

**Minutes**  
**State Election Commission Meeting**  
**January 8, 2018**

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The State Election Commission meeting was called to order by Commissioner Donna Barrett at 12:05 p.m., Central Standard Time, January 8, 2018. The following members and staff were present: Commissioners Barrett, Blackburn, Duckett, McDonald and Younce; Chairman Wallace was connected by phone; Coordinator of Elections Mark Goins and Kathy Summers, Elections Specialist.

Commissioner Duckett made a motion to adopt the minutes from October 9, 2017, November 9, 2017, November 28, 2017 and December 12, 2017, Commissioner Blackburn seconded the motion and the minutes were unanimously approved. (Aye votes: Barrett, Blackburn, Duckett, McDonald and Younce; No votes: None; Abstention: None.)

No county election commission appointments were made.

**Old Business**

- **Everyone Counts – Cheryl Clark — Voter Registration Update.** - Cheryl Clark gave an update of the voting software system currently being implemented in Shelby County by Everyone Counts. Ms. Clark stated the project is on target and that there are two phases of implementation. The first phase is due March 15, 2018, and the final phase is to be finalized by June 29, 2018. State interface has been developed and is in the testing process. Small Planet Works of Shelby County is assisting with the security and training components of the system. Linda Phillips, AOE from Shelby County also attended and spoke with commission members regarding the system. Mrs. Phillips said their office will be run a parallel system with their Legacy system and the new system before they sign off on the new system. Mrs. Phillips anticipates running both systems through the May election cycle.
  
- **Hart – Verity 2.0 Voting Machine Certification Request.** Bob Heisner of Hart InterCivic and Chad Colgan of Harp spoke before the commission requesting state certification of the Verity 2.0 voting machine. The Verity 2.0 machine is EAC certified. The EAC certification number is: HRTVerity2.0. Mr. Heisner discussed the questionnaires submitted by four (4) users in the State of Texas and requested approval of the Verity 2.0 voting machine.

Coordinator Goins discussed the concern of one race to a page. Chad Colgan, of Harp stated there is EAC recommended functionality, which requires a control bar. After casting a vote the scroll bar will default back to the same field after the voter has selected their choice. Verity 2.0 could handle 300 candidates but will be expanding.

Coordinator Goins discussed the access code. Mr. Colgan stated the access code for Verity is very similar to the way the Legacy system works. Instead of a four (4) digit code, Verity 2.0 requires a five (5) digit code and is issued by the controller and given to the voter. The voter enters the access code into the machine.

Coordinator Goins asked about the battery life. Mr. Colgan said the Verity 2.0 battery is a rechargeable lithium ion battery, and the batteries do not continually charge while plugged in due to overcharging of the batteries. Harp recommends their users have hot spares available at the polls. The recommended minimum life of a battery charge is two (2) hours but Harp believes their charge is longer. The majority of the time the voting machines are hooked up to electricity when they are in use, with battery backup if there is a loss of electricity.

Coordinator Goins was okay with moving forward with certification, but would like to have in writing what the upgrades were as detailed in the questionnaires.

Commissioner Blackburn made a motion to approve the Verity 2.0 voting machine, Commissioner McDonald seconded the motion and the machine was unanimously approved. (Aye votes: Barrett, Blackburn, Duckett, McDonald and Younce; No votes: None; Abstention: None.) **(See attached questionnaires and certification information.)**

### **New Business**

- **EVS 5.2.2.0 Voting System – Certification - Presented by Ben Swartz.** – Ben Swartz gave the presentation of the EVS 5.2.2.0 voting machine. Mr. Swartz discussed the questionnaires submitted by three (3) current users in Arkansas and Texas, and requested approval of the EVS 5.2.2.0 voting machine. The ES&S EVS 5.2.2.0 voting machine is EAC certified. The EAC certification number is: ESSEVS5220.

Coordinator Goins asked about the reference to the Express Pollbook in the questionnaires. The concern was the poll books were not holding a charge. Many counties will also buy the poll book component with this new machine. Mr. Swartz indicated this was an isolated incident.

Commissioner Barrett stated, for any Tennessee county using this machine, the State Election Commission specifically, requires the use of ballot tote bins and serially-numbered ballots with ballot stubs.

Commissioner Younce made a motion to certify the EVS 5.2.2.0 voting system, and Commissioner McDonald seconded the motion. The motion was unanimously approved. (Aye votes: Barrett, Blackburn, Duckett, McDonald, and Younce; No votes: None; Abstention: None.) **(See attached presentation documents, questionnaires and certification information.)**

- **Approval of those Administrators of Elections who passed the certification exam given on December 12.**

Commissioner Blackburn made a motion to certify those Administrators of Elections who passed the certification test on December 12, and Commissioner Duckett seconded the motion. The motion was unanimously approved. (Aye votes: Barrett, Blackburn, Duckett, McDonald, and Younce; No votes: None; Abstention: None.) **(See attached memo regarding administrators passing the certification test.)**

County	Administrator
Cheatham	Pam Frejosky
Chester	Kathy Vest
Grundy	Garry Miller

### **Coordinator Update**

- **Voter List Maintenance** – Coordinator Goins discussed the State Election Commission policy on selling voter lists. The Coordinator has allowed counties to use USB/thumb drives when selling the voter list, and he asked the State Election Commission to amend their policy to allow such use. There would be no increase in price when purchasing the list on a USB/thumb drive.

Commissioner Younce made a motion to allow counties to use USB/Thumb drives or other media devices, provided that the devices are only supplied by the county election commission, Commissioner Blackburn seconded the motion. The motion was unanimously approved. (Aye votes: Barrett, Blackburn, Duckett, McDonald, and Younce; No votes: None; Abstention: None.) **(See attached revised policy.)**

- **Draft of Possible Legislative Changes Regarding Qualifications of County Election Commissioners** – Beth Henry – Robertson discussed the drafted policy changes. (See attached draft of legislation.)

Commissioner Duckett spoke about voter registration and voter turnout in Tennessee. One report says Tennessee ranks 40<sup>th</sup> for voter registration and last on voter participation. Commissioner Duckett would like for Tennessee to consider using the opt out process when an applicant completes a transaction with the Department of Safety. This would mean eligible applicants completing a transaction, at Safety, would automatically have their voter information transmitted to the county election commission unless an applicant opts out of registering or updating their voter registration.

Commissioner Mike McDonald commended Secretary Hargett and Coordinator Goins on what they have done to promote voter registration. Commissioner McDonald said that it is disheartening, and that is not a partisan issue but a participation issue.

Chairman Wallace stated that we need to make people aware they can register to vote, but no one should force people to vote.

Coordinator Goins discussed the opt in opt out process known as automatic voter registration. The General Assembly looked at the process in 2017. Coordinator Goins believes turnout is based on competitive races.

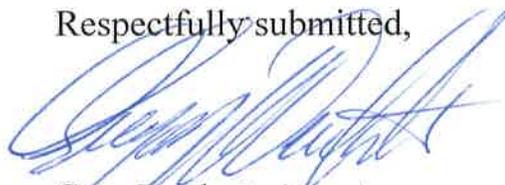
Commissioner Barrett is hoping the implementation of vote centers and online voter registration will increase voter turnout.

Commissioner McDonald made a motion to adjourn; Commissioner Younce seconded the motion and was unanimously approved. (Aye votes: Barrett, Blackburn, Duckett, McDonald and Younce; No votes: None; Abstention: None.)

The next regularly scheduled meeting is set for April 9, 2018, and will be held in the William R. Snodgrass – Tennessee Tower, Nashville Room - 3<sup>rd</sup> floor at 12:00 Noon, Central Standard Time.

The meeting was adjourned at 1:40 p.m. Central Standard Time.

