to fail or otherwise not operate as designed.

8. Certify that the manufacturer is not barred or otherwise prohibited by statute regulation or ruling from doing business in the United States.

9. Adhere to all procedural requirements of the Manual.

Pam Geppert

Signature (handwritten or digital)

Director, Certification and Propos

Title:

05/11/2020

Date:

EAC Use Only

Manufacturer's Designation:

Notes:

Instructions:

This form provides for the registration of voting system manufacturers. Registration is the initial required step in the EAC Voting System Certification Program. This form is prescribed by Section 2.4 of the Manual. For more information on registration requirements please see Section 2.4 of the Manual.

This form is generally self-explanatory however the numbers and the instructions below correspond to the numbered sections of the form.

1. Manufacturer Information.

Names of Officers and/or Board of Directors and/or any and all Partners: Ensure that all individuals are identified by name, and title.
Name of Individual or Entity with Controlling Ownership in the Manufacturer: Ensure that the controlling individual is properly named and an address is provided.

2. Management Representative.

Please provide the name and information requested for the designated Manufacturer Representative pursuant to Section 2.3 of the Manual.

3. Technical Representative.
Please provide the name and information requested for the designated Technical Representative pursuant to Section 2.3 of the Manual.

4, 5 and 6
Provide the information listed and attach to your submission the written documentation required by Section 2.3.1 of the Manual.

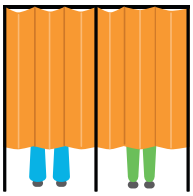
7. Manufacturer Certification Agreement
Manufacturers are required to take or abstain from certain actions consistent with the certification program. Your concurrence to these requirements is signified by affixing the signature of the manufacturer representative.

This information is required for the EAC to provide for the certification of voting systems as required by 42 U.S.C. Section 15371. This information will be used solely to administer the EAC Testing and Certification Program. This program is voluntary, however, individuals who wish to participate must meet the requirements of the Program. This information will be made public consistent with the requirements of the Freedom of Information Act, the Trade Secrets Act, and any other applicable Federal law or regulation. Public reporting burden for this collection of information is estimated to average about 9.75 hours for completion of this form. This estimate includes the time for reviewing the instructions, gathering information and completing the form. Send comments regarding this burden estimate to the Testing and Certification Program Director, Election Assistance Commission, 1335 East West Highway, Suite 4300, Silver Spring, MD 20910. Notwithstanding any other provision of law, no person is required to respond to, nor shall any person be subject to a penalty for failure to respond to, or comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number.

Hygiene & Cleaning Policy

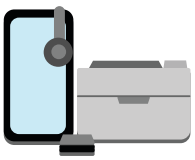
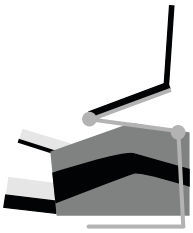
BEST PRACTICES FOR POLLING PLACES, POLL WORKERS & VOTING EQUIPMENT

Clear Ballot

	Materials	Process
Polling Places 	EPA-registered disinfectants	Clean frequently touched surfaces throughout the day, including • voting booths • tables • doorknobs • light switches • handles • desks • toilets • faucets • sinks
Voting Materials	EPA-registered disinfectants	Clean and disinfect shared pens or other ballot-marking tools throughout the day.
Poll Workers	• Soap and water • Alcohol-based hand sanitizer with at least 60% alcohol	Poll workers should wash hands frequently with soap and water for a duration of at least 20 seconds.
ClearCast	• Microfiber cloth dampened with window cleaner • Isopropyl alcohol wipes	*Touchscreen* Clean the touchscreen throughout the day with a microfiber cloth. *Body* Disinfect the machines throughout the day with isopropyl alcohol wipes.

WARNING: Do not spray or otherwise apply liquids directly on the interior or exterior of electronics, as this may damage the unit and void manufacturer warranty.

© 3/30/20 Clear Ballot Group, Inc.

	Materials	Process
ClearAccess 	*Recommended Cloths* • 3M Microfiber Electronics Cleaning Cloth • JP Case Microfiber Cleaning Cloth for Electronic Devices *Recommended Solutions* • U.S. Pharmacopeia (USP) green soap • Phenolic germicidal detergent (1% aqueous solution) • Cidex 2.4% Activated Glutaraldehyde Solution • 50% isopropyl alcohol mixed in 50% water solution • Steriplex • Novus 1	Clean the ClearAccess tablet, printer, and personal assistive devices prior to each election and periodically on Election Day at the direction of the county office. Use a recommended microfiber cleaning cloth to wipe the unit clean. If needed, apply one of the recommended cleaning solutions directly to the cleaning cloth, then use the cloth and cleaning solution in combination to further wipe the unit clean. Be sure the cloth is only damp, not wet or soaked.
ClearCount Central Scanners & Peripherals 	Manufacturer-approved, EPA-registered disinfectants *For Fujitsu Scanners* • A solution of 70% isopropyl alcohol and 30% in a spray bottle • 70% isopropyl alcohol wipes • Microfiber cleaning cloth	Clean and disinfect central scanners and associated peripherals (scanners, laptops, computer mice, keyboards, etc.) throughout the day. Spray the solution on a microfiber cleaning cloth and using it to gently wipe the LCD screens. Use the same solution OR 70% isopropyl alcohol wipes to gently clean the hard, nonporous surfaces that are in contact with humans.

For complete care on cleaning Fujitsu scanners, visit fujitsu.com/us/covid19/

WARNING: Do not spray or otherwise apply liquids directly on the interior or exterior of electronics, as this may damage the unit and void manufacturer warranty.

© 3/30/20 Clear Ballot Group, Inc.

U.S. Election Assistance Commission

Print Form | Submit by Email

Manufacturer Registration Application

OMB Control # 3265-0004

1. Manufacturer Information

Legal Name of Business: Election Systems & Software, LLC

Address of Business: 11208 John Galt Boulevard

City: Omaha State: NE ZIP Code: 68137

Organization Type: ☐ Corporation ☐ Partnership ☐ Sole Proprietorship ☑ Other

Names of Officers, Board of Directors, and all Partners:
Management Board
Aldo Tesi

Name of Individual or Entity with Controlling Ownership in the Manufacturer: Government Systems, Software & Services, Inc.

2. Management Representative

First Name: Steve Title: Sr. VP, Certification

Last Name: Pearson Middle Initial: M

Address: 11208 John Galt Boulevard

City: Omaha State: NE

ZIP Code: 68137 Email: smpearson@essvote.com

Phone Number: 402-212-4660 FAX Number: 402-970-1275

3. Technical Representative

First Name: Sue Title: VP, Federal Certification

Last Name: McKay Middle Initial: L

Address: 11208 John Galt Boulevard

City: Omaha State: NE

ZIP Code: 68137 Email: slmckay@essvote.com

Phone Number: 402-321-3840 FAX Number: 402-970-1275

4. Briefly describe your quality system (e.g. ISO 9001). Provide your written policies supporting this description as a part of this application:

Please see Folder #4 -
ES&S' Manufacturing Quality Assurance Program - This document describes the policies, processes and procedures employed by ES&S to ensure the overall quality of the manufacturing system and incoming parts.

ES&S' Software Quality Assurance Program - This document describes the policies, processes and procedures employed by ES&S to ensure the overall quality of the system for its initial development and release and for subsequent modifications and releases.

---

5. Briefly describe your internal requirements for managing change control/version control for both hardware/firmware and software. Provide your written policies supporting this description as part of this application:

Please see Folder #5 -
ES&S' System Development Program - This document describes the methods used by ES&S system development stakeholders to conduct system development efforts. The term "system development" includes the design, development, modification, reuse, reengineering, upgrades, maintenance, release management and all other activities resulting in ES&S system components.

---

6. Briefly describe your document retention requirements . Provide your written policies supporting this description as part of this application :

Please see Folder #6 -
ES&S' Technical Documentation Package Program - This document describes the roles, responsibilities structure and workflow of the ES&S development process for generating, staging and archiving Technical Data Packages (TDPs) for Voting System Test Laboratory (VSTL) and EAC review.

---

7. List the name, address, city, state/province, country, postal code, and phone number for all facilities used by your company to manufacture your voting system product, and the name, title, address, email address, and phone number for a person at each facility:

Please see Folder #7 -

ES&S' Product Manufacturer Facilities

8. Manufacturer Certification Agreement:

To maintain a voting system certification under the Election Assistance Commission (EAC) program, the manufacturer must agree to:

1. Represent a voting system as certified only when it is authorized by the EAC and consistent with the procedures and requirements of the Testing and Certification Program Manual (the Manual).

2. Produce and permanently affix an EAC certification label to all production units of the certified system.

3. Notify the EAC of changes to any system previously certified by the EAC pursuant to the requirements of the Manual.

4. Permit an EAC representative to verify manufacturer quality control by coordinating with EAC efforts to test and review fielded voting systems consistent with Section 8.6 of the Manual.

5. Permit an EAC representative to verify manufacturer quality control by conducting periodic inspections of manufacturing facilities consistent with Chapter 8 of the Manual.

6. Cooperate with any EAC inquiries and investigations into a certified system's compliance with voting system standards or the procedural requirements of the Manual.

7. Report to the Program Director any known malfunction of a voting system holding a current EAC Certification. A malfunction is defined as a failure of the voting system, not caused by operator or administrative error, which causes the system to fail or otherwise not operate as designed.

8. Certify that the manufacturer is not barred or otherwise prohibited by statute regulation or ruling from doing business in the United States.

9. Adhere to all procedural requirements of the Manual.

Sue McKay

Signature (handwritten or digital)

VP Federal Certification

Title:

04/30/2020

Date:

EAC Use Only

Manufacturer's Designation:

Notes:

Instructions:

This form provides for the registration of voting system manufacturers. Registration is the initial required step in the EAC Voting System Certification Program. This form is prescribed by Section 2.4 of the Manual. For more information on registration requirements please see Section 2.4 of the Manual.

This form is generally self-explanatory however the numbers and the instructions below correspond to the numbered sections of the form.

1. Manufacturer Information.

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Name of Individual or Entity with Controlling Ownership in the Manufacturer: Ensure that the controlling individual is properly named and an address is provided.

2. Management Representative.

Please provide the name and information requested for the designated Manufacturer Representative pursuant to Section 2.3 of the Manual.

3. Technical Representative.
Please provide the name and information requested for the designated Technical Representative pursuant to Section 2.3 of the Manual.

4, 5 and 6
Provide the information listed and attach to your submission the written documentation required by Section 2.3.1 of the Manual.

7. Manufacturer Certification Agreement
Manufacturers are required to take or abstain from certain actions consistent with the certification program. Your concurrence to these requirements is signified by affixing the signature of the manufacturer representative.

This information is required for the EAC to provide for the certification of voting systems as required by 42 U.S.C. Section 15371. This information will be used solely to administer the EAC Testing and Certification Program. This program is voluntary, however, individuals who wish to participate must meet the requirements of the Program. This information will be made public consistent with the requirements of the Freedom of Information Act, the Trade Secrets Act, and any other applicable Federal law or regulation. Public reporting burden for this collection of information is estimated to average about 9.75 hours for completion of this form. This estimate includes the time for reviewing the instructions, gathering information and completing the form. Send comments regarding this burden estimate to the Testing and Certification Program Director, Election Assistance Commission, 1335 East West Highway, Suite 4300, Silver Spring, MD 20910. Notwithstanding any other provision of law, no person is required to respond to, nor shall any person be subject to a penalty for failure to respond to, or comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number.

July 14, 2020

Jerome Lovato
Director of Voting System Testing & Certification
U.S. Election Assistance Commission
Voting System Testing and Certification Program
1335 East West Highway, NW, 1100
Washington, DC 20005

Dear Mr. Lovato,

As set forth in Section 5.9 of the EAC Testing and Certification Program Manual v. 1.0 and the instructions of the July 8, 2020 Initial Decision on Certification of the Election Systems & Software, Inc. EVS 6.0.3.0 Voting System:

- Pro V&V completed Trusted Builds on the EVS 6.0.3.0 Voting System on 06/23/2020. Pro V&V confirms the procedure documented in the Pro V&V EVS 6.0.3.0 Test Report is consistent with the trusted build requirements in Section 5.6 of the manual. The EAC provided acknowledgement of their receipt of this report on 06/23/2020.

- Pro V&V confirms that in conjunction with delivery of this letter and per Section 5.7 of the EAC Testing and Certification Program Manual v. 1.0, Pro V&V prepared and submitted to the EAC (the designated repository per the October 16, 2008 letter from the EAC) the following:
  - 5.7.1 Source Code used for the trusted build and its file signatures
  - 5.7.2 Disk Image of the pre-build, build environment, and any file signatures to validate that it is unmodified
  - 5.7.3 Disk Image of the post-build, build environment, and any file signatures to validate that it is unmodified
  - 5.7.4 Executable code produced by the trusted build and its files signatures of all files produced.
  - 5.7.5 Installation device(s) and file signatures

  This was shipped via Fed Ex on USB hard drive on 07/14/2020.

"Maintaining Voter Confidence. Enhancing the Voting Experience."
11208 John Galt Boulevard• Omaha, NE 68137 USA • Phone: 402.593.0101 • Toll-Free: 1.800.247.8683 • Fax: 402.593.8107 • www.essvote.com

ELECTION Systems & Software
maintaining voter confidence. enhancing the voting experience.

- In conjunction with delivery of this letter, Election Systems & Software, Inc. prepared and submitted to the EAC (the designated repository) on July 14, 2020 the following system identification tools:

    - ESSSYS_6’0’3’0_D_VerificationPack
    - ESSSYS_6’0’3’0_D_VerProc_DS200
    - ESSSYS_6’0’3’0_D_VerProc_DS450
    - ESSSYS_6’0’3’0_D_VerProc_DS850
    - ESSSYS_6’0’3’0_D_VerProc_EMS
    - ESSSYS_6’0’3’0_D_VerProc_ETOUCH
    - ESSSYS_6’0’3’0_D_VerProc_EVOTE_1’5’0’0_HW1’0
    - ESSSYS_6’0’3’0_D_VerProc_EVOTE_1’5’1’0_HW1’0
    - ESSSYS_6’0’3’0_D_VerProc_EVOTE_2’4’0’0’_HW2’1
    - ESSSYS_6’0’3’0_D_VerProc_EVOTE_2’4’3’0’_HW2’1
    - ESSSYS_6’0’3’0_D_VerProc_EVOTEXL_1’0’0’0
    - ESSSYS_6’0’3’0_D_VerProc_EVOTEXL_1’0’1’0
    - ESSSYS_6’0’3’0_D_VerProc_VerificationPCSetup

- Election Systems & Software, Inc. hereby accepts the EAC’s certification and all conditions placed on the certification.

Michael Walker
VSTL Project Manager
Pro V&V
(Signature applicable to 1 & 2)
Signed: Michael L. Walker Date: 07/14/2020

Sue McKay
Vice President of Federal Certification
Election Systems & Software, Inc.

Signed: Sue McKay Date: ____July 14, 2020_____

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July 14, 2020

Jerome Lovato
Director of Voting System Testing & Certification
U.S. Election Assistance Commission
Voting System Testing and Certification Program
1335 East West Highway, NW, 1100
Washington, DC 20005

Dear Mr. Lovato,

As set forth in Section 5.9 of the EAC Testing and Certification Program Manual v. 1.0 and the instructions of the July 8, 2020 Initial Decision on Certification of the Election Systems & Software, Inc. EVS 6.1.1.0 Voting System:

- Pro V&V completed Trusted Builds on the EVS 6.1.1.0 Voting System on 5/29/2020. Pro V&V confirms the procedure documented in the Pro V&V EVS 6.1.1.0 Test Report is consistent with the trusted build requirements in Section 5.6 of the manual. The EAC provided acknowledgement of their receipt of this report on 6/23/2020.

- Pro V&V confirms that in conjunction with delivery of this letter and per Section 5.7 of the EAC Testing and Certification Program Manual v. 1.0, Pro V&V prepared and submitted to the EAC (the designated repository per the October 16, 2008 letter from the EAC) the following:
  - 5.7.1 Source Code used for the trusted build and its file signatures
  - 5.7.2 Disk Image of the pre-build, build environment, and any file signatures to validate that it is unmodified
  - 5.7.3 Disk Image of the post-build, build environment, and any file signatures to validate that it is unmodified
  - 5.7.4 Executable code produced by the trusted build and its files signatures of all files produced.
  - 5.7.5 Installation device(s) and file signatures

  This was shipped via Fed Ex on USB hard drive on 07/14/2020.

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- In conjunction with delivery of this letter, Election Systems & Software, Inc. prepared and submitted to the EAC (the designated repository) on July 14, 2020 the following system identification tools:

    - ESSSYS_6'1'1'0_D_VerificationPack
    - ESSSYS_6'1'1'0_D_VerProc_DS200
    - ESSSYS_6'1'1'0_D_VerProc_DS450
    - ESSSYS_6'1'1'0_D_VerProc_DS850
    - ESSSYS_6'1'1'0_D_VerProc_EMS
    - ESSSYS_6'1'1'0_D_VerProc_ETOUCH
    - ESSSYS_6'1'1'0_D_VerProc_EVOTE_HW1'0
    - ESSSYS_6'1'1'0_D_VerProc_EVOTE_HW2'1
    - ESSSYS_6'1'1'0_D_VerProc_EVOTEXL
    - ESSSYS_6'1'1'0_D_VerProc_VerificationPCSetup

- Election Systems & Software, Inc. hereby accepts the EAC's certification and all conditions placed on the certification.

Michael Walker
VSTL Project Manager
Pro V&V
(Signature applicable to 1 & 2)
Signed: Michael L. Walker Date: 07/14/2020

Sue McKay
Vice President of Federal Certification
Election Systems & Software, Inc.

Signed: Sue McKay Date: _____July 14, 2020_____

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Scope of Certification

This document describes the scope of the validation and certification of the system defined above. Any use, configuration changes, revision changes, additions or subtractions from the described system are not included in this evaluation.

Significance of EAC Certification

An EAC certification is an official recognition that a voting system (in a specific configuration or configurations) has been tested to and has met an identified set of Federal voting system standards. An EAC certification is **not**:

- An endorsement of a Manufacturer, voting system, or any of the system's components.
- A Federal warranty of the voting system or any of its components.
- A determination that a voting system, when fielded, will be operated in a manner that meets all HAVA requirements.
- A substitute for State or local certification and testing.
- A determination that the system is ready for use in an election.
- A determination that any particular component of a certified system is itself certified for use outside the certified configuration.

Representation of EAC Certification

Manufacturers may not represent or imply that a voting system is certified unless it has received a Certificate of Conformance for that system. Statements regarding EAC certification in brochures, on Web sites, on displays, and in advertising/sales literature must be made solely in reference to specific systems. Any action by a Manufacturer to suggest EAC endorsement of its product or organization is strictly prohibited and may result in a Manufacturer's suspension or other action pursuant to Federal civil and criminal law.

System Overview

The ES&S EVS 6.0.3.0 voting system is a modification of the ES&S EVS 6.0.2.0 voting system, certified on October 4, 2018, which contains changes in software, as well as an upgrade in the election management system's COTS operating system. The ES&S EVS 6.0.3.0 voting system is composed of software applications, central count location devices and polling place devices with accompanying firmware, and COTS hardware and software.

Electionware® election management software is an end-to-end election management software application that provides election definition creation, ballot formation, equipment configuration, result consolidation, adjudication and report creation. Electionware is composed of five software groups: Define, Design, Deliver, Results and Manage.

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ExpressVote XL™ is a hybrid paper-based polling place voting device that provides a full-face touchscreen vote capture that incorporates the printing of the voter's selections as a cast vote record, and tabulation scanning into a single unit.

ExpressTouch® is a DRE voting system which supports electronic vote capture for all individuals at the polling place.

ExpressVote® Hardware 1.0 is a hybrid paper- based polling place voting device that provides touch screen vote capture that incorporates the printing of the voter's selections as a cast vote record, to be scanned for tabulation in any one of the ES&S precinct or central scanners.

ExpressVote® Hardware 2.1 is a hybrid paper- based polling place voting device that provides touch screen vote capture that incorporates the printing of the voter's selections as a cast vote record, and tabulation scanning into a single unit. ExpressVote HW2.1 is capable of operating in either marker or tabulator mode, depending on the configurable mode that is selected in Electionware.

There are two separate versions of the ExpressVote hardware version 2.1: 2.1.0.0 and version 2.1.2.0 . Please note that all future references to ExpressVote HW 2.1 as used throughout the document refers to both hardware versions.

DS200® is a polling place paper-based voting system, specifically a digital scanner and tabulator that simultaneously scans the front and back of a paper ballot and/or vote summary card in any of four orientations for conversion of voter selection marks to electronic Cast Vote Records (CVR).

DS450® is a central scanner and tabulator that simultaneously scans the front and back of a paper ballot and/or vote summary card in any of four orientations for conversion of voter selection marks to electronic Cast Vote Records (CVR).

DS850® is a central scanner and tabulator that simultaneously scans the front and back of a paper ballot and/or vote summary card in any of four orientations for conversion of voter selection marks to electronic Cast Vote Records (CVR).

Event Log Service (ELS) monitors and logs users' interactions with the Election Management System. Events that happen when a connection to the database is not available are logged to the Windows Operating System log through the ELS.

Removable Media Service (RMS) is a utility that runs in the background of the Windows operating system. RMS reads specific information from any attached USB devices so that ES&S applications such as Electionware can use that information for media validation purposes.

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System Diagram

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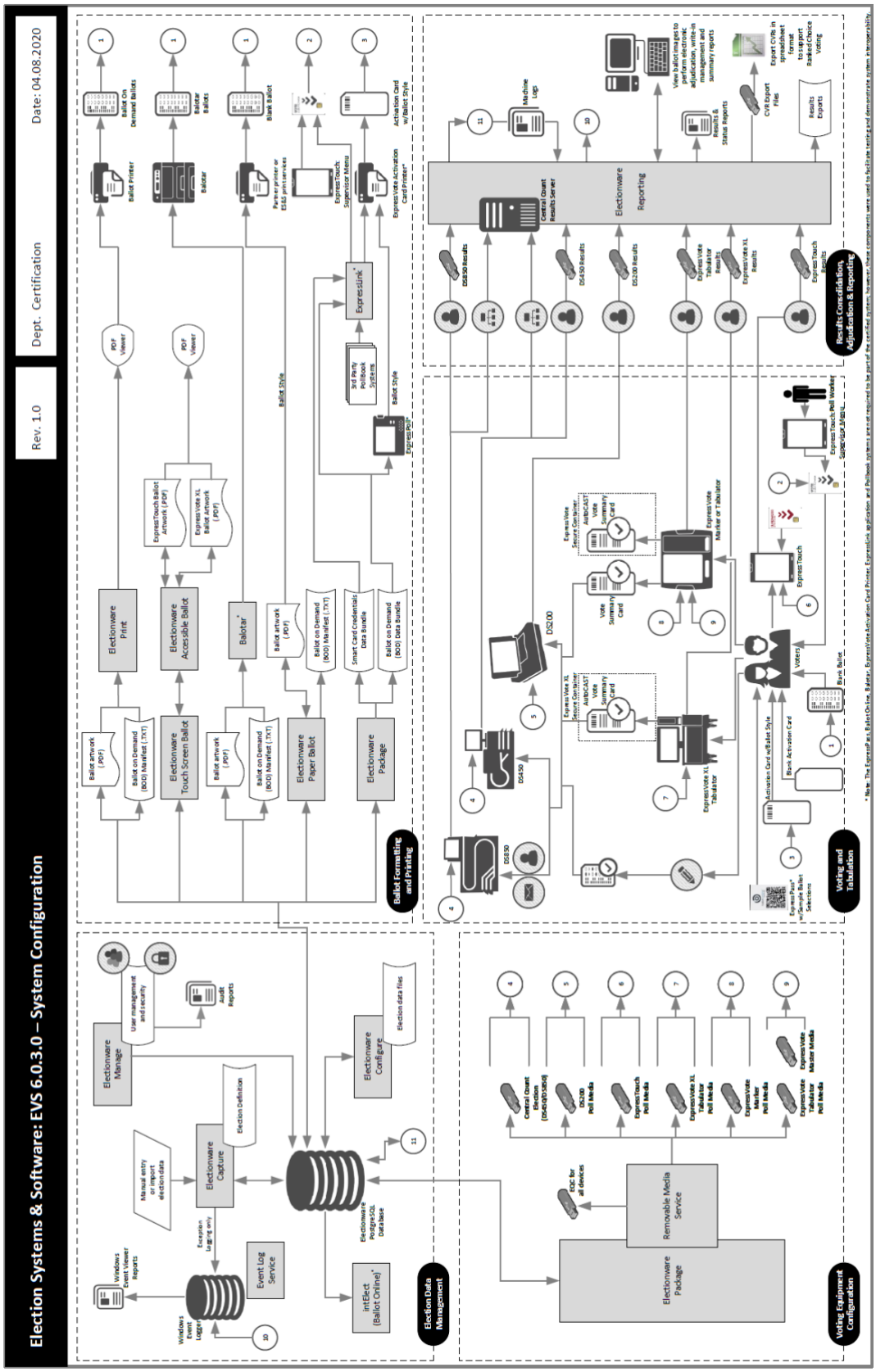

Certified System before Modification (If applicable):

EVS 6.0.2.0

Changes addressed by modification

Cross-Product Changes

- Arial Fonts
  Included the recommended Arial fonts, which allows states to have better flexibility for ballot/election layout.

  Impacted products: Election Management System

- Increased RAM Potential

  Provided the option for increased physical RAM on the EMS in the client, server and/or standalone configurations (optional). Increased the amount of virtual RAM available to Electionware (optional).

  Impacted products: Election Management System

- Modified Password Policy

  Provided a method for modifying the Microsoft Windows password policy to not expire on the EMS (optional).

  Impacted products: Election Management System

Electionware

- Adjudication
  - Provided an additional user logging message to enhance the transparency and security of the database. This additional logging is included within the Reporting module to assist users during ballot adjudication.
- Performance Improvement
  - Provided an additional internal Postgres system logging message to enhance the security and performance of the database. This additional logging is included within the internal Postgres logging for analytical, internal traceability and allows for further indexing for added performance
  - Migrated Electionware from a 32-bit to a 64-bit application. This allows increased memory allocation and improves system performance.

- Exports/Reporting
  - Removed all empty entries in the CVR export report.

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Removable Media Service

- Performance Improvement
    - Modified the installation directory to accommodate 64-bit Electionware application.

Mark Definition

ES&S' declared level mark recognition for the DS200, DS450 and DS850 is a mark across the oval that is 0.02" long x 0.03" wide at any direction.

Tested Marking Devices

Bic Grip Roller Pen

Language Capability

EVS 6.0.3.0 supports English, Spanish, Chinese), Korean, Japanese, Hindi, Bengali, Vietnamese, Tagalog, Creole, Russian, and French. In addition, Punjabi and Gujarati is supported by ExpressVote XL and Electionware only.

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Proprietary Components Included

This section provides information describing the components and revision level of the primary components included in this Certification.

System Component	Software or Firmware Version	Hardware Version	Model	Comments
Electionware	5.0.1.1			
ES&S Event Log Service	1.6.0.0			
Removable Media Service	1.9.0.0			
ExpressVote HW 1.0	1.5.0.0, 1.5.1.0	1.0		Paper-based vote capture and selection device
ExpressVote Previewer (1.0)	1.5.0.0, 1.5.1.0			
ExpressVote HW 2.1	2.4.0.0, 2.4.3.0	2.1.0.0 2.1.2.0		Hybrid paper-based vote capture and selection device and precinct count tabulator
ExpressVote Previewer (2.1)	2.4.0.0, 2.4.3.0			
DS200	2.17.0.0	1.2, 1.3		Precinct Count Tabulator
DS450	3.1.1.0	1.0		Central Count Scanner and Tabulator
DS450 Cart	---	---	Model 3002	DS450 Cart
DS850	3.1.1.0	1.0		Central Count Scanner and Tabulator
DS850 Cart	---	---	Model 6823	DS850 Cart
ExpressVote XL	1.0.0.0, 1.0.1.0	1.0		Hybrid full-faced paper-based vote capture and selection device and precinct count tabulator
ExpressTouch	1.0.0.0	1.0		DRE
ExpressVote Rolling Kiosk		1.0	98-00049	Portable Voting Booth
Voting Booth		N/A	98-00051	Stationary Voting Booth
Quad Express Cart		N/A	41404	Portable Voting Booth
MXB ExpressVote Voting Booth		N/A	95000	Sitting and Standing Voting Booth
ExpressVote Single Table		N/A	87033	Voting Table for One Unit

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System Component	Software or Firmware Version	Hardware Version	Model	Comments
ExpressVote Double Table		N/A	87032	Voting Table for Two Units
ADA Table		N/A	87031	Voting Table for One Unit
DS200 Ballot Box		1.0, 1.1	98-00009	Collapsible Ballot Box
DS200 Ballot Box		1.2, 1.3, 1.4, 1.5	57521	Plastic ballot box
DS200 Tote Bin		1.0	00074	Tote Bin Ballot Box
Universal Voting Console		1.0	98-00077	Detachable ADA support peripheral
Tabletop Easel		N/A	14040	
ExpressTouch Voting Booth		N/A	98-00081	Stationary Voting Booth
SecureSetup	2.0.0.1			Proprietary Hardening Script

COTS Software

Manufacturer	Application	Version
Microsoft Corporation	Server 2008	R2 w/ SP1 (64-bit)
Microsoft Corporation	Windows 7 Professional	SP1 (64-bit)
Microsoft Corporation	WSUS Microsoft Windows Offline Update Utility	11.1.1
Symantec	Endpoint Protection	14.0.1 (64-bit)
Symantec	Symantec Endpoint Protection Intelligent Updater (File-Based Protection)	20180116-002-core3sdsv5i64.exe
Symantec	Symantec Endpoint Protection Intelligent Updater (Network-Based Protection)	20180115-040-IPS_IU_SEP_14RU1.exe
Symantec	Symantec Endpoint Protection Intelligent Updater (Behavior-Based Protection)	20180108-003-SONAR_IU_SEP.exe
Cerberus	CerberusFTP Server – Enterprise	9.0.3.1 (64-bit)
Adobe	Acrobat	XI
Microsoft Corporation	Visual C++ Redistributable	vc_redist.x86.exe (32-bit)
RSA Security	RSA BSAFE Crypto-C ME for Windows 32-bit	4.1
OpenSSL	OpenSSL	2.0.12
OpenSSL	OpenSSL	2.0.16
OpenSSL	OpenSSL	1.02d
OpenSSL	OpenSSL	1.02h
OpenSSL	OpenSSL	1.02k

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COTS Hardware

Manufacturer	Hardware	Model/Version
Dell	EMS Server	PowerEdge T430, T630
Dell	EMS Client or Standalone Workstation	Latitude 5580, OptiPlex 5040, 5050, 7020
Innodisk	USB EDC H2SE (8GB) for ExpressVote 1.0	DEEUH1-08GI72AC1SB
Innodisk	USB EDC H2SE (16GB) for ExpressVote 2.1	DEEUH1-16GI72AC1SB
Delkin	USB Flash Drive (512MB, 1GB, 2GB, 4GB, 8GB)	N/A
Delkin	USB Embedded 2.0 Module Flash Drive	MY16TNK7A-RA042-D/ 16 GB
Delkin	Compact Flash Memory Card (1GB)	N/A
Delkin	Compact Flash Memory Card Reader/Writer	6381
Delkin	CFAST Card (2GB, 4GB)	N/A
Lexar	CFAST Card Reader/Writer	LRWCR1TBNA
CardLogix	Smart Card	CLXSU128kC7/ AED C7
SCM Microsystems	Smart Card Writer	SCR3310
Avid	Headphones	86002
Zebra Technologies	QR code scanner (Integrated)	DS457-SR20009
Symbol	QR Code scanner (External)	DS9208
Dell	DS450 Report Printer	S2810dn
OKI	DS450 and DS850 Report Printer	B431dn, B431d, B432DN
OKI	DS450 and DS850 Audit Printer	Microline 420
APC	DS450 UPS	Back-UPS Pro 1500,
APC	DS850 UPS	Back-UPS RS 1500, Pro 1500
Tripp Lite	DS450 Surge Protector	Spike Cube
Seiko Instruments	Thermal Printer	LTPD-347B
NCR/Nashua	Paper Roll	2320
Fujitsu	Thermal Printer	FTP-62GDSL001, FTP-63GMCL153

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System Limitations

This table depicts the limits the system has been tested and certified to meet.

System Characteristic	Boundary or Limitation	Limiting Component
Max. precincts allowed in an election	9,900	Electionware
Max. ballot styles in an election	15,000	Electionware
Max. candidates allowed per election	10,000	Electionware
Max. contests allowed in an election	10,000	Electionware
Max. number of parties allowed	General election: 75 Primary election: 30 (including non-partisan)	Electionware
Max. Precinct Types/Groups	25	Electionware
Max. Contests allowed per ballot style	500 or # of positions on ballots	
Max. Reporting Groups in an election	14	Electionware
Max. candidates allowed per contest	230	Electionware
Max. "Vote For" per contest	230	Electionware
Max. ballots per batch	1,500	DS45/DS850

Component Limitations:

Electionware

1. Electionware software field limits were calculated based on an average character width for ballot and report elements. Some uses and conditions, such as magnified ballot views or combining elements on printed media or ballot displays, may result in field limits (and associated warnings) lower than those listed. Check printed media and displays before finalizing the election.
2. The Electionware Export Ballot Images function is limited to 250 districts per export.
3. Electionware supports the language special characters listed in the System Overview, Attachment 1. Language special characters other than those listed may not appear properly when viewed on equipment displays or reports.
4. The Straight Party feature must not be used in conjunction with the Single or Multiple Target Cross Endorsement features.

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5. The 'MasterFile.txt' and the 'Votes File.txt' do not support results for elections that contain multiple sheets or multiple ExpressVote cards per voter. These files can be produced using the Electionware > Reporting > Tools > Export Results menu option. This menu option is available when the Rules Profile is set to "Illinois".

Paper Ballot Limitations

1. The paper ballot code channel, which is the series of black boxes that appear between the timing track and ballot contents, limits the number of available ballot variations depending on how a jurisdiction uses this code to differentiate ballots. The code can be used to differentiate ballots using three different fields defined as: Sequence (available codes 1-16,300), Type (available codes 1-30) or Split (available codes 1-18).
2. If Sequence is used as a ballot style ID, it must be unique election-wide and the Split code will always be 1. In this case the practical style limit would be 16,300.
3. The ExpressVote activation card has a limited ballot ID based on the three different fields defined as: Sequence (available codes 1-16,300), Type (available codes 1-30) or Split (available codes 1-18).
4. Grid Portrait and Grid Landscape ballot types are New York specific and not for general use.

ExpressVote

1. ExpressVote capacities exceed all documented limitations for the ES&S election management, vote tabulation and reporting system. For this reason, Election Management System and ballot tabulator limitations define the boundaries and capabilities of the ExpressVote system as the maximum capacities of the ES&S ExpressVote are never approached during testing.

ExpressVote XL

1. ExpressVote XL capacities exceed all documented limitations for the ES&S election management, vote tabulation and reporting system. For this reason, Election Management System and ballot tabulator limitations define the boundaries and capabilities of the ExpressVote XL system as the maximum capacities of the ES&S ExpressVote XL are never approached during testing.
2. ExpressVote XL does not offer open primary support based on the ES&S definition of Open Primary, which is the ability to select a party and vote based on that party.
3. ExpressVote XL does not support Massachusetts Group Vote.
4. ExpressVote XL does not support Universal Primary Contest.
5. ExpressVote XL does not support Multiple Target Cross Endorsement.
6. ExpressVote XL does not support Reviewer or Judges Initials boxes.
7. ExpressVote XL does not support multi-card ballots.
8. In a General election, one ExpressVote XL screen can hold 32 party columns if set up as columns or 16 party rows if set up as rows.
9. ExpressVote XL does not support Team Write-In.

ExpressTouch

1. ExpressTouch capacities exceed all documented limitations for the ES&S election management, vote tabulation and reporting system. For this reason, Election Management System limitations define the boundaries and capabilities of the ExpressTouch system as the maximum capacities of the ES&S ExpressTouch are never approached during testing.

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2. ExpressTouch does not offer open primary support, which is the ability to select a party and vote based on that party.
3. ExpressTouch does not support Massachusetts Group Vote.
4. ExpressTouch does not support Universal Primary Contest.
5. ExpressTouch does not support Multiple Target Cross Endorsement.
6. ExpressTouch does not support Team Write-In.

DS200

1. The ES&S DS200 configured for an early vote station does not support precinct level results reporting. An election summary report of tabulated vote totals is supported.
2. The DS200 storage limitation for write-in ballot images is 3,600 images. Each ballot image includes a single ballot face, or one side of one page.
3. Write-in image review requires a minimum 1GB of onboard RAM.
4. To successfully use the Write-In Report, ballots must span at least three vertical columns. If the column is greater than 1/3 of the ballot width (two columns or less), the write-in image will be too wide to print on the tabulator report tape.

Functionality

VVSG 1.0 Supported Functionality Declaration

Feature/Characteristic	Yes/No	Comment
Voter Verified Paper Audit Trails		
VVPAT	No	
Accessibility		
Forward Approach	Yes	
Parallel (Side) Approach	Yes	
Closed Primary		
Primary: Closed	Yes	
Open Primary		
Primary: Open Standard	Yes	Except ExpressTouch and ExpressVote XL
Primary: Open Blanket	No	
Partisan & Non-Partisan:		
Partisan & Non-Partisan: Vote for 1 of N race	Yes	
Partisan & Non-Partisan: Multi-member (“vote for N of M”) board races	Yes	
Partisan & Non-Partisan: “vote for 1” race with a single candidate and write-in voting	Yes	
Partisan & Non-Partisan “vote for 1” race with no declared candidates and write-in voting	Yes	
Write-In Voting:		
Write-in Voting: System default is a voting position identified for write-ins.	Yes	
Write-in Voting: Without selecting a write in position.	Yes	
Write-in: With No Declared Candidates	Yes	
Write-in: Identification of write-ins for resolution at central count	Yes	
Primary Presidential Delegation Nominations & Slates:		
Primary Presidential Delegation Nominations: Displayed delegate slates for each presidential party	No	

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Feature/Characteristic	Yes/No	Comment
Slate & Group Voting: one selection votes the slate.	No	
Ballot Rotation:		
Rotation of Names within an Office; define all supported rotation methods for location on the ballot and vote tabulation/reporting	Yes	
Straight Party Voting:		
Straight Party: A single selection for partisan races in a general election	Yes	
Straight Party: Vote for each candidate individually	Yes	
Straight Party: Modify straight party selections with crossover votes	Yes	
Straight Party: A race without a candidate for one party	Yes	
Straight Party: N of M race (where "N">1)	Yes	
Straight Party: Excludes a partisan contest from the straight party selection	Yes	
Cross-Party Endorsement:		
Cross party endorsements, multiple parties endorse one candidate.	Yes	
Split Precincts:		
Split Precincts: Multiple ballot styles	Yes	
Split Precincts: P & M system support splits with correct contests and ballot identification of each split	Yes	
Split Precincts: DRE matches voter to all applicable races.	Yes	
Split Precincts: Reporting of voter counts (# of voters) to the precinct split level; Reporting of vote totals is to the precinct level	Yes	
Vote N of M:		
Vote for N of M: Counts each selected candidate, if the maximum is not exceeded.	Yes	
Vote for N of M: Invalidates all candidates in an overvote (paper)	Yes	
Recall Issues, with options:		
Recall Issues with Options: Simple Yes/No with separate race/election. (Vote Yes or No Question)	No	
Recall Issues with Options: Retain is the first option, Replacement candidate for the second or more options (Vote 1 of M)	No	
Recall Issues with Options: Two contests with access to a second contest conditional upon a specific vote in contest one. (Must vote Yes to vote in 2nd contest.)	No	
Recall Issues with Options: Two contests with access to a second contest conditional upon any vote in contest one. (Must vote Yes to vote in 2nd contest.)	No	
Cumulative Voting		
Cumulative Voting: Voters are permitted to cast, as many votes as there are seats to be filled for one or more candidates. Voters are not limited to giving only one vote to a candidate. Instead, they can put multiple votes on one or more candidate.	No	

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Feature/Characteristic	Yes/No	Comment
Ranked Order Voting		
Ranked Order Voting: Voters can write in a ranked vote.	Yes	Ballots can be formatted for Ranked Order Voting and the system supports export of CVR data for processing of Ranked Order Voting Rounds
Ranked Order Voting: A ballot stops being counting when all ranked choices have been eliminated	Yes	Ballots can be formatted for Ranked Order Voting and the system supports export of CVR data for processing of Ranked Order Voting Rounds
Ranked Order Voting: A ballot with a skipped rank counts the vote for the next rank.	Yes	Ballots can be formatted for Ranked Order Voting and the system supports export of CVR data for processing of Ranked Order Voting Rounds
Ranked Order Voting: Voters rank candidates in a contest in order of choice. A candidate receiving a majority of the first choice votes wins. If no candidate receives a majority of first choice votes, the last place candidate is deleted, each ballot cast for the deleted candidate counts for the second choice candidate listed on the ballot. The process of eliminating the last place candidate and recounting the ballots continues until one candidate receives a majority of the vote	No	
Ranked Order Voting: A ballot with two choices ranked the same, stops being counted at the point of two similarly ranked choices.	Yes	Ballots can be formatted for Ranked Order Voting and the system supports export of CVR data for processing of Ranked Order Voting Rounds
Ranked Order Voting: The total number of votes for two or more candidates with the least votes is less than the votes of the candidate with the next highest number of votes, the candidates with the least votes are eliminated simultaneously and their votes transferred to the next-ranked continuing candidate.	No	
Provisional or Challenged Ballots		
Provisional/Challenged Ballots: A voted provisional ballots is identified but not included in the tabulation but can be added in the central count.	Yes	
Provisional/Challenged Ballots: A voted provisional ballots is included in the tabulation, but is identified and can be subtracted in the central count	Yes	
Provisional/Challenged Ballots: Provisional ballots maintain the secrecy of the ballot.	Yes	
Overvotes (must support for specific type of voting system)		
Overvotes: P & M: Overvote invalidates the vote. Define how overvotes are counted.	Yes	
Overvotes: DRE: Prevented from or requires correction of overvoting.	Yes	

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Overvotes: If a system does not prevent overvotes, it must count them. Define how overvotes are counted.	Yes	
Overvotes: DRE systems that provide a method to data enter absentee votes must account for overvotes.	Yes	
Undervotes		
Undervotes: System counts undervotes cast for accounting purposes	Yes	
Blank Ballots		
Totally Blank Ballots: Any blank ballot alert is tested.	Yes	
Totally Blank Ballots: If blank ballots are not immediately processed, there must be a provision to recognize and accept them	Yes	
Totally Blank Ballots: If operators can access a blank ballot, there must be a provision for resolution.	Yes	
Networking		
Wide Area Network – Use of Modems	No	
Wide Area Network – Use of Wireless	No	
Local Area Network – Use of TCP/IP	No	
Local Area Network – Use of Wireless	No	
FIPS 140-2 validated cryptographic module	Yes	
Used as (if applicable):		
Precinct counting device	Yes	DS200, ExpressTouch, ExpressVote HW2.1, ExpressVote XL
Central counting device	Yes	DS450 and/or DS850

Baseline Certification Engineering Change Order's (ECO)

This table depicts the ECO's certified with the voting system:

Change ID	Date	Component	Description	Inclusion
ECO 1023	6/18/19	ExpressVote XL	Update Embedded Controller	DeMinimis
ECO 1029	9/24/19	ExpressVote	Upgrade to 8GB Inno on EV 1.0	DeMinimis Optional
ECO 1034	10/28/19	ExpressVote Voting Booth	Enhanced Voting Booth	DeMinimis Optional
ECO 1035	02/14/20	DS200	Update FPGA Code	DeMinimis Optional
ECO 1041	10/28/19	ExpressVote XL	Add Brace to Wheel Struts	DeMinimis Optional
ECO 1042	9/13/19	DS200	DS200 Hdw. Rev 1.3.11 with Legacy Releases	DeMinimis Optional
ECO 1043	10/30/19	ExpressVote	Add 16G Innno to EV 1.0	DeMinimis Optional
ECO 1044	9/13/19	DS200 Ballot Tote	Add Ballot Tote Bag	DeMinimis Optional
ECO 1045	12/11/19	ExpressVote	Add Spanish No Selection to Card	DeMinimis Optional

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Change ID	Date	Component	Description	Inclusion
ECO 1047	2/28/20	ExpressVote XL	ExpressVote XL Aesthetic Enhancements	DeMinimis Optional
ECO 1054	02/14/20	ExpressVote/ExpressVote XL	Update Ballot Bin	DeMinimis Optional
ECO 1055	12/19/19	DS200 Ballot Bin Tote	Add Ballot Tote Bag	DeMinimis Optional
ECO 1064	5/27/20	Electionware	Electionware Postgres logging change	DeMinimis Optional

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Scope of Certification

This document describes the scope of the validation and certification of the system defined above. Any use, configuration changes, revision changes, additions or subtractions from the described system are not included in this evaluation.

Significance of EAC Certification

An EAC certification is an official recognition that a voting system (in a specific configuration or configurations) has been tested to and has met an identified set of Federal voting system standards. An EAC certification is **not**:

- An endorsement of a Manufacturer, voting system, or any of the system's components.
- A Federal warranty of the voting system or any of its components.
- A determination that a voting system, when fielded, will be operated in a manner that meets all HAVA requirements.
- A substitute for State or local certification and testing.
- A determination that the system is ready for use in an election.
- A determination that any particular component of a certified system is itself certified for use outside the certified configuration.

Representation of EAC Certification

Manufacturers may not represent or imply that a voting system is certified unless it has received a Certificate of Conformance for that system. Statements regarding EAC certification in brochures, on Web sites, on displays, and in advertising/sales literature must be made solely in reference to specific systems. Any action by a Manufacturer to suggest EAC endorsement of its product or organization is strictly prohibited and may result in a Manufacturer's suspension or other action pursuant to Federal civil and criminal law.

System Overview:

The ES&S EVS 6.1.1.0 voting system is a modification of the EVS 6.1.0.0 voting system, certified on September 24, 2019, which contains changes in Electionware, ExpressVote, DS200, DS450 and DS850. The EVS 6.1.1.0 voting system is composed of software applications, central count and polling place devices with accompanying firmware, and COTS hardware and software:

Electionware® election management software is an end-to-end election management software application that provides election definition creation, ballot formation, equipment configuration, result consolidation, adjudication, and report creation. Electionware is composed of five software groups: Define, Design, Deliver, Results, and Manage.

DRAFT

ExpressVote XL™ is a hybrid paper-based polling place voting device that provides a full-faced touch screen vote capture interface that incorporates the printing of the voter's selections as a cast vote record and tabulation scanning in a single unit.

ExpressTouch® is a DRE voting system which supports electronic vote capture for curbside voting at the polling place.

ExpressVote® Hardware 1.0 is a hybrid paper-based polling place voting device that provides touch screen vote capture that incorporates the printing of the voter's selections as a cast vote record to be scanned for tabulation in any one of the ES&S precinct or central scanners.

ExpressVote® Hardware 2.1 is a hybrid paper-based polling place voting device that provides touch screen vote capture that incorporates the printing of the voter's selections as a cast vote record to be scanned for tabulation in any one of the ES&S precinct or central scanners.

DS200® is a polling place paper-based voting system, specifically a digital scanner and tabulator that simultaneously scans the front and back of a paper ballot and/or vote summary card in any of four orientations for conversion of voter selection marks to electronic cast vote records (CVR).

DS450® is a central scanner and tabulator that simultaneously scans the front and back of a paper ballot and/or vote summary card in any of four orientations for conversion of voter selection marks to electronic CVRs.

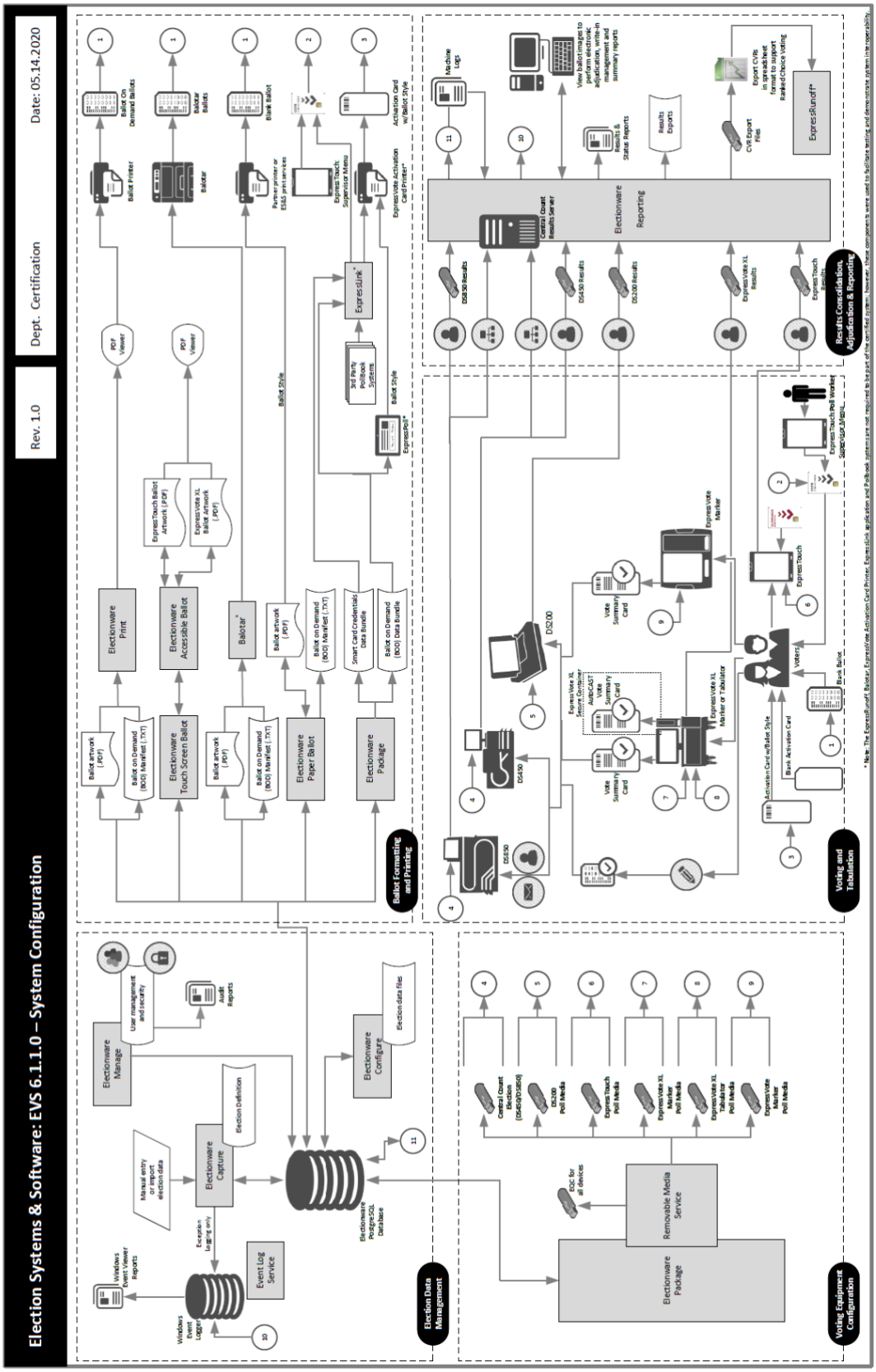
DS850® is a central scanner and tabulator that simultaneously scans the front and back of a paper ballot and/or vote summary card in any of four orientations for conversion of voter selection marks to electronic CVRs.

Event Log Service (ELS) monitors and logs users' interactions with the election management system. Events that happen when a connection to the database is not available are logged to the Windows operating system log through the ELS.

Removable Media Service (RMS) is a utility that runs in the background of the Windows operating system. RMS reads specific information from any attached USB devices so that an ES&S application such as Electionware can use that information for media validation purposes.

DRAFT

System Diagram



Certified System before Modification (If applicable):

EVS 6.1.0.0

Changes addressed by modification

Software/Firmware

Cross-Product Changes

- Security Enhancements

  Added critical Windows security updates available at the time of certification testing.

  Impacted products: Election Management System

- Arial Fonts
  Included the recommended Arial fonts, which allows states to have better flexibility for ballot/election layout.

  Impacted products: Election Management System

- Increased RAM Potential

  Provided the option for increased physical RAM on the EMS in the client, server and/or standalone configurations (optional). Increased the amount of virtual RAM available to Electionware (optional).

  Impacted products: Election Management System

- Modified Password Policy

  Provided a method for modifying the Microsoft Windows password policy to not expire on the EMS (optional).

  Impacted products: Election Management System

Electionware

- Adjudication
  - Added an updated JAR file to prevent relocated JAI classes from loading. This prevents the Internal Error displayed when attempting to view ExpressVote XL write-in images.
  - Adjusted misalignment of write-in snippets for ExpressVote XL and ExpressVote vote summary cards so they reflect the correct ballot image.
  - Provided an additional user logging message to enhance the transparency and

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security of the database. This additional logging is included within the Reporting module to assist users during ballot adjudication.

- Performance Improvement
  - Provided an additional internal Postgres system logging message to enhance the security and performance of the database. This additional logging is included within the internal Postgres logging for analytical, internal traceability and allows for further indexing for added performance

- Exports/Reporting
  - Removed all empty entries in the CVR export report.

Mark definition:

ES&S' declared mark recognition for the DS200, DS450, and DS850 is a mark across the oval that is 0.02" long x 0.03" wide at any direction.

Tested Marking Devices:

Bic Grip Roller Pen

Language capability:

System supports English, Spanish, Chinese, Korean, Japanese, Hindi, Bengali, Vietnamese, Tagalog, Creole, Russian, French, Gujarati (one configuration only), Punjabi (one configuration only)

Proprietary Components Included:

This section provides information describing the components and revision level of the primary components included in this Certification.

System Component	Software or Firmware Version	Hardware Version	Model	Comments
Electionware	6.1.1.0			Election management software that provides end-to-end election management activities
ES&S Event Log Service (ELS)	2.0.0.0			Logs users' interactions with EMS
Removable Media Service	2.0.0.0			Utility that runs in the background of the Windows operating system
DS200	2.30.0.0	1.2, 1.3		Precinct count tabulator that scans voter selections from both sides of the ballot simultaneously
DS200 Ballot Box		1.0, 1.1	98-00009	Collapsible ballot box

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System Component	Software or Firmware Version	Hardware Version	Model	Comments
DS200 Ballot Box		1.2, 1.3, 1.4, 1.5	57521	Plastic ballot box
DS200 Tote Bin		1.0	00074	Tote bin ballot box
DS450	3.4.0.0	1.0		Central count scanner and tabulator
DS450 Cart			3002	
DS850	3.4.0.0	1.0		Central count scanner and tabulator
DS850 Cart			6823	
ExpressVote XL	1.0.3.0	1.0		Hybrid full-faced paper-based vote capture and selection device and precinct count tabulator
ExpressTouch	1.0.3.0	1.0		DRE
ExpressVote HW1.0	4.0.0.0	1.0		Hybrid paper-based vote capture and selection device
ExpressVote HW2.1	4.0.0.0	1.0		Hybrid paper-based vote capture and selection device
ExpressVote Rolling Kiosk		1.0	98-00049	Portable Voting Booth
Voting Booth			98-00051	Stationary Voting Booth
Voting Booth Workstation			87035	Stationary voting booth
Quad Express Cart			41404	Portable Voting Booth
MXB ExpressVote Voting Booth			95000	Sitting and Standing Voting Booth
ExpressVote Single Table			87033	Voting Table for One Unit
ExpressVote Double Table			87032	Voting Table for Two Units
ADA Table			87031	Voting Table for One Unit
Universal Voting Console (UVC)		1.0	98-00077	Detachable ADA support peripheral
Tabletop Easel			14040	Portable Voting Booth
ExpressTouch Voting Booth			98-00081	Stationary Voting Booth
SecureSetup	3.0.0.2			Proprietary Hardening Script

COTS Software

Manufacturer	Application	Version
Microsoft Corporation	Windows Server 2016	(64-bit)
Microsoft Corporation	Windows 10 Enterprise LTSC	SP1 (64-bit)
Microsoft Corporation	WSUS Microsoft Windows Offline Update Utility	11.6.1
Microsoft Corporation	January 2020 Security Rollup for Windows 10	windows10.0-kb4534273-x64_74bf76bc5a941bbbd0052caf5c3f956867e1de38.msu

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Manufacturer	Application	Version
Microsoft Corporation	January 2020 Security Rollup for Server 2016	windows10.0-kb4534271-x64_a009e866038836e277b167c85c58bbf1e0cc5dc8.msu
Microsoft Corporation	January 2020 Security Rollup for Server 2016 - Servicing Stack Update	windows10.0-kb4520724-x64_97604f0b532d6da814b4120fc43b2d9f6fd0b356.msu
Symantec	Endpoint Protection	14.2.0_MP1 (64-bit)
Symantec	Endpoint Protection Intelligent Updater (File-based protection)	20190329-001-core15sdsv5i64.exe
Symantec	Endpoint Protection Intelligent Updater (Network-based protection)	20190328-061-IPS_IU_SEP_14RUI.exe
Symantec	Endpoint Protection Intelligent Updater (Behavior-based protection)	20190325-001-SONAR_IU_SEP.exe
Amyuni	PDF Converter Printer Driver	5.5
Cerberus	FTP Server – Enterprise	10.0.8 (64-bit)
Sumatra	PDF	3.1.2 (64-bit)
RSA Security	BSAFE Crypto-C ME for Windows 32-bit	4.1

COTS Hardware

Manufacturer	Hardware	Model/Version
Dell	EMS Server	PowerEdge T430, T630
Dell	EMS Client or Standalone Workstation	Latitude 5580, OptiPlex 5040, 5050, 7020
Dell	Trusted Platform Module (TPM) Chip 1.2 and 2.0 (optional)	M48YR
Innodisk	USB EDC H2SE (8GB) for ExpressVote 1.0	DEEUH1-01GI72AC1SB
Innodisk	USB EDC H2SE (16GB) for ExpressVote 2.1	DEEUH1-16GI72AC1SB
Delkin	USB Embedded 2.0 Module Flash Drive	MY08TQJ7A-RA000-D / 8GB
Delkin	USB Embedded 2.0 Module Flash Drive	MY16TNK7A-RA042-D/ 16 GB
Delkin	USB Flash Drive (512MB, 1GB, 2GB, 4GB, 8GB)	N/A
Delkin	Compact Flash Memory Card (1GB)	CE0GTFHHK-FD038-D
Delkin	Secure Compact Flash Card (2GB)	CE02TLQCK-FD000-D
Delkin	Compact Flash Memory Card Reader/Writer	6381
Delkin	CFAST Card (2GB, 4GB)	N/A
Delkin	USB Flash Drive BitLocker 32.2 MB Storage for Security Key (optional)	N/A

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Manufacturer	Hardware	Model/Version
Lexar	CFAST Card Reader/Writer	LRWCR1TBNA
CardLogix	Smart Card	CLXSU128kC7/ AED C7
SCM Microsystems	Smart Card Writer	SCR3310
Avid	Headphones	86002
Zebra Technologies	QR Code Scanner (integrated)	DS457-SR20009, DS457-SR2000ZZWW
Symbol	QR Code Scanner (external)	DS9208
Dell	DS450 Report Printer	S2810dn
OKI	DS450 and DS850 Report Printer	B431dn, B431d, B432DN
OKI	DS450 and DS850 Audit Printer	Microline 420
APC	DS450 UPS	Back-UPS Pro 1500, Smart-UPS 1500
APC	DS850 UPS	Back-UPS RS 1500, Pro 1500
Tripp Lite	DS450 Surge Protector	Spike Cube
Seiko Instruments	Thermal Printer	LTPD-347B
NCR/Nashua	Paper Roll	2320
Fujitsu	Thermal Printer	FTP-62GDSL001, FTP-63GMCL153
HP	Ink Cartridge for DS450/DS850 Ballot Number Imprinting	87002
TDS	Ink Cartridge for DS200 Ballot Number Imprinting	2278

System Limitations

This table depicts the limits the system has been tested and certified to meet.

System Characteristic	Boundary or Limitation	Limiting Component
Max. precincts allowed in an election	9,900	Electionware
Max. candidates allowed per election	10,000	Electionware
Max. contests allowed in an election	10,000	Electionware
Max. contests allowed per ballot style	500 or # of positions on ballot	N/A
Max. candidates (ballot choices) allowed per contest	230	Electionware
Max. number of parties allowed	General election: 75 Primary election: 30 (including nonpartisan party)	Electionware
Max. 'vote for' per contest	230	Electionware
Ballot formats	All paper ballots used in an election must be the same length. Voteable paper ballots must contain the same number of rows	Ballot scanning equipment
Max. ballot styles	15,000	Electionware
Max. ballots per batch	1,500	DS450/DS850
Max. precinct types/groups	25 (arbitrary)	Electionware
Max. precincts of a given type	250 (arbitrary)	Electionware
Max. reporting groups	14	Electionware

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Component Limitations:

ExpressVote

1. Capacities exceed all documented limitations for the ES&S election management, vote tabulation and reporting system. For this reason, election management system and ballot tabulator limitations define the boundaries and capabilities of the ExpressVote system as the maximum capacities of the ExpressVote are never approached during testing.
2. Does not offer primary support based on the ES&S definition of Open Primary, which is the ability to select a party and vote based on that party.
3. Does not support Massachusetts Group Vote.
4. Does not support Universal Primary Contest.
5. Does not support Multiple Target Cross Endorsement.
6. Does not support Reviewer or Judges Initials boxes.
7. Does not support multi-card ballots.
8. Does not support Team Write-in.

ExpressVote XL

1. Capacities exceed all documented limitations for the ES&S election management, vote tabulation and reporting system. For this reason, election management system and ballot tabulator limitations define the boundaries and capabilities of the ExpressVote XL system as the maximum capacities of the ExpressVote XL are never approached during testing.
2. Does not offer primary support based on the ES&S definition of Open Primary, which is the ability to select a party and vote based on that party.
3. Does not support Massachusetts Group Vote.
4. Does not support Universal Primary Contest.
5. Does not support Multiple Target Cross Endorsement.
6. Does not support Reviewer or Judges Initials boxes.
7. Does not support multi-card ballots.
8. In a general election, ExpressVote XL screen can hold 32 party columns if set up as columns or 16 party rows if set up as rows.
9. Does not support Team Write-in.

ExpressTouch

1. Capacities exceed all documented limitations for the ES&S election management, vote tabulation and reporting system. For this reason, election management system limitations define the boundaries and capabilities of the ExpressTouch system as the maximum capacities of the ES&S ExpressTouch are never approached during testing.
2. Does not offer open primary support based on the ES&S definition of Open Primary, which is the ability to select a party and vote based on that party.
3. Does not support Massachusetts Group Vote.

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4. Does not support Universal Primary Contest.
5. Does not support Multiple Target Cross Endorsement.
6. Does not support Team Write-in.

Electionware

1. Electionware software field limits were calculated based on an average character width for ballot and report elements. Some uses and conditions, such as magnified ballot views or combining elements on printed media or ballot displays, may result in field limits (and associated warnings) lower than those listed. Check printed media and displays before finalizing the election.
2. Ballot Images function is limited to 250 districts per export.
3. Support the language and special characters listed above in Supported Languages section. Language special characters other than those on this list may not appear properly when viewed on equipment displays or reports.
4. The Straight Party feature must not be used in conjunction with the Multiple Target Cross Endorsement features.
5. The 'MasterFile.txt' and the 'Votes File.txt' do not support results for elections that contain multiple sheets or multiple ExpressVote cards per voter. These files can be produced using the Electionware > Reporting > Tools > Export Results menu option. This menu option is available when the Rules Profile is set to "Illinois".

Electionware Paper Ballot

1. The paper ballot code channel, which is the series of black boxes that appear between the timing track and ballot contests, limits the number of available ballot variations depending on how a jurisdiction uses this code to differentiate ballots. The code can be used to differentiate ballots using three different fields defined as: Sequence (available codes 1-16,300), Type (available codes 1-30), or Split (available codes 1-18).
2. For paper ballots, if Sequence is used as a ballot style ID, it must be unique election-wise and Split code will always be 1. In this case, the practical style limit would be 16,300.
3. The ExpressVote activation card has a ballot ID consisting of three different fields defined as: Sequence (available codes 1-16,300), Type (available codes 1-30), or Split (available codes 1-18).
4. Grid Portrait and Grid Landscape ballot types are New York specific and not for general use.

DS200

1. Configured for an early vote station does not support precinct level results reporting. An election summary report of tabulated vote totals is supported.
2. Storage limitation for write-in ballot images is 3,600 images. Each ballot image includes a single ballot face, or one side of one page.
3. Write-in image review requires a minimum 1GB of onboard RAM.

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4. To successfully use the write-in report, ballots must span three or more vertical columns. If the column is greater than 1/3 of the ballot width (two columns or less), the write-in image will be too wide to print on the tabulator report tape.

Functionality

2005 VVSG Supported Functionality Declaration

Feature/Characteristic	Yes/No	Comment
Voter Verified Paper Audit Trails		
VVPAT	No	
Accessibility		
Forward Approach	Yes	
Parallel (Side) Approach	Yes	
Closed Primary		
Primary: Closed	Yes	
Open Primary		
Primary: Open Standard (provide definition of how supported)	No	
Primary: Open Blanket (provide definition of how supported)	No	
Partisan & Non-Partisan:		
Partisan & Non-Partisan: Vote for 1 of N race	Yes	
Partisan & Non-Partisan: Multi-member ("vote for N of M") board races	Yes	
Partisan & Non-Partisan: "vote for 1" race with a single candidate and write-in voting	Yes	
Partisan & Non-Partisan "vote for 1" race with no declared candidates and write-in voting	Yes	
Write-In Voting:		
Write-in Voting: System default is a voting position identified for write-ins.	Yes	
Write-in Voting: Without selecting a write in position.	Yes	
Write-in: With No Declared Candidates	Yes	
Write-in: Identification of write-ins for resolution at central count	Yes	
Primary Presidential Delegation Nominations & Slates:		
Primary Presidential Delegation Nominations: Displayed delegate slates for each presidential party	No	
Slate & Group Voting: one selection votes the slate.	No	
Ballot Rotation:		
Rotation of Names within an Office; define all supported rotation methods for location on the ballot and vote tabulation/reporting	Yes	
Straight Party Voting:		
Straight Party: A single selection for partisan races in a general election	Yes	
Straight Party: Vote for each candidate individually	Yes	
Straight Party: Modify straight party selections with crossover votes	Yes	
Straight Party: A race without a candidate for one party	Yes	
Straight Party: "N of M race (where "N">1)	Yes	

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Feature/Characteristic	Yes/No	Comment
Straight Party: Excludes a partisan contest from the straight party selection	Yes	
Cross-Party Endorsement:		
Cross party endorsements, multiple parties endorse one candidate.	Yes	
Split Precincts:		
Split Precincts: Multiple ballot styles	Yes	
Split Precincts: P & M system support splits with correct contests and ballot identification of each split	Yes	
Split Precincts: DRE matches voter to all applicable races.	Yes	
Split Precincts: Reporting of voter counts (# of voters) to the precinct split level; Reporting of vote totals is to the precinct level	Yes	It is possible to list the number of voters.
Vote N of M:		
Vote for N of M: Counts each selected candidate, if the maximum is not exceeded.	Yes	
Vote for N of M: Invalidates all candidates in an overvote (paper)	Yes	
Recall Issues, with options:		
Recall Issues with Options: Simple Yes/No with separate race/election. (Vote Yes or No Question)	No	
Recall Issues with Options: Retain is the first option, Replacement candidate for the second or more options (Vote 1 of M)	No	
Recall Issues with Options: Two contests with access to a second contest conditional upon a specific vote in contest one. (Must vote Yes to vote in 2nd contest.)	No	
Recall Issues with Options: Two contests with access to a second contest conditional upon any vote in contest one. (Must vote Yes to vote in 2nd contest.)	No	
Cumulative Voting		
Cumulative Voting: Voters are permitted to cast, as many votes as there are seats to be filled for one or more candidates. Voters are not limited to giving only one vote to a candidate. Instead, they can put multiple votes on one or more candidate.	No	
Ranked Order Voting		
Ranked Order Voting: Voters can write in a ranked vote.	Yes	Ballots can be formatted for Ranked Order Voting and the system supports export of CVR data for processing of Ranked Order Voting Rounds

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Feature/Characteristic	Yes/No	Comment
Ranked Order Voting: A ballot stops being counted when all ranked choices have been eliminated	Yes	Ballots can be formatted for Ranked Order Voting and the system supports export of CVR data for processing of Ranked Order Voting Rounds
Ranked Order Voting: A ballot with a skipped rank counts the vote for the next rank.	Yes	Ballots can be formatted for Ranked Order Voting and the system supports export of CVR data for processing of Ranked Order Voting Rounds
Ranked Order Voting: Voters rank candidates in a contest in order of choice. A candidate receiving a majority of the first choice votes wins. If no candidate receives a majority of first choice votes, the last place candidate is deleted, each ballot cast for the deleted candidate counts for the second choice candidate listed on the ballot. The process of eliminating the last place candidate and recounting the ballots continues until one candidate receives a majority of the vote	No	
Ranked Order Voting: A ballot with two choices ranked the same, stops being counted at the point of two similarly ranked choices.	Yes	Ballots can be formatted for Ranked Order Voting and the system supports export of CVR data for processing of Ranked Order Voting Rounds
Ranked Order Voting: The total number of votes for two or more candidates with the least votes is less than the votes of the candidate with the next highest number of votes, the candidates with the least votes are eliminated simultaneously and their votes transferred to the next-ranked continuing candidate.	No	
Provisional or Challenged Ballots		
Provisional/Challenged Ballots: A voted provisional ballots is identified but not included in the tabulation, but can be added in the central count.	Yes	
Provisional/Challenged Ballots: A voted provisional ballots is included in the tabulation, but is identified and can be subtracted in the central count	Yes	
Provisional/Challenged Ballots: Provisional ballots maintain the secrecy of the ballot.	Yes	
Overvotes (must support for specific type of voting system)		
Overvotes: P & M: Overvote invalidates the vote. Define how overvotes are counted.	Yes	
Overvotes: DRE: Prevented from or requires correction of overvoting.	Yes	

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Feature/Characteristic	Yes/No	Comment
Overvotes: If a system does not prevent overvotes, it must count them. Define how overvotes are counted.	Yes	
Overvotes: DRE systems that provide a method to data enter absentee votes must account for overvotes.	Yes	
Undervotes		
Undervotes: System counts undervotes cast for accounting purposes	Yes	
Blank Ballots		
Totally Blank Ballots: Any blank ballot alert is tested.	Yes	
Totally Blank Ballots: If blank ballots are not immediately processed, there must be a provision to recognize and accept them	Yes	
Totally Blank Ballots: If operators can access a blank ballot, there must be a provision for resolution.	Yes	
Networking		
Wide Area Network – Use of Modems	No	
Wide Area Network – Use of Wireless	No	
Local Area Network – Use of TCP/IP	No	
Local Area Network – Use of Infrared	No	
Local Area Network – Use of Wireless	No	
FIPS 140-2 validated cryptographic module	Yes	
Used as (if applicable):		
Precinct counting device	Yes	DS200, ExpressTouch, ExpressVote XL
Central counting device	Yes	DS450 and/or DS850

Baseline Certification Engineering Change Orders (ECO)

This table depicts the ECOs certified with the voting system:

Change ID	Date	Component	Description	Inclusion
ECO 1035	2/13/20	DS200	Improve thermal stability and higher resolution calibration characteristics.	DeMinimis Optional
ECO 1047	2/28/20	ExpressVote XL	Aesthetic changes, modifications to cart and curtain hardware.	DeMinimis Optional
ECO 1059	2/21/20	Election Management System	Added Arial Fonts	DeMinimis Optional
ECO 1060	2/22/20	Electionware	Add Java Archive file to Electionware startup.	DeMinimis Optional
ECO 1062	2/22/20	Election Management System	Update to Windows 10 and Server 2016 for ECC risk	DeMinimis Optional

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Accepted: VVSG 2.0 Implementation Working Group Weekly Meeting @ Weekly from 1pm to 2pm on Friday from Fri Jul 31 to Fri Oct 16 (EDT) (mturner@eac.gov)

email: "russ.dawson@clearballot.com" **Tuesday, August 4, 2020 at 9:49:17 AM Eastern Daylight Time**
To: email: "mturner@eac.gov"

russ.dawson@clearballot.com has accepted this invitation.

VVSG 2.0 Implementation Working Group Weekly Meeting

When Weekly from 1pm to 2pm on Friday from Fri Jul 31 to Fri Oct 16 Eastern Time - New York

Calendar mturner@eac.gov

Who
- mturner@eac.gov - organizer
- mcoutts@unisynvoting.com
- eburton@eac.gov
- jlovato@eac.gov
- ajoiner@eac.gov
- gwenyth.winship@clearballot.com
- zshaw@eac.gov
- mharrington@eac.gov
- jack.cobb@provandv.com
- russ.dawson@clearballot.com
- jfranklin@eac.gov
- ginnyb@microsoft.com
- matt@voting.works
- bhirsch@microvote.com
- jbowers@eac.gov
- paumayr@eac.gov
- ben@voting.works
- oletts@eac.gov
- dmunoz@eac.gov
- smpearson@essvote.com
- mary.brady@nist.gov
- jfleming@eac.gov
- Laskowski, Sharon J. Dr. (Fed)
- Wack, John P. (Ctr)
- aregenscheid@gmail.com
- Howell, Gema E. (Fed)
- Carnahan, Lisa J. (Fed)
- michael.walker@provandv.com
- msantos@slicompliance.com
- edwin.smith@smartmatic.com
- ian.piper@dominionvoting.com
- cortiz@unisynvoting.com
- kathy.rogers@essvote.com
- wendy.owens@provandv.com
- aaron.wilson@cisecurity.org
- tmapps@slicompliance.com
- kay.stimson@dominionvoting.com
- sderheimer@hartic.com
- jcanter@hartic.com
- Edwin Smith
- Wilburg, Patricia (Fed)
- Hallett, Tim
- Richbourg, Paige

Join Zoom Meeting

https://eac-gov.zoom.us/j/3061905854?pwd=UVY4bjAwN3A0SnZlb09jV1BLSERxZz09

Meeting ID: 306 190 5854

Passcode: 04092020

One tap mobile

+13126266799,,3061905854# US (Chicago)

+19292056099,,3061905854# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York)

+1 669 900 6833 US (San Jose)

877 853 5247 US Toll-free

888 788 0099 US Toll-free

Meeting ID: 306 190 5854

Find your local number: https://eac-gov.zoom.us/u/kdZogWnSjg

Invitation from Google Calendar

You are receiving this email at the account mturner@eac.gov because you are subscribed for invitation replies on calendar mturner@eac.gov.

To stop receiving these emails, please log in to https://www.google.com/calendar/ and change your notification settings for this calendar.

Forwarding this invitation could allow any recipient to send a response to the organizer and be added to the guest list, or invite others regardless of their own invitation status, or to modify your RSVP. Learn More.

Attachments:

invite.ics 2.2k

invite.ics 2.2k

DVS File Sharing Link [expires 6/29/2020 4:48:00 PM]

email: "ian.piper@dominionvoting.com Ian Piper" **Wednesday, June 24, 2020 at 4:50:05 PM Eastern Daylight Time**
To: email: "hunter.medlock@provandv.com" , email: "paumayr@eac.gov"

You have received access to a DVS File Share from Ian Piper. The link to transfer your file(s) will expire on Monday, June 29, 2020 2:48 PM.

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D-Suite 5.5-C System ID Guide

For assistance, please contact the file sender.

Voting System by Jurisdiction

Manufacturer	County	Jurisdiction	State
Hart	Delaware County		PA
Hart	Falls County		TX
Hart	Hillsdale County	Adams Township	Michigan
Hart	Oakland County	Addison Township	Michigan
Hart	Hillsdale County	Allen Township	Michigan
Hart	Ottawa County	Allendale Charter Township	Michigan
Hart	Hillsdale County	Amboy Township	Michigan
Hart	Washtenaw County	Ann Arbor	Michigan
Hart	Washtenaw County	Ann Arbor Charter Township	Michigan
Hart	Genesee County	Argentine Township	Michigan
Hart	Genesee County	Atlas Township	Michigan
Hart	Oakland County	Auburn Hills	Michigan
Hart	Washtenaw County	Augusta Charter Township	Michigan
Hart	Clinton County	Bath Charter Township	Michigan
Hart	Ionia County	Belding	Michigan
Hart	Eaton County	Bellevue Township	Michigan
Hart	Montcalm County	Belvidere Township	Michigan
Hart	Clinton County	Bengal Township	Michigan
Hart	Cheboygan County	Benton Township	Michigan
Hart	Oakland County	Berkley	Michigan
Hart	Ionia County	Berlin Township	Michigan
Hart	Oakland County	Bingham Township	Michigan
Hart	Oakland County	Birmingham	Michigan
Hart	Ottawa County	Blendon Township	Michigan
Hart	Montcalm County	Bloomer Township	Michigan
Hart	Oakland County	Bloomfield Charter Township	Michigan
Hart	Oakland County	Bloomfield Hills	Michigan
Hart	Kalkaska County	Blue Lake Township	Michigan
Hart	Ionia County	Boston Township	Michigan
Hart	Oakland County	Brandon Charter Township	Michigan
Hart	Washtenaw County	Bridgewater Township	Michigan
Hart	Livingston County	Brighton	Michigan
Hart	Livingston County	Brighton Township	Michigan
Hart	Eaton County	Brookfield Township	Michigan
Hart	Genesee County	Burton	Michigan
Hart	McDonough County	Bushnell Township	Michigan
Hart	Hillsdale County	Cambria Township	Michigan
Hart	Hillsdale County	Camden Township	Michigan
Hart	Ionia County	Campbell Township	Michigan
Hart	Eaton County	Carmel Township	Michigan
Hart	Montcalm County	Carson City	Michigan
Hart	Muskegon County	Casnovia Township	Michigan
Hart	Montcalm County	Cato Township	Michigan
Hart	Muskegon County	Cedar Creek Township	Michigan
Hart	Eaton County	Charlotte	Michigan

Hart	Washtenaw County	Chelsea	Michigan
Hart	Ottawa County	Chester Township	Michigan
Hart	Eaton County	Chester Township	Michigan
Hart	Oakland County	Clarkston	Michigan
Hart	Oakland County	Clawson	Michigan
Hart	Genesee County	Clayton Charter Township	Michigan
Hart	Genesee County	Clio	Michigan
Hart	Livingston County	Cohoctah Township	Michigan
Hart	Oakland County	Commerce Charter Township	Michigan
Hart	Livingston County	Conway Township	Michigan
Hart	Ottawa County	Coopersville	Michigan
Hart	Ottawa County	Crockery Township	Michigan
Hart	Montcalm County	Crystal Township	Michigan
Hart	Clinton County	Dallas Township	Michigan
Hart	Muskegon County	Dalton Township	Michigan
Hart	Ionia County	Danby Township	Michigan
Hart	Genesee County	Davison	Michigan
Hart	Genesee County	Davison Township	Michigan
Hart	Montcalm County	Day Township	Michigan
Hart	Isabella County	Deerfield Township	Michigan
Hart	Eaton County	Delta Charter Township	Michigan
Hart	Clinton County	DeWitt	Michigan
Hart	Clinton County	DeWitt Charter Township	Michigan
Hart	Washtenaw County	Dexter	Michigan
Hart	Washtenaw County	Dexter Township	Michigan
Hart	Montcalm County	Douglass Township	Michigan
Hart	Clinton County	Duplain Township	Michigan
Hart	Clinton County	Eagle Township	Michigan
Hart	Ionia County	Easton Township	Michigan
Hart	Eaton County	Eaton Rapids	Michigan
Hart	Eaton County	Eaton Rapids Township	Michigan
Hart	Eaton County	Eaton Township	Michigan
Hart	Muskegon County	Egelston Township	Michigan
Hart	Clinton County	Essex Township	Michigan
Hart	Montcalm County	Eureka Charter Township	Michigan
Hart	Montcalm County	Evergreen Township	Michigan
Hart	Montcalm County	Fairplain Township	Michigan
Hart	Oakland County	Farmington	Michigan
Hart	Oakland County	Farmington Hills	Michigan
Hart	Hillsdale County	Fayette Township	Michigan
Hart	Genesee County	Fenton	Michigan
Hart	Genesee County	Fenton Charter Township	Michigan
Hart	Oakland County	Ferndale	Michigan
Hart	Montcalm County	Ferris Township	Michigan
Hart	Ottawa County	Ferrysburg	Michigan
Hart	Genesee County	Flint	Michigan
Hart	Genesee County	Flint Charter Township	Michigan
Hart	Genesee County	Flushing	Michigan

Hart	Genesee County	Flushing Charter Township	Michigan
Hart	Cheboygan County	Forest Township	Michigan
Hart	Washtenaw County	Freedom Township	Michigan
Hart	Muskegon County	Fruitland Township	Michigan
Hart	Muskegon County	Fruitport Charter Township	Michigan
Hart	Genesee County	Gaines Township	Michigan
Hart	Genesee County	Genesee Charter Township	Michigan
Hart	Livingston County	Genoa Charter Township	Michigan
Hart	Ottawa County	Georgetown Charter Township	Michigan
Hart	Genesee County	Grand Blanc	Michigan
Hart	Genesee County	Grand Blanc Charter Township	Michigan
Hart	Ottawa County	Grand Haven	Michigan
Hart	Ottawa County	Grand Haven Charter Township	Michigan
Hart	Eaton County	Grand Ledge	Michigan
Hart	Livingston County	Green Oak Township	Michigan
Hart	Alcona County	Greenbush Township	Michigan
Hart	Montcalm County	Greenville	Michigan
Hart	Oakland County	Groveland Township	Michigan
Hart	Livingston County	Hamburg Township	Michigan
Hart	Mason County	Hamlin Township	Michigan
Hart	Livingston County	Handy Township	Michigan
Hart	Livingston County	Hartland Township	Michigan
Hart	Oakland County	Hazel Park	Michigan
Hart	Oakland County	Highland Charter Township	Michigan
Hart	Hillsdale County	Hillsdale	Michigan
Hart	Hillsdale County	Hillsdale Township	Michigan
Hart	Ottawa County	Holland	Michigan
Hart	Ottawa County	Holland Charter Township	Michigan
Hart	Oakland County	Holly Township	Michigan
Hart	Muskegon County	Holton Township	Michigan
Hart	Montcalm County	Home Township	Michigan
Hart	Livingston County	Howell	Michigan
Hart	Livingston County	Howell Township	Michigan
Hart	Ottawa County	Hudsonville	Michigan
Hart	Oakland County	Huntington Woods	Michigan
Hart	Oakland County	Independence Charter Township	Michigan
Hart	Ionia County	Ionia	Michigan
Hart	Ionia County	Ionia Township	Michigan
Hart	Livingston County	Iosco Township	Michigan
Hart	Ottawa County	Jamestown Charter Township	Michigan
Hart	Cass County	Jefferson Township	Michigan
Hart	Hillsdale County	Jonesville	Michigan
Hart	Eaton County	Kalamo Township	Michigan
Hart	Oakland County	Keego Harbor	Michigan
Hart	Ionia County	Keene Township	Michigan
Hart	Oakland County	Lake Angelus	Michigan
Hart	Muskegon County	Laketon Township	Michigan
Hart	Oakland County	Lathrup Village	Michigan

Hart	Clinton County	Lebanon Township	Michigan
Hart	Washtenaw County	Lima Township	Michigan
Hart	Genesee County	Linden	Michigan
Hart	Hillsdale County	Litchfield	Michigan
Hart	Hillsdale County	Litchfield Township	Michigan
Hart	Washtenaw County	Lodi Township	Michigan
Hart	Washtenaw County	Lyndon Township	Michigan
Hart	Oakland County	Lyon Charter Township	Michigan
Hart	Ionia County	Lyons Township	Michigan
Hart	Oakland County	Madison Heights	Michigan
Hart	Washtenaw County	Manchester Township	Michigan
Hart	Montcalm County	Maple Valley Township	Michigan
Hart	Charlevoix County	Marion Township	Michigan
Hart	Monroe County	Milan	Michigan
Hart	Oakland County	Milford Charter Township	Michigan
Hart	Muskegon County	Montague	Michigan
Hart	Muskegon County	Montague Township	Michigan
Hart	Montcalm County	Montcalm Township	Michigan
Hart	Genesee County	Montrose	Michigan
Hart	Genesee County	Montrose Charter Township	Michigan
Hart	Muskegon County	Moorland Township	Michigan
Hart	Hillsdale County	Moscow Township	Michigan
Hart	Genesee County	Mount Morris	Michigan
Hart	Genesee County	Mount Morris Charter Township	Michigan
Hart	Genesee County	Mundy Township	Michigan
Hart	Muskegon County	Muskegon	Michigan
Hart	Muskegon County	Muskegon Charter Township	Michigan
Hart	Muskegon County	Muskegon Heights	Michigan
Hart	Muskegon County	North Muskegon	Michigan
Hart	Ionia County	North Plains Township	Michigan
Hart	Washtenaw County	Northfield Township	Michigan
Hart	Oakland County	Northville	Michigan
Hart	Muskegon County	Norton Shores	Michigan
Hart	Oakland County	Novi	Michigan
Hart	Oakland County	Novi Township	Michigan
Hart	Oakland County	Oak Park	Michigan
Hart	Oakland County	Oakland Charter Township	Michigan
Hart	Livingston County	Oceola Township	Michigan
Hart	Ionia County	Odessa Township	Michigan
Hart	Clinton County	Olive Township	Michigan
Hart	Ottawa County	Olive Township	Michigan
Hart	Eaton County	Olivet	Michigan
Hart	Eaton County	Oneida Charter Township	Michigan
Hart	Ionia County	Orange Township	Michigan
Hart	Oakland County	Orchard Lake Village	Michigan
Hart	Oakland County	Orion Charter Township	Michigan
Hart	Ionia County	Orleans Township	Michigan
Hart	Ionia County	Otisco Township	Michigan

Hart	Clinton County	Ovid	Michigan
Hart	Branch County	Ovid Township	Michigan
Hart	Oakland County	Oxford Charter Township	Michigan
Hart	Ottawa County	Park Township	Michigan
Hart	Montcalm County	Pierson Township	Michigan
Hart	Montcalm County	Pine Township	Michigan
Hart	Washtenaw County	Pittsfield Charter Township	Michigan
Hart	Hillsdale County	Pittsford Township	Michigan
Hart	Oakland County	Pleasant Ridge	Michigan
Hart	Ottawa County	Polkton Charter Township	Michigan
Hart	Oakland County	Pontiac	Michigan
Hart	Ottawa County	Port Sheldon Township	Michigan
Hart	Ionia County	Portland	Michigan
Hart	Ionia County	Portland Township	Michigan
Hart	Eaton County	Potterville	Michigan
Hart	Livingston County	Putnam Township	Michigan
Hart	Hillsdale County	Ransom Township	Michigan
Hart	Muskegon County	Ravenna Township	Michigan
Hart	Hillsdale County	Reading	Michigan
Hart	Hillsdale County	Reading Township	Michigan
Hart	Montcalm County	Reynolds Township	Michigan
Hart	Genesee County	Richfield Township	Michigan
Hart	Kalamazoo County	Richland Township	Michigan
Hart	Clinton County	Riley Township	Michigan
Hart	Ottawa County	Robinson Township	Michigan
Hart	Oakland County	Rochester	Michigan
Hart	Oakland County	Rochester Hills	Michigan
Hart	Ionia County	Ronald Township	Michigan
Hart	Muskegon County	Roosevelt Park	Michigan
Hart	Oakland County	Rose Township	Michigan
Hart	Eaton County	Roxand Township	Michigan
Hart	Oakland County	Royal Oak	Michigan
Hart	Oakland County	Royal Oak Charter Township	Michigan
Hart	Allegan County	Salem Township	Michigan
Hart	Washtenaw County	Saline	Michigan
Hart	Washtenaw County	Saline Township	Michigan
Hart	Washtenaw County	Scio Township	Michigan
Hart	Hillsdale County	Scipio Township	Michigan
Hart	Ionia County	Sebewa Township	Michigan
Hart	Washtenaw County	Sharon Township	Michigan
Hart	Montcalm County	Sidney Township	Michigan
Hart	Hillsdale County	Somerset Township	Michigan
Hart	Oakland County	South Lyon	Michigan
Hart	Oakland County	Southfield	Michigan
Hart	Oakland County	Southfield Township	Michigan
Hart	Ottawa County	Spring Lake Township	Michigan
Hart	Oakland County	Springfield Charter Township	Michigan
Hart	Clinton County	St. Johns	Michigan

Hart	Montcalm County	Stanton	Michigan
Hart	Muskegon County	Sullivan Township	Michigan
Hart	Eaton County	Sunfield Township	Michigan
Hart	Washtenaw County	Superior Charter Township	Michigan
Hart	Genesee County	Swartz Creek	Michigan
Hart	Oakland County	Sylvan Lake	Michigan
Hart	Washtenaw County	Sylvan Township	Michigan
Hart	Ottawa County	Tallmadge Charter Township	Michigan
Hart	Genesee County	Thetford Township	Michigan
Hart	Oakland County	Troy	Michigan
Hart	Kent County	Tyrone Township	Michigan
Hart	Livingston County	Unadilla Township	Michigan
Hart	Eaton County	Vermontville Township	Michigan
Hart	Clinton County	Victor Township	Michigan
Hart	Genesee County	Vienna Charter Township	Michigan
Hart	Oakland County	Walled Lake	Michigan
Hart	Eaton County	Walton Township	Michigan
Hart	Oakland County	Waterford Charter Township	Michigan
Hart	Clinton County	Watertown Charter Township	Michigan
Hart	Washtenaw County	Webster Township	Michigan
Hart	Oakland County	West Bloomfield Charter Townshi	Michigan
Hart	Clinton County	Westphalia Township	Michigan
Hart	Hillsdale County	Wheatland Township	Michigan
Hart	Oakland County	White Lake Charter Township	Michigan
Hart	Muskegon County	White River Township	Michigan
Hart	Muskegon County	Whitehall	Michigan
Hart	Muskegon County	Whitehall Township	Michigan
Hart	Eaton County	Windsor Charter Township	Michigan
Hart	Montcalm County	Winfield Township	Michigan
Hart	Oakland County	Wixom	Michigan
Hart	Hillsdale County	Woodbridge Township	Michigan
Hart	Hillsdale County	Wright Township	Michigan
Hart	Ottawa County	Wright Township	Michigan
Hart	Washtenaw County	York Charter Township	Michigan
Hart	Washtenaw County	Ypsilanti	Michigan
Hart	Washtenaw County	Ypsilanti Charter Township	Michigan
Hart	Ottawa County	Zeeland	Michigan
Hart	Ottawa County	Zeeland Charter Township	Michigan
Hart	Clinton County		Michigan
Hart	Eaton County		Michigan
Hart	Genesee County		Michigan
Hart	Hillsdale County		Michigan
Hart	Ionia County		Michigan
Hart	Livingston County		Michigan
Hart	Montcalm County		Michigan
Hart	Muskegon County		Michigan
Hart	Oakland County		Michigan
Hart	Ottawa County		Michigan

Hart	Washtenaw County		Michigan
Hart	Chisago County		Minnesota
Hart	Ramsey County		Minnesota
Hart	Rankin County		Mississippi
Hart	Canyon County		ID
Hart	Monroe County		IN
Hart	Ward County		TX
Hart	Caswell County		NC
Hart	Brunswick County		NC
Hart	Union County		NC
Hart	Chatham County		NC
Hart	Ada County	Boise	Idaho
Hart	Caddo	Comanche Nation	Oklahoma
Hart	Osage County	Osage Nation	Oklahoma
Hart	Milam County	Cameron	Texas
Hart	Milam County	Rockdale	Texas
Hart	Milam County	Thorndale	Texas
Hart	City of Alexandria	Alexandria	Virginia
Hart	City of Charlottesville	Charlottesville	Virginia
Hart	City of Chesapeake	Chesapeake	Virginia
Hart	City of Falls Church	Falls Church	Virginia
Hart	City of Lexington	Lexington	Virginia
Hart	City of Norfolk	Norfolk	Virginia
Hart	Ada County		Idaho
Hart	Bonner County		Idaho
Hart	Marshall County		Kentucky
Hart	Trimble County		Kentucky
Hart	Clackamas County		Oklahoma
Hart	Marion County		Oklahoma
Hart	Benton County		Tennessee
Hart	Aransas County		Texas
Hart	Brazoria County		Texas
Hart	Callahan County		Texas
Hart	Chambers County		Texas
Hart	Denton County		Texas
Hart	DeWitt County		Texas
Hart	Eastland County		Texas
Hart	Hidalgo County		Texas
Hart	Hopkins County		Texas
Hart	Irion County		Texas
Hart	Jack County		Texas
Hart	Lubbock County		Texas
Hart	Madison County		Texas
Hart	Medina County		Texas
Hart	Milam County		Texas
Hart	Nueces County		Texas
Hart	Polk County		Texas
Hart	Potter County		Texas

Hart	Randall County	Texas
Hart	San Jacinto County	Texas
Hart	San Patricio County	Texas
Hart	Titus County	Texas
Hart	Waller County	Texas
Hart	Young County	Texas
Hart	Zapata County	Texas
Hart	Amherst County	Virginia
Hart	Campbell County	Virginia
Hart	Essex County	Virginia
Hart	Floyd County	Virginia
Hart	Henry County	Virginia
Hart	King and Queen County	Virginia
Hart	King George County	Virginia
Hart	Madison County	Virginia
Hart	Northumberland County	Virginia
Hart	Prince William County	Virginia
Hart	Richmond County	Virginia
Hart	Rockbridge County	Virginia
Hart	Westmoreland County	Virginia
Hart	Chelan County	Washington
Hart	Douglas County	Washington
Hart	Island County	Washington
Hart	Kittitas County	Washington
Hart	Skagit County	Washington
Hart	Wise County	TX
Hart	Kitsap County	WA
Hart	San Augustine County	TX
Hart	St. Louis County	MO
Hart	Coryell County	TX
Hart	Culberson County	TX
Hart	Parker County	TX

Product	Version
Verity	2.3.4
Verity	2.3
Verity	2.2.1
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June 30, 2020

U.S. Election Assistance Commission (EAC)
1335 East West Highway, Suite 4300
Silver Spring, MD 20910

Mona Harrington
Jerome Lovato

RE: VVSG 2.0 Requirements comments

Mona & Jerome,

Thanks again for the opportunity to continue the discussion around the VVSG 2.0 Requirements. We're definitely not blind to the stress placed on you guys to get this right *and get it right fast*. We want the same thing.

In Friday's meeting you asked the manufacturers to highlight specific Requirements that pose challenges, accompanied by additional detail on technical feasibility. In Hart's original submitted comments, you'll find detailed feedback on both the strict language and impact of each Requirement, including an explanation on *why* the language poses a challenge.

Feasibility is measured in a variety of ways, and our comments were drafted with citations to one or more key factors that will impact feasibility. Primarily, these factors include technical hurdles, cost of goods, time to market, and usability (i.e., impact on the end user). Additionally important to this discussion is the understanding that feasibility is also an evaluation on the quality of the Requirement itself, and we drafted our response with a focus on listing those deficiencies in the Requirements as written.

A good example of one of our comments that includes this detail already is on Requirement 6.1.D Audio Privacy. The draft language states that "Audio during the voting session must be audible only to the voter." This is a great example of a well-intended Principle that lacks necessary technical specificity. Unfortunately, without a measurable number of decibels and a standard for distance between voting stations, "audible" is little more than a subjective standard which we have no calculable way to attain. Without more detail, our only ability to comply would be to supply more expensive, noise-canceling headphones, and so, in our comments we note that "cost" will be impacted. However, it is entirely possible that we may be able to comply with the Requirement without the need for more expensive equipment, but the Requirement doesn't provide us a path to get there. As it stands, we would need to initiate an RFI to know.

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Another good example – one that demonstrates a challenge shared across the industry – is on 11.3.1-B Multi-factor Authentication for Critical Operations. We state in our response: "Cost. It will increase cost to the system to add multi-factor authorization to voting devices." This aligns with, among others, OSET's response #26, in which they state that OSET "…cautions against Sec. 11.3.1-B's requirement that multi-factor authentication (MFA) be required for opening and closing the polls at in-person polling places." OSET goes on to list other reasons why it is not feasible, all of which Hart agrees with wholeheartedly. We highlight this specific case because it serves as a good example of an industrywide challenge in a specific VVSG 2.0 Requirement.

As highlighted above, feasibility starts with viable Requirements. And so, in our submitted comments we call specific attention to those Requirements that lack the specificity and detail necessary for us to provide meaningful feedback on feasibility.

We highly recommend that NIST bring in support staff with experience in the IEEE Computer Society Standard 830-1998. Scientists trained in the IEEE standard can provide an unbiased, expert analysis on the maturity and readiness of the Requirements.

As we've cited previously, a good example of an ambiguous Requirement can be found in Requirement 9.4-A, Efficient Compliance Audit, which states "The voting system must produce records to enable an efficient compliance audit." This is the extent of the Requirement as drafted. What is "efficient?" How is it measured? We can't provide an analysis of our roadblocks to compliance without understanding *exactly what* is being tested.

Ultimately, we cannot assess what we do not understand. And if not understood, feasibility cannot be determined.

We drafted our submitted comments with the hope that they will point you to Requirements that need a bit more bake time. And we would be more than happy to set up a call in which our experts can walk the EAC's VVSG team through our comments to provide direct feedback on the challenges manufacturers and VSTLs will face if the Requirements are not supplemented with additional information. Just let us know, and we'll get something set up.

This is going to take a full team effort, and you have our commitment to dedicate whatever resources are necessary to help the EAC adopt an updated VVSG sooner-rather-than-later. Please consider us a resource and let us know how we can continue to provide value in this process.

–The Hart InterCivic VVSG team

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Contents

Principle 1: High Quality Design 3
Principle 2: High Quality Implementation 26
Principle 3: Transparent 31
Principle 4: Interoperable 33
Principle 5: Equivalent and Consistent Voter Access 38
Principle 6: Voter Privacy 41
Principle 7: Marked, Verified, and Cast as Intended 42
Principle 8: Robust, Safe, Usable, and Accessible 48
Principle 9: Auditable 50
Principle 10: Ballot Secrecy 56
Principle 11: Access Control 59
Principle 12: Physical Security 61
Principle 13: Data Protection 64
Principle 14: System Integrity 65
Principle 15: Detection and Monitoring 67

A Note About Good Requirements

A primary objective in the review of the VVSG 2.0 Requirements is to *determine its readiness* to use the guidelines as written for development of VVSG 2.0 compliant voting systems. For each of the fifteen principles, Hart reviewed every requirement against best practices as defined by IEEE Computer Society, Standard 830-1998, IEEE Recommended Practice for Software Requirements. Per IEEE 830-1998, characteristics of a good requirement must be:

- Correct
- Unambiguous
- Complete
- Consistent
- Ranked for importance and/or stability
- Verifiable
- Modifiable
- Traceable

Unambiguous is a key characteristic of a good requirement. IEEE 830-1998 defines an unambiguous requirement as "…every requirement stated therein has only one interpretation." Unfortunately, many of the VVSG 2.0 Requirements, as currently drafted, fail to achieve this standard. While Hart's submission will provide specific comments on the ambiguity of the requirements, one example is useful to provide context to drive the importance of unambiguous requirements.

Within Principle 9, there is this the goal for "efficient" audits. As a high-level Principle, this is good, but as a Requirement, the language is ambiguous: "9.4-A, Efficient compliance audit." This is the extent of the requirement as drafted. But what does "efficient" mean and how is it measured? The requirement is silent on this, and thus fails to meet many of the eight characteristics of a good requirement per the IEEE specification, most importantly, unambiguous.

The example provided is just one of a serial problem that exists throughout the VVSG 2.0 specification that must be addressed to be an effective guide in the development of compliant systems. Without it, there will be a high dependency on the Test Assertion process, which will slow manufacturers' ability to engineer the systems, or there will be a high use of the EAC's RFI (Request for Information) process to add clarity to an insufficiently drafted Requirement, resulting in the further dampening of efforts to build compliant systems. The best approach is to follow good*, well proven,* requirements generation as defined by the IEEE.

Principle 1: High Quality Design

The Requirements in Principle 1 include many of the basic functions of a voting system and are generally well drafted and well-intended. However, several of the Requirements in Principle 1 suffer from similar issues:

- Requirement writing that is not precise and unambiguous. When a Requirement can be interpreted in multiple ways, or does not appear to be measurable, it is challenging to build a system that complies.
- Attributing the responsibility for meeting a Requirement to something that cannot take action. For example, multiple Requirements state that the "election definition" must take a specific action. Since an election definition consists of data only and cannot take actions, it is unclear which components of the voting system must meet the Requirement.
- There are multiple Requirements in this section that are duplicates of Requirements in other sections but are written differently here. This duplication will lead to conflicting interpretations and ambiguity in the standard as a whole.
- Some Requirements appear to be outside of the existing scope of the VVSG, such as Requirements stating that electronic poll books must be tested in some situations.