Respectfully submitted,



Greg Duckett, Secretary  
State Election Commission

# Vacant Status

08-Jan-18

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## Decatur

D Greg Duckett  
R Jimmy Wallace

D

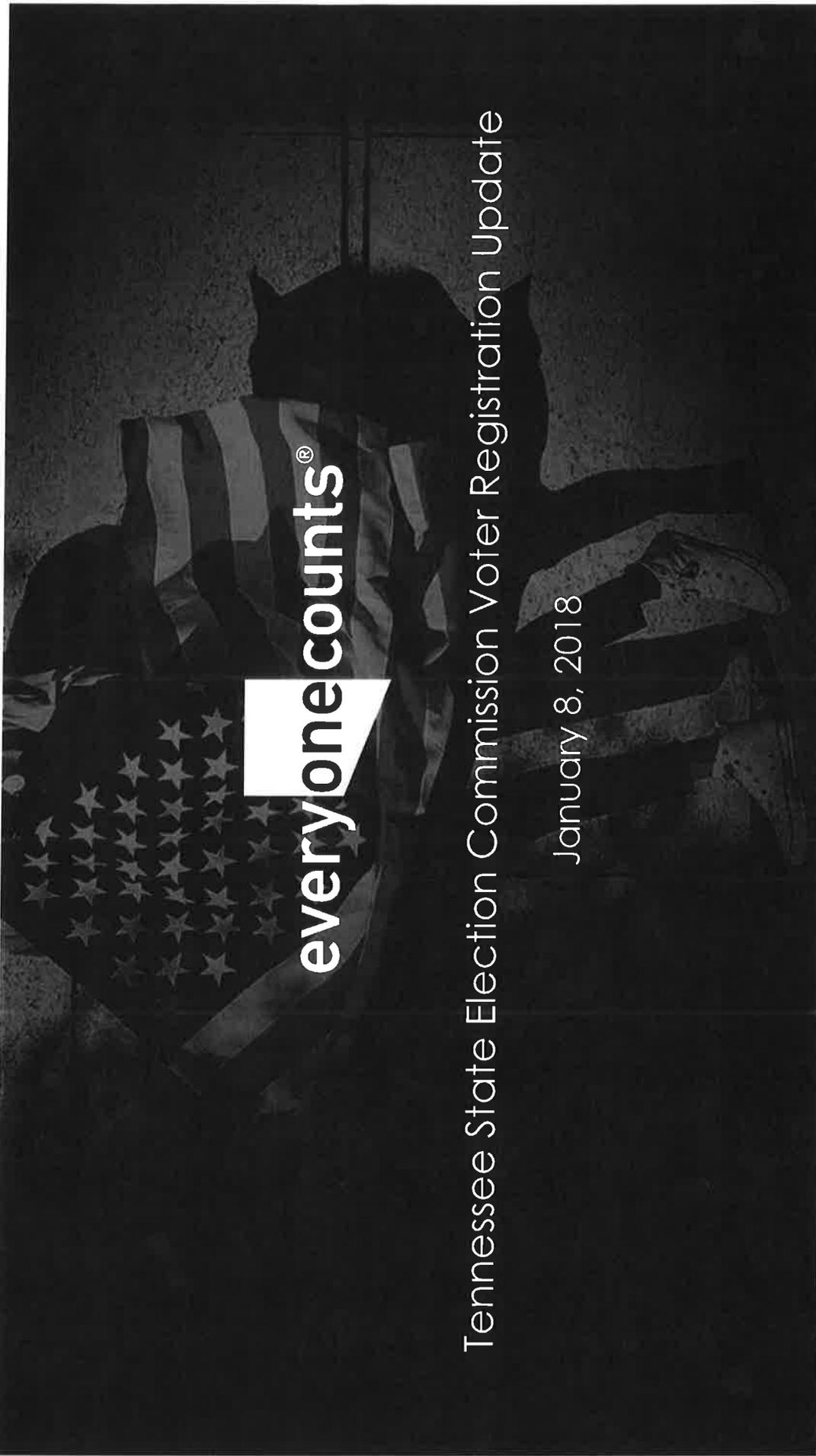
**Total Vacancies: 1**

# Everyone Counts

## Update

January 8, 2018

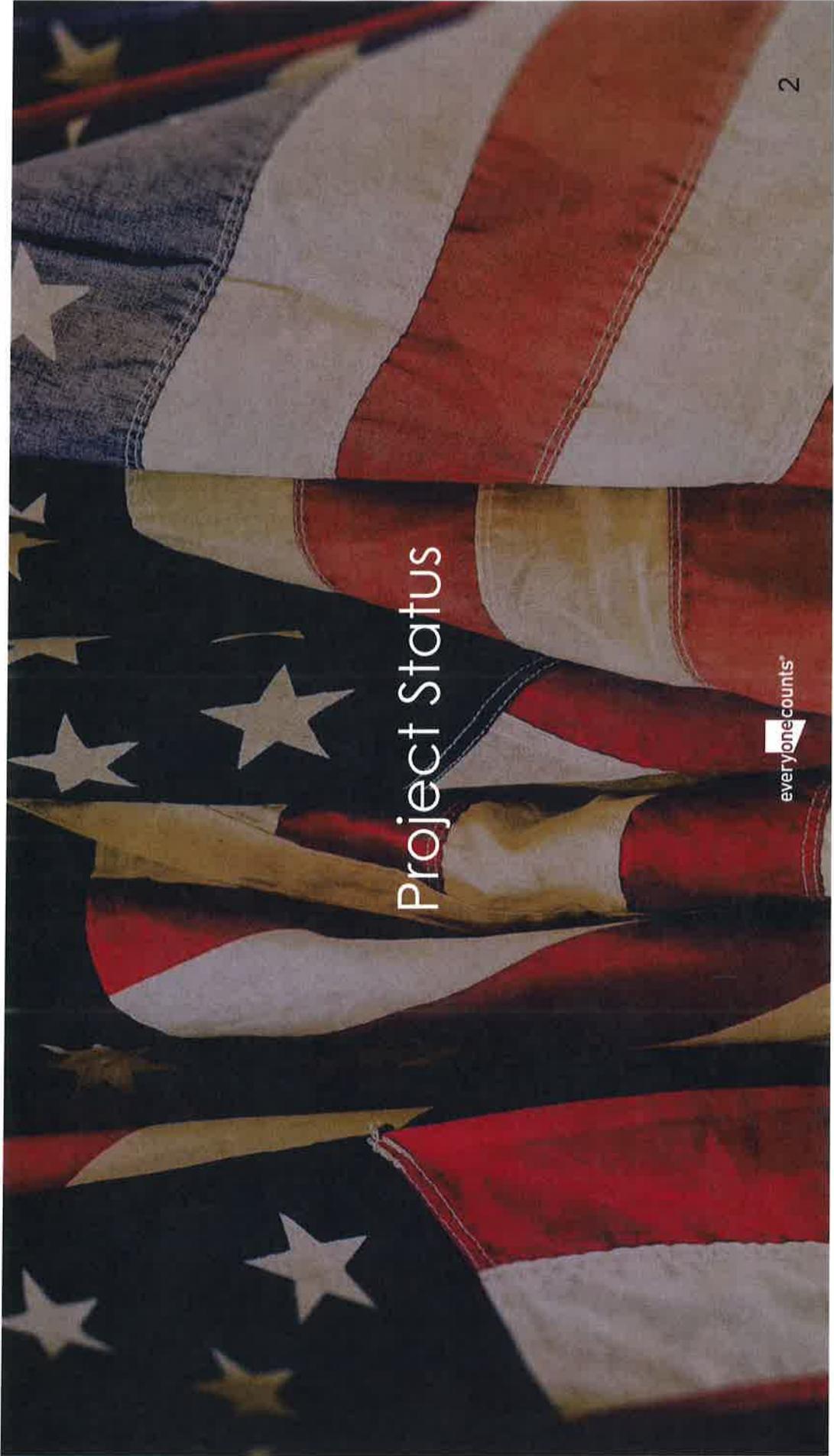
- Cheryl Clarke, Director of Operations for Everyone Counts
- Linda Phillips, Administrator of Elections for Shelby County

An American flag is draped over a wooden table. The stars and stripes are visible, though somewhat muted due to the dark background. The table's surface is made of dark wood with visible grain and joints.

**everyone counts<sup>®</sup>**

Tennessee State Election Commission Voter Registration Update

January 8, 2018



# Project Status

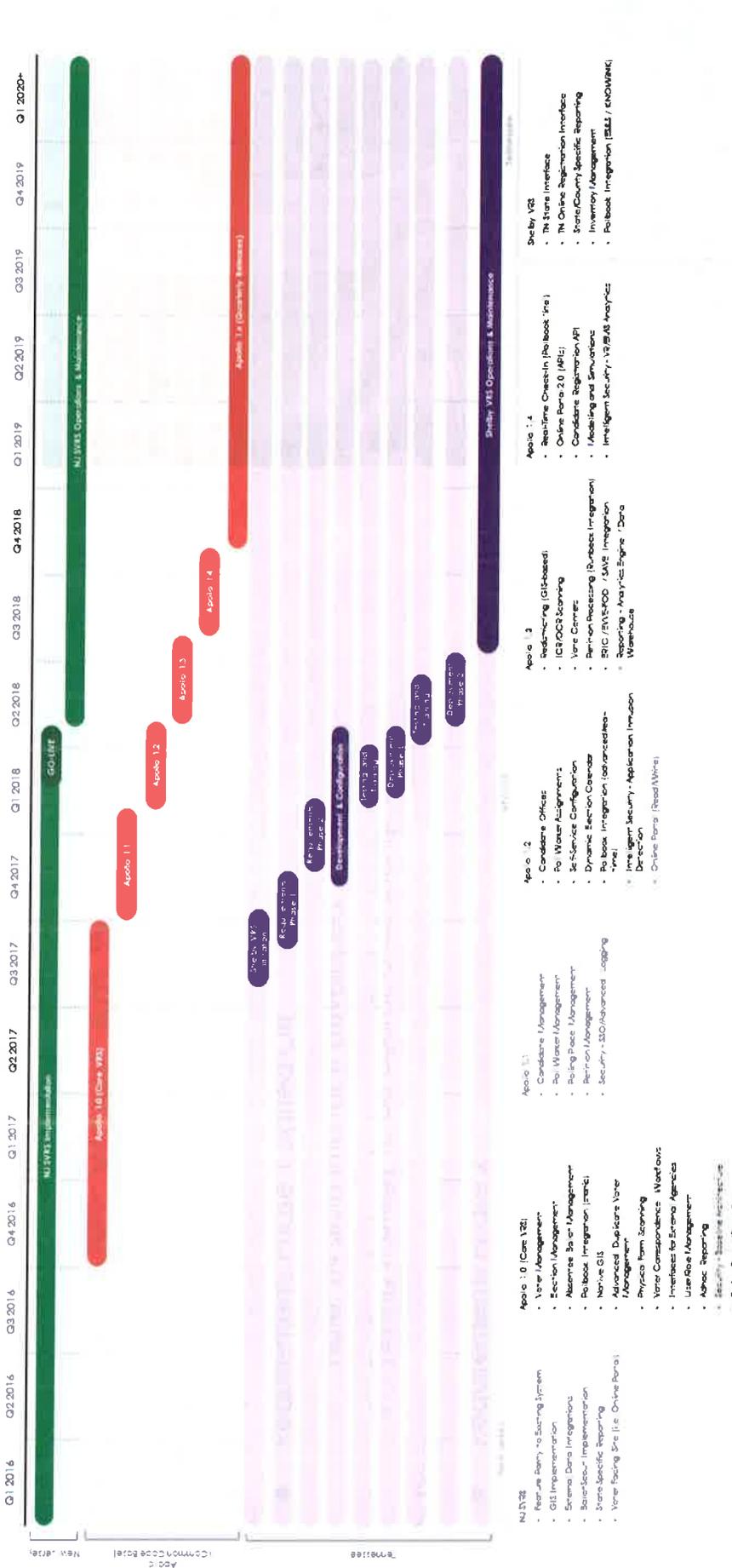
everyone counts

## Shelby County VRS: Building the Right Plan

- 2 phase plan for VRS deployment/go live in place
  - Started three months later than originally anticipated due to contract finalization
- Phased plan prioritizes those VRS components essential to spring election delivery
  - Designed to take advantage of live election process to test and confirm the system
- Full product delivery scheduled for June 29, 2018



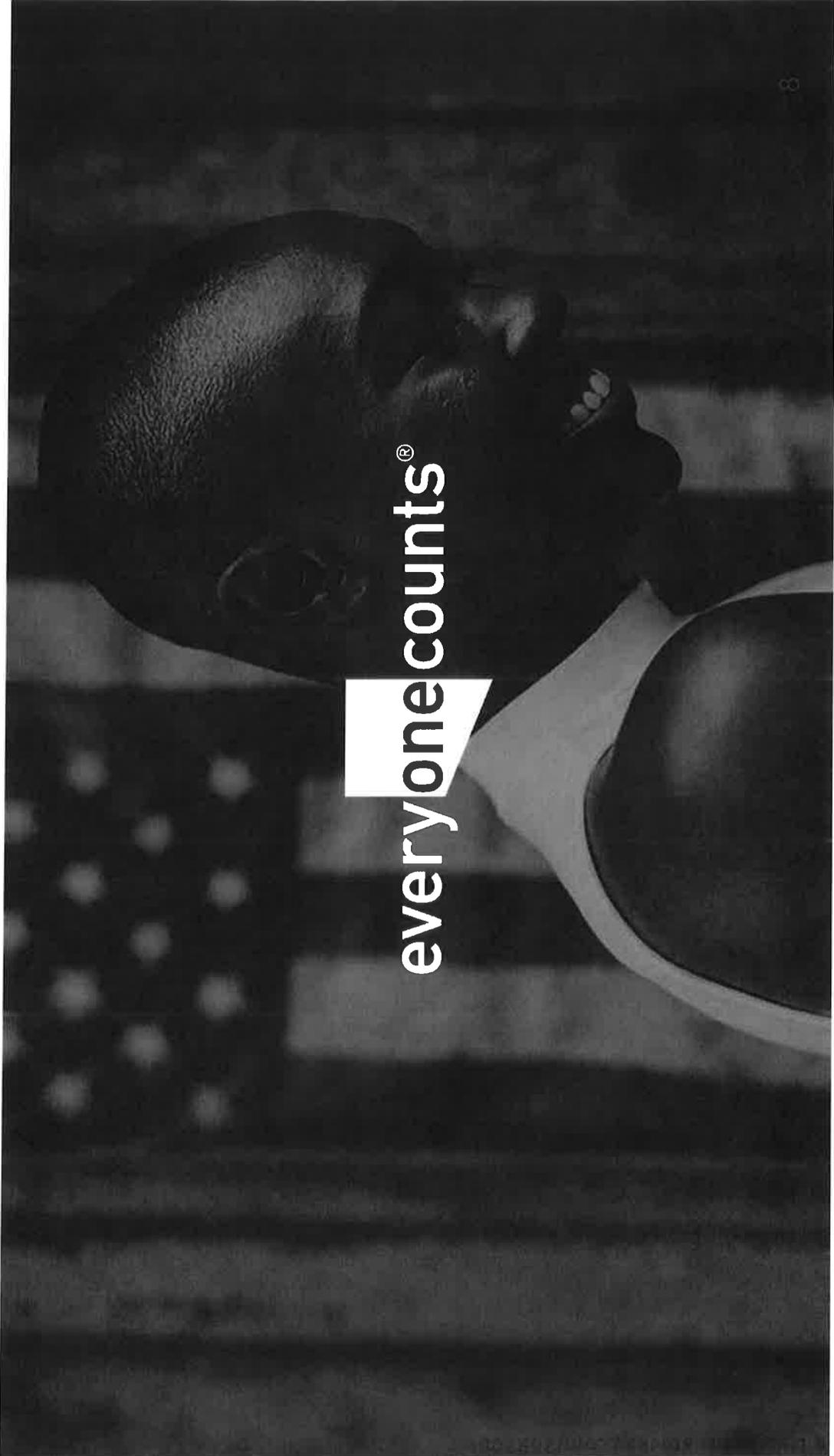
# EIC Product Roadmap - Voter Registration



# Questions

everyonecounts™





everyone counts®

# PROCEDURES FOR CERTIFYING VOTING MACHINES BY THE TENNESSEE STATE ELECTION COMMISSION

All voting machines/vendors must receive certification from the state election commission and the coordinator of elections before any voting machines or systems may be sold in the State of Tennessee.