Section 1.1

Our primary concern in section 1.1 is that multiple requirements appear to conflict with, or not allow, system functionality required by state and local laws and/or rules.

Specifically:

- There are requirements that would prevent our customers from continuing to use some commonly used L&A test processes.
- There are requirements that appear to disallow a common form of ballot construction where all contests from all parties are placed on a single ballot in an open primary. This ballot layout is required in multiple states.
- There are requirements that disallow a commonly used workflow, where polls are closed for Election Day voting and then reopened to process additional, usually absentee, ballots. Again, this is currently required in multiple states.
- There are requirements that mandate the use of unique identifiers on ballots. While this practice is useful for Risk-Limiting Audits, it is also illegal in multiple states.

Additionally, this section redefines what must be in a cast vote record (CVR). Our primary concerns are:

- Some requirements introduce security risks.
- Other requirements will inflate the size of a CVR, incurring additional cost or slowing performance. All of these items could be provided in a system export, rather than in the CVR itself, without affecting cost or Election Night performance.

Section 1.2

Section 1.2 defines a series of tests around undefined concepts of "typical" mark distributions, ballot volumes, and other metrics. American elections are extremely diverse, and there is no single definition for a typical election, typical use, or typical volume. This makes it likely that each test lab will develop its own definition of "typical," leading to substantially different test efforts being performed at different VSTLs. In any case, specific testing in a "typical" scenario seems unnecessary and would only add cost and complexity. The VVSG already includes other requirements that mandate comprehensive testing through the entire range from low to high volumes, including above the stated system limits.

Section 1.3

All of the requirements in this section 1.3 are subjective, unmeasurable, and unnecessary. The intent appears to be to require that the system be testable. This is unnecessary. If a VSTL is unable to test a system to their satisfaction that system will not gain VVSG certification. There is no need for these additional requirements.

Additionally, the requirements are structured around ensuring things that cannot be ensured by a system under test – specifically that the testers themselves can select appropriate tools and develop tests, etc.

We believe this section should be either wholly removed, or entirely rewritten to require specific, measurable deliverables in the TDP or system design.

Requirement	Comment	Challenges
1.1.1.C Define political geographies	It is unclear if the list of political geographies is meant to define specific objects that must be present in the system. In an election system, all geographies are simply collections of precinct-splits. Does the voting system have to contain a literal set of labels for each item listed in 1-3, even though these are logically identical in the system? (i.e., there is no difference between a city and a district – both are simply collections of precinct-splits). The list is not comprehensive and seems unnecessary in the requirement. Perhaps this is better placed as an example in the discussion.	

1.1.1-J Confirm recording of election definition	This Requirement is ambiguous. It ascribes the required action to the “election definition,” but an election definition does not perform actions. It is unnecessary for the system that writes the election definition to verify it, and doing so during a write will slow down system performance. Components downstream should (and do in current systems) validate the election definition before using it. Does validation that occurs when read or imported satisfy this requirement?	
1.1.1-K Election definition distribution	An election definition should never be capable of generating additional artifacts. This would require it to contain executable code, which is a bad security practice. We recommend: “election management system" or something similar.	
1.1.1-M Auto-format	This Requirement is too vague - who defines what “jurisdictional requirements” are? How can this be tested or measured? It is also unclear whether this Requirement discusses formatting (font size, weight, etc.) or the inclusion of contests and ballot content on the ballot. If it is talking about actual formatting, it should include an allowance for manual formatting which is required in many jurisdictions.	
1.1.1-P Nonpartisan formatting	This is covered in Principle 5; it should not also be covered here.	

1.1.1-X Retaining, modifying, reusing definitions	The implications of this requirement are unclear for reuse within the same election. What does it mean to "reuse" "general districting or precinct definitions" within the same election?	
1.1.1-Z Data inputs and outputs	This is already required in the interoperability section and should not also be included here. 1.1.1-Z #3 The intent is unclear since the CDF defines a format for data exchange (imports and exports) but does not define a report format.	
1.1.2.A Equipment setup	This requirement is vague and appears to require the voting system to verify things that a human tester should be verifying. We suggest using part of the discussion *as* the requirement, because it is better written than the requirements. Hart's suggested requirements: "The voting system must allow election personnel to conduct equipment and system readiness tests before an election to: • ensure that the voting system functions properly, • confirm that system equipment has been properly configured, and • obtain equipment status and readiness reports."	

1.1.2-D Verify proper installation of ballot styles	The system cannot verify that ballot styles have been properly selected by the user. Hart suggests this requirement be split into two requirements, with the following wording: 1. The system must allow the user to verify that software and ballot styles have been properly selected. 2. The system must notify an EO of any errors that occur while selecting or installing software and ballot styles.	
1.1.2-E Verify compatibility between software and ballot styles	This requirement uses vague terminology and is unclear. Hart suggests splitting the requirement into two, with the following wording: 1. Voting system components that use an election definition must be able to verify that an election definition was created from the same voting system version that is currently installed on the component. 2. The system must notify an EO of any errors that occur while loading an election definition.	
1.1.2-G Test all ballot positions	Hart suggests the following edit, to allow for systems that do not define discrete ballot positions (i.e., systems that do not use timing marks): "Scanners must allow for testing that uses all potential ballot positions in the election as active positions."	

1.1.2-J Testing calibration	Ballots are not a good choice for testing calibration in a scanner. Calibration testing varies by technology, but is typically performed using a specified test pattern with multiple shades and/or shapes. Hart suggests the following edit: Drop the phrase "test ballots." "Scanners must support testing the calibration of the paper-to-digital conversion (such as the calibration of optical sensors, the density threshold, and the logical reduction of scanned images to binary values, as applicable)."	
1.1.2-K Ballot marker readiness	This requirement is too vague. How can it be measured or tested?	
1.1.2-N Pre-election reports	1) This requirement should be modified to make it clear that all of this information does not need to be provided in one single report. Hart's suggested edit: "The voting system must provide the capability to report the following information:" 2) "Ballot preparation edit listings" is undefined, and we do not understand what this refers to.	
1.1.2-O Readiness reports for each polling place	1.1.2-O #s 3, 5, 6 This expand the scope of a voting system to include inventory management functionality. That is typically done by our customers outside the voting system.	

	Additionally, this restricts system design and flexibility. Our current system intentionally does not require users to define where a device will be deployed beforehand (which would be needed for a "Readiness Report"). Instead, a device is assigned a polling place when it is configured for the election. This allows for much greater efficiency in equipment setup, and faster, more flexible deployment of spare units if needed on Election Day.	
1.1.2-P Readiness reports, precinct tabulation	1.1.2-P #6 This requirement is too vague. Who determines what is required "to accommodate administrative reporting…"?	
1.1.2-Q Readiness reports, central tabulation	1.1.2-Q #6 This requirement is too vague. Who determines what is required "to accommodate administrative reporting…"?	
1.1.2-R Readiness reports, public network test ballots	Conflicts with 14.2-F. If the system is not allowed to connect to an external network, how could the system send ballots over a public network?	
1.1.3-B Verify L&A performed	It is not possible to meet this requirement with all L&A methodologies. For example, one system design involves fully clearing all memory after an L&A test. This design ensures the system has no knowledge of whether a test is currently being run or if live election results are being recorded – and so is not	

	capable of behaving differently in a test than it does in the live election. As written, 1.1.3-B requires the system to keep a record of previous tests, which could be taken advantage of by a compromised system. Additionally, the voting system should not be responsible for determining if a L&A test passed or failed. This is the responsibility of the humans testing the system. A compromised device could return "pass" regardless of the result of the test, so the system should not be trusted with testing itself or reporting that a test has been performed.	
1.1.3-C Prevent opening the polls	Hart does not agree with this requirement. Different jurisdictions across the country use different L&A methodologies. Requiring that each device pass an L&A test before use would force many jurisdictions to change the way they run currently run L&A tests and dramatically change the amount of work required in many jurisdictions. Also, our comments from 1.1.3-B apply to 1.1.3-C as well. However, we agree it is reasonable to require that a device does not have any recorded results before allowing polls to be opened (for example, that test data has been isolated). We recommend rewriting this requirement to focus only on preventing polls from being	

	opened if there are already votes recorded on the device.	
1.1.3-D Non-zero totals	This appears to be a duplication of 1.1.3 C. We recommend having only a single requirement that requires the "vote counters have been zeroed" prior to opening polls.	
1.1.3-E Scanners and ballot marking devices - enter voting mode	This requirement is redundant - 1.1.3-F.3 covers the same thing.	
1.1.4-B One cast ballot per session	This requirement does not apply to all voting scenarios used in the United States. In some places, joint elections are held where voters are issued separate ballots for each local jurisdiction. As written, this requirement would hurt usability and introduce additional human error, because a poll worker would have to activate each of those ballots separately. Hart's Suggestion: Rewrite the requirement as follows: "The voting system must not provide more ballots than authorized to a specific voter."	
1.1.4-C Contemporaneous record	This requirement is vague and unclear. What is considered a "credential" in this context? It appears the goal is to be able to reconcile ballots issued to ballots cast – however this can be (and is) accomplished without having or recording voter-specific credentials.	

	If something voter-specific is required, we believe this would be better placed in the device audit log rather than a paper record (as implied in the discussion).	
1.1.4-D Control ballot configuration	This requirement is too broad and attempts to cover electronic ballot-specific requirements in a requirement written to apply to all ballots. For example, how can you "disable all portions of the ballot the voter is not entitled to vote on" on a printed ballot? This requirement also appears to mandate behavior for open primaries that may conflict with state and local rules and laws.	
1.1.5-B N-of-M voting	There appears to be a typo in this requirement. A voter does not select a specified number of contests in N of M, they select a specified number of ballot options. Hart suggests the requirement be rewritten as follows: "For the N-of-M voting method, the voting system must be capable of gathering and recording votes in contests where the voter is allowed to choose up to a specified number of options."	
1.1.5-F Open primaries	This requirement appears to mandate behavior for open primaries that may conflict with state and local rules and laws. It seems to disallow open primary ballots where contests from multiple parties are	

	presented on the same sheet. This is a commonly used approach in U.S. elections.	
1.1.5-I Ballot rotation for contest options	The phrase "does not show bias to any contest option" is vague and could be interpreted differently by different audiences. While the goal of ballot rotation is to minimize bias introduced by ballot order, different implementations used in U.S. elections have different advantages and disadvantages. We suggest rewording the requirement as follows: "For ballot rotation, the voting system must be capable of gathering and recording votes when the ordering of contest options in ballot positions within each contest is variable across different ballot styles."	
1.1.6-F Record contest selection information	1.1.6-F #2 Ballot position is not necessary in the CVR recorded by the voting system. It can be cross-referenced in multiple ways with other parts of the system and included in exports if needed. Including it will lead to larger CVR size (and therefore cost or performance impacts).	
1.1.6-G Record write-in information	1.1.6-G #4: **The CVR should be immutable after being written.** Adjudication actions performed after the ballot is cast should not be recorded in the CVR, and this should be explicitly addressed in	

	this requirement. Requiring systems to edit or alter CVRs after they have been recorded is a bad practice and lowers the security of the system. For example, adjudication is typically performed in a separate, centralized tabulation system. When implementing the security best-practice of "least-privileges," a centralized tabulation system should have no ability to write or modify CVRs.	
1.1.6-H Record election and contest information	1.1.6-H #2 Voting method is not necessary in the CVR recorded by the voting system. It can be cross-referenced in multiple ways with other parts of the system and included in exports if needed. Including it will lead to larger CVR size (and therefore cost or performance impacts).	
1.1.6-J Record detected mark information	Marginal mark information is not necessary in the CVR recorded by the voting system. Including it will lead to larger CVR size (and therefore cost or performance impacts). We believe recording it at all is unnecessary when a system provides the ability to notify the voter of a detected marginal mark and given the opportunity to correct their ballot. If deemed necessary to record, the standards should allow this to be recorded in a location outside of the CVR, so that it can be accessed only when needed and does not have to be	Writing this would bloat the size of the CVR record potentially driving up cost of memory devices and slowing results reporting.

	transferred and read by downstream systems (which impacts Election Night performance and therefore system cost).	
1.1.6-K Record audit information	1.1.6-K #2 The voting system does not know the geographical location of the device. We suggest rewording this to require the polling place name. 1.1.6-K #4 This requires the use of unique identifiers on ballots, which is not allowed by law in many jurisdictions.	
1.1.7-A Ballot handling functions for scanners	We suggest rewording this so that these functions are required of the voting system as a whole rather than the scanner itself. This is consistent with guidance in other parts of the VVSG 2.0 requirements to allow for COTS scanners that are not purpose-built for elections. Suggested rewording: "Voting Systems must provide features for handling ballots when they are scanned individually using voter-facing scanners or scanned in batches using batch-fed scanners."	
1.1.7-D Ballot separation when batch feeding	This requirement mandates *how* something needs to be accomplished rather *what* needs to be accomplished; therefore, overly restrictive. With modern voting technology, segregation of ballots with different condition can be handled entirely with electronic adjudication, which is not	Cost Most COTS scanners cannot stop on a specific ballot because scanned images are sent to a workstation and image analysis is only performed after the physical scanning is completed for a ballot. Meeting this requirement would require real-time processing and effectively disallow the COTS

	allowed by this requirement as written.	scanners used by at least three vendors.
1.1.7-H Scan to manufacturer specifications	It is unclear what advantage is provided by publishing this information. There are already requirements for the kinds of marks a voting system must count and not count, and sufficient accuracy requirements to ensure a voting system is performing correctly. Additionally, mark detection is a core technology of a voting system and the specifics are both proprietary and are trade secrets.	
1.1.7-K Accurately detect imperfect marks	This is a poorly drafted requirement. The mark specified here is arbitrary and does not account for real world conditions. This mark is not a mark that would be made by voter but could easily be interpreted as a fold line by a fold line detection algorithm. Also, this potentially conflicts with 1.1.7 “M” and 1.1.7. “N” which require systems to ignore marks that were not made intentionally by voters.	
1.1.7-M Ignore extraneous marks inside voting targets	We agree that this problem should be minimized by the voting system, but the requirement here requires the voting system to eliminate it. That is not possible in all cases. Some extraneous marks caused by things external to the voting system cannot be reliably distinguished from a voter mark by a scanner.	

	In the real world, these risks are mitigated by a combination of specifications (for ballot stock quality, for example), best practices (for fold locations, for example), and human review. The voting system alone cannot identify and ignore such marks with 100 percent accuracy.	
1.1.7-N Ignore hesitation marks	This requirement is vague and needs a definition for "hesitation marks" and "insignificant marks." Who defines what should and should not count as "insignificant"? How would we build to this standard without such a definition?	
1.1.7-P Repeatability	This is highly dependent upon other "environmental" factors, such as marking device, calibration, and possibly other factors. A marginal mark is, by definition, a mark that may fall above or below a mark detection threshold. To detect such a mark, additional thresholds must be used – and thus marks detected near the marginal mark detection thresholds will not be repeatable in all cases. The discussion acknowledges that marks that fall precisely on the mark detection threshold cannot satisfy this criteria, but fails to consider that detect marginal marks also requires sensing thresholds.	
1.1.8-B No voting when polls are closed	Some jurisdictions require the ability to reopen the polls for various reasons, such as	

	scanning absentee ballots in the Election Day polling place. This requirement would not allow that, and would conflict with some state laws and/or rules. We suggest the requirement be reworded as follows: "The voting system must prevent the further enabling, activation, marking, or casting of ballots by any device **while the polls are closed**.	
1.1.8-E Prevent reopening polls	Some states require poll workers to be able to re-open polls so that they can process ballots that could not be process earlier in the day or process absentee ballots. This requirement conflicts with state laws and/or rules.	
1.1.9-A Voting methods when tabulating	Is the implementation statement in VVSG 2.0 a binary yes/no for voting methods, or can the manufacturer declare partial support, for example vote capture only? In our current system, we support vote-capture-only for Ranked Choice Voting because there is no commonly adopted set of rules for tabulating Ranked Choice contests. This allows our customers to hand-tabulate or use a 3rd party tabulation tool that meets their needs (for example, rankedchoicevoting.org's Universal RCV Tabulator). Separate, standalone requirements for tabulating each voting method would	

	disallow our current approach, and discourage the development of interoperable third-party tools.	
1.1.9-E Accept or reject recallable ballots individually	This requirement defines how recallable ballots are implemented and is overly restrictive compared to the intent stated in the discussion. Accepting and rejecting provisional and recallable ballots can be handled in multiple different ways, including the common practice of segregating provisional paper ballots, and only scanning ballots when the decision has been made to accept them. To address the intent stated in the discussion, the requirement should be reworded to state: "The ID assigned to each provisional or recallable ballot must be unique within the current election."	
1.1.9-F Accept or reject recallable ballots by category	This requirement is too vague; it is unclear what this means. What kinds of categories are envisioned? Why would acceptance/rejection by category even be required?	
1.1.9-P Ranked choice voting	See comments for 1.1.9-A	
1.1.10-B Reporting device consolidation	The standard should allow this function to be performed in the central Tabulation System. Our customers do not request and do not want the ability to consolidate results in the polling place.	Consolidating results in the polling place requires either additional hardware (for direct device-to-device communication) and/or breaking seals and removing memory devices in the polling place. This introduces a security risk and the potential for human (poll worker) error, for something that election officials don't want in the first place.

1.1.10-D Ballot and vote counts	1.1.10-D #2 This is ambiguous. Voting system manufacturers will be unable to tell if it is requiring the actual text of the issue from the ballot (which does not belong on results reports) or using text in a generic sense. 1.1.10-D #3 It is unclear why the VVSG would require alphanumeric audit content to appear on reports of vote and ballot counts, nor what kind of audit content is being considered.	
1.1.10-G Discrepancies detectable	What is the definition of "discrepancy"?	
1.1.10-I Precinct reporting devices, no tallies before polls close	The requirement, as written, disallows a jurisdiction from retrieving vote records from a device that has become inoperable during the course of the voting event, but which has votes stored in its memory. Jurisdictions across the country need to be able to retrieve recorded votes from such equipment, and provided that your system has adequate security measures implemented in the first place, there is no reason to disallow this. Hart suggests the requirement be reworded as follows: The voting system must prevent the printing of tabulation reports before the polls close.	
1.1.10-N Report overvotes for each contest	The requirement is fine; however, the discussion requires further work - many jurisdictions do not want to report overvotes this way.	

	If a reader of the reports wants to understand this value – votes lost – it is as simple as multiplying the number of ballots that contained an overvote for this contest by the "N" from "N of M." There is no value in requiring a specific presentation of the data here.	
1.1.10-S Post-election reports in common data format	The requirement needs to include the specific version of the CDF being required. Without a specific version we are building to a moving target, which will increase cost and delay certifications if the CDF specification is updated after feature development but before certification. Additionally, this requirement should be in the Interoperability section and should not be duplicated here.	
1.1.10-T CVR export and import in common data format	This is a redundant requirement; same discussion as 4.1. The requirement needs to include the specific version of the CDF being required. Without a specific version we are building to a moving target, which will increase cost and delay certifications if the CDF specification is updated after feature development but before certification. Additionally, this requirement should be in the Interoperability section and should not be duplicated here.	
1.1.10-U Reports are time stamped	This is a bad requirement because the ISO 8601 is not a	

	good standard for reports intended for consumption by the general public. The standard requires the use of military time (24 hr clock) and year/month/day formatting for dates, both of which are non-intuitive to the general public and will make reports less readable.	
1.2-C – Ballot position distribution	The requirement is difficult to quantify. There is not a "typical volume per device" nor a "typical election" in American elections. Elections and equipment use cases are very diverse across the country. Test labs already test all devices up to their published volume limits. What is the advantage in adding additional tests at a lower "typical" volume?	Cost Additional test and certification scope that does not provide additional value.
1.2-D – Mark quality	The requirement is difficult to quantify, and there is no "expected distribution in a typical election." Hart suggests that the requirement be reworded as follows: *"For devices that read and interpret human-made marks on ballots, the mark quality of the marks must be spread across the manufacturer's published specifications for valid marks and invalid marks* ~~*according to expected distributions in typical elections."*~~	Cost Meeting the requirement, as written, would likely require the development of an advanced toolset to automatically mark ballots with a broad variety of mark styles at various distribution rates.
1.2-E – Assessment of reliability	Please define "continuous operation"; is it by a user, or scripted? An environmental test	

	chamber may not allow for the user to be present at all times.	
1.2-F – Continuous operation – typical environmental conditions	Real world use would operate with pauses and not continuous operation. Continuous operation invites user error due to stress placed on personnel, may this test be paused as long as the entire operational period is completed?	Cost Additional personnel must be hired to complete 24/7 testing.
1.2-G Continuous operation – varied environmental conditions	Does the definition of "voting system" in this requirement include all of the COTS components? These operating conditions are dangerous for some peripherals, for example UPS devices. Additionally, Hart suggests restricting this requirement to only the system components that need to operate under varied environmental conditions. Systems used exclusively in an office do not need to be tested in varied environmental conditions.	
1.2-M Respond gracefully to stress of system limits	This needs more definition. What does "respond gracefully" mean? Does it mean to continue to operate or does it allow for slow-downs, errors, and/or warnings? How far above the system limits must be tested?	
1.2-N Handle realistic volume	Please expand on what "approximating normal use" means. Normal use will vary greatly between systems, will this be defined by the systems documented procedures?	
1.3-A Identifiability of basic and compound system components	This requirement is subjective and unmeasurable.	

	Who defines what a “tester is able to clearly and unambiguously identify”? What is the intent of this requirement?	
1.3-B Comprehensible processes that form system configurations	This requirement is ambiguous. It is unclear if this requires new deliverables in the TDP or if the documentation that was required for VVSG 1.1 and 1.0 is enough. Please advise if this is asking for an advance system configuration diagram.	
1.3-C Observable configurations via plausible observation methods	This requirement is subjective and unmeasurable. How can a system, or documentation set, “ensure a tester is able”? Suggestion The provided documentation of equipment must provide examples of expected behavior or error conditions.	
1.3-D Identifiable resolution limits for observation methods	This requirement is ambiguous and not measurable. Defining observational tools, techniques and strategies is the responsibility of the VSTL not the voting system vendor.	
1.3-E Description of observational noise and consequences for observational methods	This requirement is ambiguous and not measurable. Defining observational tools, techniques and strategies is the responsibility of the VSTL not the voting system vendor.	

1.3-F Explicitly stated performance criteria	The text of the requirement does not match the title. It is too ambiguous and unmeasurable.	
1.3-G Creation and execution of evaluation methods	This requirement is not measurable.	

Principle 2: High Quality Implementation

In general, this Principle requires refinement. Many of the Requirements listed throughout section 2.1 fit the definition of a Principle, as they are untestable as written. Furthermore, other Requirements in this section that are specific are difficult and cost prohibitive to test and demonstrate compliance. One notable example is Requirement 2.1-D Records requiring that they last at least 22 months. There is no question that storage media must be carefully selected during design to ensure that all records must last for at least 22 months, however the requirement text that states "...during an election and for a period of at least 22 months afterward, in temperatures ranging from 5 C to 40 C (41 F to 104 F) and relative humidity from 5% to 85%, non-condensing..." could lead to confusion and the belief that an undefined 22-month voting system hardware test is being prescribed.

A concern echoed by many voting system manufacturers is regarding the EMC test levels prescribed in this and prior VVSG revisions. The test level (intensity) requirements between tests vary and appear to be arbitrarily chosen to be the higher level without regard to the equipment category, application, or environment in which the voting systems will be deployed. This increases cost and time to market while reducing availability of COTS components for integration. For example, Radiated and Conducted Emissions require FCC Class B, the higher test level, when a Class B digital device is defined in *Title 47 CFR § 15.3 - Definitions* as "A digital device that is marketed for use in a residential environment...". The test levels historically selected for Electromagnetic Susceptibility and Magnetic Field Immunity are used for Industrial equipment, in the cases of those tests a more intense test level than commercial. Finally, Electrostatic discharge immunity prescribes the most intense test level, typically reserved for the likes of medical devices.

Where possible, we have included proposed changes to wording or terms to refine the requirement to be more specific, testable, and consistent.

Requirement	Comment	Challenges
2.1-C Acceptable coding conventions	The discussion comments are unclear and open-ended. What conditions and which cases does the EAC or VSTL specify coding conventions?	
2.1-D Records last at least 22 months	Testing guidelines for 22 months and temperature and relative humidity are not defined.	Testability
2.1.1-A General build quality	This is a principle and not a requirement. This is not measurable.	
2.1.1-B High quality products	This is a principle and not a requirement. This is not measurable.	

2.1.1-C High quality parts	This is a principle and not a requirement. This is not measurable.	
2.1.1-D Suitability of COTS components		Supply Chain The environmental condition requirements are restrictive to the point of severely limiting COTS choices to mil-spec grade devices.
2.1.1-E Durability	This is a principle and not a requirement. This is not measurable.	
2.1.2-A Electronic device maintainability	Requirements are too vague and undefined (e.g. "routine maintenance").	
2.1.2-B System maintainability	Requirements are too vague and subjective. For example, how is "easy" measurable; who determines what is easy?	
2.2-A User-centered design process	How is this requirement measured? How is an effective user-centered design process measured? Who defines effective and successful documentation? How is this requirement to be applied to the extension of existing fielded systems submitted for VVSG 2.0?	
2.4-C Module size and identification	Too subjective and undefined.	
2.4-D Lookup tables in separate files	Too ambiguous. What is the definition of “lookup-table?”	

	The requirement should define. Recommendation: A Lookup Table is a set of immutable data in code that doesn't require transformation before usage by objects at runtime.	
2.5.4-M Election integrity monitoring	This is a principle and not a requirement; not measurable and too broad.	
2.6-A Surviving device failure	No criteria associating with the word "following." For example, is a reboot allowed?	
2.6-C Surviving component failure	No criteria associating with the word "following". For example, is a reboot allowed?	
2.7-A Ability to support maintenance and repair physical environment conditions – non-operating	Suggestion *All voting devices must be able …* Note Method reference is out of date and does not align with revision MIL-STD-810H.	
2.7-C Ability to support storage temperatures in physical environment – non-operating	Suggestion *All **polling places devices** must be able…* Note Method reference is out of date and does not align with revision MIL-STD-810H.	
2.7-D Ability to support storage humidity levels in physical environment – non-operating	Suggestion *All **polling places devices** must be able…* Note Method reference is out of date and does not align with revision MIL-STD-810H.	

2.7-E Ability to operate as intended at specified humidity conditions - operating	Suggestion *All **polling places devices** must be able …* Note Method reference is out of date and does not align with revision MIL-STD-810H.	
2.7-F Ability to operate as intended at specified humidity conditions - operating	Suggestion *All **polling places devices** must be able …* Note Method reference is out of date and does not align with revision MIL-STD-810H.	
2.7.1-A Electrical disturbances	Not measurable. Procedure not defined.	
2.7.1-B FCC Part 15 Class A and B conformance	2.7.1-B #2 Please define "non-place."	
2.7.1-D Power port connection to the facility power supply	This requirement is not measurable; procedure is not defined.	
2.7.1-F Outages, sags, and swells	This requirement is not measurable; procedure is not defined.	
2.7.1-G Withstand conducted electrical disturbances	This requirement is not measurable; procedure is not defined.	
2.7.1-H Emissions from other connected equipment	This requirement is not measurable; procedure is not defined.	
2.7.1-I Electrostatic discharge immunity	This requirement is not measurable; procedure is not defined. Discussion from 2.7.1-A is inclusive of ESD.	

2.7.1-J Radiated radio frequency emissions	This requirement is not measurable; procedure is not defined. Appears to be the same as 2.7.1-B-1: 1. *"Voting devices located in polling places must comply with Class B requirements." Class B requirements include both Radiated and Conducted emissions.*	

Principle 3: Transparent

Hart strongly agrees with this Principle, however there is some ambiguity in the regulatory text that must be clarified to avoid implementation challenges. Requirements must be specific and testable to implement with a high level of confidence that they objectively comply with the requirement. For example, the regulatory text of requirement 3.2-H Variable value inspection procedure is brief and vague. “Values” may be interpreted as strings, numerical values, or even file metadata.

Another specific concern is the text of requirement 3.1.4-G Compiling Installation prohibited implies that Just-In-Time (JIT) compilation, utilized by modern runtime environments like Java and .NET, would be prohibited.

Lastly, Requirement 3.1.4-L Open market procurement of COTS software does not account for implementations where the manufacturer is a licensee of the COTS software, allowing for a minimized kiosk installation in support of surface attack reduction in the spirit of requirement 3.1.4-D Election specific software identification. In this implementation, no software or software features are installed that are not specific to the voting system.

Requirement	Comment	Challenges
3.1.1-D Identify software and firmware by origin	What does "in-house" mean? What is the definition of "sub-contractor"?	
3.1.4-D Election specific software identification	This requirement is unclear as to what is being requested; all software installed is specific to the voting system.	
3.1.4-G Compiler installation prohibited	Does this include JIT compilers such as Java and .NET?	
3.1.4-L Open market procurement of COTS software		This does not apply if the system manufacturer is the licensee of the COTS software and there is no open market deployment. All COTS components are imbedded within the packaged product image, and there are no separately installable COTS items.

3.2-H Variable value inspection procedure	This requirement is too ambiguous. What is the definition of "Values"; what are they looking to inspect and how?	

Principle 4: Interoperable

Hart was actively involved in Common Data Format discussions, as early as 2014 when John Wack hosted initial working sessions at NIST. While the concepts of Interoperability and Common Data Formats are both noble approaches, they are very different in their practical implementation and usages. Throughout Principle 4, Interoperability, *voting devices* or *voting system* (which per the glossary includes voting devices) are defined as the primary target voting components utilizing interoperability. Principle 4, requirement 4.1-A best sums up the challenges with all operability requirements using NIST CDFs:

4.1-A – Data export and exchange format: *Voting devices* must include support for the NIST SP Common Data Format (CDF) specifications for data inputs and output:

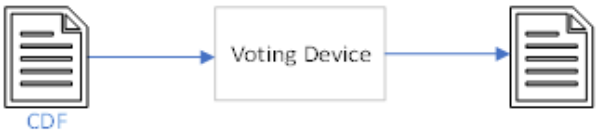
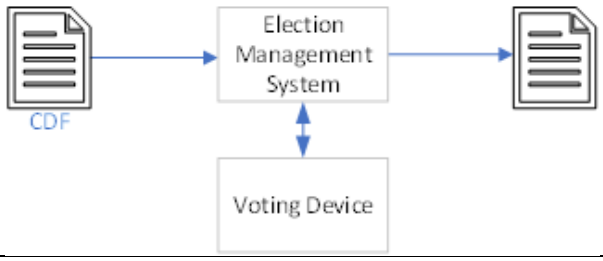
1. Election programming and results reporting data, NIST SP 1500-100

2. Election event logging data, NIST SP 1500-101

3. Cast vote records, NIST SP 1500-102

4. Voter registration-related data, NIST SP 1500-104

The challenges with 4.1-A, and subsequent requirements, <u>is that voting devices are required to support the import or export of the CDFs directly</u>. In CDF meetings chaired by John Wack, the manufacturers were very transparent that this is an unrealistic goal. It was agreed upon, however, that CDF utilization is realistic and possible as routed through the election management system, allowing the common data format to be converted to/from manufacturer device-specific data formats. This is best explained in a diagram:

As written in VVSG 2.0	
As discussed throughout CDF development	

In fact, the sensitivity of direct-device support of CDF was implicitly stated in December 03, 2018 email by Wack, in which he stated "*A note of clarification: the CVR spec deals with what can be put into a CVR and how the data is structured,* ***but the CDF specs do not contain requirements for mandating their use with any particular class of devices*** *nor will we be discussing such requirements on this telecon.* " [emphasis added].

There are practical limitations not considered in the drafting of Interoperability in the VVSG 2.0 specification. These include, but are not limited to:

1. Security
    a. Across manufactures, all voting devices control data input through security validation, be it encrypted data and/or nonrepudiation methods. The EMS and the devices share security keys needed for information exchange, such as election programming data. As the VVSG 2.0 is written, chain of trust to ensure that only trusted election programming data is imported into a device is not considered. Without the involvement of the EMS to bridge the CDF data from an untrusted party to the device, it is not possible, nor should it be allowed, to import data. All imported data into a voting device must be from a trusted source, and the only way to ensure trust is through tight security relationship.
    b. Similarly, all data exported from a device should be validated as trustworthy through encrypted and/or nonrepudiation methods. VVSG Principle 5 does not take this into account for data exported from a voting device. There are provisions into the VVSG 2.0 that account for report signing as exported from the Election Management System but bringing third party ley exchange into the devices is not considered, nor recommended as a safe and viable security practice.
2. Data Encoding via XML. As written CDFs are written as XML documents. Voting devices, by their nature are not inherently provisioned with hardware resources to process XML documents, which can grow very large based on the amount of data being imported or exported. Voting system manufacturers have optimized data imports and exports to/from the voting devices to account for small footprint resource requirements and adding the overhead to support XML documents imported/exported from the devices directly added unneeded and costly overhead. The Election Management System is tailored for this type of document exchange, and it provision to convert CDF formatted data to/from the needs of the devices.
3. One of the CDF requirements as listed is the election programming. It is unrealistic to believe that this in and of itself meet the requirements for voting devices to operate. Election data such as precinct, parties, contests, candidates, etc., as certainly core, and common components of the data required for a voting device to operate, but it is not limited to this, and manufacturer specific data and jurisdictional specific data not found in the CDF is also required. Thus, the EMS cannot be eliminated from voting device programming. Therefore, CDF programming data should be imported into the EMS, combined/merged with device/manufacturers/jurisdiction specific data, and then exported out of the EMS and into the devices through the air-gapped methods.

VVSG 2.0 goals for common data formats is realizable if the expectation first agreed upon between NIST and the manufacturers are met with the specification, that being voting devices to not directly need to support CDF imports and exports, that the Election Management System will be responsible for CDF-to/from-Device specific formats. Without EMS involvement, attainment of this principle as written is not realistically possible.

Unrelated to Common Data Formats, CDFs, but falling within Principle 4, is the requirement for "standard device interfaces," 4.3-A, "Standard, common hardware interfaces and protocols must be used to connect devices." What this *highly prescriptive* requirement fails to consider is manufacturers intentionally use non-standard interfaces and/or protocols as a method of security. Intentional

obfuscation of software or hardware protocols, including ports, is a method of security method to protect known attack vectors, such as USB or ethernet. The VVSG 2.0 should let the market drive the requirement, as purchasing jurisdictions should be the arbiters of security vs. convenience. **As written, this requirement will lessen security of voting systems that utilize obfuscation methods, which is counter to VVSG 2.0 goals**.

Please refer the feedback below that provided details into each of the requirements as documented within the VVSG 2.0.

Requirement	Comment	Challenges
4.1 Voting system data that is imported, exported, or otherwise reported, is in an interoperable format.	Applies to all CDFs. CDFs can be supported through the EMS interface to or from the devices through native conversion. There should be no requirement for "voting devices" to have direct CDF input or output requirements. They should reference which versions of the standard is required. As multiple versions are currently available for some standards.	Testing There are no provisions in the VVSG 2.0 documentation the describes the testing and qualification process of compliant common data formats.
4.1-A Data export and exchange format	Not all voting systems require or have this data, not all CDFs are applicable to every or any component of the system. Specifications should note which CDFs are input into an EMS, and which CDFs output from EMS.	
4.1-B Election programming data input and output	This requirement should call the specific CDF specification being referenced. "election definition processes is not defined" 4.1-B should callout import and export to and from the EMS.	

4.1-C Tabulator report data	"Tabulation process" is undefined, requirement should specify tabulation performed within the EMS. Requirement states import and export, but not all EMS tabulation allow importing of election results. Needs strict definition of import and export requirements.	
4.1-D Exchange of cast vote records (CVRs)	This requirement should call the specific CDF specification being referenced. Requirement states import and export, but not all EMS tabulation and audit allow importing of cast vote records. Needs strict definition of import and export requirements. "Casting tabulation audit processes" should specify as performed within the EMS.	
4.1-E Exchange of voting device election event logs	This requirement should call the specific CDF specification being referenced. Requirement states import and export, but logs should only be imported into a log aggregation system within the EMS, other components of the EMS should not be required to import CDF log data. Needs strict definition of import and export requirements across EMS components. Should not explicitly call out voting devices but rather the exchange of election event logs through the EMS.	

4.2-A Standard formats	This is an open-ended requirement with no measurement criteria. This is not measurable as who determines "where possible".	
4.3-A Standard device interfaces	What constitutes "a device"? What is the definition of "standard, common hardware interface." Who defines “standard” and “common”?	Security Highly prescriptive. This requirement does not allow manufactures flexibility to compete with enhanced interfaces. This requirement conflicts with a core security method of hardware obfuscation. For example, if USB as a standard protocol is used does this requirement mean that the physical port on a voting device must use USB as is defined, or can the port be obfuscated to enhance security? Another example, using one communication protocol over a different physical protocol connection for usability and/or security.
4.4-A COTS devices meet applicable requirements	As written the requirement should call out the specific VVSG requirements. Who determines what is applicable? Suggestion Reword the requirement: *“Devices are allowed in a system as long as the system as a whole meets VVSG requirements.”*	

Principle 5: Equivalent and Consistent Voter Access

Hart agrees with intent of the requirements included in Principle 5. However, we have concerns about how the Requirements are currently written.

First, it is unclear (here and in other principles) whether VVSG 2.0 requires full accessibility features on every voting device in the system, or if the accessibility requirements can be satisfied by providing accessible features that cover every function (voting, reviewing, casting, etc.) on at least one voting device in each polling place.

For example, can all-in-one devices (mark, verify, cast) be used for voters who need accessible features while also deploying hand-marked paper ballots and a scanner (without accessibility features) for voters who do not need those features? We believe the VVSG should focus on what features must be provided without requiring all components to support all features. This allows for more innovation, lower costs, and more choice for election officials.

Second, the scope is unclear or undefined on multiple requirements. Many requirements call out the "voting system" for functionality that has been previously restricted only to voter-facing interfaces (audio functionality, for example). Other requirements do not define a scope at all, implying that they apply to all system components. Each requirement should clearly and unambiguously state which parts of the voting system it applies to.

Requirement	Comment	Challenges
5.1-A Voting methods and interaction modes	1) The requirement is unnecessarily broad and attempts to cover too many areas. Each voting method has unique requirements in this area. For example, vote-by-mail (listed in the discussion) does not support the same capabilities as in-person voting. Recommendation: break up discussion bullets and set them as actual requirements, instead of one umbrella requirement. 2) The use of the term "capabilities" is ambiguous – who defines specifically what functions or features must be included in all interaction modes?	

5.1-B Languages	The requirement is not written to account for unwritten languages; you cannot display an unwritten language visually. It may be desirable to display English on-screen, synchronized with the unwritten language's audio, but that would violate the requirement as written. There is a potential conflict with 5.2-D. Suggestion Remove the word "storing" due to voter privacy concerns. Records should not be stored in the voter's selected language (other than paper records, which is already covered by "printing" in this requirement).	
5.1-C Vote records	The use of "paper records" is somewhat ambiguous here. What else counts as a record besides a paper ballot and paper verification records? Please specify what the definition of "all records" is.	
5.1-D Accessibility features	Does this requirement apply to all voting devices? Can this be met with some devices at each polling place without requiring the full feature set on every voting device in the system?	Usability Accessibility extended to the scanner. Hart's concern is that adding accessibility features to the scanner will raise cost and will cause bottlenecks and throughput problems at the scanner. This goal (accessible casting) can be met in other ways, without requiring accessibility features in all precinct scanners, if the requirement were written to allow it.

5.2-A No bias	The first sentence is too broad and ambiguous to be testable. The requirements should be specific and focus on individual audio, tactile, enhanced visual, and non-manual modes. The discussion lists two such specifics (volume and font size) but it is unclear what else, specifically, is covered by this requirement.	
5.2-B Presenting content in all languages	What is meant by "all information"? This requirement needs to be restricted to voter-facing content. A lot of information intended for poll worker and election official use should not be presented in other languages.	
5.2-C Information in all modes	This is a confusing requirement, regarding the intent of the “discussion” as the referenced information does not match. For example, the number of items in a list is not an instruction, warning, message, notification of undervotes or overvotes, or contest option, which is the scope defined in the requirement. What is the intent of the requirement? What should be included in the scope?	
5.2-D Audio synchronized	Phrasing should be changed to "voting devices" instead of "voting system." This functionality is not needed on EMS components, for example.	

Principle 6: Voter Privacy

As discussed in our introductory comments, Requirements must be unambiguous in order to be effective and measurable. The Requirements contained in this Principle, while not objectionable, are generally written in a way that is ambiguous. This will cause manufacturers to rely on Test Assertions to make sure that systems are designed in a way that meets the Requirements.

Requirement 6.1.D presents an example of this problem: 6.1.D appears to be simple: "Audio during the voting session must be audible only to the voter." However, even this simple statement results in questions about how many decibels is required, and how much distance one should assume between voters.

We recommend re-writing this section in a way that establishes Requirements that can be measured and tested without ambiguity. This feedback applies to the entire section. Requirements detailed below are called out for specific reasons, as well.

Requirement	Comment	Challenges
6.1.D Audio privacy	Not completely measurable. A measurable number of decibels is necessary to measure audio sound. How does one ensure proper distance between voters?	Cost Depending on how this requirement is interpreted, more expensive headphones may be required.
6.2-A Voter Independence	Need clarification on whether all polling place components are required to meet this requirement or whether only those components designated to support accessible features are required to meet this requirement. The discussion mentions items that are outside the scope of a voting system. These should not be included in the VVSG requirements.	

Principle 7: Marked, Verified, and Cast as Intended

The Requirements in this section seem to be intended to mandate the use of certain best practices and usability requirements. While these best practices can be incorporated into voting systems where possible, there are some instances in which doing so will sacrifice other areas of usability, conflict with other voting system requirements or election needs, and/or substantially increase cost.

One example of this is 7.3-B, which states that, "The voting system must have the capability to display a ballot so that no contest is split into two groups of options." The Requirement continues to mandate that paper ballots must include a way of presenting the contest so that the options are not divided across two columns or pages. While this is certainly an example of a good best practice, there are some situations in which this is simply not possible. In some election contests, there may be up to 200-300 options or candidates, and the voting system must have a way to accommodate those types of situations.

An example of a Requirement that would increase cost substantially is 7.2-N, which mandates system response times that are significantly faster than those that are required by earlier versions of the VVSG. While these faster response times might technically be possible to achieve, they may require more expensive hardware to support those response time without much benefit from a usability perspective, and also present challenges for existing system upgrades due to hardware requirements.

Other comments include areas where there were redundant and/or misplaced Requirements or Requirements that we found to be ambiguous or difficult to measure.

Requirement	Comment	Challenges
7.1-E Color conventions	This requirement is overly restrictive. Although they are good "best practices", they are not hard and fast rules; and therefore, should not be required. These conflict with some requirements given for high and low contrast, and conflict with some general standards, such as using black text for presenting general information.	
7.1-G Text size (electronic display)	This requirement is too ambiguous. We suggest that the points system be removed and replaced by mm measurements.	This will drive a larger display size and have cost implications; the current requirement for large text was 6.3 mm and now 8.5 mm.
7.1-I Text size (paper)	Requirement is unclear.	

	Does this requirement say that the system must support font sizes that are equal to or greater than 10 points, or that the system must ONLY support font sizes that are equal to or greater than 10pt?	
7.1-K Audio settings	7.1-K #4 Should the requirement read "at least 6 discrete steps" here? As written, this disallows having more than 8 steps or having a continuous rate control but does not provide a reason for restricting a voter's level of granularity for speech rate. 7.1-K #5 The requirement should be 50 to 200% of the default rate. There is no way to enforce a specific WPM rate if a system uses human recorded audio.	
7.1-M Audio comprehension	This requirement is unmeasurable and ambiguous. It mandates functionality based on voter abilities that are not quantifiable, rather than mandating specific standards for the system.	
7.1-P Identifying controls	This requirement needs to be limited to voter interfaces only and should include an exception for the shape and color requirement for commonly used hardware such as keyboards.	
7.2-A Display and interaction options	7.2-A #1 Can you please define "enhanced visual options"?	
7.2-C Voter control	7.2-C #5 This requirement is too ambiguous and may disallow ballot rotation.	

7.2-D Scrolling	All requirements under D (except bullet #4) are ambiguous and/or redundant and do not directly apply to scrolling or pagination. Suggestion Bullets should not be used to list requirements; please use letters/numbers for easier referencing.	
7.2-H Accidental activation	As written, this requirement is ambiguous and unmeasurable. Suggestion Mechanically operated controls or keys, or any other hardware interface on the ACC-VS available to the voter shall be tactilely discernible without activating those controls or keys.	
7.2-N System response time		This requirement could drive more expensive hardware, because of the .1 second response time. VVSG 1.1 required .5 seconds which was responsive enough to provide a good voting experience.
7.2-O Inactivity alerts	7.2-0 #1 This requirement appears to be mixing documentation and logging requirements; additional clarification is needed.	7.2-0 #4 We believe this functionality could negatively impact some voters with severe disabilities.
7.2-P Floor space	This requirement is out of place and does not belong in this principle. This does not support side approach systems. VVSG 1.1 explicitly allowed for forward approach and side approach and did not define which dimension was depth.	Innovation/Cost Eliminating support for side approach ballot boxes would result in costly redesign. Side approach ballot boxes allow for ballots to be dropped straight down, rather than mechanically conveying the ballot to the rear or sides of the scanning device.

	Does this apply to all voting stations on just accessible voting stations?	
7.2-Q Physical dimensions	This eliminates a need for "P"; this is a redundant requirement. "Q" is more prescriptive.	
7.2-R Control labels visible	This requirement is out of place and does not belong in this principle. How do you define where voters can see labels for controls? This is hard to measure.	Innovation/Usability This is an overly restrictive requirement; does not allow for the many other ways voters can discover controls, not all controls need to be visible when a voter first approaches the system.
7.3-A System related errors	This requirement is not quantifiable. How does one determine whether the features of the voting system lead a voter to make errors? There should be more specificity.	
7.3-B No split contests	7.3-B #1 This is not possible in all scenarios, both in real life and in a test lab. Suggestion The voting system must have the capability to display a contest within a single ballot column if the contest can fit within a single column. The voting system must have the capability to display a contest within a single ballot page if the contest can fit within a single ballot page.	
7.3-C Contest information	How do you measure "clearly indicate" in this requirement? 7.3-C #3, #5	

	Seem to disallow presenting this information in non-audio formats. 7.3-C #6 Specifies a location for this information; the location is overly restrictive and does not match current information design best practices.	
7.3-D Consistent relationship	This requirement is overly broad; VVSG needs to callout specific usability problems to be addressed, and specific mechanisms. Different types of contests require different methods of marking and that appears to be disallowed by this requirement. For example, selecting a rank in an RCV contest on an electronic ballot is best done by selecting a number, but this is not consistent with the way you would mark a vote-for-1 contest.	
7.3-E Feedback	This requirement is not measurable.	
7.3-G Full ballot selections review	This requirement conflicts with other requirements in VVSG that appear to mandate review functionality on a scanner. Is this functionality optional or required?	
7.3-H Overvotes	The requirement discussion requires more than the requirement itself. Accessibility for notifications and warnings should be moved into the requirement itself. If voters with disabilities have access to an all-in-one voting	Adding accessible features to the scanner adds cost and could introduce bottlenecks in the polling place, as the scanners will become a chokepoint.

	device, are accessibility features still required on the paper ballot scanner?	
7.3-I Undervotes	Is a configuration in which poll worker approval is required to submit a ballot with undervotes allowed under VVSG 2.0?	
7.3-K Warnings, alerts, and instructions	This requirement is over specified. In cases of system malfunction the voter is not expected to correct the situation and should not be presented with information on the nature of the problem. The voter simply needs to know to notify a poll worker; the poll worker should be presented with information to resolve the problem.	Cost/Usability If all system malfunction messages must be transmitted into all voter languages, despite voters not needing to troubleshoot, translation and recording costs will go up significantly.
7.3-M Identifying languages	7.3-M #2 needs clarification, as there are multiple ways this requirement could be interpreted.	
7.3-N Instructions for voters	Phrasing of this requirement conflicts with the discussion - "must provide voters with instructions for all its operations at any time", seems to disallow contest sensitive help and conflict with sub-requirement #3.	
7.3-O Instructions for election workers	This requirement is not measurable.	
7.3-P Plain language	Troubleshooting a technical issue often requires language that is precise but not plain; there needs to be exceptions for these kinds of situations.	

Principle 8: Robust, Safe, Usable, and Accessible

There are many instances where the regulatory standards referenced throughout this Principle are not specifically defined. For example, the specification ANSI C63.19 referenced in 8.1-J has no specification revision, where the specification typically references a publication date. In another instance the standard is out-of-date and will not be testable when the VVSG 2.0 is released. Specifically, the **safety testing standard referenced in 8.1-K will be obsolete on December 20th, 2020 and no longer acceptable for new certifications for safety compliance in the United States.** These references must be clarified and corrected for manufacturers to target specific requirements during development to prevent ambiguity.

The use of undefined terms is common throughout this Principle. Clear and defined terms are needed to fully understand and appreciate scope and requirement applicability. For example, 8/1-G references "a telephone style handset" in the title, but additionally references "headphone" in the regulatory text? Is a "telephone style headphone" defined by the existence of a t-coil and an RJ-11 style connection to a telephone device, or does this imply that all headsets are to include t-coils?

Lastly, section 8.2-A Federal standards for accessibility is ambiguous in its applicability. Do voting systems meet these requirements with WCAG 2.0 level AA compliance in their accessible devices? Do these requirements extent to the EMS? COTS device interfaces?

Requirement	Comment	Challenges
8.1-F Discernable audio jacks	Measurable ability is a little doubtful.	
8.1-G Telephone style handset	The telephone style headphone is ambiguous; is it made to include standard audio headsets?	Are there headphones with a t-coil?
8.1-H Sanitized headphones	This is an operational requirement and not a system requirement. Suggestion The system must be able to accommodate the use of throw away headphones or sanitary coverings, or other means of sanitizing headphones.	There is no way to meet this the way it is written.
8.1-I Standard PAT jacks	The way this requirement is written it includes everything. Please define "voting station device."	

	8.1-I #2 What is being said here? What does “functionally equivalent” mean? We need clear definitions for the terms that are used throughout, e.g. “voting station device.”	
8.1-J Hearing aids	They should reference a specific version of the ANSI C63.19 standard.	Ambiguous
8.1-K Eliminating hazards	This standard is obsolete, they should reference IEC/UL 62368-1.	Devices will no longer be able to complete new certifications to the UL 60950-1 standard after December 20th.
8.2-A Federal standards for accessibility	The way this requirement is written it could apply to the EMS. We need more definition on what exactly this applies to.	
8.3-A Usability tests with voters	The referenced text is not an established standard with no version or date; needing to clarify if the referenced document is the correct one.	
8.4-A Usability tests with election workers	The referenced text is not an established standard with no version or date; needing to clarify if the referenced document is the correct one.	

Principle 9: Auditable

Principle 9, Auditable, calls attention to Software Independence, but applies the principle only sporadically. For example, the Requirements hold electronic devices, or DREs, to the strict letter of the Principle, but they appear to leave the practice of placing voter selections in bar codes completely exempt. Per the definition, voter selections encoded in barcodes is not software independent, and in fact voter no opportunity to validate the encoded selections versus their human readable selected options; there are two sources of truth, and therefore which one is to be believed. For Principle 9 to have a meaningful impact on the security of elections, **it must be applied across an entire voting system**.

Also, within Principle 9, End to End Cryptography is recognized as a means to provide software independence. However, the specification imparts undue hardship in bringing End to End Cryptography into an election system with requirements such as multi-year public availability prior to adoption, and new public approval processes to be established by the EAC.

Finally, this Principle includes multiple areas where conflicts are present. One example is requiring both paper records and tamper evidence, when hand-marked paper ballots cannot provide tamper evidence. Another is a requirement is requiring electronic receipts from voting systems, even though voting systems are not allowed to be connected to networks. There are also requirements that potentially conflict with State Laws and Regulations, such as the requirement for unique identifiers on ballots.

Detailed comments are below:

Requirement	Comment	Challenges
9.1.1-A Software independent	As written this requirement is not concise, and ambiguous in that it provides DRE as an example as non-software independence; yet, does not callout voter selections in barcodes as not being software independent. The example provided, selectively chooses a voting type to exclude while ignoring others with the exact limitation. In summary, who defines a voting method's level of software independence?	
9.1.1-B Paper-based or cryptographic E2E system	What "section" or specific requirements?	

	Paper based architectures do not necessarily define software independence when for example voter's selections are encoded in barcodes, which can't be independently voter verified.	
9.1.2-A Tamper evident records	This requirement needs to distinguish between paper based and electronic records or allow for both. Traditional paper ballots are not tamper-evident; does this requirement exclude traditional paper ballots?	
9.1.3-A Records for voter verification	This requirement is only applicable to precinct-based voting systems. Requirement seems to require a summary screen on precinct scanning devices which introduces both throughput and privacy concerns in a polling place. This is another example that voter selections in barcodes are not voter verifiable.	
9.1.4-A Auditor verification	This requirement is too vague, who decides what these records are? It is not measurable.	
9.1.4-B Auditable with compromised software, firmware, or hardware	The production of tamper evident records DOES NOT protect against this scenario. How do you meaningfully audit with tampered records? How do you test this? A compromised system can be detected, but once compromised auditability is untrustworthy.	How do you measure or test this requirement?

9.1.4-C Documented procedure	This requirement is too vague. Please clarify; if the intent is for vendors to recommend audit procedures in documentation, it should be stated as such in the Requirement.	
9.1.5-A Paper record production	This is ambiguous, who is responsible for independent verification? Is this targeted at the voter or election official? A voter for example, cannot independently verify voter's selection encoded in barcodes.	
9.1.5-C Paper record intelligibility	How are voter selections in barcodes meeting this requirement? Even if the barcode is publicly specified (different requirements in VVSG), a voter can't "map" a selection code to written text without some type of code to ballot legend. This is another example of conflict of software independence with voter selections in barcodes.	
9.1.5-E Paper record transparency and interoperability	There is no such thing as an interoperable format for paper records in elections. Mandating paper record interoperability is overreach. Ambiguous as the requirement should define the specific format to be applied. This discussion is misplaced and should be placed in Principle 4 Interoperability.	
9.1.5-F Unique identifier	Illegal in some jurisdictions.	

	Suggestion: The system must be capable of including a unique identifier on the paper ballot.	
9.1.5-G Preserving software independence	Suggestion: After a voter REVIEWS their ballot, the voting system must not physically be able to print in the area where the voter's ballot selections reside.	
9.1.6-A Cryptographic E2E transparency	The requirement requires using a process for review that is undefined. What constitutes an open review? What constitutes the requirements to fulfill an open review other than time?	This Requirement, by mandating a two-year process for approval, will have a negative impact on time for manufacturers to develop and market VVSG 2.0-compliant systems.
9.1.6-B Verified Cryptographic Protocol	This mandates the EAC to establish and implement a public process that does not currently exist and will delay the implementation of these standards. That process is currently undefined and which does not address the questions of who is responsible for setting criteria or for the evaluation.	
9.1.6-C Public availability of E2E cryptographic protocol implementation	This requirement is in conflict with established "defense in depth" principles. Additionally, any E2E implementation is likely to be interwoven with the software itself and hard to separate for public review.	
9.1.6-F Ballot receipt	There is no such thing as an interoperable format for this. Mandating receipt is overreach, and it is not clear how a system that is not allowed to be connected to a network can provide an electronic receipt.	

9.1.7-A Number of ballots to check		Scope This should not be the responsibility of the voting system manufacturer. This is a policy decision that should be made by the jurisdiction using the voting system. The voting system should be flexible enough to support audits but should not be involved in defining audits.
9.1.7-B No fixed margin of error		Scope This should not be the responsibility of the voting system manufacturer. This is a policy decision that should be made by the jurisdiction using the voting system. The voting system should be flexible enough to support audits but should not be involved in defining audits.
9.1.7-C Random number usage	This requirement is misplaced and should be placed under a more appropriate section such as Principle 2.	
9.2-A Compliance audit procedures	This requirement is ambiguous. Documentation must describe the functionality needed to support a compliance audit. The voting system should not define audit procedures. These should be defined by the jurisdictions conducting the audits.	
9.2-B General post-election audit procedures	This requirement is ambiguous. Documentation must describe the functionality needed to support a post-election audit.	

	The voting system should not define audit procedures. These should be defined by the jurisdictions conducting the audits.	
9.2-D Reporting intermediate results	Requirement is incomplete as "intermediate results" is not defined.	
9.2-E Reporting unusual audit events	The voting system should not be responsible for evaluating the success or failure of an audit. This should be the responsibility of the jurisdiction conducting the audit.	
9.2-F Reporting format	Needs to clarify what is being documented by whom.	
9.3-A Data protection requirements for audit records	Please refer to 13.1 and 13.2.	
All of 9.4 should be combined with the previous section to avoid redundancy.		
9.4-A Efficient compliance audit	There is no quantifiable way to measure what is and what is not efficient.	
9.4-B Efficient risk-limiting audit	There is no quantifiable way to measure what is and what is not efficient.	
9.4-C Unique ballot identifiers	Please see our responses from “unique identifiers.”	
9.4-D Multipage ballots	What is "appropriately manage," how do you quantify it?	

Principle 10: Ballot Secrecy

Principle 10 covers ballot secrecy and attempts to provide Requirements that protect the secrecy of voters' ballots. We wholeheartedly agree with the intent of this Principle, but several of the Requirements introduce uncertainly because they can be interpreted in multiple different areas, address features that are traditionally outside the scope of a voting system, or leave open to interpretation whether other requirements in different Principles are mandatory or optional.

For example, Requirement 10.2.1-B – Indirect voter associations, states that, "Only paperless systems may use indirect associations; other systems must not." However, the discussion in Requirement 9.1.1-A – Software independent, states, "One example of a software dependent voting system is the DRE, which is now non-conformant to this version of the VVSG."

Additionally, there are cases in which requirements are written in a way that is overly restrictive, which could lead to unnecessary implications to cost or development timelines. One example of this is 10.2.1.E – Isolated storage location, which states that, "Ballots that are not cast and contain an indirect association must be stored in separate storage locations from cast ballots." While the intent of this requirement may be that ballots still under consideration can't be inadvertently included in results, it does not leave manufacturers options for how this is addressed. Rather, it unnecessarily mandates a certain type of design and architecture.

Specific comments related to this section are below:

Requirement	Comment	Challenges
10.1-A System use of voter information	While we do not object to this requirement the exceptions are outside of the voting system in VVSG.	
10.2.1-B Indirect voter associations	It is unclear whether this requirement applies to all voting systems regardless of whether they employ E2E voting system architectures or not. This requirement would disallow the use of paper ballots for provisional voters or retrievable ballots, leaving paper-based systems non-compliant with either VVSG or HAVA.	
10.2.1-C Use of indirect voter associations	This requirement could be interpreted so that direct associations are not allowed in this situation or it could be interpreted so that indirect	

	associations may only be used in situations when the voter needs to fill out a ballot before their eligibility has been determined. Suggestion The requirement to strip associations before casting should be its own requirement and not just be discussed within the discussions.	
10.2.1-D Election worker selection of indirect associations	This requirement does not consider recallable ballots. For recallable ballots all early voting ballots must be marked with an indirect association. Requiring the election worker to select the option each time would introduce usability problems and human error.	
10.2.1-E Isolated storage location	This requirement is overly restrictive and mandates the design.	
10.2.1-F Confidentiality for indirect association	This requirement is overly restrictive it reduces auditability.	
10.2.2-D Non-memorable identifiers and associations	This requirement is not measurable, it does not protect against the threat it is trying to mitigate. Small portable cameras are abundant, and the voter will not necessarily need to use their memory. This also makes unique identifiers less usable for election officials.	
10.2.2-E Aggregating and ordering	What is the definition of “voter specific information”? Does this include unique write-ins entered by a voter? Situations where only one voter voted in the precinct? or just "information identifying a voter" as used in previous requirements?	

10.2.2-F Random number generation	Using “guidance from” is ambiguous and open to interpretation. Suggestion This requirement is misplaced, and Principle 2 is more appropriate.	
10.2.3-A Least privilege access to store	Memory location cannot be subject to the principle of least privilege; however, a system can protect access to the memory location. This requirement should be re-written from a system perspective.	
10.2.3-B Limited access	This requirement is unmeasurable.	
10.2.3-C Authorized access	This requirement reduces auditability and transparency. Assumes a specific system design and cannot be applied to removable media without embedding software on the removable media.	
10.2.3-D Digital voter record access log	This requirement is unnecessary.	Cannot be applied to removable media without embedding software on the removable media.
10.2.4-C Logging of ballot selections	The discussion seems to be concerned with releasing non-public data to the public; however, after tabulation aggregated ballot selections are public data.	
10.2.4-D Activation device records	Please define what an "activation device" is. Does this mean voting session start and end cannot be logged?	

Principle 11: Access Control

Hart fully agrees with the principle of strong access control and the general requirement to adhere to best practices, such as *ANSI INCIS 359-2004, American National Standard for Information Technology - Role Based Access Control*. Unfortunately, many of the requirements in this section are overly prescriptive. These requirements try to define a specific implementation which hinders innovation and flexibility. Often, this flexibility allows a single voting system to meet the disparate needs of multiple jurisdictions with conflicting use procedures dictated by local statute.

For example, the voter role, as mentioned in 11.2.2-B, should not exist. The voter is not a credentialed user to which the role can be assigned. Other required roles may hold more permissions than a jurisdiction wants for that role, violating the security principle of least privileges. Lastly, some operations exist in multiple stages and cannot be truly controlled by RBAC permissions, such as powering on or off (button pressed, or plug pulled).

VVSG 2.0 is better served requiring adherence to RBAC and other access control best practices without prescribing implementation details. This approach will allow the industry to innovate and meet customer needs while maintaining a strong security posture.

(In general section 11.2 is highly prescriptive and leaves little room for innovation.)

Requirement	Comment	Challenges
11.2.1-C Access control by voting stage	This requirement is overly prescriptive and assumes that all systems and all jurisdictions are organized in the same manner.	This requirement hinders flexibility in meeting the needs of each jurisdiction. It assumes certain separations that may be inappropriate for the circumstance. To a specific requirement, "powering off" there is no way to effectively control that through RBAC considering hard shutdowns (pulling the plug).
11.2.2-B Minimum groups or roles	The voter is not a credentialed user. This requirement is overly prescriptive and assumes that all systems and all jurisdictions are organized in the same manner.	This requirement hinders flexibility in meeting the needs of each jurisdiction. It assumes certain separations that may be inappropriate for the circumstance.
11.2.2-C Minimum group or role permissions	The voter is not a credentialed user.	This requirement hinders flexibility in meeting the needs of each jurisdiction. It assumes certain separations that may be

	This requirement is overly prescriptive and assumes that all systems and all jurisdictions are organized in the same manner.	inappropriate for the circumstance.
11.3.1-B Multi-factor authentication for critical operations	Requirement states "deleting or modifying the audit-trail". The audit-trail is required to be immutable and not deleted or modified on command.	Cost It will increase cost to the system to add multi-factor authorization to voting devices.
11.5-A Access time period	The requirement and the discussion do not match.	

Principle 12: Physical Security

Physical security is paramount, however the implementations described in this Principle are highly prescriptive and introduce new requirements that add significant cost and maintainability challenges. For example, UL 437 compliant locks are not widely available in a form factor suitable for incorporation into a voting device, and those that are available are at a significant cost premium. The design needed to support the alarm capability requirements described in section 12.1 quickly snowball into a Rube Goldberg solution that increases cost and complexity, which then serve to drive up failure rates, false alarms mitigations, maintainability, and safety concerns, given the addition of batteries that would be needed the support the requirements of 12.1-I. Tamper seals, locks, and tape, when properly vetted for the material, application, and judiciously applied, are a proven solution in the voting industry.

There are many instances throughout the Principal regulatory text that specify "Voting System" when the discussion that follows indicates the applicability to apply to the "Voting Device," for example in 12-1-D, 12.2-B, and 12.2-C. Hart suggests a change to "Voting Device" in these instances, to exclude applicability to the EMS, which is not used by voters or poll workers, and is found in a controlled and secure environment.

Requirement	Comment	Challenges
12.1-B Unauthorized physical access alarm		Cost Adding alarm capabilities to restricted device components will add cost to the voting devices as sensors will need to be added.
12.1-C Disconnecting a physical device		Cost Adding alarm capabilities will add cost to the voting devices as sensors will need to be added.
12.1-D Logging of physical connections and disconnections	How does the voting device connect to the voting system? Does this requirement apply to the EMS workstations in addition to the voting device?	Cost Adding alarm capabilities will add cost to the voting devices as sensors will need to be added.
12.1-E Logging door cover and panel status	Does this requirement apply to the EMS workstations in addition to the voting device? For example, the COTS workstations used in the EMS as part of the voting system do not	Adding alarm capabilities will add cost to the voting devices as sensors will need to be added.

	typically include door covers and panel status.	
12.1-G Secure physical locks	12.1-G #2 There is no definition of "physical indication" or a number of "attempts".	Cost UL 437 locks will significantly add costs to the system. As to the second sub-requirement, there may be no solution to meet this requirement, as a lock cannot track a picking attempt for example.
12.1-H Secure locking system key	Does this requirement apply to the EMS workstations in addition to the voting device? For example, the COTS workstations used in the EMS as part of the voting system do not typically have locking systems.	
12.1-I Backup power for power-reliant countermeasures	Requirement is not clear on which alarms must have back-up power. Also, alarms could potentially be triggered when the voting device is powered off and no logging is available.	Cost/Maintainability Adding back-up power increases requirements for batteries in the system which will increase cost and ongoing maintenance requirements.
12.1-H Secure locking system key	Does this requirement apply to the EMS workstations in addition to the voting device? For example, the COTS workstations used in the EMS as part of the voting system do not typically have locking systems.	Regulatory As currently defined, the EAC would potentially have to approve a new keying scheme with each change, as it would be a part number change against the certified system.
12.1-I Backup power for power-reliant countermeasures	Requirement is not clear on which alarms must have back-up power. Also, alarms could potentially be triggered when the voting device is powered off and no logging is available.	Cost/Maintainability Adding back-up power increases requirements for batteries in the system which will increase cost and ongoing maintenance requirements.
12.2-B Physical port auto-disable	Is this requirement referring to the "voting system" or "voting device"?	Usability

		Puts an undue burden on poll-worker when resolving the issue.
12.2-C Physical port restriction	Is this requirement referring to the “voting system” or “voting device”?	
12.2-E Logging enabled and disabled ports	Discussion reference error: Are you referring to 12.2-D? There is no 12.2-F to reference. "-whereas 12.2-F discusses logical disabling of ports."	

Principle 13: Data Protection

Requirement	Comment	Challenges
13.2-C Cryptographic verification of electronic voting records	Suggestion Please remove the words “be able to”: *“The EMS must cryptographically verify all electronic voting records.”*	

Principle 14: System Integrity

Hart fully supports the stated intent of Principle 14, *ensuring that the voting system provides redundancy against security failures, limits its attack surface, maintains and verifies the integrity of all critical components, and authorizes all software updates before they are installed*. Unfortunately, this section contains a significant number of ambiguous, untestable, or contradictory requirements. As mentioned in the opening section, good requirements are paramount to reducing both the time and cost associated with creating a compliant voting system that meets industry needs.

Also, logging boot validation failures is not always feasible. Any voting system that integrity checks the BIOS and firmware immediately upon power up will not have logging capabilities available. Attempting to log after that would require logging from a known, compromised system. Those logs are suspect and cannot be relied upon.

Requirement	Comment	Challenges
14.2-D Network status indicator		EAC should consider State requirements for wireless transmission of preliminary results.
14.2-E Wireless network status indicator	This requirement conflicts with 14.2-D.	
14.2-I Unused code	How is this requirement testable?	
14.2-J Exploit mitigation technologies within platform	What is the definition of "underlying platform"? For discussion, it is understood that most high-level operating system utilize exploit mitigation; however, what if the underlying platform incorporates microcontroller technology that does not include such support?	Microcontroller technology support and the lack of operating system functionality. For example, an embedded task loop within an MCU.
14.2-L Importing software libraries	How is this testable? Who determines what is practical?	
14.2-N Known vulnerabilities	What constitutes a "well-known" vulnerability?	

14.2-O List of known vulnerabilities	1) In conflict with 14.2-N. 2) What is the process for the certification authority to determine a "well-known vulnerability" is allowed?	
14.3-B Criticality analysis	A lot of additional process with no new benefit defined. Stated goal already addressed by 14.1-A Risk assessment documentation and 14.3-A - Supply chain risk management strategy	
14.3.1-C Logging of verification failure	Requirement does not account for validation prior to logging capability. For example, hardware-based validation of boot components.	If the system boot fails validation, then the system is technically compromised. As a compromised system, how can any new log entry be trusted?

Principle 15: Detection and Monitoring

Hart strongly agrees with the need for strong, robust malware protection. However, these requirements are written with the expectation that malware protection is black-list centric (signature definitions or heuristic rules). That is to say, the malware must first detect a threat before it can respond. Because of this perspective, VVSG 2.0 also requires malware protection features to allow for regular updates and basic management in order to handle new threats. Hart recommends malware protection requirements be written such that update, detection, remediation, and logging requirements only apply to malware protection relying on signature definitions or heuristic rules. Many of these requirements are inappropriate for a default-deny, signature-based, whitelisting system. Any ability to change the configuration can only weaken the voting system's security posture.

Similarly, there are networking related requirements that are potentially inappropriate for the voting system, namely mandating firewall settings be configurable. If the firewall is already configured to block all unnecessary ports and protocols for the voting system, there is no need for further configuration. Exposing that capability would weaken the security of the system instead.

Lastly, logging all integrity checks is not feasible. As mentioned in Principle 14, logging capability is not always available when an integrity check is made. And, any associated log will quickly become bloated for whitelisting applications that validate an executable every time it is loaded for execution.

Requirement	Comment	Challenges
15.2-C Logging errors	Per IEEE best practice the word "all" should not be used to define the bounds of the requirement.	
15.3.1-A Malware protection mechanisms	Requirement should define which COTS components must deploy malware protection mechanisms. For example, is this requirement targeting EMS COTS workstations, or is it also targeting connected COTS devices such as printers?	
15.3.1-B Updatable malware protection mechanisms	Requirement contradicts 15.3.1-A. This requirement mandates the ability to update on vote capture and tabulation without a requirement that malware protection be on vote capture and tabulation.	

15.3.1-D Notification of malware detection	Requirement should define which COTS components must deploy malware protection mechanisms. For example, is this requirement targeting EMS COTS workstations, or is it also targeting connected COTS devices such as printers?	In a default-deny configuration, whitelisting does not distinguish between malware and benign, unauthorized executables.
15.3.1-F Notification of malware remediation	Requirement should define which COTS components must deploy malware protection mechanisms. For example, is this requirement targeting EMS COTS workstations, or is it also targeting connected COTS devices such as printers?	
15.4-B Secure configuration documentation	What constitutes "relevant"?	
15.4-D Firewall and IDS		Why is this "may" instead of "must"?

June 22, 2020

U.S. Election Assistance Commission (EAC)
1335 East West Highway, Suite 4300
Silver Spring, MD 20910

Commissioner Benjamin W. Hovland, Chairman
Commissioner Donald L. Palmer, Vice Chair
Commissioner Christy McCormick
Commissioner Thomas Hicks

Re: VVSG 2.0 Requirements comments

Dear Commissioners Hovland, Palmer, McCormick, and Hicks:

The proposed update to the federal Voluntary Voting System Guidelines ("VVSG") represents one of the most important steps forward to ensure that our national elections are secure, transparent, and accessible. Across the country, state and county election offices rely on the standards established in the VVSG to protect their elections and to set their own requirements for the certification and testing of election systems and devices. And so too then, the American voters themselves, whether they have ever heard of the VVSG or not, rely on the federal standard to improve their voting experience and safeguard their casted ballot.

Voting system manufacturers like Hart InterCivic ("Hart") have a vital role to play in the process to update and implement the VVSG. As the companies that design and manufacture the devices that must adhere to the standard, we are poised to provide detailed, critical feedback on the real impacts of the proposed 2.0 Requirements based on our decades of direct experience working within the VVSG.

As our staff reviewed the proposed VVSG 2.0 Requirements, our goal was to apply a rigorous evaluation to both the strict language and the intended impact of each individual Requirement. Our review was conducted according to the guiding principles and best practices as defined by the IEEE Computer Society Standard 830-1998.

In our comments that follow, we hope to call your attention to specific Requirements that either lack enough detail to instruct manufacturers how to comply, appear to contradict other Requirements, or may create unintended negative consequences for election officials and voters. As currently drafted, several of the 2.0 Requirements fall short of providing manufacturers a clear map to compliance. We understand that some ambiguity should be eliminated through the eventual release of the accompanying Test Assertions, but in the absence of a draft document detailing those Test Assertions, we have only the language of the Requirements on which to base our public comments.

And while there is universal agreement across the elections community that the updated VVSG must be adopted sooner rather than later, pushing forward a standard with unclear and untestable Requirements will not eliminate a further delay, it will only push it to a later phase of the process. Our hope is that our comments will help you address insufficient language in the Requirements right now, rather than require additional time and effort through an RFI process later.

As the Commission establishes its process to review and act on the submitted public comments, we strongly encourage you to:

- Continue your efforts to tap the collective knowledge and experience of the voting system manufacturers and VSTLs, including after the public comment period concludes.
- Reinstitute your plan to build and apply a thorough cost impact study of VVSG 2.0, allowing election officials to understand and evaluate how the updated Requirements and eventual Test Assertions in the standard will impact their budgets.
- Bring in additional experts from NIST, or other appropriate federal scientific standards agencies, with direct knowledge of the IEEE standards who can provide unbiased feedback on the maturity and readiness of the Requirements.
- Continue to explore ways to bring election-related devices beyond only voting machines and tabulations systems – such as voter registration systems, epollbooks, and election night results reporting systems – under the guiding principles and standards of the VVSG.

We hope our comments will help guide your essential work to build a set of Requirements that will allow manufacturers like Hart to continue to build innovative and secure voting systems.

Best Regards,

Jim Canter
Chief Technology Officer
Hart InterCivic
Austin, Texas

Contents

Principle 1: High Quality Design 3
Principle 2: High Quality Implementation 26
Principle 3: Transparent 31
Principle 4: Interoperable 33
Principle 5: Equivalent and Consistent Voter Access 38
Principle 6: Voter Privacy 41
Principle 7: Marked, Verified, and Cast as Intended 42
Principle 8: Robust, Safe, Usable, and Accessible 48
Principle 9: Auditable 50
Principle 10: Ballot Secrecy 56
Principle 11: Access Control 59
Principle 12: Physical Security 61
Principle 13: Data Protection 64
Principle 14: System Integrity 65
Principle 15: Detection and Monitoring 67

A Note About Good Requirements

A primary objective in the review of the VVSG 2.0 Requirements is to *determine its readiness* to use the guidelines as written for development of VVSG 2.0 compliant voting systems. For each of the fifteen principles, Hart reviewed every requirement against best practices as defined by IEEE Computer Society, Standard 830-1998, IEEE Recommended Practice for Software Requirements. Per IEEE 830-1998, characteristics of a good requirement must be:

- Correct
- Unambiguous
- Complete
- Consistent
- Ranked for importance and/or stability
- Verifiable
- Modifiable
- Traceable

Unambiguous is a key characteristic of a good requirement. IEEE 830-1998 defines an unambiguous requirement as "…every requirement stated therein has only one interpretation." Unfortunately, many of the VVSG 2.0 Requirements, as currently drafted, fail to achieve this standard. While Hart's submission will provide specific comments on the ambiguity of the requirements, one example is useful to provide context to drive the importance of unambiguous requirements.

Within Principle 9, there is this the goal for "efficient" audits. As a high-level Principle, this is good, but as a Requirement, the language is ambiguous: "9.4-A, Efficient compliance audit." This is the extent of the requirement as drafted. But what does "efficient" mean and how is it measured? The requirement is silent on this, and thus fails to meet many of the eight characteristics of a good requirement per the IEEE specification, most importantly, unambiguous.

The example provided is just one of a serial problem that exists throughout the VVSG 2.0 specification that must be addressed to be an effective guide in the development of compliant systems. Without it, there will be a high dependency on the Test Assertion process, which will slow manufacturers' ability to engineer the systems, or there will be a high use of the EAC's RFI (Request for Information) process to add clarity to an insufficiently drafted Requirement, resulting in the further dampening of efforts to build compliant systems. The best approach is to follow good*, well proven,* requirements generation as defined by the IEEE.

Principle 1: High Quality Design

The Requirements in Principle 1 include many of the basic functions of a voting system and are generally well drafted and well-intended. However, several of the Requirements in Principle 1 suffer from similar issues:

- Requirement writing that is not precise and unambiguous. When a Requirement can be interpreted in multiple ways, or does not appear to be measurable, it is challenging to build a system that complies.
- Attributing the responsibility for meeting a Requirement to something that cannot take action. For example, multiple Requirements state that the "election definition" must take a specific action. Since an election definition consists of data only and cannot take actions, it is unclear which components of the voting system must meet the Requirement.
- There are multiple Requirements in this section that are duplicates of Requirements in other sections but are written differently here. This duplication will lead to conflicting interpretations and ambiguity in the standard as a whole.
- Some Requirements appear to be outside of the existing scope of the VVSG, such as Requirements stating that electronic poll books must be tested in some situations.

Section 1.1

Our primary concern in section 1.1 is that multiple requirements appear to conflict with, or not allow, system functionality required by state and local laws and/or rules.

Specifically:

- There are requirements that would prevent our customers from continuing to use some commonly used L&A test processes.
- There are requirements that appear to disallow a common form of ballot construction where all contests from all parties are placed on a single ballot in an open primary. This ballot layout is required in multiple states.
- There are requirements that disallow a commonly used workflow, where polls are closed for Election Day voting and then reopened to process additional, usually absentee, ballots. Again, this is currently required in multiple states.
- There are requirements that mandate the use of unique identifiers on ballots. While this practice is useful for Risk-Limiting Audits, it is also illegal in multiple states.

Additionally, this section redefines what must be in a cast vote record (CVR). Our primary concerns are:

- Some requirements introduce security risks.
- Other requirements will inflate the size of a CVR, incurring additional cost or slowing performance. All of these items could be provided in a system export, rather than in the CVR itself, without affecting cost or Election Night performance.

Section 1.2

Section 1.2 defines a series of tests around undefined concepts of "typical" mark distributions, ballot volumes, and other metrics. American elections are extremely diverse, and there is no single definition for a typical election, typical use, or typical volume. This makes it likely that each test lab will develop its own definition of "typical," leading to substantially different test efforts being performed at different VSTLs. In any case, specific testing in a "typical" scenario seems unnecessary and would only add cost and complexity. The VVSG already includes other requirements that mandate comprehensive testing through the entire range from low to high volumes, including above the stated system limits.

Section 1.3

All of the requirements in this section 1.3 are subjective, unmeasurable, and unnecessary. The intent appears to be to require that the system be testable. This is unnecessary. If a VSTL is unable to test a system to their satisfaction that system will not gain VVSG certification. There is no need for these additional requirements.

Additionally, the requirements are structured around ensuring things that cannot be ensured by a system under test – specifically that the testers themselves can select appropriate tools and develop tests, etc.

We believe this section should be either wholly removed, or entirely rewritten to require specific, measurable deliverables in the TDP or system design.

Requirement	Comment	Challenges
1.1.1.C Define political geographies	It is unclear if the list of political geographies is meant to define specific objects that must be present in the system. In an election system, all geographies are simply collections of precinct-splits. Does the voting system have to contain a literal set of labels for each item listed in 1-3, even though these are logically identical in the system? (i.e., there is no difference between a city and a district – both are simply collections of precinct-splits). The list is not comprehensive and seems unnecessary in the requirement. Perhaps this is better placed as an example in the discussion.	

1.1.1-J Confirm recording of election definition	This Requirement is ambiguous. It ascribes the required action to the “election definition,” but an election definition does not perform actions. It is unnecessary for the system that writes the election definition to verify it, and doing so during a write will slow down system performance. Components downstream should (and do in current systems) validate the election definition before using it. Does validation that occurs when read or imported satisfy this requirement?	
1.1.1-K Election definition distribution	An election definition should never be capable of generating additional artifacts. This would require it to contain executable code, which is a bad security practice. We recommend: “election management system" or something similar.	
1.1.1-M Auto-format	This Requirement is too vague - who defines what “jurisdictional requirements” are? How can this be tested or measured? It is also unclear whether this Requirement discusses formatting (font size, weight, etc.) or the inclusion of contests and ballot content on the ballot. If it is talking about actual formatting, it should include an allowance for manual formatting which is required in many jurisdictions.	
1.1.1-P Nonpartisan formatting	This is covered in Principle 5; it should not also be covered here.	

1.1.1-X Retaining, modifying, reusing definitions	The implications of this requirement are unclear for reuse within the same election. What does it mean to "reuse" "general districting or precinct definitions" within the same election?	
1.1.1-Z Data inputs and outputs	This is already required in the interoperability section and should not also be included here. 1.1.1-Z #3 The intent is unclear since the CDF defines a format for data exchange (imports and exports) but does not define a report format.	
1.1.2.A Equipment setup	This requirement is vague and appears to require the voting system to verify things that a human tester should be verifying. We suggest using part of the discussion *as* the requirement, because it is better written than the requirements. Hart's suggested requirements: "The voting system must allow election personnel to conduct equipment and system readiness tests before an election to: • ensure that the voting system functions properly, • confirm that system equipment has been properly configured, and • obtain equipment status and readiness reports."	

1.1.2-D Verify proper installation of ballot styles	The system cannot verify that ballot styles have been properly selected by the user. Hart suggests this requirement be split into two requirements, with the following wording: 1. The system must allow the user to verify that software and ballot styles have been properly selected. 2. The system must notify an EO of any errors that occur while selecting or installing software and ballot styles.	
1.1.2-E Verify compatibility between software and ballot styles	This requirement uses vague terminology and is unclear. Hart suggests splitting the requirement into two, with the following wording: 1. Voting system components that use an election definition must be able to verify that an election definition was created from the same voting system version that is currently installed on the component. 2. The system must notify an EO of any errors that occur while loading an election definition.	
1.1.2-G Test all ballot positions	Hart suggests the following edit, to allow for systems that do not define discrete ballot positions (i.e., systems that do not use timing marks): "Scanners must allow for testing that uses all potential ballot positions in the election as active positions."	

1.1.2-J Testing calibration	Ballots are not a good choice for testing calibration in a scanner. Calibration testing varies by technology, but is typically performed using a specified test pattern with multiple shades and/or shapes. Hart suggests the following edit: Drop the phrase "test ballots." "Scanners must support testing the calibration of the paper-to-digital conversion (such as the calibration of optical sensors, the density threshold, and the logical reduction of scanned images to binary values, as applicable)."	
1.1.2-K Ballot marker readiness	This requirement is too vague. How can it be measured or tested?	
1.1.2-N Pre-election reports	1) This requirement should be modified to make it clear that all of this information does not need to be provided in one single report. Hart's suggested edit: "The voting system must provide the capability to report the following information:" 2) "Ballot preparation edit listings" is undefined, and we do not understand what this refers to.	
1.1.2-O Readiness reports for each polling place	1.1.2-O #s 3, 5, 6 This expand the scope of a voting system to include inventory management functionality. That is typically done by our customers outside the voting system.	

	Additionally, this restricts system design and flexibility. Our current system intentionally does not require users to define where a device will be deployed beforehand (which would be needed for a "Readiness Report"). Instead, a device is assigned a polling place when it is configured for the election. This allows for much greater efficiency in equipment setup, and faster, more flexible deployment of spare units if needed on Election Day.	
1.1.2-P Readiness reports, precinct tabulation	1.1.2-P #6 This requirement is too vague. Who determines what is required "to accommodate administrative reporting…"?	
1.1.2-Q Readiness reports, central tabulation	1.1.2-Q #6 This requirement is too vague. Who determines what is required "to accommodate administrative reporting…"?	
1.1.2-R Readiness reports, public network test ballots	Conflicts with 14.2-F. If the system is not allowed to connect to an external network, how could the system send ballots over a public network?	
1.1.3-B Verify L&A performed	It is not possible to meet this requirement with all L&A methodologies. For example, one system design involves fully clearing all memory after an L&A test. This design ensures the system has no knowledge of whether a test is currently being run or if live election results are being recorded – and so is not	

	capable of behaving differently in a test than it does in the live election. As written, 1.1.3-B requires the system to keep a record of previous tests, which could be taken advantage of by a compromised system. Additionally, the voting system should not be responsible for determining if a L&A test passed or failed. This is the responsibility of the humans testing the system. A compromised device could return "pass" regardless of the result of the test, so the system should not be trusted with testing itself or reporting that a test has been performed.	
1.1.3-C Prevent opening the polls	Hart does not agree with this requirement. Different jurisdictions across the country use different L&A methodologies. Requiring that each device pass an L&A test before use would force many jurisdictions to change the way they run currently run L&A tests and dramatically change the amount of work required in many jurisdictions. Also, our comments from 1.1.3-B apply to 1.1.3-C as well. However, we agree it is reasonable to require that a device does not have any recorded results before allowing polls to be opened (for example, that test data has been isolated). We recommend rewriting this requirement to focus only on preventing polls from being	

	opened if there are already votes recorded on the device.	
1.1.3-D Non-zero totals	This appears to be a duplication of 1.1.3 C. We recommend having only a single requirement that requires the "vote counters have been zeroed" prior to opening polls.	
1.1.3-E Scanners and ballot marking devices - enter voting mode	This requirement is redundant - 1.1.3-F.3 covers the same thing.	
1.1.4-B One cast ballot per session	This requirement does not apply to all voting scenarios used in the United States. In some places, joint elections are held where voters are issued separate ballots for each local jurisdiction. As written, this requirement would hurt usability and introduce additional human error, because a poll worker would have to activate each of those ballots separately. Hart's Suggestion: Rewrite the requirement as follows: "The voting system must not provide more ballots than authorized to a specific voter."	
1.1.4-C Contemporaneous record	This requirement is vague and unclear. What is considered a "credential" in this context? It appears the goal is to be able to reconcile ballots issued to ballots cast – however this can be (and is) accomplished without having or recording voter-specific credentials.	

	If something voter-specific is required, we believe this would be better placed in the device audit log rather than a paper record (as implied in the discussion).	
1.1.4-D Control ballot configuration	This requirement is too broad and attempts to cover electronic ballot-specific requirements in a requirement written to apply to all ballots. For example, how can you "disable all portions of the ballot the voter is not entitled to vote on" on a printed ballot? This requirement also appears to mandate behavior for open primaries that may conflict with state and local rules and laws.	
1.1.5-B N-of-M voting	There appears to be a typo in this requirement. A voter does not select a specified number of contests in N of M, they select a specified number of ballot options. Hart suggests the requirement be rewritten as follows: "For the N-of-M voting method, the voting system must be capable of gathering and recording votes in contests where the voter is allowed to choose up to a specified number of options."	
1.1.5-F Open primaries	This requirement appears to mandate behavior for open primaries that may conflict with state and local rules and laws. It seems to disallow open primary ballots where contests from multiple parties are	

	presented on the same sheet. This is a commonly used approach in U.S. elections.	
1.1.5-I Ballot rotation for contest options	The phrase "does not show bias to any contest option" is vague and could be interpreted differently by different audiences. While the goal of ballot rotation is to minimize bias introduced by ballot order, different implementations used in U.S. elections have different advantages and disadvantages. We suggest rewording the requirement as follows: "For ballot rotation, the voting system must be capable of gathering and recording votes when the ordering of contest options in ballot positions within each contest is variable across different ballot styles."	
1.1.6-F Record contest selection information	1.1.6-F #2 Ballot position is not necessary in the CVR recorded by the voting system. It can be cross-referenced in multiple ways with other parts of the system and included in exports if needed. Including it will lead to larger CVR size (and therefore cost or performance impacts).	
1.1.6-G Record write-in information	1.1.6-G #4: **The CVR should be immutable after being written.** Adjudication actions performed after the ballot is cast should not be recorded in the CVR, and this should be explicitly addressed in	

	this requirement. Requiring systems to edit or alter CVRs after they have been recorded is a bad practice and lowers the security of the system. For example, adjudication is typically performed in a separate, centralized tabulation system. When implementing the security best-practice of "least-privileges," a centralized tabulation system should have no ability to write or modify CVRs.	
1.1.6-H Record election and contest information	1.1.6-H #2 Voting method is not necessary in the CVR recorded by the voting system. It can be cross-referenced in multiple ways with other parts of the system and included in exports if needed. Including it will lead to larger CVR size (and therefore cost or performance impacts).	
1.1.6-J Record detected mark information	Marginal mark information is not necessary in the CVR recorded by the voting system. Including it will lead to larger CVR size (and therefore cost or performance impacts). We believe recording it at all is unnecessary when a system provides the ability to notify the voter of a detected marginal mark and given the opportunity to correct their ballot. If deemed necessary to record, the standards should allow this to be recorded in a location outside of the CVR, so that it can be accessed only when needed and does not have to be	Writing this would bloat the size of the CVR record potentially driving up cost of memory devices and slowing results reporting.

	transferred and read by downstream systems (which impacts Election Night performance and therefore system cost).	
1.1.6-K Record audit information	1.1.6-K #2 The voting system does not know the geographical location of the device. We suggest rewording this to require the polling place name. 1.1.6-K #4 This requires the use of unique identifiers on ballots, which is not allowed by law in many jurisdictions.	
1.1.7-A Ballot handling functions for scanners	We suggest rewording this so that these functions are required of the voting system as a whole rather than the scanner itself. This is consistent with guidance in other parts of the VVSG 2.0 requirements to allow for COTS scanners that are not purpose-built for elections. Suggested rewording: "Voting Systems must provide features for handling ballots when they are scanned individually using voter-facing scanners or scanned in batches using batch-fed scanners."	
1.1.7-D Ballot separation when batch feeding	This requirement mandates *how* something needs to be accomplished rather *what* needs to be accomplished; therefore, overly restrictive. With modern voting technology, segregation of ballots with different condition can be handled entirely with electronic adjudication, which is not	Cost Most COTS scanners cannot stop on a specific ballot because scanned images are sent to a workstation and image analysis is only performed after the physical scanning is completed for a ballot. Meeting this requirement would require real-time processing and effectively disallow the COTS

	allowed by this requirement as written.	scanners used by at least three vendors.
1.1.7-H Scan to manufacturer specifications	It is unclear what advantage is provided by publishing this information. There are already requirements for the kinds of marks a voting system must count and not count, and sufficient accuracy requirements to ensure a voting system is performing correctly. Additionally, mark detection is a core technology of a voting system and the specifics are both proprietary and are trade secrets.	
1.1.7-K Accurately detect imperfect marks	This is a poorly drafted requirement. The mark specified here is arbitrary and does not account for real world conditions. This mark is not a mark that would be made by voter but could easily be interpreted as a fold line by a fold line detection algorithm. Also, this potentially conflicts with 1.1.7 “M” and 1.1.7. “N” which require systems to ignore marks that were not made intentionally by voters.	
1.1.7-M Ignore extraneous marks inside voting targets	We agree that this problem should be minimized by the voting system, but the requirement here requires the voting system to eliminate it. That is not possible in all cases. Some extraneous marks caused by things external to the voting system cannot be reliably distinguished from a voter mark by a scanner.	

	In the real world, these risks are mitigated by a combination of specifications (for ballot stock quality, for example), best practices (for fold locations, for example), and human review. The voting system alone cannot identify and ignore such marks with 100 percent accuracy.	
1.1.7-N Ignore hesitation marks	This requirement is vague and needs a definition for "hesitation marks" and "insignificant marks." Who defines what should and should not count as "insignificant"? How would we build to this standard without such a definition?	
1.1.7-P Repeatability	This is highly dependent upon other "environmental" factors, such as marking device, calibration, and possibly other factors. A marginal mark is, by definition, a mark that may fall above or below a mark detection threshold. To detect such a mark, additional thresholds must be used – and thus marks detected near the marginal mark detection thresholds will not be repeatable in all cases. The discussion acknowledges that marks that fall precisely on the mark detection threshold cannot satisfy this criteria, but fails to consider that detect marginal marks also requires sensing thresholds.	
1.1.8-B No voting when polls are closed	Some jurisdictions require the ability to reopen the polls for various reasons, such as	

	scanning absentee ballots in the Election Day polling place. This requirement would not allow that, and would conflict with some state laws and/or rules. We suggest the requirement be reworded as follows: "The voting system must prevent the further enabling, activation, marking, or casting of ballots by any device **while the polls are closed**.	
1.1.8-E Prevent reopening polls	Some states require poll workers to be able to re-open polls so that they can process ballots that could not be process earlier in the day or process absentee ballots. This requirement conflicts with state laws and/or rules.	
1.1.9-A Voting methods when tabulating	Is the implementation statement in VVSG 2.0 a binary yes/no for voting methods, or can the manufacturer declare partial support, for example vote capture only? In our current system, we support vote-capture-only for Ranked Choice Voting because there is no commonly adopted set of rules for tabulating Ranked Choice contests. This allows our customers to hand-tabulate or use a 3rd party tabulation tool that meets their needs (for example, rankedchoicevoting.org's Universal RCV Tabulator). Separate, standalone requirements for tabulating each voting method would	

	disallow our current approach, and discourage the development of interoperable third-party tools.	
1.1.9-E Accept or reject recallable ballots individually	This requirement defines how recallable ballots are implemented and is overly restrictive compared to the intent stated in the discussion. Accepting and rejecting provisional and recallable ballots can be handled in multiple different ways, including the common practice of segregating provisional paper ballots, and only scanning ballots when the decision has been made to accept them. To address the intent stated in the discussion, the requirement should be reworded to state: "The ID assigned to each provisional or recallable ballot must be unique within the current election."	
1.1.9-F Accept or reject recallable ballots by category	This requirement is too vague; it is unclear what this means. What kinds of categories are envisioned? Why would acceptance/rejection by category even be required?	
1.1.9-P Ranked choice voting	See comments for 1.1.9-A	
1.1.10-B Reporting device consolidation	The standard should allow this function to be performed in the central Tabulation System. Our customers do not request and do not want the ability to consolidate results in the polling place.	Consolidating results in the polling place requires either additional hardware (for direct device-to-device communication) and/or breaking seals and removing memory devices in the polling place. This introduces a security risk and the potential for human (poll worker) error, for something that election officials don't want in the first place.

1.1.10-D Ballot and vote counts	1.1.10-D #2 This is ambiguous. Voting system manufacturers will be unable to tell if it is requiring the actual text of the issue from the ballot (which does not belong on results reports) or using text in a generic sense. 1.1.10-D #3 It is unclear why the VVSG would require alphanumeric audit content to appear on reports of vote and ballot counts, nor what kind of audit content is being considered.	
1.1.10-G Discrepancies detectable	What is the definition of "discrepancy"?	
1.1.10-I Precinct reporting devices, no tallies before polls close	The requirement, as written, disallows a jurisdiction from retrieving vote records from a device that has become inoperable during the course of the voting event, but which has votes stored in its memory. Jurisdictions across the country need to be able to retrieve recorded votes from such equipment, and provided that your system has adequate security measures implemented in the first place, there is no reason to disallow this. Hart suggests the requirement be reworded as follows: The voting system must prevent the printing of tabulation reports before the polls close.	
1.1.10-N Report overvotes for each contest	The requirement is fine; however, the discussion requires further work - many jurisdictions do not want to report overvotes this way.	

	If a reader of the reports wants to understand this value – votes lost – it is as simple as multiplying the number of ballots that contained an overvote for this contest by the "N" from "N of M." There is no value in requiring a specific presentation of the data here.	
1.1.10-S Post-election reports in common data format	The requirement needs to include the specific version of the CDF being required. Without a specific version we are building to a moving target, which will increase cost and delay certifications if the CDF specification is updated after feature development but before certification. Additionally, this requirement should be in the Interoperability section and should not be duplicated here.	
1.1.10-T CVR export and import in common data format	This is a redundant requirement; same discussion as 4.1. The requirement needs to include the specific version of the CDF being required. Without a specific version we are building to a moving target, which will increase cost and delay certifications if the CDF specification is updated after feature development but before certification. Additionally, this requirement should be in the Interoperability section and should not be duplicated here.	
1.1.10-U Reports are time stamped	This is a bad requirement because the ISO 8601 is not a	

	good standard for reports intended for consumption by the general public. The standard requires the use of military time (24 hr clock) and year/month/day formatting for dates, both of which are non-intuitive to the general public and will make reports less readable.	
1.2-C – Ballot position distribution	The requirement is difficult to quantify. There is not a "typical volume per device" nor a "typical election" in American elections. Elections and equipment use cases are very diverse across the country. Test labs already test all devices up to their published volume limits. What is the advantage in adding additional tests at a lower "typical" volume?	Cost Additional test and certification scope that does not provide additional value.
1.2-D – Mark quality	The requirement is difficult to quantify, and there is no "expected distribution in a typical election." Hart suggests that the requirement be reworded as follows: *"For devices that read and interpret human-made marks on ballots, the mark quality of the marks must be spread across the manufacturer's published specifications for valid marks and invalid marks* ~~*according to expected distributions in typical elections."*~~	Cost Meeting the requirement, as written, would likely require the development of an advanced toolset to automatically mark ballots with a broad variety of mark styles at various distribution rates.
1.2-E – Assessment of reliability	Please define "continuous operation"; is it by a user, or scripted? An environmental test	

	chamber may not allow for the user to be present at all times.	
1.2-F – Continuous operation – typical environmental conditions	Real world use would operate with pauses and not continuous operation. Continuous operation invites user error due to stress placed on personnel, may this test be paused as long as the entire operational period is completed?	Cost Additional personnel must be hired to complete 24/7 testing.
1.2-G Continuous operation – varied environmental conditions	Does the definition of "voting system" in this requirement include all of the COTS components? These operating conditions are dangerous for some peripherals, for example UPS devices. Additionally, Hart suggests restricting this requirement to only the system components that need to operate under varied environmental conditions. Systems used exclusively in an office do not need to be tested in varied environmental conditions.	
1.2-M Respond gracefully to stress of system limits	This needs more definition. What does "respond gracefully" mean? Does it mean to continue to operate or does it allow for slow-downs, errors, and/or warnings? How far above the system limits must be tested?	
1.2-N Handle realistic volume	Please expand on what "approximating normal use" means. Normal use will vary greatly between systems, will this be defined by the systems documented procedures?	
1.3-A Identifiability of basic and compound system components	This requirement is subjective and unmeasurable.	

	Who defines what a “tester is able to clearly and unambiguously identify”? What is the intent of this requirement?	
1.3-B Comprehensible processes that form system configurations	This requirement is ambiguous. It is unclear if this requires new deliverables in the TDP or if the documentation that was required for VVSG 1.1 and 1.0 is enough. Please advise if this is asking for an advance system configuration diagram.	
1.3-C Observable configurations via plausible observation methods	This requirement is subjective and unmeasurable. How can a system, or documentation set, “ensure a tester is able”? Suggestion The provided documentation of equipment must provide examples of expected behavior or error conditions.	
1.3-D Identifiable resolution limits for observation methods	This requirement is ambiguous and not measurable. Defining observational tools, techniques and strategies is the responsibility of the VSTL not the voting system vendor.	
1.3-E Description of observational noise and consequences for observational methods	This requirement is ambiguous and not measurable. Defining observational tools, techniques and strategies is the responsibility of the VSTL not the voting system vendor.	

1.3-F Explicitly stated performance criteria	The text of the requirement does not match the title. It is too ambiguous and unmeasurable.	
1.3-G Creation and execution of evaluation methods	This requirement is not measurable.	

Principle 2: High Quality Implementation

In general, this Principle requires refinement. Many of the Requirements listed throughout section 2.1 fit the definition of a Principle, as they are untestable as written. Furthermore, other Requirements in this section that are specific are difficult and cost prohibitive to test and demonstrate compliance. One notable example is Requirement 2.1-D Records requiring that they last at least 22 months. There is no question that storage media must be carefully selected during design to ensure that all records must last for at least 22 months, however the requirement text that states "...during an election and for a period of at least 22 months afterward, in temperatures ranging from 5 C to 40 C (41 F to 104 F) and relative humidity from 5% to 85%, non-condensing..." could lead to confusion and the belief that an undefined 22-month voting system hardware test is being prescribed.

A concern echoed by many voting system manufacturers is regarding the EMC test levels prescribed in this and prior VVSG revisions. The test level (intensity) requirements between tests vary and appear to be arbitrarily chosen to be the higher level without regard to the equipment category, application, or environment in which the voting systems will be deployed. This increases cost and time to market while reducing availability of COTS components for integration. For example, Radiated and Conducted Emissions require FCC Class B, the higher test level, when a Class B digital device is defined in *Title 47 CFR § 15.3 - Definitions* as "A digital device that is marketed for use in a residential environment...". The test levels historically selected for Electromagnetic Susceptibility and Magnetic Field Immunity are used for Industrial equipment, in the cases of those tests a more intense test level than commercial. Finally, Electrostatic discharge immunity prescribes the most intense test level, typically reserved for the likes of medical devices.