## **First Step:**

Any interested vendor should submit a written request to the coordinator of elections and the state election commission requesting certification of your company together with the EAC certification number, a financial report and a list of all states that have already bought your voting machines or systems. If you would like to demonstrate your product at a meeting of the state election commission, please make that request in your letter. You will be notified of the date, time, and place of the meeting where you may make your presentation.

## **Second Step:**

### **A. Voting Machine Procedure**

Following verification of EAC certification and an initial presentation of your product and/or services, you would need to arrange for at least two (2) State Election Commissioners (of opposite parties) and the coordinator of elections (or designee) to view your machines or system in use in an election of a substantial size in another state. An election of a substantial size involves at the minimum the following characteristics:

- The jurisdiction has a population of at least 10,000 persons;
- The jurisdiction has at least two (2) or more district races on the ballots; and
- There are at least two (2) contested races involving both at large and district races on the ballot.

### **B. Voting Machine Software or Hardware Upgrade**

- EAC Certification;
- Presentation of upgrade before State Election Commission at a meeting; and
- Viewing of upgrade in another state (In lieu of viewing machine in another state, at the discretion of the State Election Commission, letters of recommendation from users in other jurisdiction may be used as support for approval.)

### **C. De Minimis Voting System Changes**

- Any De Minimis change to an EAC certified voting system shall be submitted to the state election commission and coordinator of elections to be approved. For purposes of approval of the de minimis change to the voting system, all that will be required is a letter from the EAC stating the change is de minimis, unless further information is requested by the state election commission or coordinator of elections.

## **Third Step:**

The State Election Commission must vote to certify the machine in order for the machines to be used in an election in Tennessee.

You may send any correspondence for both the state election commission and the coordinator of elections to the following address:

312 Rosa L.Parks Avenue, 7<sup>th</sup> Floor  
William R. Snodgrass Tower  
Nashville, Tennessee 37243  
(615) 741-7956

If you have any further questions regarding certification of your company, please feel free to contact the office of the state election coordinator at the phone number listed above.

Tennessee Secretary of State  
Tre Hargett

COPY



Elections Division  
312 Rosa L. Parks Avenue, 7<sup>th</sup> Floor  
Nashville, Tennessee 37243-1102

Mark Goins  
Coordinator of Elections

615-741-7956  
Mark.Goins@tn.gov

February 5, 2018

Pam Cardenas  
Certification Manager, Hart Intercivic  
15500 Wells Port Drive  
Austin, TX 78728

Dear Ms. Cardenas,

This letter is to inform you of certification of the Hart Verity 2.0 voting machine, bearing the EAC Certification Number: HRTVerity2.0, by the State Election Commission (SEC) on January 8, 2018. Your voting machine was presented to the SEC for demonstration, and the SEC has received and reviewed the questionnaires completed by counties currently using Verity 2.0 voting system.

Thank you for your cooperation in the certification process.

Sincerely,

Mark Goins  
Coordinator of Elections

c/cc: Chad Colgan, Harp - Territory Manager  
Enclosure: EAC Certification Number HRTVerity2.0



United States Election Assistance Commission

Certificate of Conformance

Hart InterCivic Verity 2.0



The voting system identified on this certificate has been evaluated at an accredited voting system testing laboratory for conformance to the 2005 Voluntary Voting System Guidelines (2005 VVSG) . 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: Verity
Model or Version: 2.0
Name of VSTL: SLJ Global
EAC Certification Number: HRTVerity2.0
Date Issued: 4/27/2016

[Signature]
Executive Director
U.S. Election Assistance Commission
Scope of Certification Attached

# Hart InterCivic Verity Voting 2.0 Certification Request

## Presenter:

Bob Heisner, Hart InterCivic

## Survey Responses:

- Roxzine Stinson, Chief Deputy – Lubbock Co, TX
- Yvonne Ramon, Elections Administrator – Hidalgo Co, TX
- Blanca McBride, Elections Administrator – DeWitt Co, TX
- Shannon Lackey, Elections Administrator – Randall Co, TX

## EAC – Certification Number

## HRTVerity 2.0



**United States Election Assistance Commission**

**Certificate of Conformance**

**Hart InterCivic Verity 2.0**



The voting system identified on this certificate has been evaluated at an accredited voting system testing laboratory for conformance to the 2005 *Voluntary Voting System Guidelines (2005 VVSG)* . 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: Verity

Model or Version: 2.0

Name of VSTL: SLI Global

EAC Certification Number: HRTVerity2.0

Date Issued: 4/27/2016

*Executive Director  
U.S. Election Assistance Commission*

**Scope of Certification Attached**

## Kathy Summers

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**From:** Mark Goins  
**Sent:** Wednesday, December 06, 2017 2:03 PM  
**To:** Cardenas, Pamela  
**Cc:** Kathy Summers; Chad Colgan  
**Subject:** Voting System Reference Questions for Tennessee  
**Attachments:** Voting System Reference Questions for Tennessee.docx

Pam,

The questions are attached. Please have three jurisdictions answer the questions and mail the responses directly to our office at the address below to Kathy Summers. Please let me know if you have any questions.

Sincerely,

Mark Goins

Mark Goins  
Coordinator of Elections  
Division of Elections  
Office of Tennessee Secretary of State Tre Hargett  
312 Rosa L. Parks Ave., 7th Floor  
William R. Snodgrass Tower  
Nashville, TN 37243  
(615) 741-7956  
(615) 741-1278 (fax)

This electronic mail may be subject to the Tennessee Public Records Act, Tenn. Code Ann. §10-7-503 *et seq.* Any reply to this email may also be subject to this act.

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## Kathy Summers

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**From:** Mark Goins  
**Sent:** Thursday, December 07, 2017 3:31 PM  
**To:** Cardenas, Pamela  
**Cc:** Kathy Summers; Chad Colgan  
**Subject:** Re: Voting System Reference Questions for Tennessee

Pam,

We will forward the responses to state election commission members. Also, Hart/Harp will go before the SEC when the information is received.

Mark Goins  
Coordinator of Elections  
Division of Elections  
Office of Tennessee Secretary of State Tre Hargett  
312 Rosa L. Parks Ave., 7th Floor  
William R. Snodgrass Tower  
Nashville, TN 37243  
(615) 741-7956  
(615) 741-1278 (fax)

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On Dec 7, 2017, at 10:43 AM, Cardenas, Pamela <[PCardenas@hartic.com](mailto:PCardenas@hartic.com)> wrote:

**\*\*\* This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. - STS-Security\*\*\***

Mark,

Thank you for the email and the questionnaire. I have sent the document to Hidalgo, Medina, and Lubbock Counties with instructions for them to return it to Kathy.

Can you tell me what the process will be once the questionnaires have been returned?

Best Regards,  
Pam

**From:** Mark Goins [mailto:Mark.Goins@tn.gov]  
**Sent:** Wednesday, December 06, 2017 2:03 PM  
**To:** Cardenas, Pamela  
**Cc:** Kathy Summers; Chad Colgan  
**Subject:** Voting System Reference Questions for Tennessee

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The questions are attached. Please have three jurisdictions answer the questions and mail the responses directly to our office at the address below to Kathy Summers. Please let me know if you have any questions.

Sincerely,  
Mark Goins

Mark Goins  
Coordinator of Elections  
Division of Elections  
Office of Tennessee Secretary of State Tre Hargett  
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## Kathy Summers

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**From:** Roxzine Stinson <RStinson@co.lubbock.tx.us>  
**Sent:** Thursday, December 07, 2017 1:51 PM  
**To:** Kathy Summers  
**Subject:** Voting System Reference Questions - Lubbock County, Texas  
**Attachments:** Voting System Reference Questions for Tennessee.docx

\*\*\* This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. \*\*\*

Kathy,

As requested, attached is our completed questionnaire in regards to our usage of Hart's Verity 2.0 election equipment during the 2017 calendar year.

If you have any other question, please feel free to contact us.

Thank You and have a Great Day!!

Roxzine Stinson  
Chief Deputy, Elections  
Lubbock County  
PO Box 10536  
Lubbock, Texas 79408  
806.775.1338 (Office)  
806.775.7980 (Fax)



### **Voting System Reference Questions**

Reference Name and Contact Information: **Roxzine Stinson**

Jurisdiction Name: **Lubbock County, Texas**

Quantity, type and version of voting equipment and software installed: **900 Touch, 200 Touch with Access, 225 Controllers – Verity 2.0**

How many voters are in your jurisdiction? **167,677 registered voters**

When did your jurisdiction purchase the system? **December 2016**

How many elections have you used the system? **Two**

Have any upgrades been made to the system since you purchased it? **One** Why? **Custom report that was requested on our behalf.**

Are you still using the same system? **Yes**

Describe your overall impression of the system based on experiences in your jurisdiction. –**Easy to use, the equipment is well liked by the voters, ballot programming flows nicely. Manuals that came with the package are easy to read and understand.**

Are you satisfied with the training provided to your staff? – **Yes. We had a wonderful experience with the training. Harts staff was very professional, easily accessible if we had questions once they left after onsite training and will to listen to any suggestions/feedback from our staff on things we thought could be done differently. In fact, they requested that we give feedback to any items we felt could be done in a different manner.**

Are you satisfied with the training provided for poll officials? **Our staff does all training for poll officials. We worked with the vendor to add to their Poll Worker's Field Guide to add the procedures that are distinctive to our county. By doing this we have a very comprehensive training manual that was and is given to each poll official.**

Are you satisfied with the support the vendor has provided for early voting (if applicable), Election Day, and post-election activities? **Yes. They have been good to respond quickly when we have questions. We had a representative from the vendor on site with us the day of the election as November 7<sup>th</sup> was the first election we had all sites open since purchasing the equipment. More for moral support than anything.**

Are you satisfied with the cost of support? **Yes. Do you feel the cost of support is competitive or too expensive? We think the cost if competitive.**

Describe any issues the vendor has had meeting your jurisdiction's requirements, if any. **None**

Describe any issues your jurisdiction has had regarding equipment availability, if any. **None.** When we purchased our equipment we did our best to make sure we purchased enough to conduct any County, City, School or other entity elections. Hart was able to meet those needs.

Describe any issues your jurisdiction has had regarding the accuracy of election results, if any. **None.** We run a manual double check on election night by comparing number of signatures from Combination Forms, Access Code Report from each Controller, and Pollbook office management system reports. We then compare these to the vDrive report from Verity Count.

We start by comparing Early Voting before release of numbers shortly after close of polls on election day. This includes any Absentee Mail Ballots that have been approved and processed. We then break when half of the Vote Center locations have come in to Central Count and run a check at that time to make sure we are still in balance. Then a final check after all locations are in and before final Unofficial numbers have been released.

Describe any other issues your jurisdiction has had with the system, if any. **None**

Has the vendor been responsive in addressing issues? **Yes**

Describe any feedback (positive or negative) received from poll officials about the system. **The poll officials love it. They like that the voters are happy with not having a wheel to turn. The system is easy to use. With the age of our poll officials being in the mid 60s to early 70s their only concern is the weight of the equipment. We have addressed this issue by having County staff deliver and setup the equipment prior to early voting and election day. Then County staff helps to tear down the equipment at the end of early voting and election day. Lubbock County has done this for years and it has worked well for us.**

Describe any feedback (positive or negative) received from voters about the system. **We had 2 or 3 voters complain that there was no wheel to turn, so we directed them to the Touch with Access and they were happy. All other voters loved the touch screen concept and said they thought it was much easier. The voters also liked that there was one race to a page, which made it easier to read the ballot.**

Do you feel like you have gotten your money's worth for the system? **We can honestly say YES.**

Would you recommend this system for use in other jurisdictions? **Very much so due to its ease of use and care. Staff likes that it is easy to program, extremely user friendly for the poll officials and ourselves.**

## Kathy Summers

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**From:** Yvonne Ramon <yvonne.ramon@co.hidalgo.tx.us>  
**Sent:** Monday, December 11, 2017 4:30 PM  
**To:** Kathy Summers  
**Subject:** Re: Hart - Verity Voting Questionnaire for the State of Tennessee  
**Attachments:** Voting System Reference Questions for Tennessee by Hidalgo County.docx

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Kathy,

Attached is the questionnaire. I apologize for taking time to finish the questionnaire. We find ourselves in an unusually busy time.