Where possible, we have included proposed changes to wording or terms to refine the requirement to be more specific, testable, and consistent.

Requirement	Comment	Challenges
2.1-C Acceptable coding conventions	The discussion comments are unclear and open-ended. What conditions and which cases does the EAC or VSTL specify coding conventions?	
2.1-D Records last at least 22 months	Testing guidelines for 22 months and temperature and relative humidity are not defined.	Testability
2.1.1-A General build quality	This is a principle and not a requirement. This is not measurable.	
2.1.1-B High quality products	This is a principle and not a requirement. This is not measurable.	

2.1.1-C High quality parts	This is a principle and not a requirement. This is not measurable.	
2.1.1-D Suitability of COTS components		Supply Chain The environmental condition requirements are restrictive to the point of severely limiting COTS choices to mil-spec grade devices.
2.1.1-E Durability	This is a principle and not a requirement. This is not measurable.	
2.1.2-A Electronic device maintainability	Requirements are too vague and undefined (e.g. "routine maintenance").	
2.1.2-B System maintainability	Requirements are too vague and subjective. For example, how is "easy" measurable; who determines what is easy?	
2.2-A User-centered design process	How is this requirement measured? How is an effective user-centered design process measured? Who defines effective and successful documentation? How is this requirement to be applied to the extension of existing fielded systems submitted for VVSG 2.0?	
2.4-C Module size and identification	Too subjective and undefined.	
2.4-D Lookup tables in separate files	Too ambiguous. What is the definition of “lookup-table?”	

	The requirement should define. Recommendation: A Lookup Table is a set of immutable data in code that doesn't require transformation before usage by objects at runtime.	
2.5.4-M Election integrity monitoring	This is a principle and not a requirement; not measurable and too broad.	
2.6-A Surviving device failure	No criteria associating with the word "following." For example, is a reboot allowed?	
2.6-C Surviving component failure	No criteria associating with the word "following". For example, is a reboot allowed?	
2.7-A Ability to support maintenance and repair physical environment conditions – non-operating	Suggestion *All voting devices must be able …* Note Method reference is out of date and does not align with revision MIL-STD-810H.	
2.7-C Ability to support storage temperatures in physical environment – non-operating	Suggestion *All **polling places devices** must be able…* Note Method reference is out of date and does not align with revision MIL-STD-810H.	
2.7-D Ability to support storage humidity levels in physical environment – non-operating	Suggestion *All **polling places devices** must be able…* Note Method reference is out of date and does not align with revision MIL-STD-810H.	

2.7-E Ability to operate as intended at specified humidity conditions - operating	Suggestion *All **polling places devices** must be able …* Note Method reference is out of date and does not align with revision MIL-STD-810H.	
2.7-F Ability to operate as intended at specified humidity conditions - operating	Suggestion *All **polling places devices** must be able …* Note Method reference is out of date and does not align with revision MIL-STD-810H.	
2.7.1-A Electrical disturbances	Not measurable. Procedure not defined.	
2.7.1-B FCC Part 15 Class A and B conformance	2.7.1-B #2 Please define "non-place."	
2.7.1-D Power port connection to the facility power supply	This requirement is not measurable; procedure is not defined.	
2.7.1-F Outages, sags, and swells	This requirement is not measurable; procedure is not defined.	
2.7.1-G Withstand conducted electrical disturbances	This requirement is not measurable; procedure is not defined.	
2.7.1-H Emissions from other connected equipment	This requirement is not measurable; procedure is not defined.	
2.7.1-I Electrostatic discharge immunity	This requirement is not measurable; procedure is not defined. Discussion from 2.7.1-A is inclusive of ESD.	

2.7.1-J Radiated radio frequency emissions	This requirement is not measurable; procedure is not defined. Appears to be the same as 2.7.1-B-1: 1. *"Voting devices located in polling places must comply with Class B requirements." Class B requirements include both Radiated and Conducted emissions.*	

Principle 3: Transparent

Hart strongly agrees with this Principle, however there is some ambiguity in the regulatory text that must be clarified to avoid implementation challenges. Requirements must be specific and testable to implement with a high level of confidence that they objectively comply with the requirement. For example, the regulatory text of requirement 3.2-H Variable value inspection procedure is brief and vague. “Values” may be interpreted as strings, numerical values, or even file metadata.

Another specific concern is the text of requirement 3.1.4-G Compiling Installation prohibited implies that Just-In-Time (JIT) compilation, utilized by modern runtime environments like Java and .NET, would be prohibited.

Lastly, Requirement 3.1.4-L Open market procurement of COTS software does not account for implementations where the manufacturer is a licensee of the COTS software, allowing for a minimized kiosk installation in support of surface attack reduction in the spirit of requirement 3.1.4-D Election specific software identification. In this implementation, no software or software features are installed that are not specific to the voting system.

Requirement	Comment	Challenges
3.1.1-D Identify software and firmware by origin	What does "in-house" mean? What is the definition of "sub-contractor"?	
3.1.4-D Election specific software identification	This requirement is unclear as to what is being requested; all software installed is specific to the voting system.	
3.1.4-G Compiler installation prohibited	Does this include JIT compilers such as Java and .NET?	
3.1.4-L Open market procurement of COTS software		This does not apply if the system manufacturer is the licensee of the COTS software and there is no open market deployment. All COTS components are imbedded within the packaged product image, and there are no separately installable COTS items.

3.2-H Variable value inspection procedure	This requirement is too ambiguous. What is the definition of "Values"; what are they looking to inspect and how?	

Principle 4: Interoperable

Hart was actively involved in Common Data Format discussions, as early as 2014 when John Wack hosted initial working sessions at NIST. While the concepts of Interoperability and Common Data Formats are both noble approaches, they are very different in their practical implementation and usages. Throughout Principle 4, Interoperability, *voting devices* or *voting system* (which per the glossary includes voting devices) are defined as the primary target voting components utilizing interoperability. Principle 4, requirement 4.1-A best sums up the challenges with all operability requirements using NIST CDFs:

4.1-A – Data export and exchange format: *Voting devices* must include support for the NIST SP Common Data Format (CDF) specifications for data inputs and output:

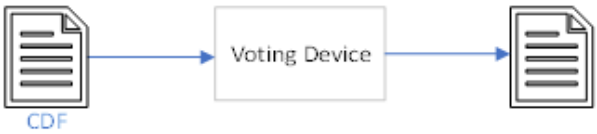
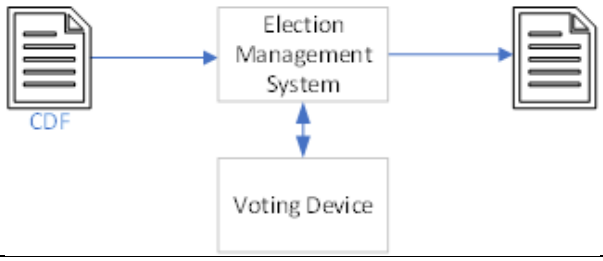
1. Election programming and results reporting data, NIST SP 1500-100

2. Election event logging data, NIST SP 1500-101

3. Cast vote records, NIST SP 1500-102

4. Voter registration-related data, NIST SP 1500-104

The challenges with 4.1-A, and subsequent requirements, <u>is that voting devices are required to support the import or export of the CDFs directly</u>. In CDF meetings chaired by John Wack, the manufacturers were very transparent that this is an unrealistic goal. It was agreed upon, however, that CDF utilization is realistic and possible as routed through the election management system, allowing the common data format to be converted to/from manufacturer device-specific data formats. This is best explained in a diagram:

As written in VVSG 2.0	
As discussed throughout CDF development	

In fact, the sensitivity of direct-device support of CDF was implicitly stated in December 03, 2018 email by Wack, in which he stated "*A note of clarification: the CVR spec deals with what can be put into a CVR and how the data is structured,* ***but the CDF specs do not contain requirements for mandating their use with any particular class of devices*** *nor will we be discussing such requirements on this telecon.* " [emphasis added].

There are practical limitations not considered in the drafting of Interoperability in the VVSG 2.0 specification. These include, but are not limited to:

1. Security
    a. Across manufactures, all voting devices control data input through security validation, be it encrypted data and/or nonrepudiation methods. The EMS and the devices share security keys needed for information exchange, such as election programming data. As the VVSG 2.0 is written, chain of trust to ensure that only trusted election programming data is imported into a device is not considered. Without the involvement of the EMS to bridge the CDF data from an untrusted party to the device, it is not possible, nor should it be allowed, to import data. All imported data into a voting device must be from a trusted source, and the only way to ensure trust is through tight security relationship.
    b. Similarly, all data exported from a device should be validated as trustworthy through encrypted and/or nonrepudiation methods. VVSG Principle 5 does not take this into account for data exported from a voting device. There are provisions into the VVSG 2.0 that account for report signing as exported from the Election Management System but bringing third party ley exchange into the devices is not considered, nor recommended as a safe and viable security practice.
2. Data Encoding via XML. As written CDFs are written as XML documents. Voting devices, by their nature are not inherently provisioned with hardware resources to process XML documents, which can grow very large based on the amount of data being imported or exported. Voting system manufacturers have optimized data imports and exports to/from the voting devices to account for small footprint resource requirements and adding the overhead to support XML documents imported/exported from the devices directly added unneeded and costly overhead. The Election Management System is tailored for this type of document exchange, and it provision to convert CDF formatted data to/from the needs of the devices.
3. One of the CDF requirements as listed is the election programming. It is unrealistic to believe that this in and of itself meet the requirements for voting devices to operate. Election data such as precinct, parties, contests, candidates, etc., as certainly core, and common components of the data required for a voting device to operate, but it is not limited to this, and manufacturer specific data and jurisdictional specific data not found in the CDF is also required. Thus, the EMS cannot be eliminated from voting device programming. Therefore, CDF programming data should be imported into the EMS, combined/merged with device/manufacturers/jurisdiction specific data, and then exported out of the EMS and into the devices through the air-gapped methods.

VVSG 2.0 goals for common data formats is realizable if the expectation first agreed upon between NIST and the manufacturers are met with the specification, that being voting devices to not directly need to support CDF imports and exports, that the Election Management System will be responsible for CDF-to/from-Device specific formats. Without EMS involvement, attainment of this principle as written is not realistically possible.

Unrelated to Common Data Formats, CDFs, but falling within Principle 4, is the requirement for "standard device interfaces," 4.3-A, "Standard, common hardware interfaces and protocols must be used to connect devices." What this *highly prescriptive* requirement fails to consider is manufacturers intentionally use non-standard interfaces and/or protocols as a method of security. Intentional

obfuscation of software or hardware protocols, including ports, is a method of security method to protect known attack vectors, such as USB or ethernet. The VVSG 2.0 should let the market drive the requirement, as purchasing jurisdictions should be the arbiters of security vs. convenience. **As written, this requirement will lessen security of voting systems that utilize obfuscation methods, which is counter to VVSG 2.0 goals**.

Please refer the feedback below that provided details into each of the requirements as documented within the VVSG 2.0.

Requirement	Comment	Challenges
4.1 Voting system data that is imported, exported, or otherwise reported, is in an interoperable format.	Applies to all CDFs. CDFs can be supported through the EMS interface to or from the devices through native conversion. There should be no requirement for "voting devices" to have direct CDF input or output requirements. They should reference which versions of the standard is required. As multiple versions are currently available for some standards.	Testing There are no provisions in the VVSG 2.0 documentation the describes the testing and qualification process of compliant common data formats.
4.1-A Data export and exchange format	Not all voting systems require or have this data, not all CDFs are applicable to every or any component of the system. Specifications should note which CDFs are input into an EMS, and which CDFs output from EMS.	
4.1-B Election programming data input and output	This requirement should call the specific CDF specification being referenced. "election definition processes is not defined" 4.1-B should callout import and export to and from the EMS.	

4.1-C Tabulator report data	"Tabulation process" is undefined, requirement should specify tabulation performed within the EMS. Requirement states import and export, but not all EMS tabulation allow importing of election results. Needs strict definition of import and export requirements.	
4.1-D Exchange of cast vote records (CVRs)	This requirement should call the specific CDF specification being referenced. Requirement states import and export, but not all EMS tabulation and audit allow importing of cast vote records. Needs strict definition of import and export requirements. "Casting tabulation audit processes" should specify as performed within the EMS.	
4.1-E Exchange of voting device election event logs	This requirement should call the specific CDF specification being referenced. Requirement states import and export, but logs should only be imported into a log aggregation system within the EMS, other components of the EMS should not be required to import CDF log data. Needs strict definition of import and export requirements across EMS components. Should not explicitly call out voting devices but rather the exchange of election event logs through the EMS.	

4.2-A Standard formats	This is an open-ended requirement with no measurement criteria. This is not measurable as who determines "where possible".	
4.3-A Standard device interfaces	What constitutes "a device"? What is the definition of "standard, common hardware interface." Who defines “standard” and “common”?	Security Highly prescriptive. This requirement does not allow manufactures flexibility to compete with enhanced interfaces. This requirement conflicts with a core security method of hardware obfuscation. For example, if USB as a standard protocol is used does this requirement mean that the physical port on a voting device must use USB as is defined, or can the port be obfuscated to enhance security? Another example, using one communication protocol over a different physical protocol connection for usability and/or security.
4.4-A COTS devices meet applicable requirements	As written the requirement should call out the specific VVSG requirements. Who determines what is applicable? Suggestion Reword the requirement: *“Devices are allowed in a system as long as the system as a whole meets VVSG requirements.”*	

Principle 5: Equivalent and Consistent Voter Access

Hart agrees with intent of the requirements included in Principle 5. However, we have concerns about how the Requirements are currently written.

First, it is unclear (here and in other principles) whether VVSG 2.0 requires full accessibility features on every voting device in the system, or if the accessibility requirements can be satisfied by providing accessible features that cover every function (voting, reviewing, casting, etc.) on at least one voting device in each polling place.

For example, can all-in-one devices (mark, verify, cast) be used for voters who need accessible features while also deploying hand-marked paper ballots and a scanner (without accessibility features) for voters who do not need those features? We believe the VVSG should focus on what features must be provided without requiring all components to support all features. This allows for more innovation, lower costs, and more choice for election officials.

Second, the scope is unclear or undefined on multiple requirements. Many requirements call out the "voting system" for functionality that has been previously restricted only to voter-facing interfaces (audio functionality, for example). Other requirements do not define a scope at all, implying that they apply to all system components. Each requirement should clearly and unambiguously state which parts of the voting system it applies to.

Requirement	Comment	Challenges
5.1-A Voting methods and interaction modes	1) The requirement is unnecessarily broad and attempts to cover too many areas. Each voting method has unique requirements in this area. For example, vote-by-mail (listed in the discussion) does not support the same capabilities as in-person voting. Recommendation: break up discussion bullets and set them as actual requirements, instead of one umbrella requirement. 2) The use of the term "capabilities" is ambiguous – who defines specifically what functions or features must be included in all interaction modes?	

5.1-B Languages	The requirement is not written to account for unwritten languages; you cannot display an unwritten language visually. It may be desirable to display English on-screen, synchronized with the unwritten language's audio, but that would violate the requirement as written. There is a potential conflict with 5.2-D. Suggestion Remove the word "storing" due to voter privacy concerns. Records should not be stored in the voter's selected language (other than paper records, which is already covered by "printing" in this requirement).	
5.1-C Vote records	The use of "paper records" is somewhat ambiguous here. What else counts as a record besides a paper ballot and paper verification records? Please specify what the definition of "all records" is.	
5.1-D Accessibility features	Does this requirement apply to all voting devices? Can this be met with some devices at each polling place without requiring the full feature set on every voting device in the system?	Usability Accessibility extended to the scanner. Hart's concern is that adding accessibility features to the scanner will raise cost and will cause bottlenecks and throughput problems at the scanner. This goal (accessible casting) can be met in other ways, without requiring accessibility features in all precinct scanners, if the requirement were written to allow it.

5.2-A No bias	The first sentence is too broad and ambiguous to be testable. The requirements should be specific and focus on individual audio, tactile, enhanced visual, and non-manual modes. The discussion lists two such specifics (volume and font size) but it is unclear what else, specifically, is covered by this requirement.	
5.2-B Presenting content in all languages	What is meant by "all information"? This requirement needs to be restricted to voter-facing content. A lot of information intended for poll worker and election official use should not be presented in other languages.	
5.2-C Information in all modes	This is a confusing requirement, regarding the intent of the “discussion” as the referenced information does not match. For example, the number of items in a list is not an instruction, warning, message, notification of undervotes or overvotes, or contest option, which is the scope defined in the requirement. What is the intent of the requirement? What should be included in the scope?	
5.2-D Audio synchronized	Phrasing should be changed to "voting devices" instead of "voting system." This functionality is not needed on EMS components, for example.	

Principle 6: Voter Privacy

As discussed in our introductory comments, Requirements must be unambiguous in order to be effective and measurable. The Requirements contained in this Principle, while not objectionable, are generally written in a way that is ambiguous. This will cause manufacturers to rely on Test Assertions to make sure that systems are designed in a way that meets the Requirements.

Requirement 6.1.D presents an example of this problem: 6.1.D appears to be simple: "Audio during the voting session must be audible only to the voter." However, even this simple statement results in questions about how many decibels is required, and how much distance one should assume between voters.

We recommend re-writing this section in a way that establishes Requirements that can be measured and tested without ambiguity. This feedback applies to the entire section. Requirements detailed below are called out for specific reasons, as well.

Requirement	Comment	Challenges
6.1.D Audio privacy	Not completely measurable. A measurable number of decibels is necessary to measure audio sound. How does one ensure proper distance between voters?	Cost Depending on how this requirement is interpreted, more expensive headphones may be required.
6.2-A Voter Independence	Need clarification on whether all polling place components are required to meet this requirement or whether only those components designated to support accessible features are required to meet this requirement. The discussion mentions items that are outside the scope of a voting system. These should not be included in the VVSG requirements.	

Principle 7: Marked, Verified, and Cast as Intended

The Requirements in this section seem to be intended to mandate the use of certain best practices and usability requirements. While these best practices can be incorporated into voting systems where possible, there are some instances in which doing so will sacrifice other areas of usability, conflict with other voting system requirements or election needs, and/or substantially increase cost.

One example of this is 7.3-B, which states that, "The voting system must have the capability to display a ballot so that no contest is split into two groups of options." The Requirement continues to mandate that paper ballots must include a way of presenting the contest so that the options are not divided across two columns or pages. While this is certainly an example of a good best practice, there are some situations in which this is simply not possible. In some election contests, there may be up to 200-300 options or candidates, and the voting system must have a way to accommodate those types of situations.

An example of a Requirement that would increase cost substantially is 7.2-N, which mandates system response times that are significantly faster than those that are required by earlier versions of the VVSG. While these faster response times might technically be possible to achieve, they may require more expensive hardware to support those response time without much benefit from a usability perspective, and also present challenges for existing system upgrades due to hardware requirements.

Other comments include areas where there were redundant and/or misplaced Requirements or Requirements that we found to be ambiguous or difficult to measure.

Requirement	Comment	Challenges
7.1-E Color conventions	This requirement is overly restrictive. Although they are good "best practices", they are not hard and fast rules; and therefore, should not be required. These conflict with some requirements given for high and low contrast, and conflict with some general standards, such as using black text for presenting general information.	
7.1-G Text size (electronic display)	This requirement is too ambiguous. We suggest that the points system be removed and replaced by mm measurements.	This will drive a larger display size and have cost implications; the current requirement for large text was 6.3 mm and now 8.5 mm.
7.1-I Text size (paper)	Requirement is unclear.	

	Does this requirement say that the system must support font sizes that are equal to or greater than 10 points, or that the system must ONLY support font sizes that are equal to or greater than 10pt?	
7.1-K Audio settings	7.1-K #4 Should the requirement read "at least 6 discrete steps" here? As written, this disallows having more than 8 steps or having a continuous rate control but does not provide a reason for restricting a voter's level of granularity for speech rate. 7.1-K #5 The requirement should be 50 to 200% of the default rate. There is no way to enforce a specific WPM rate if a system uses human recorded audio.	
7.1-M Audio comprehension	This requirement is unmeasurable and ambiguous. It mandates functionality based on voter abilities that are not quantifiable, rather than mandating specific standards for the system.	
7.1-P Identifying controls	This requirement needs to be limited to voter interfaces only and should include an exception for the shape and color requirement for commonly used hardware such as keyboards.	
7.2-A Display and interaction options	7.2-A #1 Can you please define "enhanced visual options"?	
7.2-C Voter control	7.2-C #5 This requirement is too ambiguous and may disallow ballot rotation.	

7.2-D Scrolling	All requirements under D (except bullet #4) are ambiguous and/or redundant and do not directly apply to scrolling or pagination. Suggestion Bullets should not be used to list requirements; please use letters/numbers for easier referencing.	
7.2-H Accidental activation	As written, this requirement is ambiguous and unmeasurable. Suggestion Mechanically operated controls or keys, or any other hardware interface on the ACC-VS available to the voter shall be tactilely discernible without activating those controls or keys.	
7.2-N System response time		This requirement could drive more expensive hardware, because of the .1 second response time. VVSG 1.1 required .5 seconds which was responsive enough to provide a good voting experience.
7.2-O Inactivity alerts	7.2-0 #1 This requirement appears to be mixing documentation and logging requirements; additional clarification is needed.	7.2-0 #4 We believe this functionality could negatively impact some voters with severe disabilities.
7.2-P Floor space	This requirement is out of place and does not belong in this principle. This does not support side approach systems. VVSG 1.1 explicitly allowed for forward approach and side approach and did not define which dimension was depth.	Innovation/Cost Eliminating support for side approach ballot boxes would result in costly redesign. Side approach ballot boxes allow for ballots to be dropped straight down, rather than mechanically conveying the ballot to the rear or sides of the scanning device.

	Does this apply to all voting stations on just accessible voting stations?	
7.2-Q Physical dimensions	This eliminates a need for "P"; this is a redundant requirement. "Q" is more prescriptive.	
7.2-R Control labels visible	This requirement is out of place and does not belong in this principle. How do you define where voters can see labels for controls? This is hard to measure.	Innovation/Usability This is an overly restrictive requirement; does not allow for the many other ways voters can discover controls, not all controls need to be visible when a voter first approaches the system.
7.3-A System related errors	This requirement is not quantifiable. How does one determine whether the features of the voting system lead a voter to make errors? There should be more specificity.	
7.3-B No split contests	7.3-B #1 This is not possible in all scenarios, both in real life and in a test lab. Suggestion The voting system must have the capability to display a contest within a single ballot column if the contest can fit within a single column. The voting system must have the capability to display a contest within a single ballot page if the contest can fit within a single ballot page.	
7.3-C Contest information	How do you measure "clearly indicate" in this requirement? 7.3-C #3, #5	

	Seem to disallow presenting this information in non-audio formats. 7.3-C #6 Specifies a location for this information; the location is overly restrictive and does not match current information design best practices.	
7.3-D Consistent relationship	This requirement is overly broad; VVSG needs to callout specific usability problems to be addressed, and specific mechanisms. Different types of contests require different methods of marking and that appears to be disallowed by this requirement. For example, selecting a rank in an RCV contest on an electronic ballot is best done by selecting a number, but this is not consistent with the way you would mark a vote-for-1 contest.	
7.3-E Feedback	This requirement is not measurable.	
7.3-G Full ballot selections review	This requirement conflicts with other requirements in VVSG that appear to mandate review functionality on a scanner. Is this functionality optional or required?	
7.3-H Overvotes	The requirement discussion requires more than the requirement itself. Accessibility for notifications and warnings should be moved into the requirement itself. If voters with disabilities have access to an all-in-one voting	Adding accessible features to the scanner adds cost and could introduce bottlenecks in the polling place, as the scanners will become a chokepoint.

	device, are accessibility features still required on the paper ballot scanner?	
7.3-I Undervotes	Is a configuration in which poll worker approval is required to submit a ballot with undervotes allowed under VVSG 2.0?	
7.3-K Warnings, alerts, and instructions	This requirement is over specified. In cases of system malfunction the voter is not expected to correct the situation and should not be presented with information on the nature of the problem. The voter simply needs to know to notify a poll worker; the poll worker should be presented with information to resolve the problem.	Cost/Usability If all system malfunction messages must be transmitted into all voter languages, despite voters not needing to troubleshoot, translation and recording costs will go up significantly.
7.3-M Identifying languages	7.3-M #2 needs clarification, as there are multiple ways this requirement could be interpreted.	
7.3-N Instructions for voters	Phrasing of this requirement conflicts with the discussion - "must provide voters with instructions for all its operations at any time", seems to disallow contest sensitive help and conflict with sub-requirement #3.	
7.3-O Instructions for election workers	This requirement is not measurable.	
7.3-P Plain language	Troubleshooting a technical issue often requires language that is precise but not plain; there needs to be exceptions for these kinds of situations.	

Principle 8: Robust, Safe, Usable, and Accessible

There are many instances where the regulatory standards referenced throughout this Principle are not specifically defined. For example, the specification ANSI C63.19 referenced in 8.1-J has no specification revision, where the specification typically references a publication date. In another instance the standard is out-of-date and will not be testable when the VVSG 2.0 is released. Specifically, the **safety testing standard referenced in 8.1-K will be obsolete on December 20th, 2020 and no longer acceptable for new certifications for safety compliance in the United States.** These references must be clarified and corrected for manufacturers to target specific requirements during development to prevent ambiguity.

The use of undefined terms is common throughout this Principle. Clear and defined terms are needed to fully understand and appreciate scope and requirement applicability. For example, 8/1-G references "a telephone style handset" in the title, but additionally references "headphone" in the regulatory text? Is a "telephone style headphone" defined by the existence of a t-coil and an RJ-11 style connection to a telephone device, or does this imply that all headsets are to include t-coils?

Lastly, section 8.2-A Federal standards for accessibility is ambiguous in its applicability. Do voting systems meet these requirements with WCAG 2.0 level AA compliance in their accessible devices? Do these requirements extent to the EMS? COTS device interfaces?

Requirement	Comment	Challenges
8.1-F Discernable audio jacks	Measurable ability is a little doubtful.	
8.1-G Telephone style handset	The telephone style headphone is ambiguous; is it made to include standard audio headsets?	Are there headphones with a t-coil?
8.1-H Sanitized headphones	This is an operational requirement and not a system requirement. Suggestion The system must be able to accommodate the use of throw away headphones or sanitary coverings, or other means of sanitizing headphones.	There is no way to meet this the way it is written.
8.1-I Standard PAT jacks	The way this requirement is written it includes everything. Please define "voting station device."	

	8.1-I #2 What is being said here? What does “functionally equivalent” mean? We need clear definitions for the terms that are used throughout, e.g. “voting station device.”	
8.1-J Hearing aids	They should reference a specific version of the ANSI C63.19 standard.	Ambiguous
8.1-K Eliminating hazards	This standard is obsolete, they should reference IEC/UL 62368-1.	Devices will no longer be able to complete new certifications to the UL 60950-1 standard after December 20th.
8.2-A Federal standards for accessibility	The way this requirement is written it could apply to the EMS. We need more definition on what exactly this applies to.	
8.3-A Usability tests with voters	The referenced text is not an established standard with no version or date; needing to clarify if the referenced document is the correct one.	
8.4-A Usability tests with election workers	The referenced text is not an established standard with no version or date; needing to clarify if the referenced document is the correct one.	

Principle 9: Auditable

Principle 9, Auditable, calls attention to Software Independence, but applies the principle only sporadically. For example, the Requirements hold electronic devices, or DREs, to the strict letter of the Principle, but they appear to leave the practice of placing voter selections in bar codes completely exempt. Per the definition, voter selections encoded in barcodes is not software independent, and in fact voter no opportunity to validate the encoded selections versus their human readable selected options; there are two sources of truth, and therefore which one is to be believed. For Principle 9 to have a meaningful impact on the security of elections, **it must be applied across an entire voting system**.

Also, within Principle 9, End to End Cryptography is recognized as a means to provide software independence. However, the specification imparts undue hardship in bringing End to End Cryptography into an election system with requirements such as multi-year public availability prior to adoption, and new public approval processes to be established by the EAC.

Finally, this Principle includes multiple areas where conflicts are present. One example is requiring both paper records and tamper evidence, when hand-marked paper ballots cannot provide tamper evidence. Another is a requirement is requiring electronic receipts from voting systems, even though voting systems are not allowed to be connected to networks. There are also requirements that potentially conflict with State Laws and Regulations, such as the requirement for unique identifiers on ballots.

Detailed comments are below:

Requirement	Comment	Challenges
9.1.1-A Software independent	As written this requirement is not concise, and ambiguous in that it provides DRE as an example as non-software independence; yet, does not callout voter selections in barcodes as not being software independent. The example provided, selectively chooses a voting type to exclude while ignoring others with the exact limitation. In summary, who defines a voting method's level of software independence?	
9.1.1-B Paper-based or cryptographic E2E system	What "section" or specific requirements?	

	Paper based architectures do not necessarily define software independence when for example voter's selections are encoded in barcodes, which can't be independently voter verified.	
9.1.2-A Tamper evident records	This requirement needs to distinguish between paper based and electronic records or allow for both. Traditional paper ballots are not tamper-evident; does this requirement exclude traditional paper ballots?	
9.1.3-A Records for voter verification	This requirement is only applicable to precinct-based voting systems. Requirement seems to require a summary screen on precinct scanning devices which introduces both throughput and privacy concerns in a polling place. This is another example that voter selections in barcodes are not voter verifiable.	
9.1.4-A Auditor verification	This requirement is too vague, who decides what these records are? It is not measurable.	
9.1.4-B Auditable with compromised software, firmware, or hardware	The production of tamper evident records DOES NOT protect against this scenario. How do you meaningfully audit with tampered records? How do you test this? A compromised system can be detected, but once compromised auditability is untrustworthy.	How do you measure or test this requirement?

9.1.4-C Documented procedure	This requirement is too vague. Please clarify; if the intent is for vendors to recommend audit procedures in documentation, it should be stated as such in the Requirement.	
9.1.5-A Paper record production	This is ambiguous, who is responsible for independent verification? Is this targeted at the voter or election official? A voter for example, cannot independently verify voter's selection encoded in barcodes.	
9.1.5-C Paper record intelligibility	How are voter selections in barcodes meeting this requirement? Even if the barcode is publicly specified (different requirements in VVSG), a voter can't "map" a selection code to written text without some type of code to ballot legend. This is another example of conflict of software independence with voter selections in barcodes.	
9.1.5-E Paper record transparency and interoperability	There is no such thing as an interoperable format for paper records in elections. Mandating paper record interoperability is overreach. Ambiguous as the requirement should define the specific format to be applied. This discussion is misplaced and should be placed in Principle 4 Interoperability.	
9.1.5-F Unique identifier	Illegal in some jurisdictions.	

	Suggestion: The system must be capable of including a unique identifier on the paper ballot.	
9.1.5-G Preserving software independence	Suggestion: After a voter REVIEWS their ballot, the voting system must not physically be able to print in the area where the voter's ballot selections reside.	
9.1.6-A Cryptographic E2E transparency	The requirement requires using a process for review that is undefined. What constitutes an open review? What constitutes the requirements to fulfill an open review other than time?	This Requirement, by mandating a two-year process for approval, will have a negative impact on time for manufacturers to develop and market VVSG 2.0-compliant systems.
9.1.6-B Verified Cryptographic Protocol	This mandates the EAC to establish and implement a public process that does not currently exist and will delay the implementation of these standards. That process is currently undefined and which does not address the questions of who is responsible for setting criteria or for the evaluation.	
9.1.6-C Public availability of E2E cryptographic protocol implementation	This requirement is in conflict with established "defense in depth" principles. Additionally, any E2E implementation is likely to be interwoven with the software itself and hard to separate for public review.	
9.1.6-F Ballot receipt	There is no such thing as an interoperable format for this. Mandating receipt is overreach, and it is not clear how a system that is not allowed to be connected to a network can provide an electronic receipt.	

9.1.7-A Number of ballots to check		Scope This should not be the responsibility of the voting system manufacturer. This is a policy decision that should be made by the jurisdiction using the voting system. The voting system should be flexible enough to support audits but should not be involved in defining audits.
9.1.7-B No fixed margin of error		Scope This should not be the responsibility of the voting system manufacturer. This is a policy decision that should be made by the jurisdiction using the voting system. The voting system should be flexible enough to support audits but should not be involved in defining audits.
9.1.7-C Random number usage	This requirement is misplaced and should be placed under a more appropriate section such as Principle 2.	
9.2-A Compliance audit procedures	This requirement is ambiguous. Documentation must describe the functionality needed to support a compliance audit. The voting system should not define audit procedures. These should be defined by the jurisdictions conducting the audits.	
9.2-B General post-election audit procedures	This requirement is ambiguous. Documentation must describe the functionality needed to support a post-election audit.	

	The voting system should not define audit procedures. These should be defined by the jurisdictions conducting the audits.	
9.2-D Reporting intermediate results	Requirement is incomplete as "intermediate results" is not defined.	
9.2-E Reporting unusual audit events	The voting system should not be responsible for evaluating the success or failure of an audit. This should be the responsibility of the jurisdiction conducting the audit.	
9.2-F Reporting format	Needs to clarify what is being documented by whom.	
9.3-A Data protection requirements for audit records	Please refer to 13.1 and 13.2.	
All of 9.4 should be combined with the previous section to avoid redundancy.		
9.4-A Efficient compliance audit	There is no quantifiable way to measure what is and what is not efficient.	
9.4-B Efficient risk-limiting audit	There is no quantifiable way to measure what is and what is not efficient.	
9.4-C Unique ballot identifiers	Please see our responses from “unique identifiers.”	
9.4-D Multipage ballots	What is "appropriately manage," how do you quantify it?	

Principle 10: Ballot Secrecy

Principle 10 covers ballot secrecy and attempts to provide Requirements that protect the secrecy of voters' ballots. We wholeheartedly agree with the intent of this Principle, but several of the Requirements introduce uncertainly because they can be interpreted in multiple different areas, address features that are traditionally outside the scope of a voting system, or leave open to interpretation whether other requirements in different Principles are mandatory or optional.

For example, Requirement 10.2.1-B – Indirect voter associations, states that, "Only paperless systems may use indirect associations; other systems must not." However, the discussion in Requirement 9.1.1-A – Software independent, states, "One example of a software dependent voting system is the DRE, which is now non-conformant to this version of the VVSG."

Additionally, there are cases in which requirements are written in a way that is overly restrictive, which could lead to unnecessary implications to cost or development timelines. One example of this is 10.2.1.E – Isolated storage location, which states that, "Ballots that are not cast and contain an indirect association must be stored in separate storage locations from cast ballots." While the intent of this requirement may be that ballots still under consideration can't be inadvertently included in results, it does not leave manufacturers options for how this is addressed. Rather, it unnecessarily mandates a certain type of design and architecture.

Specific comments related to this section are below:

Requirement	Comment	Challenges
10.1-A System use of voter information	While we do not object to this requirement the exceptions are outside of the voting system in VVSG.	
10.2.1-B Indirect voter associations	It is unclear whether this requirement applies to all voting systems regardless of whether they employ E2E voting system architectures or not. This requirement would disallow the use of paper ballots for provisional voters or retrievable ballots, leaving paper-based systems non-compliant with either VVSG or HAVA.	
10.2.1-C Use of indirect voter associations	This requirement could be interpreted so that direct associations are not allowed in this situation or it could be interpreted so that indirect	

	associations may only be used in situations when the voter needs to fill out a ballot before their eligibility has been determined. Suggestion The requirement to strip associations before casting should be its own requirement and not just be discussed within the discussions.	
10.2.1-D Election worker selection of indirect associations	This requirement does not consider recallable ballots. For recallable ballots all early voting ballots must be marked with an indirect association. Requiring the election worker to select the option each time would introduce usability problems and human error.	
10.2.1-E Isolated storage location	This requirement is overly restrictive and mandates the design.	
10.2.1-F Confidentiality for indirect association	This requirement is overly restrictive it reduces auditability.	
10.2.2-D Non-memorable identifiers and associations	This requirement is not measurable, it does not protect against the threat it is trying to mitigate. Small portable cameras are abundant, and the voter will not necessarily need to use their memory. This also makes unique identifiers less usable for election officials.	
10.2.2-E Aggregating and ordering	What is the definition of “voter specific information”? Does this include unique write-ins entered by a voter? Situations where only one voter voted in the precinct? or just "information identifying a voter" as used in previous requirements?	

10.2.2-F Random number generation	Using “guidance from” is ambiguous and open to interpretation. Suggestion This requirement is misplaced, and Principle 2 is more appropriate.	
10.2.3-A Least privilege access to store	Memory location cannot be subject to the principle of least privilege; however, a system can protect access to the memory location. This requirement should be re-written from a system perspective.	
10.2.3-B Limited access	This requirement is unmeasurable.	
10.2.3-C Authorized access	This requirement reduces auditability and transparency. Assumes a specific system design and cannot be applied to removable media without embedding software on the removable media.	
10.2.3-D Digital voter record access log	This requirement is unnecessary.	Cannot be applied to removable media without embedding software on the removable media.
10.2.4-C Logging of ballot selections	The discussion seems to be concerned with releasing non-public data to the public; however, after tabulation aggregated ballot selections are public data.	
10.2.4-D Activation device records	Please define what an "activation device" is. Does this mean voting session start and end cannot be logged?	

Principle 11: Access Control

Hart fully agrees with the principle of strong access control and the general requirement to adhere to best practices, such as *ANSI INCIS 359-2004, American National Standard for Information Technology - Role Based Access Control*. Unfortunately, many of the requirements in this section are overly prescriptive. These requirements try to define a specific implementation which hinders innovation and flexibility. Often, this flexibility allows a single voting system to meet the disparate needs of multiple jurisdictions with conflicting use procedures dictated by local statute.

For example, the voter role, as mentioned in 11.2.2-B, should not exist. The voter is not a credentialed user to which the role can be assigned. Other required roles may hold more permissions than a jurisdiction wants for that role, violating the security principle of least privileges. Lastly, some operations exist in multiple stages and cannot be truly controlled by RBAC permissions, such as powering on or off (button pressed, or plug pulled).

VVSG 2.0 is better served requiring adherence to RBAC and other access control best practices without prescribing implementation details. This approach will allow the industry to innovate and meet customer needs while maintaining a strong security posture.

(In general section 11.2 is highly prescriptive and leaves little room for innovation.)

Requirement	Comment	Challenges
11.2.1-C Access control by voting stage	This requirement is overly prescriptive and assumes that all systems and all jurisdictions are organized in the same manner.	This requirement hinders flexibility in meeting the needs of each jurisdiction. It assumes certain separations that may be inappropriate for the circumstance. To a specific requirement, "powering off" there is no way to effectively control that through RBAC considering hard shutdowns (pulling the plug).
11.2.2-B Minimum groups or roles	The voter is not a credentialed user. This requirement is overly prescriptive and assumes that all systems and all jurisdictions are organized in the same manner.	This requirement hinders flexibility in meeting the needs of each jurisdiction. It assumes certain separations that may be inappropriate for the circumstance.
11.2.2-C Minimum group or role permissions	The voter is not a credentialed user.	This requirement hinders flexibility in meeting the needs of each jurisdiction. It assumes certain separations that may be

	This requirement is overly prescriptive and assumes that all systems and all jurisdictions are organized in the same manner.	inappropriate for the circumstance.
11.3.1-B Multi-factor authentication for critical operations	Requirement states "deleting or modifying the audit-trail". The audit-trail is required to be immutable and not deleted or modified on command.	Cost It will increase cost to the system to add multi-factor authorization to voting devices.
11.5-A Access time period	The requirement and the discussion do not match.	

Principle 12: Physical Security

Physical security is paramount, however the implementations described in this Principle are highly prescriptive and introduce new requirements that add significant cost and maintainability challenges. For example, UL 437 compliant locks are not widely available in a form factor suitable for incorporation into a voting device, and those that are available are at a significant cost premium. The design needed to support the alarm capability requirements described in section 12.1 quickly snowball into a Rube Goldberg solution that increases cost and complexity, which then serve to drive up failure rates, false alarms mitigations, maintainability, and safety concerns, given the addition of batteries that would be needed the support the requirements of 12.1-I. Tamper seals, locks, and tape, when properly vetted for the material, application, and judiciously applied, are a proven solution in the voting industry.

There are many instances throughout the Principal regulatory text that specify "Voting System" when the discussion that follows indicates the applicability to apply to the "Voting Device," for example in 12-1-D, 12.2-B, and 12.2-C. Hart suggests a change to "Voting Device" in these instances, to exclude applicability to the EMS, which is not used by voters or poll workers, and is found in a controlled and secure environment.

Requirement	Comment	Challenges
12.1-B Unauthorized physical access alarm		Cost Adding alarm capabilities to restricted device components will add cost to the voting devices as sensors will need to be added.
12.1-C Disconnecting a physical device		Cost Adding alarm capabilities will add cost to the voting devices as sensors will need to be added.
12.1-D Logging of physical connections and disconnections	How does the voting device connect to the voting system? Does this requirement apply to the EMS workstations in addition to the voting device?	Cost Adding alarm capabilities will add cost to the voting devices as sensors will need to be added.
12.1-E Logging door cover and panel status	Does this requirement apply to the EMS workstations in addition to the voting device? For example, the COTS workstations used in the EMS as part of the voting system do not	Adding alarm capabilities will add cost to the voting devices as sensors will need to be added.

	typically include door covers and panel status.	
12.1-G Secure physical locks	12.1-G #2 There is no definition of "physical indication" or a number of "attempts".	Cost UL 437 locks will significantly add costs to the system. As to the second sub-requirement, there may be no solution to meet this requirement, as a lock cannot track a picking attempt for example.
12.1-H Secure locking system key	Does this requirement apply to the EMS workstations in addition to the voting device? For example, the COTS workstations used in the EMS as part of the voting system do not typically have locking systems.	
12.1-I Backup power for power-reliant countermeasures	Requirement is not clear on which alarms must have back-up power. Also, alarms could potentially be triggered when the voting device is powered off and no logging is available.	Cost/Maintainability Adding back-up power increases requirements for batteries in the system which will increase cost and ongoing maintenance requirements.
12.1-H Secure locking system key	Does this requirement apply to the EMS workstations in addition to the voting device? For example, the COTS workstations used in the EMS as part of the voting system do not typically have locking systems.	Regulatory As currently defined, the EAC would potentially have to approve a new keying scheme with each change, as it would be a part number change against the certified system.
12.1-I Backup power for power-reliant countermeasures	Requirement is not clear on which alarms must have back-up power. Also, alarms could potentially be triggered when the voting device is powered off and no logging is available.	Cost/Maintainability Adding back-up power increases requirements for batteries in the system which will increase cost and ongoing maintenance requirements.
12.2-B Physical port auto-disable	Is this requirement referring to the "voting system" or "voting device"?	Usability

		Puts an undue burden on poll-worker when resolving the issue.
12.2-C Physical port restriction	Is this requirement referring to the “voting system” or “voting device”?	
12.2-E Logging enabled and disabled ports	Discussion reference error: Are you referring to 12.2-D? There is no 12.2-F to reference. "-whereas 12.2-F discusses logical disabling of ports."	

Principle 13: Data Protection

Requirement	Comment	Challenges
13.2-C Cryptographic verification of electronic voting records	Suggestion Please remove the words “be able to”: *“The EMS must cryptographically verify all electronic voting records.”*	

Principle 14: System Integrity

Hart fully supports the stated intent of Principle 14, *ensuring that the voting system provides redundancy against security failures, limits its attack surface, maintains and verifies the integrity of all critical components, and authorizes all software updates before they are installed*. Unfortunately, this section contains a significant number of ambiguous, untestable, or contradictory requirements. As mentioned in the opening section, good requirements are paramount to reducing both the time and cost associated with creating a compliant voting system that meets industry needs.

Also, logging boot validation failures is not always feasible. Any voting system that integrity checks the BIOS and firmware immediately upon power up will not have logging capabilities available. Attempting to log after that would require logging from a known, compromised system. Those logs are suspect and cannot be relied upon.

Requirement	Comment	Challenges
14.2-D Network status indicator		EAC should consider State requirements for wireless transmission of preliminary results.
14.2-E Wireless network status indicator	This requirement conflicts with 14.2-D.	
14.2-I Unused code	How is this requirement testable?	
14.2-J Exploit mitigation technologies within platform	What is the definition of "underlying platform"? For discussion, it is understood that most high-level operating system utilize exploit mitigation; however, what if the underlying platform incorporates microcontroller technology that does not include such support?	Microcontroller technology support and the lack of operating system functionality. For example, an embedded task loop within an MCU.
14.2-L Importing software libraries	How is this testable? Who determines what is practical?	
14.2-N Known vulnerabilities	What constitutes a "well-known" vulnerability?	

14.2-O List of known vulnerabilities	1) In conflict with 14.2-N. 2) What is the process for the certification authority to determine a "well-known vulnerability" is allowed?	
14.3-B Criticality analysis	A lot of additional process with no new benefit defined. Stated goal already addressed by 14.1-A Risk assessment documentation and 14.3-A - Supply chain risk management strategy	
14.3.1-C Logging of verification failure	Requirement does not account for validation prior to logging capability. For example, hardware-based validation of boot components.	If the system boot fails validation, then the system is technically compromised. As a compromised system, how can any new log entry be trusted?

Principle 15: Detection and Monitoring

Hart strongly agrees with the need for strong, robust malware protection. However, these requirements are written with the expectation that malware protection is black-list centric (signature definitions or heuristic rules). That is to say, the malware must first detect a threat before it can respond. Because of this perspective, VVSG 2.0 also requires malware protection features to allow for regular updates and basic management in order to handle new threats. Hart recommends malware protection requirements be written such that update, detection, remediation, and logging requirements only apply to malware protection relying on signature definitions or heuristic rules. Many of these requirements are inappropriate for a default-deny, signature-based, whitelisting system. Any ability to change the configuration can only weaken the voting system's security posture.

Similarly, there are networking related requirements that are potentially inappropriate for the voting system, namely mandating firewall settings be configurable. If the firewall is already configured to block all unnecessary ports and protocols for the voting system, there is no need for further configuration. Exposing that capability would weaken the security of the system instead.

Lastly, logging all integrity checks is not feasible. As mentioned in Principle 14, logging capability is not always available when an integrity check is made. And, any associated log will quickly become bloated for whitelisting applications that validate an executable every time it is loaded for execution.

Requirement	Comment	Challenges
15.2-C Logging errors	Per IEEE best practice the word "all" should not be used to define the bounds of the requirement.	
15.3.1-A Malware protection mechanisms	Requirement should define which COTS components must deploy malware protection mechanisms. For example, is this requirement targeting EMS COTS workstations, or is it also targeting connected COTS devices such as printers?	
15.3.1-B Updatable malware protection mechanisms	Requirement contradicts 15.3.1-A. This requirement mandates the ability to update on vote capture and tabulation without a requirement that malware protection be on vote capture and tabulation.	

15.3.1-D Notification of malware detection	Requirement should define which COTS components must deploy malware protection mechanisms. For example, is this requirement targeting EMS COTS workstations, or is it also targeting connected COTS devices such as printers?	In a default-deny configuration, whitelisting does not distinguish between malware and benign, unauthorized executables.
15.3.1-F Notification of malware remediation	Requirement should define which COTS components must deploy malware protection mechanisms. For example, is this requirement targeting EMS COTS workstations, or is it also targeting connected COTS devices such as printers?	
15.4-B Secure configuration documentation	What constitutes "relevant"?	
15.4-D Firewall and IDS		Why is this "may" instead of "must"?

This site is not secure

This might mean that someone's trying to fool you or steal any info you send to the server. You should close this site immediately.

Close this tab

More information

Your PC doesn't trust this website's security certificate.

Error Code: DLG_FLAGS_INVALID_CA

Go on to the webpage (not recommended)

Election Security Preparedness | Privacy error

Not secure | learn.techandciviclife.org/library/by/category/cybersecurity/

Apps New Tab TTP Dashboard Google Maps Inbox - chris.wlasch... Mail - Messcook on... Electronics, Cars, Fa... 1400 AM KLIN | Ne

Your connection is not private

Attackers might be trying to steal your information from **learn.techandciviclife.org** (for example, passwords, messages, or credit cards). Learn more

NET::ERR_CERT_AUTHORITY_INVALID

☐ Help improve Chrome security by sending URLs of some pages you visit, limited system information, and some page content to Google. Privacy policy

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U. S. ELECTION ASSISTANCE COMMISSION
VOTING SYSTEM TESTING AND CERTIFICATION PROGRAM
1335 East West Highway, Suite 4300
Silver Spring, MD 20910

June 23, 2020 **Sent via e-mail**

Ian Piper, Director of Certification
Dominion Voting Systems
1201 18th Street, Suite 210
Denver, CO 80202

Re: Initial Decision on Certification for Democracy Suite 5.5-C

Dear Mr. Piper,

This correspondence is to inform you that the Dominion Voting Systems Democracy Suite 5.5-C voting system completed the initial step towards receipt of an EAC certification. This Initial Decision on Certification represents an EAC acknowledgement that Democracy Suite 5.5-C has successfully completed conformance testing to the *Voluntary Voting System Guidelines version 1.0*.

However, as provided in §5.9 of the EAC's *Voting System Testing and Certification Program Manual* (Certification Manual), for an Initial Decision to become final and to issue a certification number and a Certificate of Conformance, a manufacturer must provide documentation to the Program Director verifying that the trusted build has been performed, software has been deposited in an approved repository, and system identification tools are available to election officials. A manufacturer must submit a letter, signed by both its management representative and a Pro V&V official, stating (under penalty of law) that it has:

1. Performed a trusted build consistent with the requirements of §5.6 of the EAC's Certification Manual;
2. Deposited software consistent with §5.7 of the EAC's Certification Manual;
3. Created and made available system identification tools consistent with §5.8 of the EAC's Certification Manual (a copy and description of the system identification tool developed must be provided with the letter); and
4. Upon a final decision to grant certification, the manufacturer accepts the certification and all conditions placed on the certification.

Upon receipt of documentation demonstrating the successful completion of the requirements above and recommendation of the Program Director, I will issue an Agency Decision granting certification and provide Democracy Suite 5.5-C with a certification number and Certificate of Conformance.

If you have any questions or need further information, please do not hesitate to contact Jerome Lovato at your earliest convenience. I thank you in advance for your time and attention to this matter.

Sincerely,

Mona Harrington

Mona Harrington
Executive Director
Decision Authority

Cc: Jerome Lovato, EAC
Wendy Owens, Pro V&V
Michael Walker, Pro V&V

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Town of Addison, ME
Township of Albion and Unity, ME
Town of Alfred, ME
Town of Anson, ME
Town of Appleton, ME
Town of Arundel, ME
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City of Augusta, ME
Town of Baileyville, ME
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Town of Ogunquit, ME
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City of Old Town, ME
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Town of Winthrop, ME
Town of Wiscasset, ME
Town of Woodland, ME
Town of Woodstock, ME
Town of Woolwich, ME
Town of Yarmouth, ME
Town of York, ME

U.S. Election Assistance Commission

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Manufacturer Registration Application

OMB Control # 3265-0004

1. Manufacturer Information

Legal Name of Business: Dominion Voting Systems, Inc.