Respectfully,

*Yvonne Ramón, CERA*  
Elections Administrator  
The County of Hidalgo  
(956)318-2570

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**From:** "Pamela Cardenas" <PCardenas@hartic.com>  
**To:** "carlos nieto" <carlos.nieto@co.hidalgo.tx.us>, "Yvonne Ramon" <yvonne.ramon@co.hidalgo.tx.us>  
**Cc:** "Kathy Summers (Kathy.Summers@tn.gov)" <Kathy.Summers@tn.gov>  
**Sent:** Thursday, December 7, 2017 9:39:53 AM  
**Subject:** Hart - Verity Voting Questionnaire for the State of Tennessee

Good morning!

You may recall a few weeks ago, I asked if you'd be willing to complete a questionnaire about your use of Verity Voting Version 2.0 for the State of Tennessee. Thank you for agreeing to help!

I've attached the questionnaire for Tennessee. Could you please answer the questions and then send the survey to:

Kathy Summers  
Division of Elections  
Office of Tennessee Secretary of State Tre Hargett  
312 Rosa L. Parks Ave., 7th Floor  
William R. Snodgrass Tower  
Nashville, TN 37243

Kathy's email address is: [Kathy.Summers@tn.gov](mailto:Kathy.Summers@tn.gov).

Thank you again for your help! Please let me know if you have any questions.

Best Regards,  
Pam



### **Voting System Reference Questions**

Reference Name and Contact Information:

Yvonne Ramon  
Elections Administrator  
Hidalgo County  
yvonne.ramon@co.hidalgo.tx.us  
956- 318-2570

Jurisdiction Name: Hidalgo County

Quantity, type and version of voting equipment and software installed:

1,294 of the Hart InterCivic Verity voting system (version 2.0.3) with the Data, Build, Central and Count Software

How many voters are in your jurisdiction? 346,776 registered voters

When did your jurisdiction purchase the system? February 15, 2017

How many elections have you used the system? 3 Elections

Have any upgrades been made to the system since you purchased it? Why?

None, no updates have been made to the system since purchase.

Are you still using the same system? Yes, very satisfied.

Describe your overall impression of the system based on experiences in your jurisdiction.

Feedback from Hidalgo County's stakeholders has been overwhelmingly positive. The transition from our "old" system to Hart Verity has been a smooth transition. I worried about the access code step and how the voter would adjust to this step; I worried about provisional voting on the voting equipment and how our poll workers would adjust to this step.....My job is to worry, but overall, these changes were smooth and the implementation was simple.

Are you satisfied with the training provided to your staff? Very satisfied. Hart will provide as much training as needed and will provide support.

Are you satisfied with the training provided for poll officials? Hart provided training materials from which we drew our information. Since elections staff was so well trained, training others solidified our knowledge of the system.

Are you satisfied with the support the vendor has provided for early voting (if applicable), Election Day, and post-election activities?

**Yes, very satisfied.** Hart is very supportive and will provide any and all that is needed to assure your success.

Are you satisfied with the cost of support? Do you feel the cost of support is competitive or too expensive?

**As always, it is important to be aware of costs. I do feel that the cost is high, but to be successful, support is necessary.**

Describe any issues the vendor has had meeting your jurisdiction's requirements, if any.

**There have been no issues regarding our jurisdiction's requirements.**

Describe any issues your jurisdiction has had regarding equipment availability, if any.

**There have been no issues regarding equipment availability.**

Describe any issues your jurisdiction has had regarding the accuracy of election results, if any.

**No issues arose with our voting equipment in regards to the accuracy of election results.**

Describe any other issues your jurisdiction has had with the system, if any.

**An issue that did arise is more our issue. I do recommend that time is taken to view and test all equipment, including the additional supplies that complement the actual voting equipment. We were quick to accept and did not take the time to pilot and test all facets and features. We already know that we have to purchase additional batteries and chargers to send to each polling location because the battery, when placed on the docking station, does not charge itself. The only way to charge the battery is on its own charger. After working with the equipment, we found out that several batteries had bent pins that would disconnect the power to the machine. This would make the machine completely turn off when taken off its base for a curbside vote.**

Has the vendor been responsive in addressing issues?

**Yes, the vendor has been responsive but I understand that our issues have more to do with our testing and using of the support equipment prior to actually purchasing so to make a more informed purchase.**

Describe any feedback (positive or negative) received from poll officials about the system.

**The response has been overwhelmingly positive. Poll officials have enjoyed the lightness of the equipment (hence the need to charge the battery outside the docking station); the ease of setting up the poll location; the quickness in obtaining the results;**

Describe any feedback (positive or negative) received from voters about the system.

**Once again, overwhelmingly positive. Voters have appreciated the confidentiality, security and independence of voting with an access code.**

Do you feel like you have gotten your money's worth for the system?

**Yes, the system allows Hidalgo County to take the necessary steps required to keep up with the latest available technology in voting, and to have the support and knowledge of an entity such as Hart InterCivic.**

Would you recommend this system for use in other jurisdictions?

**Definitely, yes, I would recommend this system.**

## Kathy Summers

---

**From:** DeWitt Elections Admin <electionadmin@co.dewitt.tx.us>  
**Sent:** Friday, December 22, 2017 10:51 AM  
**To:** Kathy Summers  
**Subject:** Voting System Reference Quesitons for Tennessee  
**Attachments:** Voting System Reference Questions for Tennessee.docx

\*\*\* This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. \*\*\*

Good Morning and Merry Christmas!

I have attached the completed questionnaire and have also put a hard copy in the mail. I want to just say that Hart is unequivocally dedicated to serving their customer's. I have been extremely impressed with the customer service and the Verity equipment. I cannot begin to explain how complex it was in our office to get ready for an election and the time consuming tasks that took up almost two months. The hardest part was programming the equipment and I mean each piece! The Hart Verity System has allowed us to cut that down to almost nothing. We cannot express enough how much time we have saved and how dependable the equipment is to use and maneuver. In the times we are experiencing now I find it safe to say that we need dependable, accountable and trustworthy solutions to the election process as we are all under microscopes and the Hart Verity System allows for us to take that extra pressure off.

Please contact me directly if you have any questions or concerns

Thank you,

***Blanca McBride***

Elections Administrator  
DeWitt County, Texas



P.O. Box 169  
Cuero, TX 77954

Office: 361-275-0859  
Fax: 361-275-0860  
Website: <http://www.co.dewitt.tx.us>  
Email: [electionadmin@co.dewitt.tx.us](mailto:electionadmin@co.dewitt.tx.us)

NOTICE: This e-mail message is the property of DeWitt County, Texas. The contents of this message and any attachments are confidential and protected by law. If you are not the intended recipient of this message, please forward a copy to [electionadmin@co.dewitt.tx.us](mailto:electionadmin@co.dewitt.tx.us) and delete the message and its attachments from your computer.



### Voting System Reference Questions

Reference Name and Contact Information: **BLANCA MCBRIDE 361-275-0859**

Jurisdiction Name: **DeWITT COUNTY ELECTIONS**

Quantity, type and version of voting equipment and software installed: **HART VERITY 50 TOUCHES-2 SCANNERS-13 CONTROLLERS**

How many voters are in your jurisdiction? **11, 563**

When did your jurisdiction purchase the system? **JANUARY 2016**

How many elections have you used the system? **2**

Have any upgrades been made to the system since you purchased it? Why? **NONE**

Are you still using the same system? **YES**

Describe your overall impression of the system based on experiences in your jurisdiction.  
**EXTREMELY EASY TO USE AND DEPENDABLE AND VOTER FRIENDLY**

Are you satisfied with the training provided to your staff? **ABSOLUTELY**

Are you satisfied with the training provided for poll officials? **ABSOLUTELY**

Are you satisfied with the support the vendor has provided for early voting (if applicable), Election Day, and post-election activities? **ABSOLUTELY**

Are you satisfied with the cost of support? Do you feel the cost of support is competitive or too expensive? **COMPETITIVE**

Describe any issues the vendor has had meeting your jurisdiction's requirements, if any. **NONE**

Describe any issues your jurisdiction has had regarding equipment availability, if any. **NONE**

Describe any issues your jurisdiction has had regarding the accuracy of election results, if any. **NONE**

Describe any other issues your jurisdiction has had with the system, if any. **NONE**

Has the vendor been responsive in addressing issues? **WE HAVENT HAD ANY ISSUES**

Describe any feedback (positive or negative) received from poll officials about the system.  
**EASY TO USE AND THEY LOVE IT**

Describe any feedback (positive or negative) received from voters about the system.

**EASY TO USE AND THEY LOVE IT**

Do you feel like you have gotten your money's worth for the system? **ABSOLUTELY**

Would you recommend this system for use in other jurisdictions? **ABSOLUTELY, WITHOUT ANY HESITATION AT ALL. TOP NOTCH FROM TOP TO BOTTOM!**

RECEIVED  
17 DEC 29 PM 1:43  
SECRETARY OF STATE  
ELECTIONS

## Kathy Summers

---

**From:** Shannon Lackey <shannon.lackey@randallcounty.com>  
**Sent:** Friday, December 22, 2017 3:56 PM  
**To:** Kathy Summers  
**Subject:** Hart Questionnaire  
**Attachments:** Voting System Reference Questions for Tennessee.docx

\*\*\* This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. \*\*\*

Kathy,  
Feel free to contact me with any questions.  
Merry Christmas from Texas!

**Shannon Lackey**  
Randall County Elections Administrator  
1604 5<sup>th</sup> Ave.  
Canyon, TX 79015  
806-468-5524



### **Voting System Reference Questions**

Reference Name and Contact Information: **Shannon Lackey**

Jurisdiction Name: **Randall County Texas**

Quantity, type and version of voting equipment and software installed: **45 Controllers, 205 Touch machines and 40 Touch with Access. We have Data, Build, Count and Central all version 2.0.2**

How many voters are in your jurisdiction? **85,000+**

When did your jurisdiction purchase the system? **July 2017**

How many elections have you used the system? **1 complete and working on the Primary Elections**

Have any upgrades been made to the system since you purchased it? Why? **1 There was an upgrade to the report module**

Are you still using the same system? **yes**

Describe your overall impression of the system based on experiences in your jurisdiction. **Very intuitive to the voters, lot of positive feedback. Programming and Central Count are simplified while maintaining security measures.**

Are you satisfied with the training provided to your staff? **YES**

Are you satisfied with the training provided for poll officials? **YES**

Are you satisfied with the support the vendor has provided for early voting (if applicable), Election Day, and post-election activities? **YES**

Are you satisfied with the cost of support? Do you feel the cost of support is competitive or too expensive? **Very competitive**

Describe any issues the vendor has had meeting your jurisdiction's requirements, if any. **NONE**

Describe any issues your jurisdiction has had regarding equipment availability, if any. **NONE**

Describe any issues your jurisdiction has had regarding the accuracy of election results, if any. **NONE**

Describe any other issues your jurisdiction has had with the system, if any. **NONE**

Has the vendor been responsive in addressing issues? **NA**

Describe any feedback (positive or negative) received from poll officials about the system. **All pollworkers were very pleased with the ease of operations.**

Describe any feedback (positive or negative) received from voters about the system. **Every comment from the voter was positive. I heard "finally! A touch screen"**

Do you feel like you have gotten your money's worth for the system? **YES**

Would you recommend this system for use in other jurisdictions? **Definitely!**

**Randall County has been a Hart Intercivic customer since 2006. Their customer service is top notch and second to none. The Verity system sold itself but the Hart name sealed the choice for me.**

Tennessee Secretary of State  
Tre Hargett

COPY



Elections Division  
312 Rosa L. Parks Avenue, 7<sup>th</sup> Floor  
Nashville, Tennessee 37243-1102

Mark Goins  
Coordinator of Elections

615-741-7956  
Mark.Goins@tn.gov

January 31, 2018

Ben Swartz  
State Certification Manager  
11208 John Galt Boulevard  
Omaha, NE 68137

Dear Mr. Swartz,

This letter is to inform you of certification of the ES&S EVS 5.2.2.0 voting machine, bearing the EAC Certification Number: ESSEVS5220, by the State Election Commission (SEC) on January 8, 2018. Your voting machine was made available before the SEC for demonstration on January 8, 2018, and questionnaires completed by counties currently using the ES&S EVS 5.2.2.0 voting system were received and reviewed by the commission. As you know during the SEC meeting Chairman Barrett stated that, for any Tennessee county using this machine, the SEC specifically, requires the use of the DS200 ballot tote bins and serially-numbered ballots with ballot stubs.