Address of Business: 1201 18th Street, Suite 210

City: Denver **State** Colorado **ZIP Code:** 80,202

Organization Type: ☒ **Corporation** ☐ **Partnership** ☐ **Sole Proprietorship** ☐ **Other**

Names of Officers and/or Board of Directors and/or any and all Partners : John Poulos (President, Treasurer, and Secretary)

Name of Individual or Entity with Controlling Ownership in the Manufacturer: US Dominion, Inc., 1201 18th Street, Suite 210, Denver, CO 80202

2. Management Representative

First Name: Nick **Title:** VP, Development

Last Name: Ikonomakis **Middle Initial:**

Address: 1201 18th Street, Suite 210

City: Denver **State** Colorado

ZIP Code: 80,202 **Email:** nick.ikonomakis@dominionvoting.com

Phone Number: +1 (720) 257-5209 **FAX Number:**

3. Technical Representative

First Name: Ian **Title:** Certification Director

Last Name: Piper **Middle Initial:** S

Address: 1201 18th Street, Suite 210

City: Denver **State** Colorado

ZIP Code: 80,202 **Email:** ian.piper@dominionvoting.com

Phone Number: +1 (720) 257-5209 **FAX Number:**

4. Briefly describe your quality system (e.g. ISO 9001). Provide your written policies supporting this description as a part of this application :

Dominion's Quality Assurance Program is used to sustain and continuously improve the quality of its products and services in order to meet, and satisfy its customer's needs and expectations. This goal is achieved by practicing the following set of solutions:

• Involve users and customers (election personnel, legislative officials, test lab personnel, technicians and operators)
• Conform to state and local jurisdiction requirements
• Meet stated requirements and objectives
• Adhere to established standards and conventions
• Be functionally consistent with related components that also meets the dependencies used within a jurisdiction
• Constantly monitor a set of measurable quality objectives

---

5. Briefly describe your internal requirements for managing change control/version control for both hardware/firmware and software . Provide your written policies supporting this description as part of this application :

Dominion's change and version control processes follow ISO 20000 and ITIL best practices. There are different triggers for initiating and managing changes throughout the development life-cycle:
1. Incidents (reported bugs) – from internal System Test teams or from customers.
2. New features or functionality – from product management, system architects, etc.

Regardless of the reason for requesting a change in the system, the change management process is the same. Change Requests (CRs) are initiated and tracked in JIRA, which is an enterprise-grade system that provides issue tracking, collaboration, and release planning for software development teams. JIRA provides a centralized process for approval, scheduling and control of changes. The key attributes in our change management system are authorization and approval. To this end, the Change Control Board (CCB), consisting of Project Managers, System Architects and Team Leaders, must analyze

---

6. Briefly describe your document retention requirements . Provide your written policies supporting this description as part of this application :

Dominion's Document Retention Policy (DRP) is established to:
1. Retain important documents for reference, compliance with legal and government requirements and future use;
2. Delete documents that are no longer necessary for the proper functioning of Dominion;
3. Organize important documents for efficient retrieval; and
4. Ensure that Dominion employees know what documents should be retained, the length of their retention, means of storage, and when and how they should be destroyed.

Please see Dominion's "Document Retention Policy" for further details.

---

7. Please, list the Name, Street Address, City, State/Province, Country, Postal Code, and Telephone Number for all facilities used by your company to manufacture your voting system product :

Tabulators (ICP, ICP2 & ICE)
Supplier: Flex
Ship address: 12455 Research Blvd, Austin TX 78759
Contact: Robin Wilson
Office: (512) 653-4731
Main: (512) 425-7941
Email: robin.wilson@flex.com

8. Manufacturer Certification Agreement:

To maintain a voting system certification under the Election Assistance Commission (EAC) program, the manufacturer must agree to:

1. Represent a voting system as certified only when it is authorized by the EAC and consistent with the procedures and requirements of the Testing and Certification Program Manual (the Manual).

2. Produce and permanently affix an EAC certification label to all production units of the certified system.

3. Notify the EAC of changes to any system previously certified by the EAC pursuant to the requirements of the Manual.

4. Permit an EAC representative to verify manufacturer quality control by coordinating with EAC efforts to test and review fielded voting systems consistent with Section 8.6 of the Manual.

5. Permit an EAC representative to verify manufacturer quality control by conducting periodic inspections of manufacturing facilities consistent with Chapter 8 of the Manual.

6. Cooperate with any EAC inquiries and investigations into a certified system's compliance with voting system standards or the procedural requirements of the Manual.

7. Report to the Program Director any known malfunction of a voting system holding a current EAC Certification. A malfunction is defined as a failure of the voting system, not caused by operator or administrative error, which causes the system to fail or otherwise not operate as designed.

8. Certify that the manufacturer is not barred or otherwise prohibited by statute regulation or ruling from doing business in the United States.

9. Adhere to all procedural requirements of the Manual.

Signature: Ian Piper Digitally signed by Ian Piper Date: 2020.05.04 13:19:04 -04'00'

Title: Certification Director

Date: May 4, 2020

EAC Use Only

Manufacturer's Designation:

Notes:

Instructions:

This form provides for the registration of voting system manufacturers. Registration is the initial required step in the EAC Voting System Certification Program . This form is prescribed by Section 2.4 of the Manual. For more information on registration requirements please see Section 2.4 of the Manual.

This form is generally self-explanatory however the numbers and the instructions below correspond to the numbered sections of the form.

1. Manufacturer Information.

Names of Officers and/or Board of Directors and/or any and all Partners: Ensure that all individuals are identified by name, and title .
Name of Individual or Entity with Controlling Ownership in the Manufacturer: Ensure that the controlling individual is properly named and an address is provided.

2. Management Representative.

Please provide the name and information requested for the designated Manufacturer Representative pursuant to Section 2.3 of the Manual.

3. Technical Representative.
Please provide the name and information requested for the designated Technical Representative pursuant to Section 2.3 of the Manual.

4, 5 and 6
Provide the information listed and attach to your submission the wriiten documentation required by Section 2.3.1 of the Manual.

7. Manufacurer Certification Agreement
Manufacturers are required to take or abstain from certain actions consistent with the certification program. Your concurrence to these requirements is signified by affixing the signature of the manufacturer representative.

This information is required for the EAC to provide for the certification of voting systems as required by 42 U.S.C. Section 15371. This information will be used solely to administer the EAC Testing and Certification Program. This program is voluntary, however, individuals who wish to participate must meet the requirements of the Program. This information will be made public consistent with the requirements of the Freedom of Information Act, the Trade Secrets Act, and any other applicable Federal law or regulation. Public reporting burden for this collection of information is estimated to average about 9.75 hours for completion of this form. This estimate includes the time for reviewing the instructions, gathering information and completing the form. Send comments regarding this burden estimate to the Testing and Certification Program Director, Election Assistance Commission, 1225 New York Avenue, N.W., Suite 1100, Washington, DC 20005. Notwithstanding any other provision of law, no person is required to respond to, nor shall any person be subject to a penalty for failure to respond to, or comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number.

U.S. Election Assistance Commission

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Manufacturer Registration Application

OMB Control # 3265-0004

1. Manufacturer Information

Legal Name of Business: Hart InterCivic

Address of Business: 15500 Wells Port Drive

City: Austin State: Texas ZIP Code: 78728

Organization Type: ☑ Corporation ☐ Partnership ☐ Sole Proprietorship ☐ Other

Names of Officers, Board of Directors, and all Partners: Board of Directors:
Devin Talbott (Chairman)

Name of Individual or Entity with Controlling Ownership in the Manufacturer: Enlightenment Capital

2. Management Representative

First Name: Pamela Title: Director, Certification and Propos

Last Name: Geppert Middle Initial:

Address: 15500 Wells Port Drive

City: Austin State: Texas

ZIP Code: 78728 Email: pgeppert@hartic.com

Phone Number: 512.626.4130 FAX Number: 866.391.1834

3. Technical Representative

First Name: Pamela Title: Director, Certification and Propos

Last Name: Geppert Middle Initial:

Address: 15500 Wells Port Drive

City: Austin State: Texas

ZIP Code: 78728 Email: pgeppert@hartic.com

Phone Number: 512.626.4130 FAX Number: 866.391.1834

4. Briefly describe your quality system (e.g. ISO 9001). Provide your written policies supporting this description as a part of this application:

Hart's Quality Management System is based on ISO-9001:2000.
Hart's ISMS is based on ISO-27001

5. Briefly describe your internal requirements for managing change control/version control for both hardware/firmware and software. Provide your written policies supporting this description as part of this application:

Hart's Document Control system is based on a Product Lifecycle Management system and supporting documentation for hardware and software definition, development, and maintenance.

6. Briefly describe your document retention requirements . Provide your written policies supporting this description as part of this application :

Hart's data/document retention requirements provide a minimum retention period of 7 years.

7. List the name, address, city, state/province, country, postal code, and phone number for all facilities used by your company to manufacture your voting system product, and the name, title, address, email address, and phone number for a person at each facility:

Virtex Enterprises
Virtex Enterprises
Contact: Eric Wichmann
Title: General Manager
12234A N Interstate Hwy 35
Austin, TX 78753
eric.wichmann@virtexassembly.com

8. Manufacturer Certification Agreement:

To maintain a voting system certification under the Election Assistance Commission (EAC) program, the manufacturer must agree to:

1. Represent a voting system as certified only when it is authorized by the EAC and consistent with the procedures and requirements of the Testing and Certification Program Manual (the Manual).

2. Produce and permanently affix an EAC certification label to all production units of the certified system.

3. Notify the EAC of changes to any system previously certified by the EAC pursuant to the requirements of the Manual.

4. Permit an EAC representative to verify manufacturer quality control by coordinating with EAC efforts to test and review fielded voting systems consistent with Section 8.6 of the Manual.

5. Permit an EAC representative to verify manufacturer quality control by conducting periodic inspections of manufacturing facilities consistent with Chapter 8 of the Manual.

6. Cooperate with any EAC inquiries and investigations into a certified system's compliance with voting system standards or the procedural requirements of the Manual.

7. Report to the Program Director any known malfunction of a voting system holding a current EAC Certification. A malfunction is defined as a failure of the voting system, not caused by operator or administrative error, which causes the system to fail or otherwise not operate as designed.

8. Certify that the manufacturer is not barred or otherwise prohibited by statute regulation or ruling from doing business in the United States.

9. Adhere to all procedural requirements of the Manual.

Pam Geppert

Signature (handwritten or digital)

Director, Certification and Propos

Title:

05/11/2020

Date:

EAC Use Only

Manufacturer's Designation:

Notes:

Instructions:

This form provides for the registration of voting system manufacturers. Registration is the initial required step in the EAC Voting System Certification Program. This form is prescribed by Section 2.4 of the Manual. For more information on registration requirements please see Section 2.4 of the Manual.

This form is generally self-explanatory however the numbers and the instructions below correspond to the numbered sections of the form.

1. Manufacturer Information.

Names of Officers and/or Board of Directors and/or any and all Partners: Ensure that all individuals are identified by name, and title.
Name of Individual or Entity with Controlling Ownership in the Manufacturer: Ensure that the controlling individual is properly named and an address is provided.

2. Management Representative.

Please provide the name and information requested for the designated Manufacturer Representative pursuant to Section 2.3 of the Manual.

3. Technical Representative.
Please provide the name and information requested for the designated Technical Representative pursuant to Section 2.3 of the Manual.

4, 5 and 6
Provide the information listed and attach to your submission the written documentation required by Section 2.3.1 of the Manual.

7. Manufacturer Certification Agreement
Manufacturers are required to take or abstain from certain actions consistent with the certification program. Your concurrence to these requirements is signified by affixing the signature of the manufacturer representative.

This information is required for the EAC to provide for the certification of voting systems as required by 42 U.S.C. Section 15371. This information will be used solely to administer the EAC Testing and Certification Program. This program is voluntary, however, individuals who wish to participate must meet the requirements of the Program. This information will be made public consistent with the requirements of the Freedom of Information Act, the Trade Secrets Act, and any other applicable Federal law or regulation. Public reporting burden for this collection of information is estimated to average about 9.75 hours for completion of this form. This estimate includes the time for reviewing the instructions, gathering information and completing the form. Send comments regarding this burden estimate to the Testing and Certification Program Director, Election Assistance Commission, 1335 East West Highway, Suite 4300, Silver Spring, MD 20910. Notwithstanding any other provision of law, no person is required to respond to, nor shall any person be subject to a penalty for failure to respond to, or comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number.

U.S. Election Assistance Commission

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Manufacturer Registration Application

OMB Control # 3265-0004

1. Manufacturer Information

Legal Name of Business: Unisyn Voting Solutions, Inc.

Address of Business: 2310 Cousteau Court

City: Vista State: CA ZIP Code: 92081

Organization Type: ☒ Corporation ☐ Partnership ☐ Sole Proprietorship ☐ Other

Names of Officers, Board of Directors, and all Partners:
Jeffrey M. Johnson - Board Member
Christopher T. Ortiz - Board Member

Name of Individual or Entity with Controlling Ownership in the Manufacturer:
International Lottery & Totalizator Systems, Inc.

2. Management Representative

First Name: Chris Title: Director, Certification

Last Name: Ortiz Middle Initial: T

Address: 2310 Cousteau Court

City: Vista State: CA

ZIP Code: 92081 Email: cortiz@unisynvoting.com

Phone Number: 7607343218 FAX Number: 7605981655

3. Technical Representative

First Name: Chris Title: Director, Certification

Last Name: Ortiz Middle Initial: T

Address: 2310 Cousteau Court

City: Vista State: CA

ZIP Code: 92081 Email: cortiz@unisynvoting.com

Phone Number: 7607343218 FAX Number: 7605981655

4. Briefly describe your quality system (e.g. ISO 9001). Provide your written policies supporting this description as a part of this application:

Unisyn (ILTS) has documented and implemented a quality management system that satisfies the requirements of ISO 9001: 2015 (ANSI/ASQC Q91). The system encompasses the VVSG Configuration Management Plan requirements and extends beyond those requirements into areas of continual improvement of our internal performance in pursuit of these objectives.
Our ISO program is audited and reviewed bi-annually. All written procedures and practices are reviewed by an external certification service (i.e. DQS Inc) as well as internally through an internal audit process.

5. Briefly describe your internal requirements for managing change control/version control for both hardware/firmware and software. Provide your written policies supporting this description as part of this application:

Unisyn utilizes the AccuRev Software Configuration Management Product. The AccuRev client application is installed on all development machines and is connected securely to the central AccuRev server. The AccuRev version control feature manages file revisions stored in an archive and allows proper tracking of source code and other project files. To track release/versions of the OVS software, the Development team uses AccuRev's 'snapshot' functionality. A 'snapshot' of a file, or group of files, is made at an instant in time, typically when a release or baseline is being established. Documents (TDP, software development and QA) are checked out/in to AccuRev to make sure they are using the most recent file version. When a new version is checked in, the prior version is archived. The previous versions can be

6. Briefly describe your document retention requirements . Provide your written policies supporting this description as part of this application :

All documents are reviewed and approved prior to issue.
Software, TDP and QA Documents are stored in AccuRev and are subject to change control. Releases of these documents are maintained in a separate approval and release system.
Engineering Documents are controlled as defined in the Engineering Document Control Instruction per ISO 9001 : 2015 requirements.

7. List the name, address, city, state/province, country, postal code, and phone number for all facilities used by your company to manufacture your voting system product, and the name, title, address, email address, and phone number for a person at each facility:

Unisyn Voting Solutions
2310 Cousteau Court
Vista, CA 92081

Tom Vorndran
Manager of Tech Ops
tvorndran@ilts.com

8. Manufacturer Certification Agreement:

To maintain a voting system certification under the Election Assistance Commission (EAC) program, the manufacturer must agree to:

1. Represent a voting system as certified only when it is authorized by the EAC and consistent with the procedures and requirements of the Testing and Certification Program Manual (the Manual).

2. Produce and permanently affix an EAC certification label to all production units of the certified system.

3. Notify the EAC of changes to any system previously certified by the EAC pursuant to the requirements of the Manual.

4. Permit an EAC representative to verify manufacturer quality control by coordinating with EAC efforts to test and review fielded voting systems consistent with Section 8.6 of the Manual.

5. Permit an EAC representative to verify manufacturer quality control by conducting periodic inspections of manufacturing facilities consistent with Chapter 8 of the Manual.

6. Cooperate with any EAC inquiries and investigations into a certified system's compliance with voting system standards or the procedural requirements of the Manual.

7. Report to the Program Director any known malfunction of a voting system holding a current EAC Certification. A malfunction is defined as a failure of the voting system, not caused by operator or administrative error, which causes the system to fail or otherwise not operate as designed.

8. Certify that the manufacturer is not barred or otherwise prohibited by statute regulation or ruling from doing business in the United States.

9. Adhere to all procedural requirements of the Manual.

Chris Ortiz

Digitally signed by Chris Ortiz
DN: cn=Chris Ortiz, o=Unisyn Voting Solutions, ou, email=cortiz@unisynvoting.com, c=US
Date: 2020.05.04 12:49:08 -07'00'

Signature (handwritten or digital)

Director, Certification

Title:

05/04/2020

Date:

EAC Use Only

Manufacturer's Designation:

Notes:

Instructions:

This form provides for the registration of voting system manufacturers. Registration is the initial required step in the EAC Voting System Certification Program. This form is prescribed by Section 2.4 of the Manual. For more information on registration requirements please see Section 2.4 of the Manual.

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Name of Individual or Entity with Controlling Ownership in the Manufacturer: Ensure that the controlling individual is properly named and an address is provided.

2. Management Representative.

Please provide the name and information requested for the designated Manufacturer Representative pursuant to Section 2.3 of the Manual.

3. Technical Representative.
Please provide the name and information requested for the designated Technical Representative pursuant to Section 2.3 of the Manual.

4, 5 and 6
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Manufacturer Registration Application

OMB Control # 3265-0004

1. Manufacturer Information

Legal Name of Business: Hart InterCivic

Address of Business: 15500 Wells Port Drive

City: Austin State: Texas ZIP Code: 78728

Organization Type: ☑ Corporation ☐ Partnership ☐ Sole Proprietorship ☐ Other

Names of Officers, Board of Directors, and all Partners: Board of Directors:
Devin Talbott (Chairman)

Name of Individual or Entity with Controlling Ownership in the Manufacturer: Enlightenment Capital

2. Management Representative

First Name: Pamela Title: Director, Certification and Propos

Last Name: Geppert Middle Initial:

Address: 15500 Wells Port Drive

City: Austin State: Texas

ZIP Code: 78728 Email: pgeppert@hartic.com

Phone Number: 512.626.4130 FAX Number: 866.391.1834

3. Technical Representative

First Name: Pamela Title: Director, Certification and Propos

Last Name: Geppert Middle Initial:

Address: 15500 Wells Port Drive

City: Austin State: Texas

ZIP Code: 78728 Email: pgeppert@hartic.com

Phone Number: 512.626.4130 FAX Number: 866.391.1834

4. Briefly describe your quality system (e.g. ISO 9001). Provide your written policies supporting this description as a part of this application:

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Hart's ISMS is based on ISO-27001

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6. Briefly describe your document retention requirements . Provide your written policies supporting this description as part of this application :

Hart's data/document retention requirements provide a minimum retention period of 7 years.

7. List the name, address, city, state/province, country, postal code, and phone number for all facilities used by your company to manufacture your voting system product, and the name, title, address, email address, and phone number for a person at each facility:

Virtex Enterprises
Virtex Enterprises
Contact: Eric Wichmann
Title: General Manager
12234A N Interstate Hwy 35
Austin, TX 78753
eric.wichmann@virtexassembly.com

8. Manufacturer Certification Agreement:

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1. Represent a voting system as certified only when it is authorized by the EAC and consistent with the procedures and requirements of the Testing and Certification Program Manual (the Manual).

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9. Adhere to all procedural requirements of the Manual.

Pam Geppert

Signature (handwritten or digital)

Director, Certification and Propos

Title:

05/11/2020

Date:

EAC Use Only

Manufacturer's Designation:

Notes:

Instructions:

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3. Technical Representative.
Please provide the name and information requested for the designated Technical Representative pursuant to Section 2.3 of the Manual.

4, 5 and 6
Provide the information listed and attach to your submission the written documentation required by Section 2.3.1 of the Manual.

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Quality Manual

This document is authorized for public release. Copyright © 2002-2016, Hart InterCivic, Inc.	**Hart InterCivic**	
	Part Number: 1000490	REV: D.04
	Part Name: Quality Manual	
	PDF File Name: Quality Manual 1000490 D04.pdf	Page 1 of 21

Change History

Version	Date	Author	Description
1	7/5/06	SH	Initial draft
2	7/13/06	SH	Revisions based on Management Staff review
3	7/20/06	SH	Revisions based on ISO auditor/consultant review
4	8/22/06	SH	Revisions to complement and be consistent with QMS procedures
A	9/1/06	KK	Revisions based on Management Staff review
B	12/19/06	KK	Revisions after BSI Audit to detail permissible exclusions; fix typos; add Appendix A
C	3/15/07	AR	Updated the “Proprietary and Confidential” statement
D	8/15/12	TWF	Update to Hart’s current processes and procedures
D.01	1/42013	TWF	Align document revision numbering as stated in the Hart’s Document Control process
D.02	4/01/2013	TWF	Revision change due to Agile issue
D.03	5/19/2015	TWF	Update for new Doc Control Process, file naming convention
D.04	9/23/2016	Hart InterCivic	Update to add reference to CM Quality Management Procedure in 8.5 Added detail to 4.3.3 Control of records.

Table of Contents

1 INTRODUCTION 6
2 SCOPE 6
3 DEFINITIONS 6
4 QUALITY MANAGEMENT SYSTEM 6
4.1 General Requirements 6
4.2 QMS Process Overview 7
4.3 Documentation Requirements 7
4.3.1 General 7
4.3.2 Control of Documents 8
4.3.3 Control of Records 8
5 MANAGEMENT RESPONSIBILITY 8
5.1 Management Commitment 8
5.2 Customer Focus 9
5.3 Quality Policy 9
5.4 Planning 9
5.4.1 Quality Objectives 9
5.4.2 Quality Management System Planning 9
5.5 Responsibility, Authority and Communication 9
5.5.1 Responsibility and Authority 9
5.5.2 Management Representative 10
5.5.3 Internal Communication 11
5.6 Management Review 11
5.6.1 General 11
5.6.2 Review Input 11
5.6.3 Review output 11
6 RESOURCE MANAGEMENT 11
6.1 Provision of Resources 11
6.2 Human Resources 12
6.2.1 General 12
6.3 Work Environment 12
7 PRODUCT REALIZATION 12
7.1 Planning of Product Realization 12
7.2 Customer-Related Processes 12

7.2.1 Determination of Requirements Related to the Product 12
7.2.2 Review of Requirements Related to the Product 13
7.2.3 Customer Communication 13
7.3 Design and Development 13
7.3.1 Design and Development Planning 13
7.3.2 Design and Development Inputs 13
7.3.3 Design and Development Outputs 13
7.3.4 Design and Development Review 14
7.3.5 Design and Development Verification 14
7.3.6 Design and Development Validation 14
7.3.7 Control of Design and Development Changes 14
7.3.8 Design Transfer 14
7.3.9 Design History File 14
7.4 Purchasing 14
7.4.1 Purchasing Process 14
7.4.2 Purchasing Information 15
7.5 Production and Service Provision 15
7.5.1 Control of Production and Service Provision 15
7.5.2 Identification and Traceability 16
7.5.3 Customer Property 16
7.5.4 Preservation of Product 16
8 ANALYSIS AND IMPROVEMENT 16
8.1 General 16
8.1.1 Customer Feedback and Satisfaction 17
8.2 Control of Nonconforming Material 17
8.3 Analysis of Data 17
8.4 Improvement 17
8.4.1 General 17
8.4.2 Corrective and Preventive Action 18
8.5 Manufacturing Quality Management 18
APPENDIX A: HART QUALITY MANUAL MATRIX 19

Statement of Policy

Hart InterCivic operates and maintains a documented QUALITY MANAGEMENT SYSTEM (QMS) implemented from the intentions defined in ISO 9001:2000 Quality Management Systems – Requirements.

The requirements of the QUALITY MANUAL extend to all employees who have responsibility for implementing and maintaining the procedures detailed or referenced.

The SENIOR STAFF with executive responsibility has approved the QUALITY MANUAL for issue and implementation within Hart InterCivic.

All Hart InterCivic employees are given the responsibility and authority to identify and resolve problems, and to control further processing of potentially affected product including preventing shipment of potentially non-conforming products, until satisfactory corrective action has been taken.

This QUALITY MANUAL is the property of Hart InterCivic and shall not be copied in whole or in part without written permission of the SENIOR STAFF.

Hart's Quality Statement

"Hart InterCivic is committed to consistently providing high quality products and services for its customers through adherence to its established Quality Management System, complying with customer, statutory and regulatory requirements, and a commitment to continual improvement.

Hart InterCivic is committed to the capability, integrity, and the security of our product development process as well as the capability, integrity, and security of Hart Products."

1 INTRODUCTION

Hart InterCivic designs, develops, integrates, and oversees the contract manufacturer of government solutions, including records and election management applications, election systems software and hardware products that improve, or make possible, cost effective government processes.

2 SCOPE

The QUALITY MANUAL is an "executive summary" of the Quality Management System (QMS) that demonstrates Hart InterCivic's capability to safely and effectively design, develop, integrate, publish and oversee the contract manufacturer of government solution products. The QMS covers all internal operations, and the control of external operations, required to meet the requirements specified in the *Statement of Policy* and customer and product requirements.

3 DEFINITIONS

Please see *Terminology* for standard definitions.

4 QUALITY MANAGEMENT SYSTEM

4.1 General Requirements

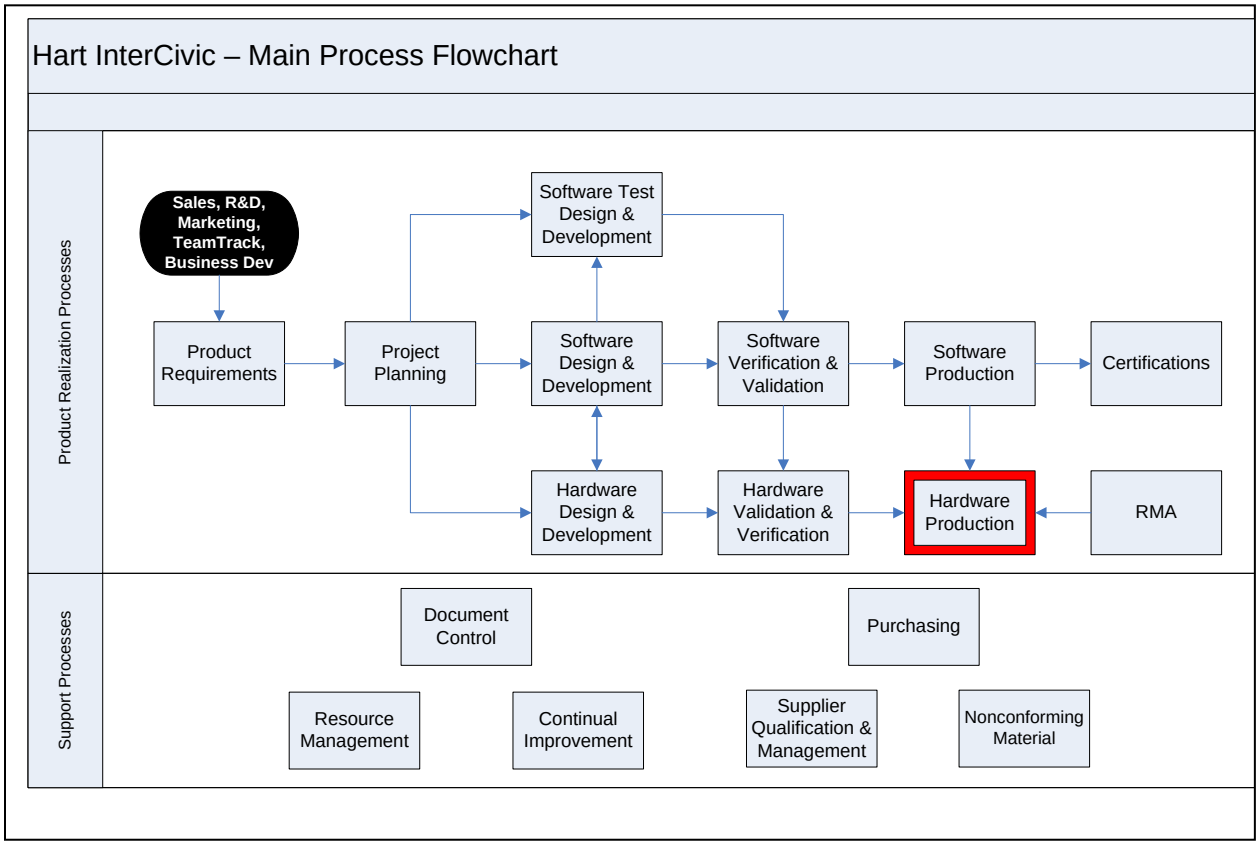
Hart InterCivic has established, documented, implemented and maintained a QMS in accordance with the applicable requirements of the Standards and regulations identified in the *Statement of Policy*. The QMS includes:

- identification of processes needed for the QMS and their application through the organization;
- determining the sequence and interaction of these processes;
- determining criteria and methods needed to ensure that both the operation and control of these processes are effective;
- ensuring the availability of resources and information necessary to support the operation and monitoring of these processes;
- monitoring, measuring and analysis of these processes, and
- implementing actions necessary to achieve planned results and maintaining the effectiveness and continual improvement of these processes.

These processes are managed in accordance with the QMS and the requirements of those Standards and regulations. Any processes that are outsourced are appropriately controlled and identified within the QMS.

Hart InterCivic's CHANGE CONTROL BOARD is informed of any major changes in the QUALITY SYSTEM.

4.2 QMS Process Overview



Processes with red background depict outsourced processes.

4.3 Documentation Requirements

4.3.1 General

Hart InterCivic has established QMS documentation that includes:

- a documented statement of Quality Policy and quality objectives;
- a QUALITY MANUAL;
- procedures, forms, work instructions, specifications, etc. to meet the Quality Policy, quality objectives, customer and product requirements;
- records to demonstrate conformance to specified requirements and effectiveness of the QMS; and
- any other documentation specified by national or regional regulations.

A PRODUCT RECORD is established and maintained for each product that either contains or identifies QMS DOCUMENTS defining product specifications and quality management system requirements. These QMS DOCUMENTS define, if applicable, the development process, installation and servicing.

4.3.2 Control of Documents

Procedures are established and maintained to control QMS DOCUMENTS, including EXTERNAL DOCUMENTS. QMS documents can be in the form of any type of media such as hard copy or electronic media. Controls ensure that documents remain legible and readily identifiable at all times.

QMS DOCUMENTS are reviewed and approved for adequacy by authorized personnel prior to issue. Changes to controlled QMS DOCUMENTS are reviewed, approved and issued in accordance with current procedures. The designated functions/organizations have access to pertinent background information with which to base their review and approval. Approved changes are communicated to the appropriate personnel in a timely manner.

Controls ensure that pertinent revisions of appropriate QMS DOCUMENTS are available on the network to personnel or locations where operations are performed. Obsolete QMS DOCUMENTS retained for legal and/or knowledge preservation purposes are suitably identified.

Obsolete QMS DOCUMENT retention times are established in the RECORDS RETENTION MATRIX.

Records of document changes are maintained by Hart's Product Lifecycle Management process, Software Versioning process, and Product Documentation processes.

4.3.3 Control of Records

Procedures are established and maintained for the identification, storage, protection, retrieval, retention and disposition of QUALITY RECORDS. QUALITY RECORDS are maintained to demonstrate conformance to specified requirements and effectiveness of the QMS.

QUALITY RECORDS are captured and stored electronically whenever possible to be readily retrievable. Hardcopy QUALITY RECORDS are legible, and are stored in facilities that provide a suitable environment to minimize damage, deterioration and loss.

QUALITY RECORDS shall log defect type, severity of issue found, release version, assigned engineer who conducted the test, test results, test date, and date test was completed.

QUALITY RECORD retention times are established in the RECORDS RETENTION MATRIX.

5 MANAGEMENT RESPONSIBILITY

5.1 Management Commitment

Hart InterCivic SENIOR STAFF is committed to the development and implementation of the QMS, and maintaining and continually improving its effectiveness by:

- communicating to employees the importance of meeting customer, statutory and regulatory requirements;
- observing the Quality Policy;
- ensuring that quality objectives are established;
- conducting management reviews; and
- ensuring that resources are available as necessary.

5.2 Customer Focus

Procedures are established and maintained for the determination of customer and product requirements, to ensure that these requirements are met and that customer satisfaction is maximized.

5.3 Quality Policy

Hart InterCivic's SENIOR STAFF has developed and agreed upon the following policy for quality and information security that is understood, implemented and maintained by all employees:

> ***"Hart InterCivic is committed to consistently providing high quality products and services for its customers through adherence to its established Quality Management System, complying with customer, statutory and regulatory requirements, and a commitment to continual improvement.***
>
> ***Hart InterCivic is committed to the capability, integrity, and the security of our product development process as well as the capability, integrity, and security of Hart Products."***

The Quality Policy is posted within the Hart InterCivic facility.

5.4 Planning

5.4.1 Quality Objectives

Hart InterCivic SENIOR STAFF defines and documents quality objectives. These include, but are not limited to, management review quality objectives and customer design requirements. Quality objectives are consistent with the Quality Policy.

5.4.2 Quality Management System Planning

Quality planning is performed to define and document how quality requirements and objectives are met. This includes, but is not limited to, the QUALITY MANUAL and Procedures, product realization planning, supplier evaluation, and product documentation.

The generation of QUALITY RECORDS to provide objective evidence of compliance is an integral part of the quality planning process.

5.5 Responsibility, Authority and Communication

5.5.1 Responsibility and Authority

Hart InterCivic SENIOR STAFF defines, documents and communicates employee responsibility and authority in job descriptions that are structured within an organization chart as presented in *Figure 2: Hart InterCivic Organization Structure*.

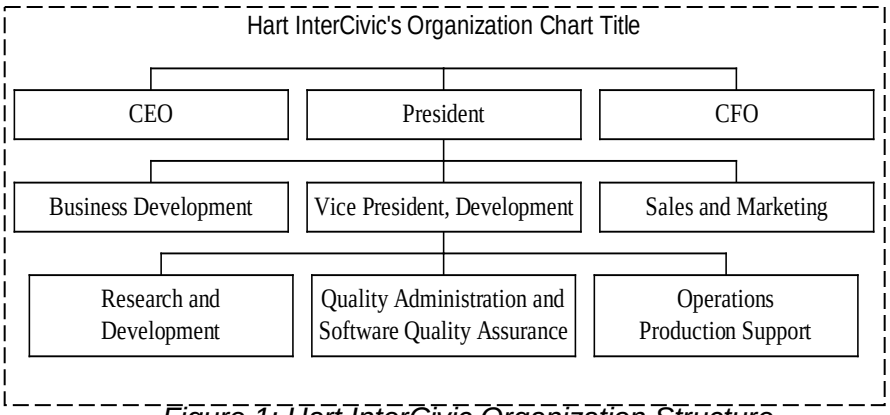


Figure 1: Hart InterCivic Organization Structure

Primary functional area responsibilities are provided in *Table 1: Functional Area Primary Responsbilities*.

Functional Area	*Primary Responsibilities*
Sales and Marketing	Market definition and profile analysis, product planning, requirements development, product life cycle management, customer service, advertising and sales, pricing, communications, and POST-MARKET SURVEILLANCE.
Operations and Production Support	Process development and documentation, product technical support, sustaining engineering and production support, equipment maintenance and calibration, purchasing, MATERIAL control, shipping and receiving, and COMPLAINT investigation.
Quality Administration and Software Quality Assurance	QUALITY MANAGEMENT SYSTEM development and management, incoming INSPECTION, document change processing, national standards representation, product compliance, COMPLAINT administration, product surveillance and field actions.
Research and Development	New product and technology development, product planning and release management, hardware and software design and development, product certification and approvals, COMPLAINT investigation, research and reliability engineering.
Administration	General and network administration, facilities management and financial activities.
All Functions	Job descriptions and training record retention, recruiting, hiring and co-worker relations, and information security.

Table 1: Functional Area Primary Responsbilities

When an employee is not available for signature, the employee's direct supervisor has signing authority in the employee's absence.

5.5.2 Management Representative

The specific responsibilities of the Management Representative are:

- ensuring that processes needed for the QMS are established, implemented and maintained;

- reporting to SENIOR STAFF on the performance of the QMS and any need for improvement, and
- ensuring the promotion of awareness of regulatory, customer and product requirements throughout the organization.

5.5.3 Internal Communication

Hart InterCivic SENIOR STAFF ensures that communication processes are established, and that communication regarding QMS effectiveness occurs. These communication processes may include, but are not limited to meetings, project status reports, the company website, the CAPA process, etc.

5.6 Management Review

5.6.1 General

Hart InterCivic SENIOR STAFF reviews the suitability, adequacy and effectiveness of the QMS at least annually. During the reviews, quality objectives are defined and documented in support of the Quality Policy, and progress toward achievement is evaluated and tracked. Hart InterCivic SENIOR STAFF assigns responsibility for tracking and reporting on quality objectives.

Records of management reviews are maintained as QUALITY RECORDS.

5.6.2 Review Input

Management review agenda items to be reviewed annually include, but are not limited to:

- Internally generated data, process and product quality trends, NONCONFORMING MATERIAL reports (NMRs), corrective and preventive action status, previous management review minutes, recommendations for QMS improvement, supplier issues and quality performance measures; and
- Externally generated data such as customer feedback, service reports, field information, regulatory changes and other surveillance data that may affect the QMS.

5.6.3 Review output

Management review minutes are generated to document management decisions and actions which include, but are not limited to:

- QMS process improvements;
- customer requirement improvements to enhance customer satisfaction; and
- resource requirements.

6 RESOURCE MANAGEMENT

6.1 Provision of Resources

Adequate resources are determined and provided to:

- meet and enhance customer satisfaction by meeting customer and product requirements.

6.2 Human Resources

6.2.1 General

Employee competency is determined based on education, skills, background, training, and/or experience, as required by job descriptions.

All individuals have the education, training, skills and/or experience required to perform their job function unsupervised. Individuals who have not yet completed the minimum job requirements must work under the supervision of a trained employee.

If the work of a contractor or consultant affects the QMS and is unsupervised and/or not reviewed by an employee, a job description and training record is maintained for that contractor or consultant. If the work is supervised and/or reviewed by an employee, the employee is responsible for the work and a job description and training record is not required for the contractor or consultant.

6.3 Work Environment

The work environment at Hart InterCivic is determined and managed to ensure that customer, safety, and product requirements are successfully fulfilled.

Procedures and requirements are established and maintained, if necessary, for the work environment conditions and documented procedures or work instructions to monitor and control these work environment conditions if work environment conditions can have an adverse effect on product quality.

All personnel who are required to work temporarily under special environmental conditions within the work environment are appropriately trained or supervised by a trained person.

Records for qualified processes, equipment and personnel are maintained.

7 PRODUCT REALIZATION

7.1 Planning of Product Realization

Procedures are established and maintained for product realization planning activities to ensure that customer and product requirements are met. As part of the product realization planning activities, the following are determined:

- product quality objectives and requirements
- necessary processes, documents and resources specific to the product
- verification, validation, monitoring, inspection and test activities specific to the product
- product acceptance criteria

Records of product realization activities are maintained.

7.2 Customer-Related Processes

7.2.1 Determination of Requirements Related to the Product

The Hart Product Management team is responsible for managing the process that determines customer and product requirements, stated and unstated, necessary in the development of its products.

7.2.2 Review of Requirements Related to the Product

The Hart Product Management team is responsible for managing the review of requirements related to its products prior to the commitment to supply a product to the customer.

7.2.3 Customer Communication

Effective arrangements for customer communications are determined and implemented with customers regarding the following:

- product information;
- enquiries, contracts or order handling including amendments;
- customer feedback, including customer complaints; and
- field actions.

7.3 Design and Development

7.3.1 Design and Development Planning

Procedures are established and maintained to plan and control product and process design and development activities.

Hart InterCivic implements a stage gate design and development process that guides concurrent development of the product and the associated production processes and support services. A cross-functional project team led by a Project or Program Manager executes projects within the process and Hart InterCivic senior staff reviews, analyzes and approves the project throughout the stage gate process.

Project plans are established and maintained that describe the design and development activities and define responsibility for their implementation. Design and development activities are assigned to qualified personnel equipped with adequate resources. Project plans are reviewed, updated, and approved as the design and development evolves.

Project management using cross-functional teams requires organizational and technical interfaces between various functional departments involved in design and verification activities. These interfaces are identified in the project plan.

7.3.2 Design and Development Inputs

Procedures are established and maintained to ensure that product requirements are appropriate, address functional, performance, safety requirements, risk management, and project impact is well understood and agreed upon by major stakeholders.

A review process for addressing incomplete, ambiguous, or conflicting requirements is provided.

The products requirements are reviewed and approved by designated individuals and include the date and the person(s) approving the document.

7.3.3 Design and Development Outputs

Procedures are established and maintained to ensure that design output meets design input requirements for design and development, provide appropriate information for purchasing, production and for service provision, contains or references acceptance criteria, conforms to appropriate regulatory requirements and identifies those design characteristics that are crucial to safe, reliable, and proper functioning of the product. Design outputs are established and maintained in a form that enables verification against design and development inputs.

The product record, verification and validation results, when necessary the product Technical Data Package, and the declaration of certification, comprise the design outputs that establish

the specifications and procedures of the finished product, and show compliance with the product requirements.

Design outputs are reviewed and approved prior to release.

7.3.4 Design and Development Review

Procedures are established and maintained to ensure that formal documented reviews of the design results are planned and conducted at appropriate stages of the product's design development. The procedures ensure that participants at each design review include representatives of all functions concerned with the design stage being reviewed, as well as specialists or third parties such as suppliers where appropriate. Appropriately skilled individuals are assigned to participate in the design reviews.

Records of design reviews and any necessary actions are maintained.

7.3.5 Design and Development Verification

Procedures are established and maintained for design verification at appropriate stages of the design to ensure that the design stage output meets the design stage input requirements.

Records of verification activities and any necessary actions are maintained.

7.3.6 Design and Development Validation

Procedures are established and maintained for design validation to ensure that product conforms to defined user needs and intended uses. Design validation is performed in accordance with the project plan, under defined operating conditions and on initial production units or their equivalents.

Design validation activities are successfully completed prior to the distribution of product.

Records of validation activities and any necessary actions are maintained.

7.3.7 Control of Design and Development Changes

The prerelease section of the Document Controls procedure is used for the review and approval of design changes prior to implementation.

Records of design changes and any necessary actions are maintained.

7.3.8 Design Transfer

The Document Controls procedure is used for design transfer to ensure that design and development outputs are verified as suitable for manufacturing before becoming final production specifications.

Records of design transfer activities and any necessary actions are maintained.

7.3.9 Design History File

A SharePoint Project File (SPF) or design history file is established and maintained for each product or project. The SPF contains or references the records necessary to demonstrate the design was developed in accordance with the approved project plan and the requirements of the Quality Manual.

7.4 Purchasing

7.4.1 Purchasing Process

Procedures are established and maintained to ensure purchased or otherwise received products and services conform to specified requirements. The requirements, including quality

requirements, which suppliers, subcontractors and consultants must meet, are established and maintained.

Procedures are established and maintained to evaluate and select suppliers based on their ability to meet specified requirements, including quality requirements, and define the type and extent of control exercised over the product, services, suppliers, subcontractors, and consultants based on the evaluation results. Criteria for selection, evaluation and maintenance are established.

7.4.2 Purchasing Information

Purchasing information is established and maintained that clearly describes or references the specified requirements, including quality requirements, for purchased MATERIAL. The purchasing information includes a description of the MATERIAL ordered, and information on quantity, delivery, test, and specification and performance requirements as necessary. Purchasing documents are reviewed and approved for adequacy prior to release.

Records of purchasing information are maintained.

7.5 Production and Service Provision

7.5.1 Control of Production and Service Provision

7.5.1.1 General Requirements

Procedures are established and maintained to plan and control any service activities under controlled conditions to ensure that product and equipment conforms to its specifications. Controlled conditions may include, but are not limited to product characteristics information, work instructions (WIs), suitable equipment, monitoring and measuring devices, process monitoring and/or measurement, release, delivery and post-delivery activities and defined operations for labeling and packaging.

Procedures are also established and maintained to provide direction and control of all external contract manufacturing to ensure that product conforms to its specifications.

DEVICE HISTORY RECORDS (DHRs) and/or LOT HISTORY RECORDS (LHRs) are established and maintained by the party responsible for the manufacture of each product or batch of products to provide evidence the product(s) was manufactured according to the PRODUCT RECORD, and identifies the amount manufactured and amount approved for distribution.

7.5.1.2 Specific Requirements

7.5.1.2.1 Installation Activities

Procedures are established and maintained for installing and verifying the installation of the products, component devices and software applications. These procedures include acceptance criteria.

If installation is performed other than by the organization or its authorized agent, the organization provides documented requirements for installation and verification.

Records of installation and verification performed by the organization or its authorized agent are maintained.

7.5.1.2.2 Servicing Activities

Procedures are established and maintained for servicing, if necessary. These procedures include documented procedures, work instructions and reference materials and reference

measurement procedures, as necessary, for performing servicing activities and verifying that they meet the specified requirements.

Records of servicing activities carried out by the organization are maintained.

7.5.2 Identification and Traceability

7.5.2.1 Identification

Procedures are established and maintained for identifying product during all stages of product realization to prevent mix-ups. Serial or lot numbers are used to identify each unit or lot of components that Hart InterCivic chooses to track. The procedure to assign serial and/or lot numbers helps facilitate corrective action.

Records of serial and lot numbers are maintained in the DHR.

7.5.2.2 Traceability

Procedures are established and maintained for identifying product after product realization and during distribution. Serial or lot numbers are used to identify each individual or batch of finished products. The procedure to assign serial and/or lot numbers helps facilitate corrective action.

Records of serial and lot numbers are maintained in the DHRs and LHRs.

7.5.2.3 Status Identification

Procedures are established and maintained for identifying product status during all stages of product realization, installation and servicing to ensure that only product compliant with published specifications is distributed.

7.5.3 Customer Property

If necessary, procedures are established and maintained for handling customer property, including intellectual property, with care while it is within Hart InterCivic's facility. Customer property is identified, verified, protected and safeguarded. If customer property is lost, damaged or otherwise found to be unsuitable for use, the customer is notified and records are maintained.

7.5.4 Preservation of Product

Procedures are established and maintained for identification, handling, packaging, storage, protection, preservation and delivery of purchased and finished product to preserve product conformity to specified requirements.

If purchased and finished product has a limited shelf life, procedures are established and maintained for special handling and control.

Records of special storage conditions, if necessary, are maintained.

8 ANALYSIS AND IMPROVEMENT

8.1 General

Procedures are established and maintained for monitoring, measurement, analysis and improvement processes to:

- demonstrate product conformity;
- ensure QMS conformity; and
- maintain and continually improve QMS effectiveness.

These procedures may include, if necessary, the identification and application of statistical techniques.

8.1.1 Customer Feedback and Satisfaction

Procedures are established and maintained for monitoring customer perception and whether the product has met customer requirements. Potential sources of customer data may include, but are not limited to customer complaints, customer and user surveys, market needs, competitive information and POST-MARKET SURVEILLANCE activities.

8.2 Control of Nonconforming Material

Procedures are established and maintained to ensure that product that does not conform to requirements is prevented from unintended use or distribution. NONCONFORMING MATERIAL is identified, segregated, documented, evaluated and removed from use. Appropriate functional areas are notified of NONCONFORMING MATERIAL.

Procedures are established and maintained for the responsibility, review and disposition of NONCONFORMING MATERIAL. When required, the proposed use or repair of product that does not conform to specified requirements is reported for concession to the customer or relevant authority. NONCONFORMING MATERIAL is only accepted by concession if all regulatory requirements are met.

Rework of NONCONFORMING MATERIAL, if necessary, is performed according to documented rework instructions reviewed and approved by the same functions as the original work instructions. As part of the review and approval process, a determination of any adverse effect of the rework upon product is made and documented. Reworked product is reevaluated as required by the product documentation.

When NONCONFORMING MATERIAL is detected after distribution, action is taken appropriate to the effects, or potential effects, or the nonconformity including when necessary, field actions.

Records of NONCONFORMING MATERIAL activities, including the individual(s) authorizing disposition of NONCONFORMING MATERIALS, are maintained.

8.3 Analysis of Data

Procedures are established and maintained to determine, collect and analyze appropriate data to demonstrate the suitability and effectiveness of the QMS, and to evaluate where continual improvement of the QMS may occur. Data analysis provides information relating to customer feedback and satisfaction, conformity to product requirements, process and product characteristics and trends, and suppliers.

Records of the results of data analysis are maintained.

8.4 Improvement

8.4.1 General

Procedures are established and maintained to identify and implement changes necessary to maintain the effectiveness of the QMS, and to continually improve the effectiveness of the QMS, through the use of the Quality Policy, quality objectives, audit results, data analysis, corrective and preventive actions and management review.

Procedures are established and maintained to perform field actions when deemed necessary to ensure the appropriate use of Hart InterCivic's products by customers.

Procedures are established and maintained for administration, determination and investigation of customer complaints, including the evaluation of each customer complaint for adverse events. If an adverse event is noted, appropriate regulatory agencies are notified.

If customer complaint investigations require contributions from outside Hart InterCivic, relevant information is exchanged as necessary. Complaints not followed by corrective and/or preventive action have a documented rationale.

Records of complaint administration, determination and investigation are maintained.

8.4.2 Corrective and Preventive Action

Procedures are established and maintained to eliminate the causes of existing and potential nonconformities in order to prevent recurrence. Corrective and preventative actions taken to eliminate causes of nonconformities are appropriate with regards to the problems and risks that may be encountered.

The procedure defines requirements for reviewing existing and potential nonconformities, investigating the causes of the nonconformities, evaluating whether corrective or preventive action is needed to prevent reoccurrence, determining and implementing needed corrective or preventive action including updating documentation if necessary, recording the results of investigation and corrective or preventive action, and reviewing the effectiveness of corrective or preventive action taken.

8.5 Manufacturing Quality Management

Hart devices are manufactured at VirTex Enterprises LP. Hart has selected a contract manufacturer with a robust quality system that is structured and certified to comply with the requirements of ISO 9001:2008. See the Q01 QUALITY MANUAL REV R.

Appendix A: HART QUALITY MANUAL MATRIX

Quality Manual	*Reference*	*Procedures/Documentation*
2.0 Scope	1000490	Quality Manual
3.0 Definitions	1000490	Quality Manual
4.1 Quality System General	1000490	Quality Manual
4.2.1 Documentation Requirements General 4.2.2 Quality manual 4.2.3 Control of Documents 4.2.4 Control of Quality Records	1000490 1000490 1000538 1000510 1000418	Quality Manual Quality Manual Document Control Record Retention Matrix Classification and Signature Matrix
5.1 Management Commitment	1000490	Quality Manual
5.2 Customer Focus	-	Hart Support Online (HSO)
5.3 Quality Policy	1000490	Quality Manual
5.4.1 Quality Objectives 5.4.2 Quality Management System Planning	1000490	Quality Manual
5.5.1 Responsibility and Authority 5.5.2 Management Representative 5.5.3 Internal communication	1000490	Quality Manual
5.6.1 Management Review General 5.6.2 Review Input 5.6.3 Review Output	1000490	Quality Manual
6.2.1 Resources General	1000561	Resource Management

6.2.2 Job Descriptions 6.2.3 Competence, Awareness and Training 6.2.3.1 Required Training for All Employees 6.2.3.2 Training Plan and Record Development	1000561 1000561 1000561	
6.3 Infrastructure	1000561	Resource Management
6.4 Work Environment	1000561	Resource Management
7.1 Planning of Product Realization	1000488	Project Planning
7.2.1 Determination of Requirements Related to the Product 7.2.2 Review of Requirements Related to the Product 7.2.3 Customer Communication	1000487 1000487 1000490 1000487	Product Requirements Quality Manual Product Requirements
7.3.1 Design and Development Planning 7.3.2 Design and Development Inputs 7.3.3 Design and Development Outputs 7.3.4 Design and Development Review 7.3.5 Design and Development Verification 7.3.6 Design and Development Validation 7.3.7 Control of Design and Development Changes	1000487 1000488 1000513 1000566 1000560 1000508 1000514 1000539 1000565 1000538	Product Requirements Project Planning Hardware Design and Development Software Design and Development Software Verification and Validation Software Test Design and Development Hardware Verification and Validation State Certifications Independent Test Authority (ITA) Document Control

Quality Manual	*Reference*	*Procedures Forms*
8.3 Control of Nonconforming Material	1000500 1000518 1000543 1000657 1000658	Debit Return of Hart Supplied Material Return Material Authorization (RMA) Information Approval (Form) Return Material Authorization (RMA) Packing Slip (Form) Control of Nonconforming Product RMA Colorado – Product Evaluation (Form)
8.4 Analysis of Data	1000490 1000563 1000536 1000659	Quality Manual Supplier Qualification and Management (Procedures) Supplier Questionnaire (Form) Approved Supplier List (ASL) Change Request (Form)
8.5.1 General	1000550	Continual Improvement
8.5.2 Corrective and Preventive Action	1000550	Continual Improvement
8.5.2 Corrective and Preventive Action	1000550	Continual Improvement

Records Retention Matrix

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Hart InterCivic	
Part Number: 1000510	REV: E.02
Part Name: Records Retention Matrix	
PDF File Name: Records Retention Matrix 1000510 E02.pdf	Page 1 of 4

Change History

Version	Date	Author	Description
1	9/12/2006	SH	Revision
A	9/18/2006	KK	Initial Release
B	10/14/2006	KK	Revised to correct the location files and add missing records
C	3/15/2007	AR	Updated the "Proprietary and Confidential" statement
D	11/1/2007	PL	Udpated to include the addition of
E	8/15/2012	TWF	Update to current processes
E.01	3/7/2013	Hart InterCivic	Update to current version conventions
E.02	5/19/2015	Hart InterCivic	Update to current filenaming conventions

Record Type	Process	Media Format	Location	Retention Time (in years)	Owner	Disposition
Certifications	State Certification/ITA Process	Electronic and/or Paper	SharePoint/Intranet	7	Document Control	Delete or shred
Corrective and Preventive Action Reports	Continual Improvement	Electronic	Agile	7	Document Control	Delete
Customer Feedback	Continual Improvement	Electronic	SharePoint/Intranet	7	Sales	Delete
Nonconforming Material Report	Continual Improvement	Electronic	Agile	7	Engineering	Delete
Functional Specifications	Design & Dev	Electronic	Agile, SharePoint/Intranet	7	Engineering	Delete
Peer, External and Cross-Functional Design Reviews	Design & Dev, Verification & Validation	Electronic and/or Paper	SharePoint/Intranet, Design History File	7	Engineering, Software QA	Delete or shred
Engineering Change Order	Document Control	Electronic	Agile	7	Document Control	Delete
Signature Authenticity	Document Control	Paper	Agile	Term of employee employment	Document Control	Shred
First Article Inspection	Hardware Verification and Validation	Electronic	SharePoint/Intranet, Design History File	7	Engineering	Delete
Management Review Agenda, Presentation and Minutes	Management Review	Electronic	SharePoint/Intranet	7	Compliance	Delete
Management Review Action Items	Management Review	Electronic	Agile	7	Compliance	Delete
Products Requirement Document (PRD)	Product Requirements	Electronic	Agile/SharePoint	7	Product Management	Delete
Project Plan	Project Planning	Electronic	SharePoint/Intranet, Design History File	7	Program Management	Delete
Project Scope Changes	Project Planning	Electronic	SharePoint/Intranet, Design History File	7	Program Management	Delete
Master Test Plan	Project Planning	Electronic	SharePoint/Intranet, Design History File	7	Software Quality Assurance	Delete
Design Specifications	Project Planning	Electronic	Agile, SharePoint/Intranet, Design History File	7	Engineering	Delete
Design History File	Project Planning	Electronic and/or Paper	SharePoint/Intranet, Design History Files in Engineering	7	Program Management	Delete or shred
Purchase Order	Purchasing	Paper	Purchasing	7	Purchasing - Austin	Trash
Shipping Documents: Packing List, Packing Slip, etc.	Purchasing	Paper	Purchasing	7	Purchasing - Austin	Trash
Job Descriptions	Resource Management	Electronic	SharePoint/Intranet	Term of employee employment + 7 years	Office Manager	Delete
Training Records	Resource Management	Paper	Office Manager Training Files	Term of employee employment + 7 years	Office Manager	Shred
Employee Training Plan	Resource Management	Paper	Office Manager Training Files	Term of employee employment + 7 years	Office Manager	Shred
Employee Performance Evaluation	Resource Management	Paper	HR Austin	Term of employee employment + 7 years	HR Austin	Shred
Background Checks	Resource Management	Paper	HR Austin	Term of employee	HR Austin	Shred
Proprietary Information and Intellectual Properties Assignment Agreement	Resource Management	Paper	HR Austin	Term of employee employment + 7 years	HR Austin	Shred
Confidentiality Agreements	Resource Management	Paper	HR Austin	Term of employee employment + 7 years	HR Austin	Shred
Reciept of Employee Handbook	Resource Management	Paper	HR Austin	Term of employee employment + 7 years	HR Austin	Shred
Rules for Acceptable Use of Assets	Resource Management	Paper	Office Manager Training Files	Term of employee employment	Office Manager - IT Department	Shred

Record Type	Process	Media Format	Location	Retention Time (in years)	Owner	Disposition
Equipment Use Agreement (signed)	Resource Management	Paper	Office Manager Training Files	Term of employee employment	Office Manager - IT Department	Shred
New User Form (signed/completed)	Resource Management	Paper	Office Manager Training Files	Term of employee employment	Office Manager - IT Department	Shred
Development Testing	Software Design & Dev	Electronic and/or paper	SharePoint/Intranet, Design History File	7	Engineering	Delete or shred
Test Scripts	Software Test Design & Dev	Electronic	Agile	7	Software Quality Assurance	Delete
Approved Supplier List	Supplier Management	Electronic	Purchasing	7	Purchasing - Austin	Delete
Stop Ship	Supplier Management	Electronic	Agile	7	Engineering	Delete
Supplier Evaluation, forms, review and approval	Supplier Management	Electronic and/or Paper	Purchasing	7	Purchasing - Austin	Delete or shred
CM Quarterly Business Review	Supplier Management	Electronic	SharePoint/Intranet	7	Purchasing - Austin	Delete
Risk Assessment Matrix and Residual Risk acceptance	Hart IT Policy	Electronic	Agile	7	Compliance	Delete
Documented Information Security Responsibilities	Hart IT Policy	Electronic	SharePoint/Intranet	Term of employee employment	Office Manager	Delete
Information Security Team (Members)	Hart IT Policy	Electronic and/or Paper	SharePoint/Intranet & Posted	7	Compliance	Delete/ Shred
BCP Test Plans	Business Continuity Management	Electronic	SharePoint/Intranet	7	Compliance	Delete
BCP Test Results	Business Continuity Management	Electronic	SharePoint/Intranet	7	Compliance	Delete
Review of the Facility Access control	Business Continuity Management	Electronic	SharePoint/Intranet	7	Compliance	Delete
Records of Fire alarm testing	Business Continuity Management	Electronic	SharePoint/Intranet	7	Compliance	Delete
Records of Evacuation Drill	Business Continuity Management	Electronic	SharePoint/Intranet	7	Compliance	Delete
Security Incident Reports (completed)	Incident Management Procedure	Electronic	SharePoint/Intranet	7	Compliance	Delete
SharePoint/Intranet Configuration Diagram	Hart IT Policy	Electronic	SharePoint/Intranet	7	IT	Delete
Audit Logs (as required)	Hart IT Policy	Electronic and/or Paper	SharePoint/Intranet	7	IT	Delete/ Shred
Fault Logs	Hart IT Policy	Electronic and/or Paper	SharePoint/Intranet	7	IT	Delete/ Shred
UPS monitor/test records	Hart IT Policy	Electronic and/or Paper	SharePoint/Intranet	7	IT	Delete/ Shred
Equipment Maintenance Records	Hart IT Policy	Electronic and/or Paper	SharePoint/Intranet	7	IT	Delete/ Shred
Disposal of Equipment Records	Hart IT Policy	Electronic and/or Paper	SharePoint/Intranet	7	IT	Delete/ Shred

Highlighted blocks denotes process grouping

Software Verification and Validation Process

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	Hart InterCivic	
	Part Number: 1000560	REV: D.02
	Part Name: Software Verification and Validation Process	
	PDF File Name: Software Verification and Validation Process 1000560 D02.pdf	Page 1 of 6

Change History

Version	Date	Author	Description
1	7/06/06	MB	Initial Draft
2	8/31/06	MB	Revision
3	9/08/06	MT	Revision
A	9/21	KK	Initial Release
B	3/15/07	AR	Updated the “Proprietary and Confidential” statement
C	08/17/2012	TWF	Update to current processes
D.00	03/07/2013	Hart InterCivic	Update file naming and version conventions
D.01	11/13/2014	Hart InterCivic	TDP Discrepancy update
D.02	05/19/2015	Hart InterCivic	Update for new Doc Control Process, file naming convention

Table of Contents

1 PURPOSE 4
2 INFORMATIVE REFERENCES 4
3 FLOW CHART 4
4 SOFTWARE QUALITY ASSURANCE PROCESSES 4
4.1 Functional Test 4
4.2 Integration And Regression Tests 5
4.3 Final Regression Tests 5
4.4 Other Tests 5
5 SOFTWARE ENGINEERING PROCESSES 6
5.1 Software Update 6
5.2 Software Validation 6

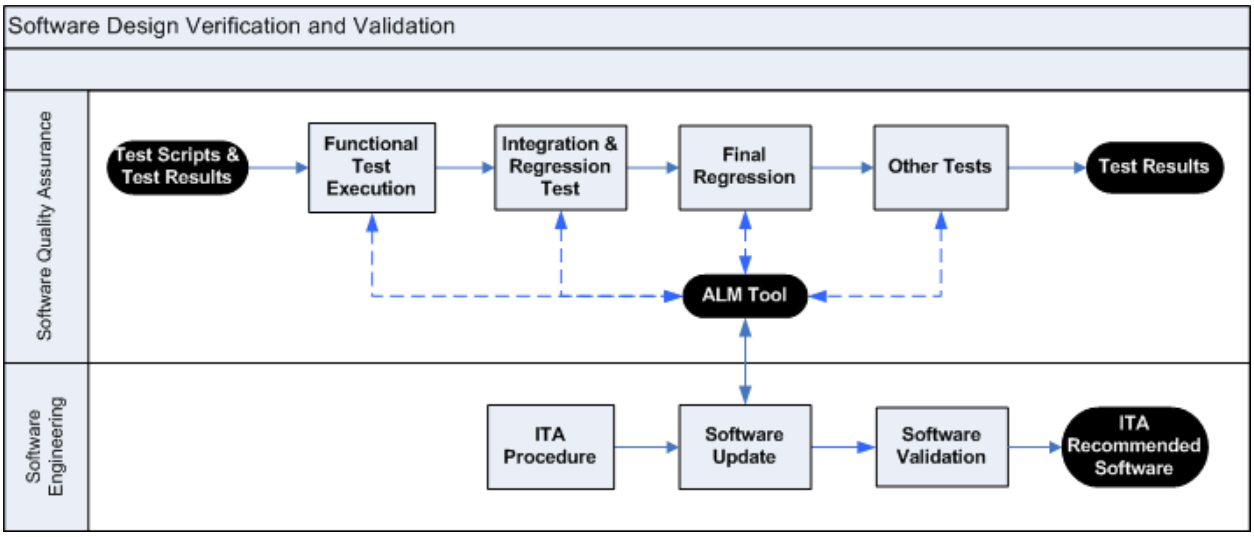
1 PURPOSE

The purpose of this procedure is to outline the steps necessary to verify and validate that the software meets all design input such as Functional Specifications and Product Requirements..

2 INFORMATIVE REFERENCES

- ISO9001:2000 5.2 Customer focus
- ISO9001:2000 7.3 Design and development

3 FLOW CHART



4 SOFTWARE QUALITY ASSURANCE PROCESSES

4.1 Functional Test

Functional testing is performed when a software feature(s) is complete as indicated by the software developer or Application LifeCycle Management (ALM) Tool. Functional testing is the process of running Test Cases within a feature specific Test Script to verify the application meets the functional objectives, documented in the Master Test Plan, Functional Specifications and Product Requirements. Defects found are entered into the ALM Tool to help with software debugging.

Exit criteria as described in the Master Test Plan will be considered for defect prioritization and resolution. Records of the Functional Test execution are maintained in the projects repository in compliance with the Records Matrix.

4.2 Integration And Regression Tests

Integration testing is the process of verifying the interfaces between system components. Defects found are entered into ALM Tool to help with software debugging.

Regression Test focuses on executing the functional test scripts (or sub-set of test scripts) after a build has been identified as a release candidate. The test will verify that functionality has not been broken during the defect fix process and the software is ready for release. Software Quality Assurance identifies which test scripts will be executed and is responsible for obtaining concurrence from the Software Engineering team.

Records of Integration and Regression Tests are maintained in the projects repository in compliance with the Records Matrix.

4.3 Final Regression Tests

Final Regression Tests consist of running Installation Tests as well as Sanity Checks, as applicable. Defects found are entered into the ALM Tool to help with software debugging.

Records of Final Regression Tests are maintained in the projects repository in compliance with the Records Matrix.

4.4 Other Tests

Additional tests may be developed to run such as Installation Tests, Performance Tests, etc. Results from the execution of these tests will be captured in corresponding Test Results spreadsheets. Defects found during these tests will be entered into ALM Tool to help with software debugging.

Records of any other tests developed and executed are maintained in the projects repository in compliance with the Records Matrix.

5 SOFTWARE ENGINEERING PROCESSES

5.1 Software Update

As the Software Quality Assurance performs test and enters the information in the ALM tool, the software team fix problems based on their severity according to the Defect Quadrant Sheet. Development testing is conducted as required in the Project Plan before submitting a new version to Software QA.

5.2 Software Validation

Where applicable, software validation consists of conducting Witness Build by ITA and User Acceptance Test (UAT).

Under these circumstances, the Witness Build process requires the Software Engineering group to submit a Test Plan and submit it to the ITA for sign-off. When requested, the ITA will witness a build of the software at Hart InterCivic's premises or at a remote location. Recommendation by the ITA is achieved if the software has passed the ITA requirements.

Software Versioning

Procedure

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	Part Number: 1001070	REV: C.05
	Part Name: Software Versioning Procedures	
	PDF File Name: Software Versioning Procedure 1001070 C05.pdf	Page 1 of 15

Change History

Version	Date	Author	Description
0.1	7/11/06	RH	Initial Creation
0.2	7/21/06	RH	After initial comments from review members
0.3	7/28/06	RH	Updates after comments from MB
0.4	12/08/06	RH	Updates after comments from BJ
A	2/7/07	SH	Final edits
B	3/15/07	AR	Updated the "Proprietary and Confidential" statement
C.00	08/17/2012	TWF	Update to current processes
C.01	06/04/2014	Hart InterCivic	Changed version descriptions
C.02	10/01/2014	Hart InterCivic	Added versioning for small memory MCU products
C.03	11/11/2014	Hart InterCivic	TDP discrepancy update Update to file naming convention
C.04	07/12/2018	Hart InterCivic	Added clarifications to Section 1: Overview to define document scope. Added clarifications to Section 2: System Version
C.05	04/13/2020	Hart InterCivic	Update language for readability and clarity throughout. Update Section 2: Version & Release to accurately define quadruplet names, which were inconsistent throughout the section. Section 2: Version & Release, "Scope" changed to more accurate "Example". Version number changed from "Example" to "Format."

Table of Contents

SECTION 1. INTRODUCTION 4
OVERVIEW 4
DEFINITIONS 4
SECTION 2. VERSION & RELEASE 5
OVERVIEW 5
MAJOR VERSION 7
MINOR VERSION 8
MAINTENANCE VERSION 9
BUILD VERSION 10
SYSTEM VERSIONS CONTAINING MULTIPLE PRODUCTS OR COMPONENTS 11
COMPATIBILITY 11
SECTION 3. VERSION CONTROL 12
SECTION 4. BUILD ARCHIVING 13
SECTION 5. BUILD LABELS 14

SECTION 1. INTRODUCTION

OVERVIEW

Software versioning procedures must be clearly defined within an organization to support, maintain, and trace applications that are released to its customers. Versioning is also used to identify customers that need to be notified when updates are available for them that improve system behaviors applicable to their needs.

This purpose of this document is to define consistent versioning throughout the software lifecycle. This document assumes that the reader has a reasonable understanding of the following concepts: the software lifecycle, software lifecycle applications, version numbers, build numbers, automated software builds, production builds, version control, version control practices, software compatibility, archiving software builds and several Software Quality Assurance (SQA) processes.

Please Note: The procedures described in this document are intended to define and describe conventions that are applied for purposes of tracking the software lifecycle. Software versions do not inherently signify the status of a given system configuration for purposes of federal or state certification. Hart's product management team makes such designations, based on applicable standards.[1]

DEFINITIONS

Software - Machine-readable instructions and data (and copies thereof) including middleware and firmware.

Release - Means any software, related updates or upgrades, licensed materials, user documentation, user manuals, and operating procedures that have been or will be made generally available to entities outside of Hart.

Version - The term "version" used in the context of computer software is a specific "revision" of the software. The version of the software product changes with each modification in the software.

Build label – An entity that exists within a revision control system that describes the state of a software project at some point in time and provides access to a manifest of files and directories such that the state of the project can be recreated from the label.

[1] For additional information on the process by which system designations are made for purposes of certification, see ***Configuration Management Process 1001074***.

SECTION 2. VERSION & RELEASE

OVERVIEW

Versions and Releases are denoted using a quadruplet of integers to indicate Major, Minor, Maintenance, and Build version numbers; Build numbers are for internal tracking and verification of the software build process and will not be visible to customers are part of the software version number. The rationale and rules to be used in assigning a version number are addressed later in this document.

NOTE: Software written for hardware controllers shall not be required to support the versioning described below, e.g. possibly be due to resource restrictions of the MCU and associated memory.

<**MAJOR**>.<**MINOR**>.<**MAINTENANCE**>.<***BUILD***>

The above standard notation will be used to express the version. Each integer section is called a segment. Each segment is divided from other segments by a decimal point and the segments are described from left to right. For instance, we would use segment 1 to describe the position of the <MAJOR> value in the quadruplet or version. Each section of the quadruplet is referred to as a level or number (e.g. Major release level 1 or Build number 599).

Example:

"2.4.7.*1333*"

The version above is referenced as version 2.4.7

Where: Major release is 2, Minor release is 4, Maintenance release is 7 and Build is not used except for internal tracking/deployments, e.g. SQA validation.

Any Minor and Maintenance child versions will be reset when their parent version is incremented or reset. Build revisions will never be reset to 0, the file repository system controls the Build revision. When a version level is incremented the value will an integer and incremented by 1.

Example:

Reported version	Original version	CASE 1: Next Major version	CASE 2: Next Minor version	CASE 3: Next Maintenance version	CASE 4: Next Build
Internal	2.4.7.3214	3.0.0.5	2.5.0.111	2.4.8.1234	2.4.7.4321
External	2.4.7	3.0.0	2.5.0	2.4.8	2.4.7

If the current version is 2.4.7, the table above describes the outcome of creating the next Major, Minor, Maintenance, and Build versions.

Explanation of the preceding example:

Case 1 - Describes the creation of a new Major version where the Major number is incremented by 1, from Major level 2 to a value of 3. The effect of this change is that the Minor version is reset to 0, the Maintenance version is reset to 0, and the Build version is not reset.

Case 2 - Describes the creation of a new Minor version where the Minor version number is incremented from 4 to 5. The Maintenance version is reset to 0, and the Build is not reset.

Case 3 - When the Maintenance number is incremented from 7 to 8, the Build number is *not* reset to zero.

Case 4 - Describes the next Build. The Build revision is controlled by the file repository system, e.g. SVN.

The following example describes how to reference versions based on the values contained in the integer quadruplet. If the Maintenance level is 0 and the Minor level also has the value of 0 then it is not required that the Minor and Maintenance levels be spoken in casual speech. When this information is included within an application, such as an about screen, all levels except the Build must be present to properly identify the software release. This is important when both reporting and replicating defects for resolution.

Example:

- 3.0.0.5 – Would be reported as “version 3.0.0” by the software
- 3.0.1.8 - Would be reported as “version 3.0.1” by the software
- 2.5.0.6 - Would be reported as “version 2.5.0” by the software
- 2.4.8.1 - Would be reported as “version 2.4.8” by the software

MAJOR VERSION

A **Major version** release is a significant branch of the software. Major version numbers are generally incremented by the product management team, and typically communicate a significant change to the product. As noted in the "Definitions" section, software releases with a changed Major version number are still considered revisions, or modifications, of prior software releases.

The Major version number is identified by digits to the left of the first decimal point (e.g., x.0, segment 1 with a placeholder value of x).

General:

- Major version release may contain Minor and Maintenance numbers.
- **May** be accompanied by a branch of the code base within version control for further Minor and/or Maintenance version development.

Example:

- A product wide change to the coding standard, methodology, or design required to meet compliance to a new voting certification standard.

Format:

- 2.x, 3.x, etc…

Frequency:

- Market driven

Audience:

- Customers in new markets.
- Existing customers desiring to upgrade to the new feature set.

MINOR VERSION

A **Minor version** release of the software may be comprised of enhancements or extensions to existing features or interfaces driven by internal or external requirements. External requirements include enhancements to meet new sales area (State specific features sets or rules), internal requirements could be enhancements aligned to a new marketing push. The Minor version number is identified by the digit or set of digits to the right of the decimal point separating it from the Major Release number (e.g., 2.x, x indicates the Minor Release placeholder).

General:

- **Must** be accompanied by a label in version control.
- **May** be branched in version control for future development.

Example:

- New features or functionality on existing interfaces that may affect compatibility.
- Extension of interfaces to existing features and functions that may affect compatibility.
- Addition of new features or functions to meet a new sales area that doesn't affect existing customers of the release.

Format:

- 2.4, 2.5, etc…

Frequency:

- Enhancement and Market driven

Audience:

- Customers in new markets.
- Existing customers desiring to upgrade to the new feature set.

MAINTENANCE VERSION

A **Maintenance version** release is a revision of all or part of the software for error and defect correction, or minor features, driven by internal or external requirements, that do not affect compatibility. Examples are state specific features or behaviors, or defect corrections encountered during certification events. The Maintenance version number is identified by the digit or set of digits to the right of the decimal point separating it from the Minor Release number (e.g., 2.4.X, x indicates the Maintenance Release placeholder).

General:

- **Must** be accompanied by a label in version control.
- **May** be branched in version control if SVN builds are needed.

Example:

- Bug fixes and certification discrepancy corrections.
- Market specific feature or behavior variations that do not affect compatibility.

Format:

- 2.4.1, 2.4.2, etc…

Frequency:

- Market driven and as needed for Quality Assurance.

Audience:

- Existing customers

BUILD VERSION

A **Build version** is a build of all, or part, of the software distributed to an internal audience. The Build version number is denoted by a fourth digit or set of digits (e.g. 2.4.7.x, segment 4 with a placeholder value of x), corresponding to an internal build number.

General:

- The Build version number **must always be unique**.

Example:

- Resolves a set of defects.

Format:

- 2.4.7.23571, 2.4.7.28687, etc…

Frequency:

- Extensively used during internal development and software quality validation cycles.

Audience:

- Internal developers
- Internal verification

SYSTEM VERSIONS CONTAINING MULTIPLE PRODUCTS OR COMPONENTS

Several products or components are often bundled into a "System Version" to provide an expanded set of tools or functionality.

The individual child products will be versioned separately allowing for unrelated versions that follow the guidelines set forth in this document. To accomplish this, the parent version must follow the same guidelines described herein. By binding the parent to these guidelines, we can manage them in the same general way as their children with respect to the software lifecycle. A parent system version or release acts as a wrapper and contains all the individual child product. Specific child product versions contained within a parent system version shall be documented in certification and test documentation, such as Scope of Certification documentation.

Example: Verity release with system version communicated as 1.0 may contain the following child products:

Child Product	Child Version
Verity Build	1.0.4
Verity Count	1.0.13
Verity Central	1.0.7
Verity Relay	1.0.4
Verity Scan	1.0.1
Verity Controller	1.0.3
Verity Touch	1.0.3
Verity Touch Writer	1.0.3

COMPATIBILITY

We define "**source compatible**" to mean that an application will continue to operate without error, and that the semantics will remain unchanged with respect to a previous version.

Applications that operate against a version or release should remain source-compatible against later maintenance versions. However, for example if an application that is part of a parent release contains significant changes or enhancements it may no longer build or operate against a previous major or minor version of the parent release.

We define "**binary compatible**" to mean that a compiled application can be linked (possibly dynamically) against an existing library and continue to function properly.

Similar to source compatibility, an application that has been compiled against a version should continue to be linkable against later versions, although it is possible that an application will not be able to successfully link against a previous minor version.

Original Version	New Version	Compatibility
2.4.5	3.0.0	No, compatibility with different Major versions is not guaranteed.
2.4.5	2.5.1	No, compatibility with previous Minor versions is guaranteed.
2.4.5	2.4.7	Yes, compatibility between Maintenance versions is guaranteed.
2.4.5.1	2.4.5.2	No, compatibility between Builds is not guaranteed.

SECTION 3. VERSION CONTROL

The ability to deliver Major, Minor, Maintenance, and Build releases necessitates a version control system that provides access to the source code and state of a software project at any point in time throughout the software lifecycle. It is very probable that, somewhere within the lifetime of any software product, a release will be needed to address issues with a previous release. Thus, it is imperative that all software projects maintain a procedure that facilitates the ability to recreate and rebuild historical releases. Since most currently available Version Control and Lifecycle Management systems support branching and labeling, as well as branching from a label, this section assumes that an appropriate version control system is available.

There are two common philosophies when it comes to branching, “Branch early and often” or “Branch only when necessary”. Using the first methodology, “Branch early and often”, typically means that there will be at least some parallel development in both branches. To make this methodology successful, a strict synchronization and merge process is required. The responsibility then falls squarely on development to maintain the delicate balance between the two branches (often called dual maintenance). Best intentions aside this methodology introduces a great deal of error as well as a lot of overhead to maintain the integrity of the individual branches. Instead, Hart will follow the “Branch only when necessary” model whenever possible in order to minimize that scenario. This philosophy relies on the earlier assumption that the available version control system supports labeling and branching from a previously defined label, but it also helps to avoid several pitfalls related to the other methodology.

Guidelines for Labeling:

- Generate a label for every software build that will allow the software to be accurately rebuilt at any point in the future.

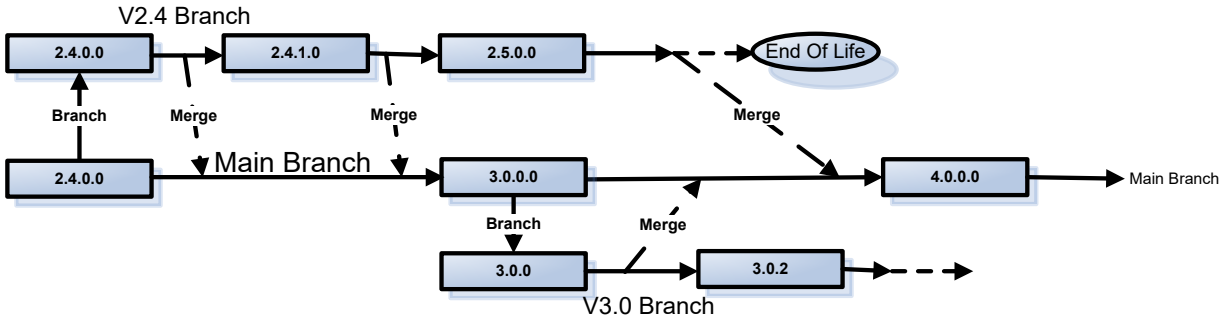
- Use a label name that appropriately represents your product and environment, see Section 5: Build Labels, for more details regarding label naming conventions.

Guidelines for Branching:

- Only branch when necessary.
- When creating new branches use a name that describes the product and the major and minor versions (e.g. "Verity 2.3").

The following diagram is an example of how to use branching when branching is required.

Note: Solid lines indicate that a branch exists or has been created. The dashed lines indicate potential branches that could be created at any point if the need arose.



The example above starts with the initial branch of the 3.0.0 source code. The next branch is a Maintenance level branch of the 3.0.1 source code, which is later merged back into the 3.0.0 branch. Revision 3.0.2 is also branched and then merged back into the 3.0.0 branch. The 3.0.0 branch is then merged into the Main branch. Please note that the merge encompasses all the Revision branches created off the 3.0.0 branch such that everything is merged back into the Main branch before the next minor branch is created. There may be times when a fix must be added to a previous branch after a merge has already been completed. If, for example, we needed to create 3.0.3 Revision release then the changes would need to be merged into the 3.1.0 branch and the Main branch.

SECTION 4. BUILD ARCHIVING

Build archiving is used to describe several levels of accessibility and is separate from the concepts described in the Version Control section. Builds are typically separated by promotion state based on their status as defined by Software Quality Assurance (SQA) group.

The promotion states include:

- Development State – Development builds (a.k.a. Nightly or Daily builds)
- Quality Assurance State - QA builds (a.k.a. Stable builds)
- Production State - Production builds (a.k.a. General Availability builds)

Software builds are typically done on a nightly or daily basis and they are called Development builds, but this is not a hard rule. Builds in the Development state have not been tested beyond a basic sanity test or automated regression test and are most often used by development for testing defect resolution and feature enhancements. Any builds that are tested by the SQA group and pass through standard testing procedures will then be promoted to either the Quality Assurance state or the Production State as a Revision. Only builds that are slated to be released for General Availability should exist in the Production State.

To maintain traceability and provide accessibility network folders should be created to store the builds for each state listed above.

Any builds that have been determined by SQA to be valid for release to customers (i.e. Production builds) should also be archived as hard copies.

SECTION 5. BUILD LABELS

A build label is a label assigned to every build of the application within a branch of the code and it identifies the source code contained in each build. Build labels are a common source control mechanism to trace and/or recreate the release of an application. There are at least two schools of thought regarding the naming conventions, format and layout of build labels.

The first is Branch Naming and typically appends a sequentially generated build number to the branch name. The branching shown in Section 3 above illustrates three maintained branches of the code: Main line, V2.4 Branch, and V3.0 branch. Given the mainline branch of the product line a project may develop internal code names to represent major branches of the application. Since a major and minor release name is impacted by corporate, contractual, and marketing demands you may find it better and less confusing to developers and test to associate a major release with a development code name (i.e.: Ferrari was the development code name for Windows XP). With this approach it allows the company to restructure a release or rename it without impacting our build labeling process. Also, if product management or marketing decides to restructure a release into a couple of minor

releases instead of one major release; again it doesn't affect the build labeling model. So given these conditions, the following build labels structure is recommended.

The second naming convention is Release Naming which parallels the target release version. This method also appends a sequentially generated build number to the label. The benefit of this convention is that there is always a direct and easily identifiable relationship between the build label and the target release version.

Branch	Internal Name Based on Product	Example Build Labels
2.4	Verity 2.4.7	2.4.7.111
3.0	eRegistryV3.0.0	3.0.0.121
4.0	ePollbook 4.0.0	4.0.0.333

The release name can be used throughout the software release process to maintain a high level of traceability between separate elements in the software release process. For example, you can easily relate a build label, network build path and a Hard Drive Volume label using this naming convention.

Build Label: 2.4.7.378
Network Dir: \\<some network location>\staging\ 2.4.7.378
Escrow Hard Drive Volume Label: 2.4.7

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZE691812590391286

Weight

0.00 LBS

Service

UPS Next Day Air®

Shipped / Billed On

07/14/2020

Delivered On

07/15/2020 10:06 A.M.

Delivered To

1335 E WEST HWY
4300
SILVER SPRING, MD, 20910, US

Received By

GUARD

Left At

Inside Delivery

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 07/21/2020 9:36 A.M. EST

U. S. ELECTION ASSISTANCE COMMISSION
VOTING SYSTEM TESTING AND CERTIFICATION PROGRAM
1335 East West Highway, Suite 4300
Silver Spring, MD 20910

June 10, 2020 **Sent via e-mail**

Jonathon Panek
SLI Compliance
4720 Independence St.
Wheat Ridge, CO 80033

RE: Approval of Hart Verity Voting 2.5 Test Plan

Dear Mr. Panek,

This letter is to inform you that Version 1.0 of the test plan submitted by SLI Compliance for the testing of the Hart Verity Voting 2.5 voting system has been reviewed and approved. According to section 4.6.4.3 of the EAC's Testing and Certification Program Manual (Program Manual) a test plan is approved based on the information submitted. Test plan approval indicates the following:

- Approval simply signifies that the tests proposed, if performed properly, appear to be sufficient to fully test the system. A final determination of the sufficiency of the testing is a global evaluation based on the test plan, test cases, and test report reviews, as well as the EAC's Quality Monitoring Process outlined in Chapter 8 of the Program Manual.
- Approval allows the test laboratory to begin test case development, testing, and test report submittal.
- A test plan is approved based on information submitted. It is not known if relevant information was omitted that would affect the testing campaign.
- The test plan is a living document and is expected to change and be updated during various phases of the testing life cycle. A final version that reflects all of the testing completed (e.g. TDP, Hardware, and Software) should be submitted to the EAC at the completion of testing. If this final "as run" test plan does not reflect all the testing required, the EAC reserves the right to request further updates to the test plan and possibly additional testing.

I also want to take this opportunity to remind you of the EAC's requirements following approval of a test plan. Section 4.7 of the Program Manual requires VSTLs to report any changes to a voting system or an approved test plan directly to the EAC. Under this section, Manufacturers are required to enable VSTLs to report all test failures or anomalies directly to the EAC. In addition, for further guidance on this matter, please refer to Section 4.7.1 for information regarding the reporting requirements for changes to a system or test plan during testing, and Section 4.7.2 for information regarding the reporting requirements for anomalies or failures found during testing.

Section 4.8 of the Program Manual lays out the various requirements for the submission and approval of a test report.

If you should have any questions regarding the approval of the test plan, or the rest of the EAC's certification process please contact the project manager or me.

Jerome Lovato
Director, Voting System Testing and Certification

cc: Pamela Geppert, Hart InterCivic

Dominion Voting Systems

County	Jurisdiction	State	Product	Version
Maricopa County	Phoenix City	AZ	D-Suite	5.5-B
Maricopa County		AZ	D-Suite	5.5-B
Appling County		GA	D-Suite	5.5-A
Atkinson County		GA	D-Suite	5.5-A
Bacon County		GA	D-Suite	5.5-A
Baker County		GA	D-Suite	5.5-A
Baldwin County		GA	D-Suite	5.5-A
Banks County		GA	D-Suite	5.5-A
Barrow County		GA	D-Suite	5.5-A
Bartow County		GA	D-Suite	5.5-A
Ben Hill County		GA	D-Suite	5.5-A
Berrien County		GA	D-Suite	5.5-A
Bibb County		GA	D-Suite	5.5-A
Bleckley County		GA	D-Suite	5.5-A
Brantley County		GA	D-Suite	5.5-A
Brooks County		GA	D-Suite	5.5-A
Bryan County		GA	D-Suite	5.5-A
Bulloch County		GA	D-Suite	5.5-A
Burke County		GA	D-Suite	5.5-A
Butts County		GA	D-Suite	5.5-A
Calhoun County		GA	D-Suite	5.5-A
Camden County		GA	D-Suite	5.5-A
Candler County		GA	D-Suite	5.5-A
Carroll County		GA	D-Suite	5.5-A
Catoosa County		GA	D-Suite	5.5-A
Charlton County		GA	D-Suite	5.5-A
Chatham County		GA	D-Suite	5.5-A
Chattahoochee County		GA	D-Suite	5.5-A
Chattooga County		GA	D-Suite	5.5-A
Cherokee County		GA	D-Suite	5.5-A
Clarke County		GA	D-Suite	5.5-A
Clay County		GA	D-Suite	5.5-A
Clayton County		GA	D-Suite	5.5-A
Clinch County		GA	D-Suite	5.5-A
Cobb County		GA	D-Suite	5.5-A
Coffee County		GA	D-Suite	5.5-A
Colquitt County		GA	D-Suite	5.5-A
Columbia County		GA	D-Suite	5.5-A
Cook County		GA	D-Suite	5.5-A
Coweta County		GA	D-Suite	5.5-A
Crawford County		GA	D-Suite	5.5-A
Crisp County		GA	D-Suite	5.5-A
Dade County		GA	D-Suite	5.5-A
Dawson County		GA	D-Suite	5.5-A
Decatur County		GA	D-Suite	5.5-A

DeKalb County		GA	D-Suite	5.5-A
Dodge County		GA	D-Suite	5.5-A
Dooly County		GA	D-Suite	5.5-A
Dougherty County		GA	D-Suite	5.5-A
Douglas County		GA	D-Suite	5.5-A
Early County		GA	D-Suite	5.5-A
Echols County		GA	D-Suite	5.5-A
Effingham County		GA	D-Suite	5.5-A
Elbert County		GA	D-Suite	5.5-A
Emanuel County		GA	D-Suite	5.5-A
Evans County		GA	D-Suite	5.5-A
Fannin County		GA	D-Suite	5.5-A
Fayette County		GA	D-Suite	5.5-A
Floyd County		GA	D-Suite	5.5-A
Forsyth County		GA	D-Suite	5.5-A
Franklin County		GA	D-Suite	5.5-A
Fulton County		GA	D-Suite	5.5-A
Gilmer County		GA	D-Suite	5.5-A
Glascock County		GA	D-Suite	5.5-A
Glynn County		GA	D-Suite	5.5-A
Gordon County		GA	D-Suite	5.5-A
Grady County		GA	D-Suite	5.5-A
Greene County		GA	D-Suite	5.5-A
Gwinnett County	City of Lawrenceville	GA	D-Suite	5.5-A
Gwinnett County		GA	D-Suite	5.5-A
Habersham County		GA	D-Suite	5.5-A
Hall County		GA	D-Suite	5.5-A
Hancock County		GA	D-Suite	5.5-A
Haralson County		GA	D-Suite	5.5-A
Harris County		GA	D-Suite	5.5-A
Hart County		GA	D-Suite	5.5-A
Heard County		GA	D-Suite	5.5-A
Henry County		GA	D-Suite	5.5-A
Houston County		GA	D-Suite	5.5-A
Irwin County		GA	D-Suite	5.5-A
Jackson County		GA	D-Suite	5.5-A
Jasper County		GA	D-Suite	5.5-A
Jeff Davis County		GA	D-Suite	5.5-A
Jefferson County		GA	D-Suite	5.5-A
Jenkins County		GA	D-Suite	5.5-A
Johnson County		GA	D-Suite	5.5-A
Jones County		GA	D-Suite	5.5-A
Lamar County		GA	D-Suite	5.5-A
Lanier County		GA	D-Suite	5.5-A
Laurens County		GA	D-Suite	5.5-A
Lee County		GA	D-Suite	5.5-A
Liberty County		GA	D-Suite	5.5-A
Lincoln County		GA	D-Suite	5.5-A

Long County	GA	D-Suite	5.5-A
Lowndes County	GA	D-Suite	5.5-A
Lumpkin County	GA	D-Suite	5.5-A
Macon County	GA	D-Suite	5.5-A
Madison County	GA	D-Suite	5.5-A
Marion County	GA	D-Suite	5.5-A
McDuffie County	GA	D-Suite	5.5-A
McIntosh County	GA	D-Suite	5.5-A
Meriwether County	GA	D-Suite	5.5-A
Miller County	GA	D-Suite	5.5-A
Mitchell County	GA	D-Suite	5.5-A
Monroe County	GA	D-Suite	5.5-A
Montgomery County	GA	D-Suite	5.5-A
Morgan County	GA	D-Suite	5.5-A
Murray County	GA	D-Suite	5.5-A
Muscogee County	GA	D-Suite	5.5-A
Newton County	GA	D-Suite	5.5-A
Oconee County	GA	D-Suite	5.5-A
Oglethorpe County	GA	D-Suite	5.5-A
Paulding County	GA	D-Suite	5.5-A
Peach County	GA	D-Suite	5.5-A
Pickens County	GA	D-Suite	5.5-A
Pierce County	GA	D-Suite	5.5-A
Pike County	GA	D-Suite	5.5-A
Polk County	GA	D-Suite	5.5-A
Pulaski County	GA	D-Suite	5.5-A
Putnan County	GA	D-Suite	5.5-A
Quitman County	GA	D-Suite	5.5-A
Rabun County	GA	D-Suite	5.5-A
Randolph County	GA	D-Suite	5.5-A
Richmond County	GA	D-Suite	5.5-A
Rockdale County	GA	D-Suite	5.5-A
Schley County	GA	D-Suite	5.5-A
Screven County	GA	D-Suite	5.5-A
Seminole County	GA	D-Suite	5.5-A
Spalding County	GA	D-Suite	5.5-A
Stephens County	GA	D-Suite	5.5-A
Stewart County	GA	D-Suite	5.5-A
Sumter County	GA	D-Suite	5.5-A
Talbot County	GA	D-Suite	5.5-A
Taliaferro County	GA	D-Suite	5.5-A
Tattnall County	GA	D-Suite	5.5-A
Taylor County	GA	D-Suite	5.5-A
Telfair County	GA	D-Suite	5.5-A
Terrell County	GA	D-Suite	5.5-A
Thomas County	GA	D-Suite	5.5-A
Tift County	GA	D-Suite	5.5-A
Toombs County	GA	D-Suite	5.5-A

Towns County		GA	D-Suite	5.5-A
Treutlen County		GA	D-Suite	5.5-A
Troup County		GA	D-Suite	5.5-A
Turner County		GA	D-Suite	5.5-A
Twiggs County		GA	D-Suite	5.5-A
Union County		GA	D-Suite	5.5-A
Upson County		GA	D-Suite	5.5-A
Walker County		GA	D-Suite	5.5-A
Walton County		GA	D-Suite	5.5-A
Ware County		GA	D-Suite	5.5-A
Warren County		GA	D-Suite	5.5-A
Washington County		GA	D-Suite	5.5-A
Wayne County		GA	D-Suite	5.5-A
Webster County		GA	D-Suite	5.5-A
Wheeler County		GA	D-Suite	5.5-A
White County		GA	D-Suite	5.5-A
Whitfield County		GA	D-Suite	5.5-A
Wilcox County		GA	D-Suite	5.5-A
Wilkes County		GA	D-Suite	5.5-A
Wilkinson County		GA	D-Suite	5.5-A
Worth County		GA	D-Suite	5.5-A
Cheyenne County		KS	D-Suite	5.5
Elk County		KS	D-Suite	5.5
Ford County		KS	D-Suite	5.5
Graham County		KS	D-Suite	5.5
Hamilton County		KS	D-Suite	5.5
Haskell County		KS	D-Suite	5.5
Hodgeman County		KS	D-Suite	5.5
Logan County		KS	D-Suite	5.5
Morton County		KS	D-Suite	5.5
Reno County		KS	D-Suite	5.5
Rice County		KS	D-Suite	5.5
Rooks County		KS	D-Suite	5.5
Sheridan County		KS	D-Suite	5.5
Stevens County		KS	D-Suite	5.5
Thomas County		KS	D-Suite	5.5
Alcona County		MI	D-Suite	5.5
Alcona County	Alcona Township	MI	D-Suite	5.5
Alcona County	Caledonia Township	MI	D-Suite	5.5
Alcona County	Curtis Township	MI	D-Suite	5.5
Alcona County	Greenbush Township	MI	D-Suite	5.5
Alcona County	Gustin Township	MI	D-Suite	5.5
Alcona County	Harrisville City	MI	D-Suite	5.5
Alcona County	Harrisville Township	MI	D-Suite	5.5
Alcona County	Hawes Township	MI	D-Suite	5.5
Alcona County	Haynes Township	MI	D-Suite	5.5
Alcona County	Mikado Township	MI	D-Suite	5.5
Alcona County	Millen Township	MI	D-Suite	5.5

Alcona County	Mitchell Township	MI	D-Suite	5.5
Allegan County		MI	D-Suite	5.5
Allegan County	Allegan City	MI	D-Suite	5.5
Allegan County	Allegan Township	MI	D-Suite	5.5
Allegan County	Casco Township	MI	D-Suite	5.5
Allegan County	Cheshire Township	MI	D-Suite	5.5
Allegan County	Clyde Township	MI	D-Suite	5.5
Allegan County	Dorr Township	MI	D-Suite	5.5
Allegan County	Douglas City of Village of	MI	D-Suite	5.5
Allegan County	Fennville City	MI	D-Suite	5.5
Allegan County	Fillmore Township	MI	D-Suite	5.5
Allegan County	Ganges Township	MI	D-Suite	5.5
Allegan County	Gunplain Township	MI	D-Suite	5.5
Allegan County	Heath Township	MI	D-Suite	5.5
Allegan County	Hopkins Township	MI	D-Suite	5.5
Allegan County	Laketown Township	MI	D-Suite	5.5
Allegan County	Lee Township	MI	D-Suite	5.5
Allegan County	Leighton Township	MI	D-Suite	5.5
Allegan County	Manlius Township	MI	D-Suite	5.5
Allegan County	Martin Township	MI	D-Suite	5.5
Allegan County	Monterey Township	MI	D-Suite	5.5
Allegan County	Otsego City	MI	D-Suite	5.5
Allegan County	Otsego Township	MI	D-Suite	5.5
Allegan County	Overisel Township	MI	D-Suite	5.5
Allegan County	Plainwell City	MI	D-Suite	5.5
Allegan County	Salem Township	MI	D-Suite	5.5
Allegan County	Saugatuck City	MI	D-Suite	5.5
Allegan County	Saugatuck Township	MI	D-Suite	5.5
Allegan County	Trowbridge Township	MI	D-Suite	5.5
Allegan County	Valley Township	MI	D-Suite	5.5
Allegan County	Watson Township	MI	D-Suite	5.5
Allegan County	Wayland City	MI	D-Suite	5.5
Allegan County	Wayland Township	MI	D-Suite	5.5
Alpena County		MI	D-Suite	5.5
Alpena County	Alpena City	MI	D-Suite	5.5
Alpena County	Alpena Township	MI	D-Suite	5.5
Alpena County	Green Township	MI	D-Suite	5.5
Alpena County	Long Rapids Township	MI	D-Suite	5.5
Alpena County	Maple Ridge Township	MI	D-Suite	5.5
Alpena County	Ossineke Township	MI	D-Suite	5.5
Alpena County	Sanborn Township	MI	D-Suite	5.5
Alpena County	Wellington Township	MI	D-Suite	5.5
Alpena County	Wilson Township	MI	D-Suite	5.5
Antrim County		MI	D-Suite	5.5
Antrim County	Banks Township	MI	D-Suite	5.5
Antrim County	Central Lake Township	MI	D-Suite	5.5
Antrim County	Chestonia Township	MI	D-Suite	5.5
Antrim County	Custer Township	MI	D-Suite	5.5

Antrim County	Echo Township	MI	D-Suite	5.5
Antrim County	Elk Rapids Township	MI	D-Suite	5.5
Antrim County	Forest Home Township	MI	D-Suite	5.5
Antrim County	Helena Township	MI	D-Suite	5.5
Antrim County	Jordan Township	MI	D-Suite	5.5
Antrim County	Kearney Township	MI	D-Suite	5.5
Antrim County	Mancelona Township	MI	D-Suite	5.5
Antrim County	Milton Township	MI	D-Suite	5.5
Antrim County	Star Township	MI	D-Suite	5.5
Antrim County	Torch Lake Township	MI	D-Suite	5.5
Antrim County	Warner Township	MI	D-Suite	5.5
Arenac County		MI	D-Suite	5.5
Arenac County	Adams Township	MI	D-Suite	5.5
Arenac County	Arenac Township	MI	D-Suite	5.5
Arenac County	Au Gres City	MI	D-Suite	5.5
Arenac County	Au Gres Township	MI	D-Suite	5.5
Arenac County	Aurelius Township	MI	D-Suite	5.5
Arenac County	Clayton Township	MI	D-Suite	5.5
Arenac County	Deep River Township	MI	D-Suite	5.5
Arenac County	Lincoln Township	MI	D-Suite	5.5
Arenac County	Mason Township	MI	D-Suite	5.5
Arenac County	Moffatt Township	MI	D-Suite	5.5
Arenac County	Omer City	MI	D-Suite	5.5
Arenac County	Sims Township	MI	D-Suite	5.5
Arenac County	Standish City	MI	D-Suite	5.5
Arenac County	Standish Township	MI	D-Suite	5.5
Arenac County	Turner Township	MI	D-Suite	5.5
Arenac County	Whitney Township	MI	D-Suite	5.5
Baraga County		MI	D-Suite	5.5
Baraga County	Arvon Township	MI	D-Suite	5.5
Baraga County	Baraga Township	MI	D-Suite	5.5
Baraga County	Covington Township	MI	D-Suite	5.5
Baraga County	Lanse Township	MI	D-Suite	5.5
Baraga County	Spurr Township	MI	D-Suite	5.5
Barry County		MI	D-Suite	5.5
Barry County	Assyria Township	MI	D-Suite	5.5
Barry County	Baltimore Township	MI	D-Suite	5.5
Barry County	Barry Township	MI	D-Suite	5.5
Barry County	Carlton Township	MI	D-Suite	5.5
Barry County	Castleton Township	MI	D-Suite	5.5
Barry County	Hastings City	MI	D-Suite	5.5
Barry County	Hastings Township	MI	D-Suite	5.5
Barry County	Hope Township	MI	D-Suite	5.5
Barry County	Irving Township	MI	D-Suite	5.5
Barry County	Johnstown Township	MI	D-Suite	5.5
Barry County	Maple Grove Township	MI	D-Suite	5.5
Barry County	Orangeville Township	MI	D-Suite	5.5
Barry County	Prairieville Township	MI	D-Suite	5.5