Thank you for your cooperation in the certification process.

Sincerely,

Mark Goins  
Coordinator of Elections

Enclosure: EAC Certification Number ESSEVS5220



United States Election Assistance Commission

Certificate of Conformance

ES&S EVS 5.2.2.0



The voting system identified on this certificate has been evaluated at an accredited voting system testing laboratory for conformance to the 2005 *Voluntary Voting System Guidelines (2005 VVSG)*. 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: ES&S Voting System (EVS)

Model or Version: 5.2.2.0

Name of VSTL: NTS Huntsville

EAC Certification Number: ESSEVVS5220

Date Issued: February 27, 2017

Executive Director  
U.S. Election Assistance Commission  
Scope of Certification Attached

**ES&S**

**EVS 5.2.2.0 – Voting System**

**Demonstration of  
Modifications and  
Certification Request**

**January 8, 2018**

**Ben Swartz – ES&S**

**Survey Responses:**

- Sasha Kelton, County Clerk – Clay County, TX
- Linda Crawford, Election Coordinator – Miller County, AK
- Remi Garza, Elections Administrator – Cameron County, TX

**● EAC – Certification Number**

**ESSEVS5220**



United States Election Assistance Commission

Certificate of Conformance

ES&S EVS 5.2.2.0



The voting system identified on this certificate has been evaluated at an accredited voting system testing laboratory for conformance to the 2005 *Voluntary Voting System Guidelines (2005 VVSG)*. 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: ES&S Voting System (EVS)

Model or Version: 5.2.2.0

Name of VSTL: NTS Huntsville

EAC Certification Number: ESSEVVS5220

Date Issued: February 27, 2017

*Executive Director*  
*U.S. Election Assistance Commission*

*Scope of Certification Attached*

**Manufacturer:** Election Systems & Software  
**System Name:** EVS 5.2.2.0  
**Certificate:** ESSEVS5220

**Laboratory:** NTS Huntsville  
**Standard:** VVSG 1.0 (2005)  
**Date:** February 27, 2017



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## Scope of Certification

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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:

ES&S EVS 5.2.2.0 is comprised of the ExpressVote Universal Voting System (ExpressVote), DS200 Precinct Digital Scanner (DS200), DS450 mid-range Central Count Digital Scanner (DS450), DS850 high-speed Central Count Digital Scanner (DS850), AutoMARK Voter Assist Terminal (AutoMARK A100, A200 & A300), Electionware, Election Reporting Manager (ERM), ES&S Event Log Service, and Removable Media Service (RMS).

- The ExpressVote is a universal vote capture device designed for all voters, with independent voter-verifiable paper record that is digitally scanned for tabulation. This system combines paper-based voting with touch screen technology. The ExpressVote includes a mandatory vote summary screen that requires voters to confirm or revise selections prior to printing the summary of ballot selections using the internal thermal

printer. Once printed, ES&S ballot scanners process the vote summary card. The ExpressVote can serve all voters, including those with special needs, allowing voters to cast ballots autonomously. ES&S has fully integrated the ExpressVote with the existing suite of ES&S voting system products.

- DS200 digital scanner is a paper ballot tabulator designed for use as a polling place scanner. After the voter makes their selections on their paper ballot, their ballot is inserted into the unit for immediate tabulation. Both sides of the ballot are scanned at the same time using a high-resolution image-scanning device that produces ballot images.
- The DS450 mid-range scanner and tabulator that simultaneously scans the front and back of a paper ballot and/or vote summary card. TruGrip™ technology insures that multiple sets of rollers are controlling the ballot in the transport at all times. This provides for reliable handling of ballots; even folded ballots. It can also read ballots in any of four orientations. The DS450 uses our patented Positive Target Recognition and Compensation™ (PTRAC) and Intelligent Mark Recognition™ (IMR) technology to determine what constitutes as a mark for a candidate. It sorts tabulated ballots into discrete output bins without interrupting scanning. Optionally, this device may be configured to transmit tabulation results to the results server through a closed network connection rather than using physically transported USB flash drives.
- The DS850 is a high-speed, digital scan central ballot counter that uses cameras and imaging algorithms to capture voter selections on the front and back of a ballot, evaluate results and then sort ballots into discrete bins without interrupting scanning. A dedicated audit printer generates a continuous event log. Machine level reports are produced from a second, laser printer. The scanner saves voter selections and ballot images to an internal hard disk and exports results to a USB Memory stick for processing with Election Reporting Manager.
- AutoMARK Voter Assist Terminal enables voters who are visually or physically impaired and voters more comfortable reading or hearing instructions and choices in an alternative language to privately mark optical scan ballots. The AutoMARK supports navigation through touchscreen, physical keypad or ADA support peripheral such as a sip and puff device or two position switch.
- Electionware integrates the election administration functionality into a unified application. Its intended use is to define an election and create the resultant media files used by the ExpressVote, DS200 tabulator, AutoMARK® Voter Assist Terminal (VAT), the DS450 Central Ballot Scanner, the DS850 Central Ballot Scanner, and Election Reporting Manager (ERM). An integrated ballot viewer allows election officials to view the scanned ballot and captured ballot data side-by-side and produce ballot reports.
- Election Reporting Manager (ERM) generates paper and electronic reports for election workers, candidates, and the media. Jurisdictions can use a separate ERM installation to display updated election totals on a monitor as ballot data is tabulated, and send the results' reports directly to the media outlets.  
ERM supports accumulation and combination of ballot results data from all ES&S tabulators. Precinct and accumulated total reports provide a means to accommodate candidate and media requests for totals and are available upon demand. High-speed

printers are configured as part of the system accumulation/reporting stations PC and related software.

- ES&S Event Log Service is a Windows Service that runs in the background of any active ES&S Election Management software application to monitor the proper functioning of the Windows Event Viewer. The ES&S Event Log Service closes any active ES&S software application if the system detects the improper deactivation of the Windows Event Viewer.
- Removable Media Service (RMS) is an application that runs in the background of the EMS client workstation and supports the installation and removal of election and results media.

This modification includes the following updates to the EVS 5.2.0.0 system:

#### **ExpressVote**

- The random number generator, used for security functions to meet VVSG 1.0, Sections 2.1.4 and 7.5.1, has been updated to meet new NIST standards.
- Display candidates in either 1 or 2 columns in a particular contest screen based on a configuration flag from Electionware.
- Support the ability for a poll worker to scan a 128c barcode on the external barcode scanner instead of manually selecting the ballot style on the touch screen.
- Update copyright date (code and splash screen).
- Add a Power Supply to meet Level Efficiency 6

#### **DS200**

- The random number generator, used for security functions to meet VVSG 1.0, Sections 2.1.4 and 7.5.1, has been updated to meet new NIST standards.

#### **DS450**

- The DS450 is a new central count component that was added to the system.

#### **DS850**

- The random number generator, used for security functions to meet VVSG 1.0, Sections 2.1.4 and 7.5.1, has been updated to meet new NIST standards.

#### **AutoMARK**

- The random number generator, used for security functions to meet VVSG 1.0, Sections 2.1.4 and 7.5.1, has been updated to meet new NIST standards.

#### **Electionware**

- The random number generator, used for security functions to meet VVSG 1.0, Sections 2.1.4 and 7.5.1, has been updated to meet new NIST standards.
- Renamed "DS850" labels to "Central Count".
- Corrected spelling of the word 'change' in the AutoMARK system prompt Excel file.
- Correction to enable the save button after making changes in the text box (...) in the Language Additional text area.
- Corrected message display from an internal processing error to the 'Import of ballot style alternate ID' error message when the continuous ballot style ID is longer than 8 characters.
- Correct the contest order display for the ExpressVote in an open primary election to sort by party.
- Added the election wide option to enable/disable multi column view on the ExpressVote.
- Added the ExpressVote Multi Column setting to the ExpressVote Settings Report.

- Corrected erroneous data fit error message that occurred when no nonpartisan contests existed in a closed primary.
- Update copyright to 2016.
- Update user guide help file.
- Corrected the situation where an error was displayed erroneously when triple clicking in the Bengali language text editor.
- Updated creation of passwords for the SFTP server so that they do not include leading zeros which the server cannot authenticate.
- Updated the users.xml to version 3.0 for compatibility with Cerberus version 8.0.0.9 and newer.
- Improved the refresh action in the navigator so that the data appears correctly.
- Corrected an Invalid party ID in Illinois Export party records.
- Can now export results from Produce when the last contest is a text only contest.

#### ERM

- The random number generator, used for security functions to meet VVSG 1.0, Sections 2.1.4 and 7.5.1, has been updated to meet new NIST standards.
- Renamed “DS850” labels to “Central Count”.

#### Mark definition:

ES&S’ documentation declares that the DS200, DS450 and DS850 will reject anything seen inside the oval area that is smaller than .005 square inches (i.e. a circle of diameter .025”, a rectangle of .02” by .025”) as a marked response on a pixel count basis and will be listed as an unmarked oval and not be evaluated further.

#### Tested Marking Devices:

Bic Grip Roller Pen

#### Language capability:

EVS 5.2.2.0 supports English, Spanish, Chinese (Cantonese), Korean, Japanese and Bengali.