Barry County	Rutland Township	MI	D-Suite	5.5
Barry County	Thornapple Township	MI	D-Suite	5.5
Barry County	Woodland Township	MI	D-Suite	5.5
Barry County	Yankee Springs Township	MI	D-Suite	5.5
Benzie County		MI	D-Suite	5.5
Benzie County	Almira Township	MI	D-Suite	5.5
Benzie County	Benzonia Township	MI	D-Suite	5.5
Benzie County	Blaine Township	MI	D-Suite	5.5
Benzie County	Colfax Township	MI	D-Suite	5.5
Benzie County	Crhstal Lake Township	MI	D-Suite	5.5
Benzie County	Frankfort City	MI	D-Suite	5.5
Benzie County	Gilmore Township	MI	D-Suite	5.5
Benzie County	Homestead Township	MI	D-Suite	5.5
Benzie County	Inland Township	MI	D-Suite	5.5
Benzie County	Joyfield Township	MI	D-Suite	5.5
Benzie County	Lake Township	MI	D-Suite	5.5
Benzie County	Platte Township	MI	D-Suite	5.5
Benzie County	Weldon Township	MI	D-Suite	5.5
Berrien County		MI	D-Suite	5.5
Berrien County	Baroda Township	MI	D-Suite	5.5
Berrien County	Benton Harbor City	MI	D-Suite	5.5
Berrien County	Benton Township	MI	D-Suite	5.5
Berrien County	Berrien Township	MI	D-Suite	5.5
Berrien County	Bridgman City	MI	D-Suite	5.5
Berrien County	Buchanan Township	MI	D-Suite	5.5
Berrien County	Lake Township	MI	D-Suite	5.5
Berrien County	Lincoln Charter Township	MI	D-Suite	5.5
Berrien County	Niles City	MI	D-Suite	5.5
Berrien County	Niles Township	MI	D-Suite	5.5
Berrien County	Oronoko Township	MI	D-Suite	5.5
Berrien County	Royalton Township	MI	D-Suite	5.5
Berrien County	Saint Joseph City	MI	D-Suite	5.5
Berrien County	Saint Joseph Township	MI	D-Suite	5.5
Berrien County	Sodus Township	MI	D-Suite	5.5
Berrien County	Three Oaks Township	MI	D-Suite	5.5
Charlevoix County		MI	D-Suite	5.5
Cheboygan County		MI	D-Suite	5.5
Cheboygan County	Aloha Township	MI	D-Suite	5.5
Cheboygan County	Beaugrand Township	MI	D-Suite	5.5
Cheboygan County	Benton Township	MI	D-Suite	5.5
Cheboygan County	Burt Township	MI	D-Suite	5.5
Cheboygan County	Cheboygan City	MI	D-Suite	5.5
Cheboygan County	Ellis Township	MI	D-Suite	5.5
Cheboygan County	Forest Township	MI	D-Suite	5.5
Cheboygan County	Grant Township	MI	D-Suite	5.5
Cheboygan County	Hebron Township	MI	D-Suite	5.5
Cheboygan County	Inverness Township	MI	D-Suite	5.5
Cheboygan County	Koehler Township	MI	D-Suite	5.5

Cheboygan County	Mackinaw Township	MI	D-Suite	5.5
Cheboygan County	Mentor Township	MI	D-Suite	5.5
Cheboygan County	Munro Township	MI	D-Suite	5.5
Cheboygan County	Nunda Township	MI	D-Suite	5.5
Cheboygan County	Tuscarora Township	MI	D-Suite	5.5
Cheboygan County	Walker Township	MI	D-Suite	5.5
Cheboygan County	Waverly Township	MI	D-Suite	5.5
Cheboygan County	Wilmot Township	MI	D-Suite	5.5
Chippewa County		MI	D-Suite	5.5
Chippewa County	Bay Mills Township	MI	D-Suite	5.5
Chippewa County	Bruce Township	MI	D-Suite	5.5
Chippewa County	Chippewa Township	MI	D-Suite	5.5
Chippewa County	Dafter Township	MI	D-Suite	5.5
Chippewa County	DeTour Township	MI	D-Suite	5.5
Chippewa County	Drummond Township	MI	D-Suite	5.5
Chippewa County	Hulbert Township	MI	D-Suite	5.5
Chippewa County	Kinross Township	MI	D-Suite	5.5
Chippewa County	Pickford Township	MI	D-Suite	5.5
Chippewa County	Raber Township	MI	D-Suite	5.5
Chippewa County	Rudyard Township	MI	D-Suite	5.5
Chippewa County	Sault Ste Marie City	MI	D-Suite	5.5
Chippewa County	Soo Township	MI	D-Suite	5.5
Chippewa County	Sugar Island Township	MI	D-Suite	5.5
Chippewa County	Superior Township	MI	D-Suite	5.5
Chippewa County	Trout Lake Township	MI	D-Suite	5.5
Chippewa County	Whitefish Township	MI	D-Suite	5.5
Clare County		MI	D-Suite	5.5
Clare County	Hayes Township	MI	D-Suite	5.5
Clare County	Lincoln Township	MI	D-Suite	5.5
Crawford County		MI	D-Suite	5.5
Crawford County	Beaver Creek Township	MI	D-Suite	5.5
Crawford County	Frederic Township	MI	D-Suite	5.5
Crawford County	Grayling City	MI	D-Suite	5.5
Crawford County	Grayling Township	MI	D-Suite	5.5
Crawford County	Lovells Township	MI	D-Suite	5.5
Crawford County	Maple Forest Township	MI	D-Suite	5.5
Crawford County	South Branch Township	MI	D-Suite	5.5
Delta County		MI	D-Suite	5.5
Delta County	Escanaba City	MI	D-Suite	5.5
Delta County	Escanaba Township	MI	D-Suite	5.5
Dickinson County		MI	D-Suite	5.5
Dickinson County	Breen Township	MI	D-Suite	5.5
Dickinson County	Breitung Township	MI	D-Suite	5.5
Dickinson County	Felch Township	MI	D-Suite	5.5
Dickinson County	Iron Mountain City	MI	D-Suite	5.5
Dickinson County	Kingsford City	MI	D-Suite	5.5
Dickinson County	Norway City	MI	D-Suite	5.5
Dickinson County	Norway Township	MI	D-Suite	5.5

Dickinson County	Sagola Township	MI	D-Suite	5.5
Dickinson County	Waucedah Township	MI	D-Suite	5.5
Dickinson County	West Branch Township	MI	D-Suite	5.5
Gladwin County, MI		MI	D-Suite	5.5
Gladwin County	Secord Township	MI	D-Suite	5.5
Gogebic County, MI		MI	D-Suite	5.5
Gogebic County	Bessemer City	MI	D-Suite	5.5
Gogebic County	Bessemer Township	MI	D-Suite	5.5
Gogebic County	Erwin Township	MI	D-Suite	5.5
Gogebic County	Ironwood City	MI	D-Suite	5.5
Gogebic County	Ironwood Township	MI	D-Suite	5.5
Gogebic County	Marenisco Township	MI	D-Suite	5.5
Gogebic County	Wakefield City	MI	D-Suite	5.5
Gogebic County	Wakefield Township	MI	D-Suite	5.5
Gogebic County	Watersmeet Township	MI	D-Suite	5.5
Houghton County		MI	D-Suite	5.5
Houghton County	Adams Township	MI	D-Suite	5.5
Houghton County	Calumet Township	MI	D-Suite	5.5
Houghton County	Hancock City	MI	D-Suite	5.5
Ingham County		MI	D-Suite	5.5
Ingham County	Delhi Township	MI	D-Suite	5.5
Ingham County	East Lansing City	MI	D-Suite	5.5
Ingham County	Lansing City	MI	D-Suite	5.5
Ingham County	Lansing Township	MI	D-Suite	5.5
Ingham County	Mason City	MI	D-Suite	5.5
Ingham County	Meridian Township	MI	D-Suite	5.5
Ingham County	Stockbridge Township	MI	D-Suite	5.5
Ingham County	Williamstown Township	MI	D-Suite	5.5
Iosco County		MI	D-Suite	5.5
Iosco County	Oscoda Township	MI	D-Suite	5.5
Iron County		MI	D-Suite	5.5
Iron County	Bates Township	MI	D-Suite	5.5
Iron County	Caspian City	MI	D-Suite	5.5
Iron County	Crystal Falls City	MI	D-Suite	5.5
Iron County	Crystal Falls City	MI	D-Suite	5.5
Iron County	Gaastra City	MI	D-Suite	5.5
Iron County	Hematite Township	MI	D-Suite	5.5
Iron County	Iron County	MI	D-Suite	5.5
Iron County	Iron River City	MI	D-Suite	5.5
Iron County	Iron River Township	MI	D-Suite	5.5
Iron County	Mansfield Township	MI	D-Suite	5.5
Iron County	Mastodon Township	MI	D-Suite	5.5
Iron County	Stambaugh Township	MI	D-Suite	5.5
Jackson County		MI	D-Suite	5.5
Jackson County	Blackman Charter Township	MI	D-Suite	5.5
Jackson County	Concord Township	MI	D-Suite	5.5
Jackson County	Grass Lake Township	MI	D-Suite	5.5
Jackson County	Hanover Township	MI	D-Suite	5.5

Jackson County	Henrietta Township	MI	D-Suite	5.5
Jackson County	Leoni Township	MI	D-Suite	5.5
Jackson County	Napoleon Township	MI	D-Suite	5.5
Jackson County	Norvell Township	MI	D-Suite	5.5
Jackson County	Pulaski Township	MI	D-Suite	5.5
Jackson County	Rives Township	MI	D-Suite	5.5
Jackson County	Sandstone Township	MI	D-Suite	5.5
Jackson County	Summit Township	MI	D-Suite	5.5
Jackson County	Tompkins Township	MI	D-Suite	5.5
Jackson County	Waterloo Township	MI	D-Suite	5.5
Kalkaska County		MI	D-Suite	5.5
Kalkaska County	Blue Lake Township	MI	D-Suite	5.5
Kalkaska County	Clearwater Township	MI	D-Suite	5.5
Kalkaska County	Kalkaska Township	MI	D-Suite	5.5
Kent County		MI	D-Suite	5.5
Kent County	Ada Township	MI	D-Suite	5.5
Kent County	Algoma Township	MI	D-Suite	5.5
Kent County	Bowne Township	MI	D-Suite	5.5
Kent County	Byron Township	MI	D-Suite	5.5
Kent County	Cannon Township	MI	D-Suite	5.5
Kent County	Cascade Township	MI	D-Suite	5.5
Kent County	Cedar Springs City	MI	D-Suite	5.5
Kent County	Gaines Township	MI	D-Suite	5.5
Kent County	Grand Rapids Township	MI	D-Suite	5.5
Kent County	Grandville City	MI	D-Suite	5.5
Kent County	Kentwood City	MI	D-Suite	5.5
Kent County	Plainfield Township	MI	D-Suite	5.5
Kent County	Rockford City	MI	D-Suite	5.5
Kent County	Spencer Township	MI	D-Suite	5.5
Kent County	Vergennes Township	MI	D-Suite	5.5
Kent County	Walker City	MI	D-Suite	5.5
Kent County	Wyoming City	MI	D-Suite	5.5
Keweenaw County		MI	D-Suite	5.5
Keweenaw County	Allouez Township	MI	D-Suite	5.5
Keweenaw County	Eagle Harbor Township	MI	D-Suite	5.5
Keweenaw County	Grant Township	MI	D-Suite	5.5
Keweenaw County	Houghton Township	MI	D-Suite	5.5
Keweenaw County	Sherman Township	MI	D-Suite	5.5
Lake County		MI	D-Suite	5.5
Lake County	Chase Township	MI	D-Suite	5.5
Lake County	Cherry Valley Township	MI	D-Suite	5.5
Lake County	Dover Township	MI	D-Suite	5.5
Lake County	Eden Township	MI	D-Suite	5.5
Lake County	Elk Township	MI	D-Suite	5.5
Lake County	Ellsworth Township	MI	D-Suite	5.5
Lake County	Lake Township	MI	D-Suite	5.5
Lake County	Newkirk Township	MI	D-Suite	5.5
Lake County	Peacock Township	MI	D-Suite	5.5

Lake County	Pinora Township	MI	D-Suite	5.5
Lake County	Pleasant Plains Township	MI	D-Suite	5.5
Lake County	Sauble Township	MI	D-Suite	5.5
Lake County	Sweetwater Township	MI	D-Suite	5.5
Lake County	Webber Township	MI	D-Suite	5.5
Lake County	Yates Township	MI	D-Suite	5.5
Lapeer County		MI	D-Suite	5.5
Lapeer County	Almont Township	MI	D-Suite	5.5
Lapeer County	Arcadia Township	MI	D-Suite	5.5
Lapeer County	Deerfield Township	MI	D-Suite	5.5
Lapeer County	Elba Township	MI	D-Suite	5.5
Lapeer County	Hadley Township	MI	D-Suite	5.5
Lapeer County	Lapeer City	MI	D-Suite	5.5
Lapeer County	Lapeer Township	MI	D-Suite	5.5
Lapeer County	Marathon Township	MI	D-Suite	5.5
Lapeer County	Metamora Township	MI	D-Suite	5.5
Lapeer County	North Branch Township	MI	D-Suite	5.5
Leelanau County		MI	D-Suite	5.5
Leelanau County	Bingham Township	MI	D-Suite	5.5
Leelanau County	Centerville Township	MI	D-Suite	5.5
Leelanau County	Cleveland Township	MI	D-Suite	5.5
Leelanau County	Elmwood Township	MI	D-Suite	5.5
Leelanau County	Empire Township	MI	D-Suite	5.5
Leelanau County	Glen Arbor Township	MI	D-Suite	5.5
Leelanau County	Kasson Township	MI	D-Suite	5.5
Leelanau County	Leelanau Township	MI	D-Suite	5.5
Leelanau County	Leland Township	MI	D-Suite	5.5
Leelanau County	Solon Township	MI	D-Suite	5.5
Leelanau County	Suttons Bay Township	MI	D-Suite	5.5
Lenawee County		MI	D-Suite	5.5
Lenawee County	Adrian Township	MI	D-Suite	5.5
Lenawee County	Blissfield Township	MI	D-Suite	5.5
Lenawee County	Clinton Township	MI	D-Suite	5.5
Lenawee County	Deerfield Township	MI	D-Suite	5.5
Lenawee County	Fairfield Township	MI	D-Suite	5.5
Lenawee County	Franklin Township	MI	D-Suite	5.5
Lenawee County	Hudson City	MI	D-Suite	5.5
Lenawee County	Hudson Township	MI	D-Suite	5.5
Lenawee County	Raisin Township	MI	D-Suite	5.5
Lenawee County	Rollin Township	MI	D-Suite	5.5
Lenawee County	Tecumseh City	MI	D-Suite	5.5
Mackinac County		MI	D-Suite	5.5
Mackinac County	Brevort Township	MI	D-Suite	5.5
Mackinac County	Hudson Township	MI	D-Suite	5.5
Manistee County		MI	D-Suite	5.5
Manistee County	Filer Township	MI	D-Suite	5.5
Manistee County	Manistee City	MI	D-Suite	5.5
Manistee County	Onekama Township	MI	D-Suite	5.5

Marquette County		MI	D-Suite	5.5
Marquette County	Chocolay Township	MI	D-Suite	5.5
Marquette County	Negaunee Township	MI	D-Suite	5.5
Menominee County		MI	D-Suite	5.5
Menominee County	Menominee City	MI	D-Suite	5.5
Midland County		MI	D-Suite	5.5
Midland County	Larkin Township	MI	D-Suite	5.5
Midland County	Midland City	MI	D-Suite	5.5
Missaukee County		MI	D-Suite	5.5
Missaukee County	Aetna Township	MI	D-Suite	5.5
Missaukee County	Lake Township	MI	D-Suite	5.5
Monroe County		MI	D-Suite	5.5
Monroe County	Ash Township	MI	D-Suite	5.5
Monroe County	Bedford Township	MI	D-Suite	5.5
Monroe County	Erie Township	MI	D-Suite	5.5
Monroe County	Frenchtown Township	MI	D-Suite	5.5
Monroe County	Ida Township	MI	D-Suite	5.5
Monroe County	La Salle Township	MI	D-Suite	5.5
Monroe County	Monroe City	MI	D-Suite	5.5
Monroe County	Petersburg City	MI	D-Suite	5.5
Monroe County	Raisinville Township	MI	D-Suite	5.5
Monroe County	Summerfield Township	MI	D-Suite	5.5
Monroe County	Whiteford Township	MI	D-Suite	5.5
Montmorency County		MI	D-Suite	5.5
Montmorency County	Albert Township	MI	D-Suite	5.5
Montmorency County	Avery Township	MI	D-Suite	5.5
Montmorency County	Briley Township	MI	D-Suite	5.5
Montmorency County	Hillman Township	MI	D-Suite	5.5
Montmorency County	Loud Township	MI	D-Suite	5.5
Montmorency County	Montmorency Township	MI	D-Suite	5.5
Montmorency County	Rust Township	MI	D-Suite	5.5
Montmorency County	Vienna Township	MI	D-Suite	5.5
Newaygo County		MI	D-Suite	5.5
Newaygo County	Brooks Township	MI	D-Suite	5.5
Newaygo County	Croton Township	MI	D-Suite	5.5
Oceana County		MI	D-Suite	5.5
Oceana County	Benona Township	MI	D-Suite	5.5
Oceana County	Claybanks Township	MI	D-Suite	5.5
Oceana County	Colfax Township	MI	D-Suite	5.5
Oceana County	Crystal Township	MI	D-Suite	5.5
Oceana County	Elbridge Township	MI	D-Suite	5.5
Oceana County	Ferry Township	MI	D-Suite	5.5
Oceana County	Golden Township	MI	D-Suite	5.5
Oceana County	Grant Township	MI	D-Suite	5.5
Oceana County	Greenwood Township	MI	D-Suite	5.5
Oceana County	Hart City	MI	D-Suite	5.5
Oceana County	Hart Township	MI	D-Suite	5.5
Oceana County	Leavitt Township	MI	D-Suite	5.5

Oceana County	Newfield Township	MI	D-Suite	5.5
Oceana County	Otto Township	MI	D-Suite	5.5
Oceana County	Pentwater Township	MI	D-Suite	5.5
Oceana County	Shelby Township	MI	D-Suite	5.5
Oceana County	Weare Township	MI	D-Suite	5.5
Ontonagon County		MI	D-Suite	5.5
Ontonagon County	Bergland Township	MI	D-Suite	5.5
Ontonagon County	Bohemia Township	MI	D-Suite	5.5
Ontonagon County	Carp Lake Township	MI	D-Suite	5.5
Ontonagon County	Greenland Township	MI	D-Suite	5.5
Ontonagon County	Haight Township	MI	D-Suite	5.5
Ontonagon County	Interior Township	MI	D-Suite	5.5
Ontonagon County	Matchwood Township	MI	D-Suite	5.5
Ontonagon County	Mcmillan Township	MI	D-Suite	5.5
Ontonagon County	Ontonagon Township	MI	D-Suite	5.5
Ontonagon County	Rockland Township	MI	D-Suite	5.5
Ontonagon County	Stannard Township	MI	D-Suite	5.5
Osceola County		MI	D-Suite	5.5
Osceola County	Burdell Township	MI	D-Suite	5.5
Osceola County	Cedar Township	MI	D-Suite	5.5
Osceola County	Evart City	MI	D-Suite	5.5
Osceola County	Evart Township	MI	D-Suite	5.5
Osceola County	Hartwick Township,	MI	D-Suite	5.5
Osceola County	Hersey Township	MI	D-Suite	5.5
Osceola County	Highland Township	MI	D-Suite	5.5
Osceola County	Le Roy Township	MI	D-Suite	5.5
Osceola County	Lincoln Township	MI	D-Suite	5.5
Osceola County	Marion Township	MI	D-Suite	5.5
Osceola County	Middle Branch Township	MI	D-Suite	5.5
Osceola County	Orient Township	MI	D-Suite	5.5
Osceola County	Osceola Township	MI	D-Suite	5.5
Osceola County	Reed City	MI	D-Suite	5.5
Osceola County	Richmond Township	MI	D-Suite	5.5
Osceola County	Rose Lake Township	MI	D-Suite	5.5
Osceola County	Sherman Township	MI	D-Suite	5.5
Osceola County	Sylvan Township	MI	D-Suite	5.5
Oscoda County		MI	D-Suite	5.5
Oscoda County	Big Creek Township	MI	D-Suite	5.5
Oscoda County	Clinton Township	MI	D-Suite	5.5
Oscoda County	Comins Township	MI	D-Suite	5.5
Oscoda County	Elmer Township	MI	D-Suite	5.5
Oscoda County	Greenwood Township	MI	D-Suite	5.5
Oscoda County	Mentor Township	MI	D-Suite	5.5
Otsego County		MI	D-Suite	5.5
Otsego County	Bagley Township	MI	D-Suite	5.5
Otsego County	Hayes Township	MI	D-Suite	5.5
Otsego County	Otsego Lake Township	MI	D-Suite	5.5
Presque Isle County		MI	D-Suite	5.5

Presque Isle County	Allis Township	MI	D-Suite	5.5
Presque Isle County	Bearinger Township	MI	D-Suite	5.5
Presque Isle County	Belknap Township	MI	D-Suite	5.5
Presque Isle County	Bismarck Township	MI	D-Suite	5.5
Presque Isle County	Case Township	MI	D-Suite	5.5
Presque Isle County	Krakow Township	MI	D-Suite	5.5
Presque Isle County	Metz Township	MI	D-Suite	5.5
Presque Isle County	Moltke Township	MI	D-Suite	5.5
Presque Isle County	North Allis Township	MI	D-Suite	5.5
Presque Isle County	Ocqueoc Township	MI	D-Suite	5.5
Presque Isle County	Onaway	MI	D-Suite	5.5
Presque Isle County	Posen Township	MI	D-Suite	5.5
Presque Isle County	Presque Isle Township	MI	D-Suite	5.5
Presque Isle County	Pulawski Township	MI	D-Suite	5.5
Presque Isle County	Rogers City	MI	D-Suite	5.5
Presque Isle County	Rogers Township	MI	D-Suite	5.5
Sanilac County		MI	D-Suite	5.5
Sanilac County	Croswell City	MI	D-Suite	5.5
Sanilac County	Evergreen Township	MI	D-Suite	5.5
Sanilac County	Minden Township	MI	D-Suite	5.5
Sanilac County	Sandusky City	MI	D-Suite	5.5
Sanilac County	Sanilac Township	MI	D-Suite	5.5
Shiawassee County		MI	D-Suite	5.5
Shiawassee County	Bennington Township	MI	D-Suite	5.5
Shiawassee County	Burns Township	MI	D-Suite	5.5
Shiawassee County	Durand City	MI	D-Suite	5.5
Shiawassee County	Hazelton Township	MI	D-Suite	5.5
Shiawassee County	Perry Township	MI	D-Suite	5.5
Shiawassee County	Shiawassee Township	MI	D-Suite	5.5
Shiawassee County	Woodhull Township	MI	D-Suite	5.5
St Clair County		MI	D-Suite	5.5
St Clair County	Algonac City	MI	D-Suite	5.5
St Clair County	Burtchville Township	MI	D-Suite	5.5
St Clair County	China Township	MI	D-Suite	5.5
St Clair County	Clay Township	MI	D-Suite	5.5
St Clair County	Kimball Township	MI	D-Suite	5.5
St Clair County	Mussey Township	MI	D-Suite	5.5
St Clair County	Port Huron City	MI	D-Suite	5.5
St Joseph County		MI	D-Suite	5.5
St Joseph County	Nottawa Township	MI	D-Suite	5.5
St Joseph County	Three Rivers City	MI	D-Suite	5.5
St Joseph County	White Pigeon Township	MI	D-Suite	5.5
Tuscola County		MI	D-Suite	5.5
Tuscola County	Akron Township	MI	D-Suite	5.5
Tuscola County	Caro City	MI	D-Suite	5.5
Tuscola County	Columbia Township	MI	D-Suite	5.5
Tuscola County	Denmark Township	MI	D-Suite	5.5
Tuscola County	Elkland Township	MI	D-Suite	5.5

Tuscola County	Elmwood Township	MI	D-Suite	5.5
Tuscola County	Fremont Township	MI	D-Suite	5.5
Tuscola County	Gilford Township	MI	D-Suite	5.5
Tuscola County	Kingston Township	MI	D-Suite	5.5
Tuscola County	Koylton Township	MI	D-Suite	5.5
Tuscola County	Millington Township	MI	D-Suite	5.5
Tuscola County	Tuscola Township	MI	D-Suite	5.5
Tuscola County	Vassar City	MI	D-Suite	5.5
Tuscola County	Vassar Township	MI	D-Suite	5.5
Wexford County		MI	D-Suite	5.5
Wexford County	Antioch Township	MI	D-Suite	5.5
Wexford County	Boon Township	MI	D-Suite	5.5
Wexford County	Cadillac City	MI	D-Suite	5.5
Wexford County	Cedar Creek Township	MI	D-Suite	5.5
Wexford County	Cherry Grove Township	MI	D-Suite	5.5
Wexford County	Clam Lake Township	MI	D-Suite	5.5
Wexford County	Colfax Township	MI	D-Suite	5.5
Wexford County	Greenwood Township	MI	D-Suite	5.5
Wexford County	Hanover Township	MI	D-Suite	5.5
Wexford County	Haring Township	MI	D-Suite	5.5
Wexford County	Henderson Township	MI	D-Suite	5.5
Wexford County	Liberty Township	MI	D-Suite	5.5
Wexford County	Manton City	MI	D-Suite	5.5
Wexford County	Selma Township	MI	D-Suite	5.5
Wexford County	Slagle Township	MI	D-Suite	5.5
Wexford County	South Branch Township	MI	D-Suite	5.5
Wexford County	Springville Township	MI	D-Suite	5.5
Wexford County	Wexford Township	MI	D-Suite	5.5
Aitkin County		MN	D-Suite	4.14-E
Crow Wing County		MN	D-Suite	4.14-E
Mahnomen County		MN	D-Suite	4.14-E
Butler County		MO	D-Suite	5.5
Livingston County		MO	D-Suite	5.5
Pemiscot County		MO	D-Suite	5.5
Polk County		MO	D-Suite	5.5
Adams County		OH	D-Suite	5.5
Belmont County		OH	D-Suite	5.5
Butler County		OH	D-Suite	5.5
Fairfield County		OH	D-Suite	5.5
Greene County		OH	D-Suite	5.5
Guernsey County		OH	D-Suite	4.14-D
Hancock County		OH	D-Suite	5.5
Hardin County		OH	D-Suite	5.5
Harrison County		OH	D-Suite	5.5
Huron County		OH	D-Suite	5.5
Morrow County		OH	Assure	1.2
Muskingum County		OH	D-Suite	5.5
Perry County		OH	D-Suite	5.5

Richland County	OH	D-Suite	5.5
Scioto County	OH	D-Suite	5.5
Stark County	OH	Assure	1.2
Wayne County	OH	D-Suite	5.5
Wood County	OH	D-Suite	5.5
Armstrong County	PA	D-Suite	5.5-A
Bedford County	PA	D-Suite	5.5-A
Carbon County	PA	D-Suite	5.5-A
Clarion County	PA	D-Suite	5.5-A
Crawford County	PA	D-Suite	5.5-A
Erie County	PA	D-Suite	5.5-A
Fayette County	PA	D-Suite	5.5-A
Fulton County	PA	D-Suite	5.5-A
Jefferson County	PA	D-Suite	5.5-A
Luzerne County	PA	D-Suite	5.5-A
Montgomery County	PA	D-Suite	5.5-A
Pike County	PA	D-Suite	5.5-A
Warren County	PA	D-Suite	5.5-A
York County	PA	D-Suite	5.5-A
Hamilton County	TN	D-Suite	5.5-B
Williamson County	TN	D-Suite	5.5
Salt Lake County	UT	Assure	1.2
Amelia County	VA	D-Suite	4.14-E
Bedford County	VA	D-Suite	4.14-E
Buchanan County	VA	D-Suite	4.14-E
Charles City County	VA	D-Suite	4.14-E
Charlotte County	VA	D-Suite	4.14-E
Craig County	VA	D-Suite	4.14-E
Cumberland County	VA	D-Suite	4.14-E
Dickenson County	VA	D-Suite	4.14-E
Franklin County	VA	D-Suite	4.14-E
Gloucester County	VA	D-Suite	4.14-E
Greensville County	VA	D-Suite	4.14-E
King George County	VA	D-Suite	4.14-E
Lee County	VA	D-Suite	4.14-E
Louisa County	VA	D-Suite	4.14-E
Nottoway County	VA	D-Suite	4.14-E
Prence Edward County	VA	D-Suite	4.14-E
Radford City	VA	D-Suite	4.14-E
Russell County	VA	D-Suite	4.14-E
Scott County	VA	D-Suite	4.14-E
Smyth County	VA	D-Suite	4.14-E
Staunton City	VA	D-Suite	4.14-E
Suffolk City	VA	D-Suite	4.14-E
Sussex County	VA	D-Suite	4.14-E
Washington County	VA	D-Suite	4.14-E
Waynesboro City	VA	D-Suite	4.14-E
Franklin County	WA	D-Suite	5.5

Crawford County	Bridgeport Town	WI	D-Suite	4.14-D
Crawford County	Prairie du Chien, City of	WI	D-Suite	4.14-D
Grant County		WI	D-Suite	4.14-D
Iowa County	Mineral Point Town	WI	D-Suite	4.14-D
Juneau County	Armenia Town	WI	D-Suite	4.14-D
Juneau County	Clearfield Town	WI	D-Suite	4.14-D
Juneau County	Elroy City	WI	D-Suite	4.14-D
Juneau County	Germantown	WI	D-Suite	4.14-D
Juneau County	Lisbon, Town of	WI	D-Suite	4.14-D
Juneau County	Lyndon Town	WI	D-Suite	4.14-D
Juneau County	Mauston City	WI	D-Suite	4.14-D
Juneau County	Necedah Town	WI	D-Suite	4.14-D
Juneau County	Necedah Village	WI	D-Suite	4.14-D
Juneau County	Plymouth, Town of	WI	D-Suite	4.14-D
Marinette County	Marinette City	WI	D-Suite	4.14-D
Oconto County		WI	D-Suite	4.14-D
Price County		WI	D-Suite	4.14-D
Rusk County	Grant Town	WI	D-Suite	4.14-D
Rusk County	Ladysmith, City of	WI	D-Suite	4.14-D
Sawyer County	Bass Lake Town	WI	D-Suite	4.14-D
Sawyer County	Lenroot Town	WI	D-Suite	4.14-D
Vilas County		WI	D-Suite	4.14-D
Vilas County	Arbor Vitae Town	WI	D-Suite	4.14-D
Vilas County	Boulder Junction Town	WI	D-Suite	4.14-D
Vilas County	Cloverland Town	WI	D-Suite	4.14-D
Vilas County	Conover Town	WI	D-Suite	4.14-D
Vilas County	Eagle River City	WI	D-Suite	4.14-D
Vilas County	Lac du Flambeau Town	WI	D-Suite	4.14-D
Vilas County	Land O'Lakes Town	WI	D-Suite	4.14-D
Vilas County	Lincoln Town	WI	D-Suite	4.14-D
Vilas County	Manitowish Waters Town	WI	D-Suite	4.14-D
Vilas County	Phelps Town	WI	D-Suite	4.14-D
Vilas County	Plum Lake Town	WI	D-Suite	4.14-D
Vilas County	Presque Isle Town	WI	D-Suite	4.14-D
Vilas County	St. Germain Town	WI	D-Suite	4.14-D
Vilas County	Winchester Town	WI	D-Suite	4.14-D
Vilas County	Wshington Town	WI	D-Suite	4.14-D

[Manufacturer]

County	Jurisdiction	State	Product	Version

Unisyn Voting Solution

County	Jurisdiction	State	Product	Version
Yavapai County	Yavapai County	Arizona	OpenElect	2.0.A
Bond County	Bond County	Illinois	OpenElect	2.0.A
Boone County	Boone County	Illinois	OpenElect	2.0.A
Bureau County	Bureau County	Illinois	OpenElect	2.0.A
Carroll County	Carroll County	Illinois	OpenElect	2.0.A
Christian County	Christian County	Illinois	OpenElect	2.0.A
Clark County	Clark County	Illinois	OpenElect	2.0.A
Coles County	Coles County	Illinois	OpenElect	2.0.A
DeWitt County	DeWitt County	Illinois	OpenElect	2.0.A
Douglas County	Douglas County	Illinois	OpenElect	2.0.A
Edgar County	Edgar County	Illinois	OpenElect	2.0.A
Hardin County	Hardin County	Illinois	OpenElect	2.0.A
Livingston County	Livingston County	Illinois	OpenElect	2.0.A
Macon County	Macon County	Illinois	OpenElect	2.0.A
Macoupin County	Macoupin County	Illinois	OpenElect	2.0.A
Mason County	Mason County	Illinois	OpenElect	2.0.A
Moultrie County	Moultrie County	Illinois	OpenElect	2.0.A
Putnam County	Putnam County	Illinois	OpenElect	2.0.A
Shelby County	Shelby County	Illinois	OpenElect	2.0.A
Stephenson County	Stephenson County	Illinois	OpenElect	2.0.A
Tazewell County	Tazewell County	Illinois	OpenElect	2.0.A
Vermilion County	Vermilion County	Illinois	OpenElect	2.0.A
Whiteside County	Whiteside County	Illinois	OpenElect	2.0.A
Floyd County	Floyd County	Indiana	OpenElect	2.0.A
Jackson County	Jackson County	Indiana	OpenElect	2.0.A
Montgomery County	Montgomery County	Indiana	OpenElect	2.0.A
Posey County	Posey County	Indiana	OpenElect	2.0.A
St. Joseph County	St. Joseph County	Indiana	OpenElect	2.0.A
Vigo County	Vigo County	Indiana	OpenElect	2.0.A
Adams County	Adams County	Iowa	OpenElect	2.1
Allamakee County	Allamakee County	Iowa	OpenElect	2.1
Audubon County	Audubon County	Iowa	OpenElect	2.1
Benton County	Benton County	Iowa	OpenElect	2.1
Boone County	Boone County	Iowa	OpenElect	2.1
Buchanan County	Buchanan County	Iowa	OpenElect	2.1
Buena Vista County	Buena Vista County	Iowa	OpenElect	2.1
Butler County	Butler County	Iowa	OpenElect	2.1
Calhoun County	Calhoun County	Iowa	OpenElect	2.1
Carroll County	Carroll County	Iowa	OpenElect	2.1
Cass County	Cass County	Iowa	OpenElect	2.1
Cerro Gordo County	Cerro Gordo County	Iowa	OpenElect	2.0
Cherokee County	Cherokee County	Iowa	OpenElect	2.1

Chickasaw County	Chickasaw County	Iowa	OpenElect	2.1
Clarke County	Clarke County	Iowa	OpenElect	2.1
Clay County	Clay County	Iowa	OpenElect	2.1
Crawford County	Crawford County	Iowa	OpenElect	2.1
Dallas County	Dallas County	Iowa	OpenElect	1.33M
Davis County	Davis County	Iowa	OpenElect	2.1
Decatur County	Decatur County	Iowa	OpenElect	2.1
Des Moines County	Des Moines County	Iowa	OpenElect	2.1
Dubuque County	Dubuque County	Iowa	OpenElect	2.1
Floyd County	Floyd County	Iowa	OpenElect	2.1
Franklin County	Franklin County	Iowa	OpenElect	2.1
Fremont County	Fremont County	Iowa	OpenElect	2.1
Greene County	Greene County	Iowa	OpenElect	2.1
Guthrie County	Guthrie County	Iowa	OpenElect	2.1
Hamilton County	Hamilton County	Iowa	OpenElect	2.1
Hancock County	Hancock County	Iowa	OpenElect	2.1
Harrison County	Harrison County	Iowa	OpenElect	2.1
Henry County	Henry County	Iowa	OpenElect	2.1
Howard County	Howard County	Iowa	OpenElect	2.1
Humboldt County	Humboldt County	Iowa	OpenElect	2.1
Ida County	Ida County	Iowa	OpenElect	2.1
Iowa County	Iowa County	Iowa	OpenElect	2.1
Jackson County	Jackson County	Iowa	OpenElect	2.1
Jefferson County	Jefferson County	Iowa	OpenElect	2.1
Keokuk County	Keokuk County	Iowa	OpenElect	2.1
Louisa County	Louisa County	Iowa	OpenElect	2.1
Lyon County	Lyon County	Iowa	OpenElect	2.1
Madison County	Madison County	Iowa	OpenElect	2.1
Mahaska County	Mahaska County	Iowa	OpenElect	2.1
Marion County	Marion County	Iowa	OpenElect	2.1
Marshall County	Marshall County	Iowa	OpenElect	2.0
Mills County	Mills County	Iowa	OpenElect	2.1
Monona County	Monona County	Iowa	OpenElect	2.1
Monroe County	Monroe County	Iowa	OpenElect	2.1
Montgomery County	Montgomery County	Iowa	OpenElect	2.1
O'Brien County	O'Brien County	Iowa	OpenElect	2.1
Osceola County	Osceola County	Iowa	OpenElect	2.1
Page County	Page County	Iowa	OpenElect	2.1
Plymouth County	Plymouth County	Iowa	OpenElect	2.1
Pocahontas County	Pocahontas County	Iowa	OpenElect	2.1
Polk County	Polk County	Iowa	OpenElect	1.33M
Poweshiek County	Poweshiek County	Iowa	OpenElect	2.1
Ringgold County	Ringgold County	Iowa	OpenElect	2.1
Sac County	Sac County	Iowa	OpenElect	2.1
Shelby County	Shelby County	Iowa	OpenElect	2.1

Sioux County	Sioux County	Iowa	OpenElect	2.1
Story County	Story County	Iowa	OpenElect	2.1
Taylor County	Taylor County	Iowa	OpenElect	2.1
Union County	Union County	Iowa	OpenElect	2.1
Warren County	Warren County	Iowa	OpenElect	2.1
Washington County	Washington County	Iowa	OpenElect	2.1
Webster County	Webster County	Iowa	OpenElect	2
Winnebago County	Winnebago County	Iowa	OpenElect	2.1
Winneshiek County	Winneshiek County	Iowa	OpenElect	2.1
Worth County	Worth County	Iowa	OpenElect	2.1
Wright County	Wright County	Iowa	OpenElect	2.1
Anderson County	Anderson County	Kansas	OpenElect	2.0.A
Barber County	Barber County	Kansas	OpenElect	2.0.A
Chase County	Chase County	Kansas	OpenElect	2.0.A
Clark County	Clark County	Kansas	OpenElect	2.0.A
Clay County	Clay County	Kansas	OpenElect	2.0.A
Comanche County	Comanche County	Kansas	OpenElect	2.0.A
Douglas County	Douglas County	Kansas	OpenElect	2.0.A
Gove County	Gove County	Kansas	OpenElect	2.0.A
Grant County	Grant County	Kansas	OpenElect	2.0.A
Harper County	Harper County	Kansas	OpenElect	2.0.A
Jefferson County	Jefferson County	Kansas	OpenElect	2.0.A
Kiowa County	Kiowa County	Kansas	OpenElect	2.0.A
Marshall County	Marshall County	Kansas	OpenElect	2.0.A
Meade County	Meade County	Kansas	OpenElect	2.0.A
Morris County	Morris County	Kansas	OpenElect	2.0.A
Ottawa County	Ottawa County	Kansas	OpenElect	2.0.A
Pottawatomie County	Pottawatomie County	Kansas	OpenElect	2.0.A
Pratt County	Pratt County	Kansas	OpenElect	2.0.A
Russell County	Russell County	Kansas	OpenElect	2.0.A
Seward County	Seward County	Kansas	OpenElect	2.0.A
Wabaunsee County	Wabaunsee County	Kansas	OpenElect	2.0.A
Woodson County	Woodson County	Kansas	OpenElect	2.0.A
Andrew County	Andrew County	Missouri	OpenElect	1.3
Atchison County	Atchison County	Missouri	OpenElect	1.3
Audrain County	Audrain County	Missouri	OpenElect	1.3
Barry County	Barry County	Missouri	OpenElect	2.1
Barton County	Barton County	Missouri	OpenElect	1.3
Bates County	Bates County	Missouri	OpenElect	1.3
Benton County	Benton County	Missouri	OpenElect	1.3
Bollinger County	Bollinger County	Missouri	OpenElect	1.3
Buchanan County	Buchanan County	Missouri	OpenElect	1.3
Caldwell County	Caldwell County	Missouri	OpenElect	1.3
Camden County	Camden County	Missouri	OpenElect	1.3
Cape Girardeau County	Cape Girardeau County	Missouri	OpenElect	1.3

Cass County	Cass County	Missouri	OpenElect	2.1
Cedar County	Cedar County	Missouri	OpenElect	2.1
Chariton County	Chariton County	Missouri	OpenElect	1.3
Christian County	Christian County	Missouri	OpenElect	1.3
Clark County	Clark County	Missouri	OpenElect	1.3
Clay County	Clay County	Missouri	OpenElect	2.1
Clinton County	Clinton County	Missouri	OpenElect	1.3
Cole County	Cole County	Missouri	OpenElect	1.3
Dade County	Dade County	Missouri	OpenElect	1.3
Dallas County	Dallas County	Missouri	OpenElect	1.3
Daviess County	Daviess County	Missouri	OpenElect	1.3
DeKalb County	DeKalb County	Missouri	OpenElect	1.3
Dent County	Dent County	Missouri	OpenElect	1.3
Douglas County	Douglas County	Missouri	OpenElect	1.3
Dunklin County	Dunklin County	Missouri	OpenElect	1.3
Franklin County	Franklin County	Missouri	OpenElect	1.3
Gentry County	Gentry County	Missouri	OpenElect	1.3
Hickory County	Hickory County	Missouri	OpenElect	1.3
Holt County	Holt County	Missouri	OpenElect	1.3
Howard County	Howard County	Missouri	OpenElect	1.3
Howell County	Howell County	Missouri	OpenElect	1.3
Iron County	Iron County	Missouri	OpenElect	1.3
Jackson County	Jackson County	Missouri	OpenElect	2.0
Jefferson County	Jefferson County	Missouri	OpenElect	1.3
Knox County	Knox County	Missouri	OpenElect	1.3
Lawrence County	Lawrence County	Missouri	OpenElect	1.3
Lewis County	Lewis County	Missouri	OpenElect	1.3
Linn County	Linn County	Missouri	OpenElect	1.3
Madison County	Madison County	Missouri	OpenElect	1.3
Marion County	Marion County	Missouri	OpenElect	1.3
Miller County	Miller County	Missouri	OpenElect	1.3
Monroe County	Monroe County	Missouri	OpenElect	1.3
Morgan County	Morgan County	Missouri	OpenElect	1.3
New Madrid	New Madrid	Missouri	OpenElect	1.3
Oregon County	Oregon County	Missouri	OpenElect	1.3
Ozark County	Ozark County	Missouri	OpenElect	1.3
Perry County	Perry County	Missouri	OpenElect	1.3
Pettis County	Pettis County	Missouri	OpenElect	2.1
Platte County	Platte County	Missouri	OpenElect	1.3
Pulaski County	Pulaski County	Missouri	OpenElect	1.3
Putnam County	Putnam County	Missouri	OpenElect	1.3
Ralls County	Ralls County	Missouri	OpenElect	1.3
Randolph County	Randolph County	Missouri	OpenElect	1.3
Ray County	Ray County	Missouri	OpenElect	1.3
Reynolds County	Reynolds County	Missouri	OpenElect	1.3

Ripley County	Ripley County	Missouri	OpenElect	1.3
Schuyler County	Schuyler County	Missouri	OpenElect	1.3
Scotland County	Scotland County	Missouri	OpenElect	1.3
Scott County	Scott County	Missouri	OpenElect	1.3
Shannon County	Shannon County	Missouri	OpenElect	1.3
Shelby County	Shelby County	Missouri	OpenElect	1.3
St. Charles County	St. Charles County	Missouri	OpenElect	1.3
St. Francois County	St. Francois County	Missouri	OpenElect	1.3
Ste. Genevieve County	Ste. Genevieve County	Missouri	OpenElect	1.3
Stoddard County	Stoddard County	Missouri	OpenElect	1.3
Stone County	Stone County	Missouri	OpenElect	1.3
Taney County	Taney County	Missouri	OpenElect	1.3
Texas County	Texas County	Missouri	OpenElect	1.3
Washington County	Washington County	Missouri	OpenElect	1.3
Wayne County	Wayne County	Missouri	OpenElect	1.3
Webster County	Webster County	Missouri	OpenElect	1.3
Ashland County	Ashland County	Ohio	OpenElect	2.1
Brown County	Brown County	Ohio	OpenElect	2.1
Defiance County	Defiance County	Ohio	OpenElect	2.1
Delaware County	Delaware County	Ohio	OpenElect	2.1
Fulton County	Fulton County	Ohio	OpenElect	2.1
Holmes County	Holmes County	Ohio	OpenElect	2.1
Marion County	Marion County	Ohio	OpenElect	2.1
Meigs County	Meigs County	Ohio	OpenElect	2.1
Union County	Union County	Ohio	OpenElect	2.1
Washington County	Washington County	Ohio	OpenElect	2.1
Bradford County	Bradford County	Pennsylvania	OpenElect	2.0.A
Columbia County	Columbia County	Pennsylvania	OpenElect	2.0.A
Susquehanna County	Susquehanna County	Pennsylvania	OpenElect	2.0.A
Union County	Union County	Pennsylvania	OpenElect	2.0.A
Cheatham County	Cheatham County	Tennessee	OpenElect	2.0.A
Polk County	Polk County	Tennessee	OpenElect	2.0.A
Beaver County	Beaver County	Utah	OpenElect	2.0.A
Accomack County	Accomack County	Virginia	OpenElect	2.0.A
Arlington County	Arlington County	Virginia	OpenElect	2.0.A
Augusta County	Augusta County	Virginia	OpenElect	2.0.A
Brunswick County	Brunswick County	Virginia	OpenElect	2.0.A
City of Bristol	City of Bristol	Virginia	OpenElect	1.3.0.1
City of Danville	City of Danville	Virginia	OpenElect	1.3.0.1
City of Fairfax	City of Fairfax	Virginia	OpenElect	1.3.0.1
City of Galax	City of Galax	Virginia	OpenElect	1.3.0.1
City of Lynchburg	City of Lynchburg	Virginia	OpenElect	1.3.0.1
City of Manassas	City of Manassas	Virginia	OpenElect	1.3.0.1
City of Manassas Park	City of Manassas Park	Virginia	OpenElect	1.3.0.1
City of Roanoke	City of Roanoke	Virginia	OpenElect	1.3.0.1

City of Williamsburg	City of Williamsburg	Virginia	OpenElect	1.3.0.1
City of Winchester	City of Winchester	Virginia	OpenElect	1.3.0.1
Dinwiddie County	Dinwiddie County	Virginia	OpenElect	1.3.0.1
Fluvanna County	Fluvanna County	Virginia	OpenElect	1.3.0.1
Greene County	Greene County	Virginia	OpenElect	1.3.0.1
Halifax County	Halifax County	Virginia	OpenElect	1.3.0.1
Highland County	Highland County	Virginia	OpenElect	1.3.0.1
James City County	James City County	Virginia	OpenElect	1.3.0.1
Lancaster County	Lancaster County	Virginia	OpenElect	1.3.0.1
Loudon County	Loudon County	Virginia	OpenElect	1.3.0.1
Mathews County	Mathews County	Virginia	OpenElect	1.3.0.1
Middlesex County	Middlesex County	Virginia	OpenElect	1.3.0.1
Montgomery County	Montgomery County	Virginia	OpenElect	1.3.0.1
Nelson County	Nelson County	Virginia	OpenElect	1.3.0.1
Northampton County	Northampton County	Virginia	OpenElect	1.3.0.1
Orange County	Orange County	Virginia	OpenElect	1.3.0.1
Powhatan County	Powhatan County	Virginia	OpenElect	1.3.0.1
Roanoke County	Roanoke County	Virginia	OpenElect	1.3.0.1
Rockingham County	Rockingham County	Virginia	OpenElect	1.3.0.1
Shenandoah County	Shenandoah County	Virginia	OpenElect	1.3.0.1
Spotsylvania County	Spotsylvania County	Virginia	OpenElect	1.3.0.1
Warren County	Warren County	Virginia	OpenElect	1.3.0.1

Agenda for VVSG 2.0 Implementation Working Group Telecon
July 17, 2020

Focus for this meeting is on the requirements in Principle 1, Guideline 1 and, if there is time, Guidelines 2 and 3. These are the major functional requirements for voting systems and, in some cases, certain devices within the voting system. Most of the requirements can be tested via demonstration and test cases are not necessarily needed. The intention of this telecon is to address major themes in the comments as opposed to each and every comment.

The requirements in P1.1 are largely inherited from the 2007 TGDC Recommendations, which themselves were reorganizations of similar requirements spread throughout VVSG 1.0. There are currently organized into the following sections:

- Election definition
- Equipment setup
- Opening the polls
- Ballot activation
- Casting
- Recording voter choices and ballot handling
- Closing the polls
- Tabulation
- Reporting

Major themes in the comments include:

1. Manner in which the requirements are written, including making them clearer. We can go over several examples but there is no need to address them all.

2. Common data formats and requiring them within the voting system.

3. L&A testing and whether a different method for testing election setup is preferred.

4. Requirements that may needlessly prevent some voting system operations or reflect a non-understanding of election needs.

The telecon will focus on these major themes and address the relevant requirements accordingly.