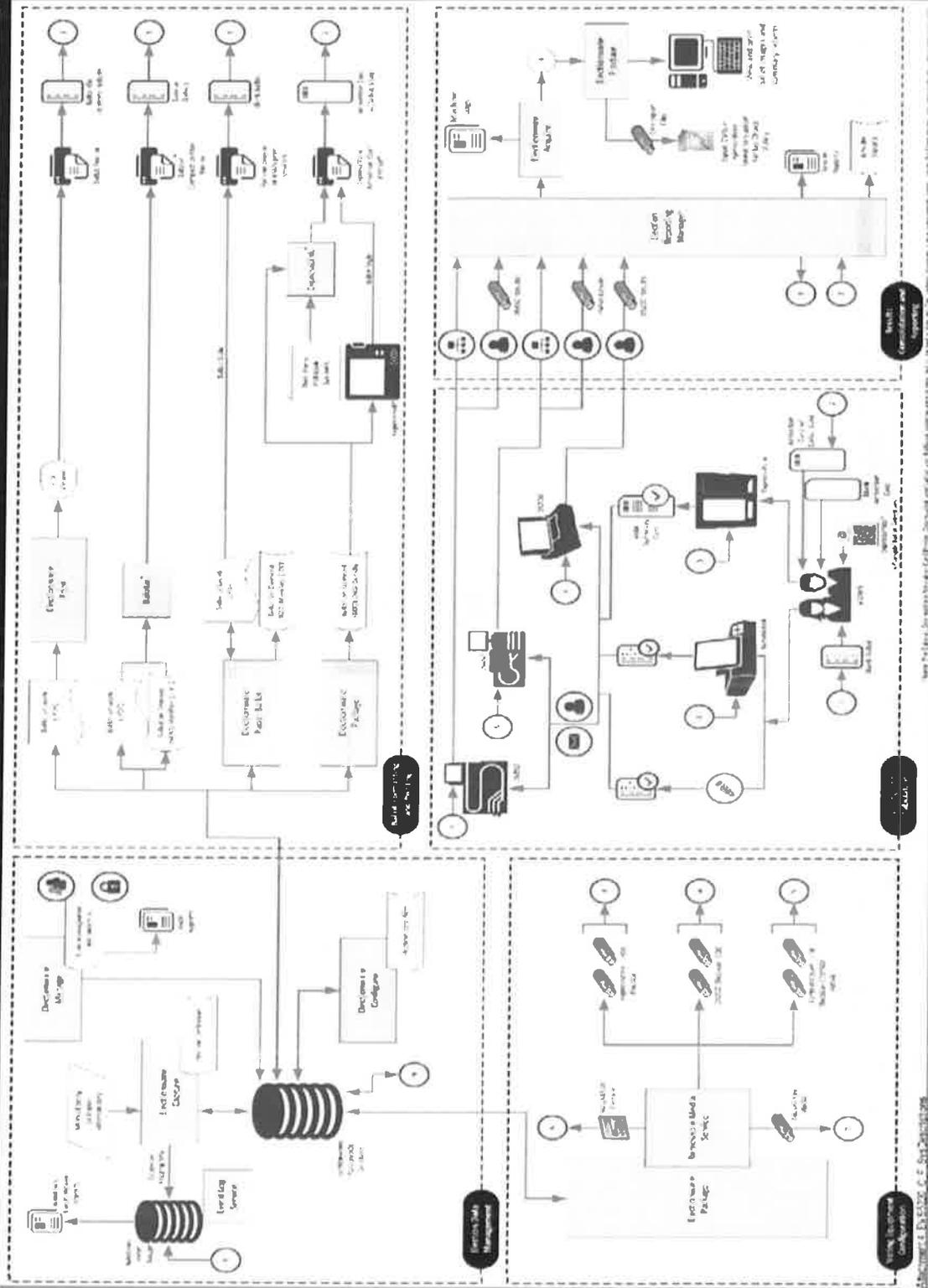
#### Components Included:

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	Operating System or COTS	Comments
ExpressVote	1.4.1.2	1.0		Universal Voting System
ExpressVote Rolling Kiosk		1.0		
DS200	2.12.2.0	1.2.1, 1.2.3, 1.3		Precinct Count Tabulator
DS200 Ballot Box		1.2, 1.3		Plastic ballot box
DS200 Ballot Box		1.0, 1.1, 1.2		Metal ballot box
DS450	3.0.0.0	1.0		Central Count Scanner, mid-range
DS850	2.10.2.0	1.0		Central Count Scanner, high-speed
AutoMARK A100	1.8.6.1	1.0		ADA Ballot Marking

System Component	Software or Firmware Version	Hardware Version	Operating System or COTS	Comments
				Device
AutoMARK A200 (SBC 2.0 & 2.5)	1.8.6.1	1.1		ADA Ballot Marking Device
AutoMARK A300 (SBC 2.0 & 2.5)	1.8.6.1	1.3		ADA Ballot Marking Device
Electionware	4.7.1.1			
Election Reporting Manager (ERM)	8.12.1.1			
ES&S Event Log Service	1.5.5.0			
AutoMARK VAT Previewer	1.8.6.1			
ExpressVote Previewer	1.4.1.2			
Removable Media Service	1.4.5.0			
CreateNewUsers	3.0.3.0			Proprietary Hardening Script
NoNetwork	3.0.3.0			Proprietary Hardening Script
PreInstall	3.0.5.5			Proprietary Hardening Script
PostInstall	3.0.3.0			Proprietary Hardening Script
ServerShare	3.0.3.0			Proprietary Hardening Script
EMS Server		Dell PowerEdge T710		
EMS Client Workstation		Dell Optiplex 980 or 5040		
EMS Client Workstation		Dell Latitude E6410		
EMS Standalone Workstation		Dell Latitude E6410		
Delkin: USB Flash Drive				512MB, 1 GB, 2 GB, 4 GB, 8 GB
Delkin: Validation USB Flash Drive				16 GB
Delkin: Compact Flash				512 MB, 1 GB, 2 GB
SanDisk: Compact Flash				512 MB, 1 GB, 2 GB
Delkin: CF Card Reader		6381		
SanDisk: CF Card Reader		018-6305		
Headphones		Avid 86002		
Zebra QR code scanner		DS457-SR20009	COTS	Integrated with Rolling Kiosk

System Component	Software or Firmware Version	Hardware Version	Operating System or COTS	Comments
Symbol QR Code scanner		DS9208	COTS	External
DS450 Report Printer		Dell S2810dn		Laser report printer
DS850 Report Printer		OKI B431dn & Oki B431d		Laser report printer
DS450 Audit Printer		Oki Microline 420		Dot Matrix Printer
DS850 Audit Printer		Oki Microline 420		Dot Matrix Printer
DS450 UPS		APC Back-UPS Pro 1500		
DS 450 Surge Protector		Tripp Lite Spike Cube		
DS850 UPS		APC Back-UPS RS 1500 or APC Back-UPS Pro 1500		
Adobe Acrobat Standard	11		COTS	
Cerberus FTP	8.0.6 (64-bit)		COTS	
Microsoft Server 2008	R2 w/ SP1		COTS	
Microsoft Windows 7 Professional	SP1 (64-bit)		COTS	
WSUS Microsoft Windows Offline Update Utility	10.7.4			
Micro Focus RM/COBOL Runtime	12.06		COTS	
Symantec Endpoint Protection	12.1.6		COTS	
Symantec Endpoint Protection Intelligent Updater	20160829-002-v5i64.exe			





## 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	9900	ERM
Max. count for any precinct element	500,000 (99,900 from any tabulator media)	ERM report (ERM results import)
Max. candidates allowed per election	Depends on election content (limited by 21,000 maximum counters) <sup>1</sup>	ERM
Max. contests allowed in an election	Depends on election content (limited by 21,000 maximum counters) <sup>2</sup>	ERM
Max. counters allowed per precinct	Limits candidates and contests assigned to a precinct to 1,000 <sup>3</sup>	ERM
Max. contests allowed per ballot style	200 or number of positions on ballot	N/A
Max. candidates (ballot choices) allowed per contest	175	ERM (database create)
Max. number of parties allowed	General election: 75 Primary election: 20 (including nonpartisan party)	ERM (database create)
Max. 'vote for' per contest	98	ERM (database create)
Ballot formats	All paper ballots used in an election must be the same size and contain the number of response rows.	Ballot scanning equipment
Max. Ballot Styles	9900	ERM
Max. District Types/Groups	20	ERM
Max. districts of a given type <sup>4</sup>	40	ERM

<sup>1</sup> Calculation of the number of counters must include a minimum of 4 counters for each contest, 3 overhead (overvote, undervote, precincts counted) and at least 1 candidate. Additional contest candidates each add a counter. If some precincts are defined as Absentee, a fourth overhead counter (absentee precincts counted) must be added to each contest. The number of statistical counters (Ballots Cast, Registered voters) must be added to the contest counters to determine the total counters.

<sup>2</sup> Example of maximum contest calculation if all contests had 2 candidates (5 counters each, 3 overhead counters + 2 candidates) and there were 10 statistical counters (i.e. Ballots Cast-Total, Republican, Democratic, Libertarian, Nonpartisan and Registered Voters-Total, Republican, Democratic, Libertarian, Nonpartisan.  $(21000-20)/5 = 4196$  or  $(\text{counter limit} - \text{statistics} \times 2)/\text{number of counters/contest} = \text{number of contests}$ .

<sup>3</sup> Contest counters are calculated as indicated in footnote 1, but two counters must be added for each statistical counter defined for the precinct. There are a minimum of 3 statistic counters assigned to each precinct (six added counters), "Ballots Cast," "Registered Voters" and "Ballots Cast Blank."

<sup>4</sup> Excludes the Precinct Group which contains all precincts.

System Characteristic	Boundary or Limitation		Limiting Component
Supported Languages	<ul style="list-style-type: none"> <li>• English</li> <li>• Spanish</li> <li>• Chinese (Cantonese)</li> </ul>	<ul style="list-style-type: none"> <li>• Korean</li> <li>• Japanese</li> <li>• Bengali</li> </ul>	System Configuration

## Component Limitations:

### 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 1-26,839), Type (available codes 1-30) or Split (available codes 1-40).
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 26,000.

### 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.

### 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. Using two columns or fewer results in the write-in area being too large to print on the report tape.

### AUTOMARK Voter Assist Terminal

1. ES&S AutoMARK 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 AutoMARK system as the maximum capacities of the ES&S AutoMARK are never approached during testing.

### Electionware

1. Electionware capacities exceed the boundaries and limitations documented for ES&S voting equipment and election reporting software. For this reason, ERM and ballot tabulator limitations define the boundaries and capabilities of Electionware system.
2. Limits were calculated using default text sizes 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 limits lower than those listed. Check printed media and displays before finalizing the election.

3. The Electionware Export Ballot Images function is limited to 250 districts per export.
4. Special characters are not supported and may not appear properly when viewed on equipment displays or reports.
5. Electionware cannot display more than 30,000 images when filtering ballot images for display. Employ one or more filters to ensure that the number of ballots viewed is less than 30,000.

### **Election Reporting Manager (ERM)**

1. Election Reporting Manager requires a minimum monitor screen resolution of 800x600.
2. ERM Database Create allows 1,600 Precincts per Ballot Style.
3. There is a limit of 3,510 precincts in the precincts counted/not counted display.
4. There is a limit of 3,000 precincts in the precincts counted/not counted scrolling display.
5. Contest/Precinct selection pop up display limited to 3,000 contests/precincts.
6. Non-English characters are not supported in ERM. This has to do with the creation of the XML results file out of ERM.
7. ERM's maximum page size for reports is 5,000 pages.

## **Functionality**

### **2005 VVSG Supported Functionality Declaration**

<b>Feature/Characteristic</b>	<b>Yes/No</b>	<b>Comment</b>
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)	Yes	
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	

<b>Feature/Characteristic</b>	<b>Yes/No</b>	<b>Comment</b>
<b>Ballot Rotation:</b>		
Rotation of Names within an Office; define all supported rotation methods for location on the ballot and vote tabulation/reporting	Yes	
<b>Straight Party Voting:</b>		
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	
<b>Cross-Party Endorsement:</b>		
Cross party endorsements, multiple parties endorse one candidate.	Yes	
<b>Split Precincts:</b>		
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.	No	
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.
<b>Vote N of M:</b>	Yes	
Vote for N of M: Counts each selected candidate, if the maximum is not exceeded.	No	
Vote for N of M: Invalidates all candidates in an overvote (paper)	No	
<b>Recall Issues, with options:</b>		
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)	Yes	
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 2 <sup>nd</sup> 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 2 <sup>nd</sup> contest.)	No	Overtured - US District Court 7/29/03: CA Election Code sect. 11383
<b>Cumulative Voting</b>		
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	
<b>Ranked Order Voting</b>		
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	

<b>Feature/Characteristic</b>	<b>Yes/No</b>	<b>Comment</b>
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	
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	
<b>Provisional or Challenged Ballots</b>		
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	
<b>Overvotes (must support for specific type of voting system)</b>		
Overvotes: P & M: Overvote invalidates the vote. Define how overvotes are counted.	Yes	
Overvotes: DRE: Prevented from or requires correction of overvoting.	No	
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.	No	
<b>Undervotes</b>		
Undervotes: System counts undervotes cast for accounting purposes	Yes	
<b>Blank Ballots</b>		
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	
<b>Networking</b>		
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	

Feature/Characteristic	Yes/No	Comment
FIPS 140-2 validated cryptographic module	No	
Used as (if applicable):		
Precinct counting device	Yes	DS200
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 911	7/29/15	DS850	Second source for LED on camera circuit board	Non-DeMinimis Optional
ECO 917	7/29/15	DS850	Second source LG display	Non – DeMinimis Optional
ECO 919	7/29/15	ExpressVote	Second source LG display	Non – DeMinimis Optional
ECO 921	10/27/15	DS200 Plastic Ballot Box	Adding Block of security foam underneath the slot of the emergency bin	DeMinimis Optional
ECO 1741	7/29/15	ExpressVote	Add additional labels, Velcro patch for keypad	DeMinimis Optional
ECO 1880	8/5/15	DS200	Additional second source and end of life replacement	Non-DeMinimis Optional
ECO 2018	10/9/15	ExpressVote	Remove English from text on ExpressVote instruction label	DeMinimis Optional
ECO 933	2/10/16	PreInstall Patch 1.0.0.5	Disabling the ability to disconnect and create a mapped drive	De Minimis Optional
ECO 927	2/12/16	AutoMARK	Add Backup Battery (End of Life)	De Minimis Optional
ECO 924	3/1/16	Kiosk Stand	Update Kiosk Stand to include shipping stops, dock, feet, and thumbscrews	De Minimis Optional
ECO 930	4/7/16	DS200 Carry Case	Kit for gas trust in DS200 Carry Case	De Minimis Optional
ECO 1816	4/7/16	Steel Ballot Box	Universal rails for the steel ballot box	De Minimis Optional

<b>Change ID</b>	<b>Date</b>	<b>Component</b>	<b>Description</b>	<b>Inclusion</b>
ECO 2106	4/12/16	DS200 Ballot Box	New Ballot Box Wheels	De Minimis Optional
ECO 2113	4/20/16	DS200	CIS Cable Connector	De Minimis Optional
ECO 946	8/23/16	Intel Gigabit CT Desktop Adapter	Prevent onboard NIC card for not acknowledging incoming packets	De Minimis Optional
ECO 947	8/23/16	Linksys USB Ethernet Adapter	Prevent onboard NIC card for not acknowledging incoming packets	De Minimis Optional
ECO 950	1/4/17	DS850	Add second screw set to reverse belt pulley	De Minimis Optional



# ELECTION Systems & Software

Election Systems & Software takes great pride in supporting our clients' elections administration needs. Every election reinforces the cornerstone of our nation's democracy – a citizen's right to vote.

Our customers carry the responsibility to administer fair and accurate elections. They benefit from ES&S' unwavering pledge to support their voters and taxpayers.

To fulfill our promise, we assign teams of passionate, knowledgeable and talented election professionals to support the management of your elections. We work diligently to help achieve a shared mission of **maintaining voter confidence and enhancing the voting experience.**

We stand behind the quality of our unrivaled work and guarantee our service. Providing our customers with trusted, quality and timely election services and products is our purpose, promise and passion.



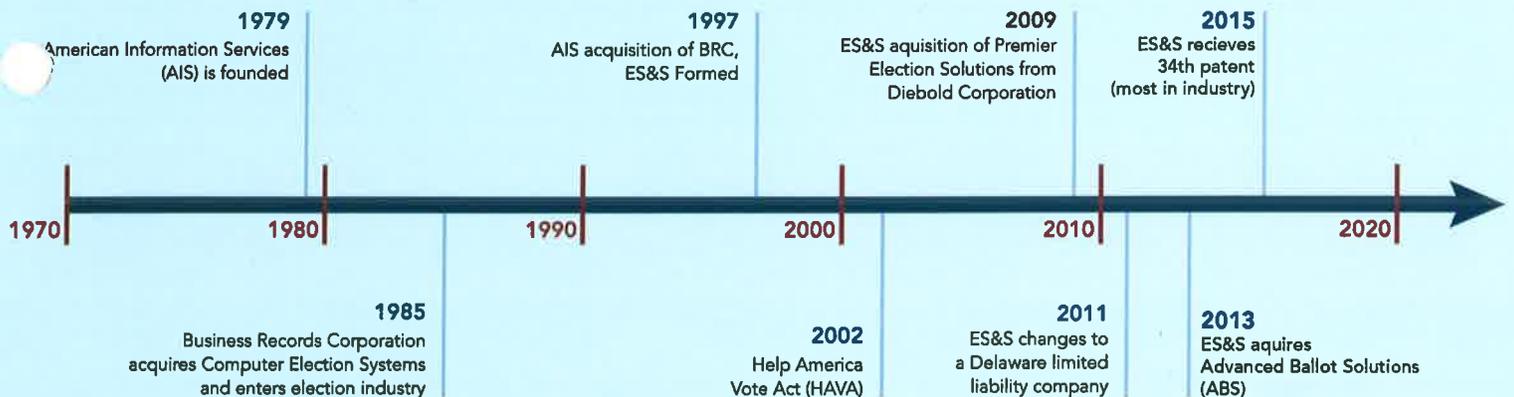
# History of Election Systems & Software



Election Systems & Software's visionary approach to election equipment, software and solutions has helped improve the voting experience throughout North America for nearly 40 years.

We are committed to developing integrated voting solutions that improve the marketplace and are flexible enough to meet multiple jurisdictions' needs and voter preferences.

## OUR HISTORY



## OUR BUSINESS

ES&S entered the elections industry as a vote tabulation company, when the development of optical-mark reader technology was in its infancy. As our clients' election needs have evolved, we have consistently expanded our offerings to provide high-quality innovation election solutions that improve the democratic process.

We understand and manage all aspects of the election process. From voter registration and ballot layout to Election Day reporting, ES&S provides our customers with the world's most-robust election support.

Today, we not only work with many of the same customers we have served for nearly 40 years, but our business has also grown to service four nations and 41 U.S. states with more than 4,500 election offices.





# DS200<sup>®</sup>

## *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 in one simple step.

### *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

# 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



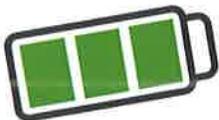
The DS200 combines the ES&S-patented Intelligent Mark Recognition (IMR™) and patented Positive Target Recognition & Alignment Compensation (PTRAC™) systems to accurately track and pinpoint target locations. This technology accommodates ballots inserted at angles or with erroneous marks to uphold voter intent. This precision improves the reliability of elections.

## SECURE



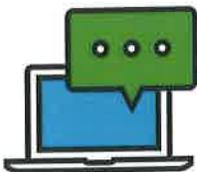
Like all ES&S tabulation equipment, the DS200 includes physical security features such as locking panels and security seals to secure sensitive components and election files, and a key-locked case for transport and shipping. The DS200 operating system controls, limits and detects unauthorized access 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



# ExpressVote®

*Universal Voting System as a Marker*



Multilingual

Touch Screen and Display

Allows voters to easily make vote selections and review their selection.

Instruction Panel

A visual guide that shows voters how to use the ExpressVote.

Card Slot

Where the voter inserts their card to activate selections.

Visual Aids

High contrast and zoom functionality.

Front Access Panel

Headphone jack, a port for a Sip-and-Puff device or two-position rocker switch, and Audio-Tactile Keypad make the unit ADA friendly.



Audio-Tactile Keypad

Enables ADA voters to control audio and navigate the ballot.

## ACTIVATING THE VOTE SESSION:

Election officials can configure the ExpressVote to best fit their needs. The voter receives an activation card to begin the process.

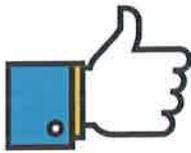
- If only one ballot style is programmed for the election, a blank card activates the vote session.
- Multiple ballot styles with a blank card prompt poll workers to select the correct ballot style for the voter.
- A card with an activation barcode displays the correct options for the voter if the election has multiple ballot styles.



# ExpressVote Key Features

As a marker, the ExpressVote handles the entire marking process, eliminating marginal marks and the need for voter mark interpretation. Voters utilize the touch screen to mark their vote selections, receiving a verifiable paper vote record upon completion. Used in early vote centers and on Election Day in precincts or vote centers, the ExpressVote can serve every eligible voter, including those with special needs.

## EASY TO SET UP AND USE



The one-step startup and poll-closing procedure make the ExpressVote an ideal device for poll workers. The intuitive design offers streamlined simplicity for poll workers and election staff. The ExpressVote is also small, lightweight and easy to move.

## CONTROLLED AND REDUCED COSTS



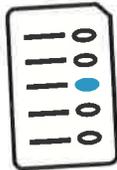
Traditional ballot printing costs can be significantly reduced by eliminating the need for pre-printed paper ballots. Voters activate their vote session, make their selections and receive a paper record to cast. This process consumes 70 percent less paper than traditional ballots.

## INNOVATIVE DESIGN



Voters review a summary page and can make changes before receiving their verifiable paper vote record. The ExpressVote prevents overvotes and undervoting with prompts and on-screen feedback. ExpressVote in marking mode neither stores nor tabulates vote counts. The system produces a verifiable paper record for each voter.

## VERIFIABLE PAPER RECORD



After all selections are made, a human- and machine-readable paper record is produced that includes text and an optical scan barcode. Votes are digitally scanned for tabulation on an ES&S DS200®, DS450® or DS850® device.

## SECURE



The ExpressVote Universal Voting System utilizes a variety of functions to ensure election data and cast vote records are secure. In its current certification as a marking device, no vote data is stored in the device. Its system functions are only executable during election events, in the manner and order intended by election officials performing their duties.

For more information visit [www.essvote.com](http://www.essvote.com)



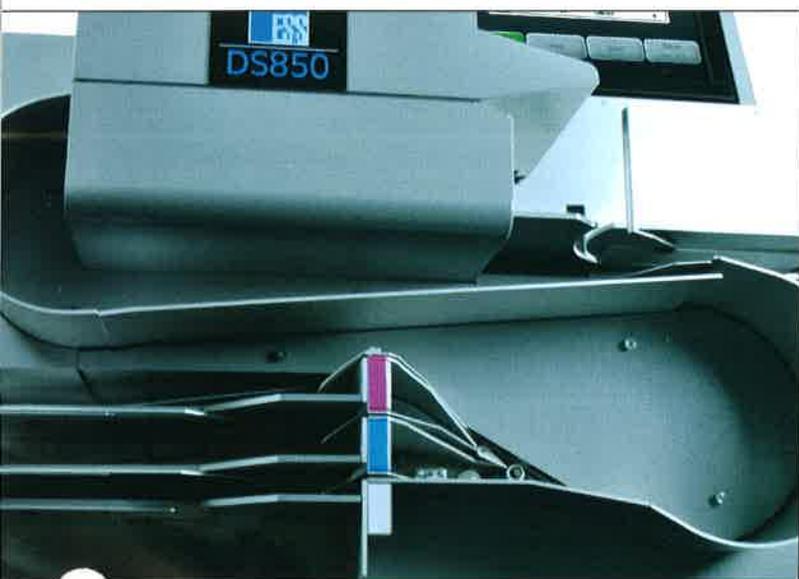
HIGH-SPEED SCANNER AND TABULATOR

# DS850<sup>®</sup>

**THE INDUSTRY LEADING HIGH-SPEED  
CENTRAL SCANNER AND TABULATOR.**

The DS850 high-speed central scanner and vote tabulator is the fastest central scanner in the election industry, capable of processing approximately 300 double-sided 14-inch ballots per minute. The DS850 continuously scans and intelligently sorts ballots with its high-speed digital image processing, saving election staff valuable time when tabulating results. Fully certified and compliant with EAC guidelines, the DS850 enhances the voting experience for voters and election officials.

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.



# Enhance the Voting Experience

## KEY FEATURES & BENEFITS

### SPEED

The DS850 can scan ballots of multiple sizes and handle folded and roughed-up ballots with ease. For example, the system can scan 14-inch double-sided ballots at the rate of approximately 300 per minute with next to no ballot jams. The DS850 is three times faster than any other digital scanner on the market.

### EASE OF USE

The durable 15-inch color touch screen and user-friendly interface walk you through every step of the process.

### FLEXIBILITY

With three separate sorter bins, you can determine whether you want to outstack specific types of ballots for further review. Let the DS850 handle separating write-in votes, overvotes, and blank ballots – *all without missing a beat.*

### SECURITY

Safeguard your election data with system integrity, electronic audits, data encryption and digital signatures. Nearly 40 years of election industry experience makes ES&S the vendor you can trust.

### ACCURACY

ES&S' patented Intelligent Mark Recognition (IMR™) and patented Positive Target Recognition & Alignment (PTRAC™) technology ensures that ballots are read accurately and consistently, protecting voter intent and eliminating manual adjudication time.

PTRAC's sophisticated image processing algorithms utilize the ballot's timing marks to quickly create an evaluation window where the oval for each contest is expected to be. IMR then digitally subtracts the outline of the voting target to read only the voter's mark. Other optical scanners require you to set an arbitrary pixel threshold to determine what counts as a mark.

Instead, the DS850 does the work for you. To determine which marks were intentional, sophisticated algorithms analyze the mark's darkness (pixel density) and directionality. Unlike other scanners, the DS850 is not fooled by erasures or other stray marks.

Does the election require a recount? With the DS850, you get the same consistent and accurate results every time.





# Voting System Security

*Election Systems & Software (ES&S) is a proud provider of voting system technology across the United States. We have been in the business of providing tabulation systems to local and state jurisdictions for nearly 40 years.*

The voters of our nation cast their ballots using a number of different methods. The types and kinds of technology in use across the nation vary from state to state and county to county, depending on the election laws and preferred voting methods for a particular jurisdiction. Depending on the jurisdiction, voters can cast their ballots by mail in advance of Election Day or in a polling location on Election Day, and in some cases in a polling location during an Early Voting period. A number of voters cast their ballots on a voting device designed to ensure that those with disabilities can vote securely and independently. The most common way to vote, however, remains in-person at a polling location on the day of the election. Polling place ballots are then tabulated at the precinct, or in some cases, they are centrally counted at the Elections Office.

At ES&S we design, build and sell voting systems that support all the aforementioned voting methods. The overriding design philosophy with all of our products is to ensure accuracy, security and reliability — a philosophy that has prevailed throughout our company's history. As such, ES&S is committed to ensuring the long-term sustainability of our products. A large part of our company is devoted to sourcing and maintaining replacement parts for our fielded systems – regardless of age. All replacement parts are tested and certified for use prior to installation. Additionally, we field hundreds of trained support personnel who perform preventative maintenance on voting systems to ensure that each piece of technology is in good working order prior to Election Day.

ES&S submits our tabulation systems to rigorous and lengthy test campaigns as part of the Election Assistance Commission's (EAC) Voting System Certification Program. This important program sets forth security and performance standards that were developed by Scientists, Academicians and Election Officials. All of our systems are tested by independent laboratories that have received federal accreditation.

In addition to adhering to the security and performance requirements of the EAC Certification Program, our systems allow Election Officials to easily adhere to the laws of their state which mandates strict physical security and tight chain of custody of the voting machines.

In the event that a voting machine has a mechanical issue, or a human makes an error in preparing or using a voting machine, every state in the nation has protocols for the use of back-up equipment, audits of voting results and publicly documented physical tests to ensure that issues can be corrected prior to Election Day or before the final certification of voting results.

Our mission at ES&S is simple and unwavering. We believe in "maintaining voter confidence and enhancing the voting experience". We deliver on this commitment through our dedication to the research, design and manufacture of secure, accurate and reliable voting systems. In addition, we remain committed to submitting all of our systems to the EAC federal testing process that is the gold standard for our industry. Finally, our promise of accuracy, security and reliability is supported and strengthened by the dedication and attention to excellence that is a hallmark of the thousands of Election Officials across the nation whom we serve.

We support each of these officials in our mutual quest to perpetually uphold the integrity of this nation's elections process.



# EXPRESSVOTE®

## Security Features Of The Universal Voting System

Accuracy, security and reliability are the cornerstones of the ES&S development process for each voting system we manufacture and sell. From concept to construction, ES&S adheres to industry-leading standards and complies with rigorous testing schedules set forth by federal and state election agencies. Upholding and perpetuating the integrity of our nation's election process is our continuing mission as a company.

The ExpressVote Universal Voting System utilizes a variety of functions to ensure election data and cast vote records are secure. In its current certification as a marking device, no vote data is stored in the device. Its system functions are only executable during election events, in the manner and order intended by election officials performing their duties.

As a paper-based voting system, the ExpressVote maintains verifiable paper vote records for every voter. Records contain both written selections and a machine readable barcode containing those same vote selections. Each vote record is subsequently tabulated by an ES&S tabulator (DS200, DS450 or the DS850) and securely stored according to each jurisdiction's election laws for recount and auditing purposes.

The operating software provides security access controls to limit or detect access to critical system components, guarding against system integrity loss and availability. This maintains confidentiality and provides accountability for each unit.

The ExpressVote hardware is designed to protect against tampering, including during system repair or interventions in system operations.

System access is limited during equipment preparation, testing and operation due to physical locks and required access codes. These security safeguards cannot be bypassed or deactivated during system installation or operation.





# DS200<sup>®</sup>

## Security Features Of The Precinct Scanner & Tabulator

Accuracy, security and reliability are the cornerstones of the ES&S development process for each voting system we manufacture and sell. From concept to construction, ES&S adheres to industry-leading standards and complies with rigorous testing schedules set forth by federal and state election agencies. Upholding and perpetuating the integrity of our nation's election process is our continuing mission as a company.

Like all ES&S ballot tabulation equipment, the DS200 in-precinct paper-based scanner and tabulator 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. This paper-based system maintains paper vote records and takes digital images of each processed ballot.

The DS200 allows election officials to easily validate that all resident firmware matches the firmware version certified for use in that jurisdiction. It also generates detailed audit and event logs to reveal all actions taking place on the unit while also digitally signing and encrypting all data to prevent malicious tampering. Each administrative function requires a password be entered for completion and units can be configured to require a passcode before the tabulator boots up.

Strong physical safety features including controlled keys with unique locks, security seals and security screws eliminate the possibility of undetected system tampering during storage, transport and use. The unit only accepts approved and certified USB drives to prevent unauthorized data transfers or uploads.

The DS200 tabulator is a single purpose voting device. As such, once an election official installs election programming, it is not possible for a separate device to interface with the DS200 in order to overwrite or change the election definition or system firmware. Additionally, when election results are transmitted, a double encryption procedure is employed that ensures results are secure from the time they are bundled by the DS200 tabulator until they are processed by the Election Reporting Manager (ERM).





# ELECTIONWARE®

## Security Features Of The ES&S Election Management System (EMS)

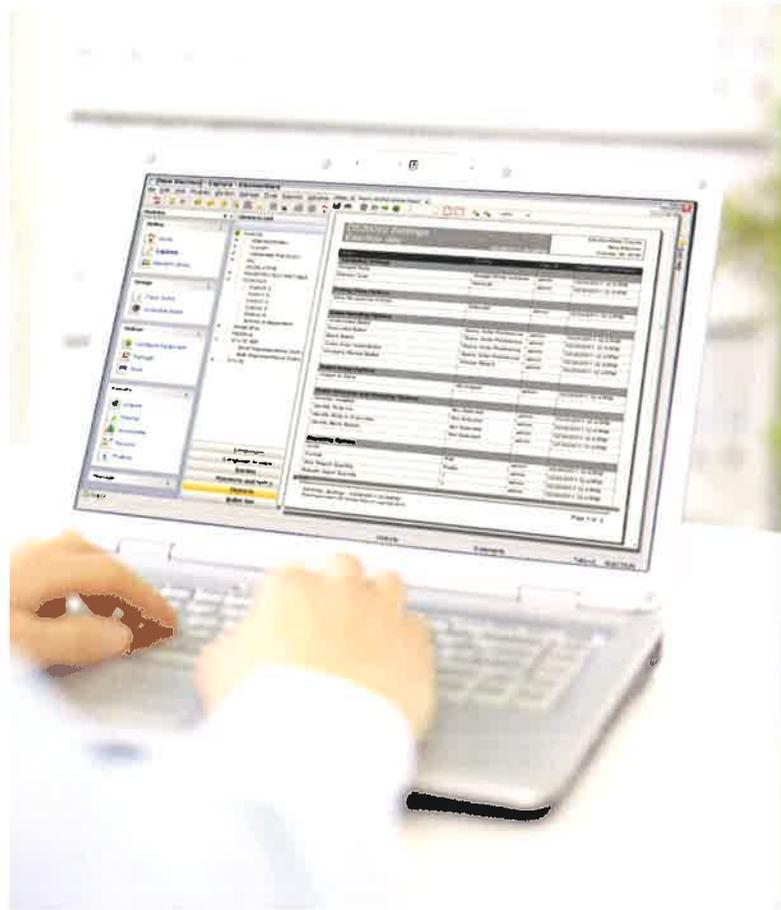
Accuracy, security and reliability are the cornerstones of the ES&S development process for each voting system we manufacture and sell. From concept to construction, ES&S adheres to industry-leading standards and complies with rigorous testing schedules set forth by federal and state election agencies. Upholding and perpetuating the integrity of our nation's election process is our continuing mission as a company.

Electionware is an election management system (EMS) which allows jurisdictions to manage their elections through the software's easy-to-understand, user-friendly interface. Our EMS incorporates the very latest in election security, including heightened audit controls and change-management processes that are built in to make sure election data is safe and secure. Electionware requires users to enter a valid username and password prior to gaining access to the application. The username and passwords are stored in an encrypted form in the database.

Electionware saves a record of all user actions with username to the system audit log. Electionware maintains an audit log that shows all system processes. This audit log can be filtered by date and type of event. The log can be printed, or saved in a variety of file formats, including .pdf, .rtf, .html, .xls, and .csv. The log operates during all processes including results processing. Optionally, log events can be viewed in real-time in the output window, which displays errors in red text, warnings in blue text, and normal events in black text.

Audit records created during the election definition and ballot preparation include records for the finalization of ballot layout and modifications to that finalization. These records incorporate a date/time stamp, include a description of the action and the module the action occurred in. Audit reports can be filtered by date, event type, and sorted by ascending or descending timestamps.

System security for Electionware limits casual access to system files. Officials are required to implement a strong physical and procedural security plan that limits access to Electionware to authorized personnel only. Electionware does not offer any data entry feature that can be used to alter programming. The



database server accesses data through a service account, protecting data files from direct access.

A complete security hardening process is provided for the computer platform of the EMS as a security measure. This process hardens the basic input/output system (BIOS), the operating system, and the User Access Controls so data cannot be modified outside the intended flow of the application or by a malicious hacker.



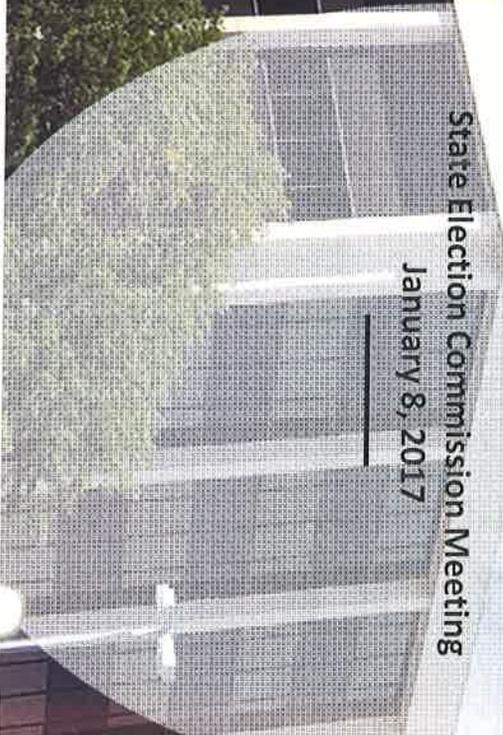
**ESS**  
**ELECTION**  
SYSTEMS & SOFTWARE



# Tennessee

State Election Commission Meeting

January 8, 2017



# Presentation Agenda

- Introductions
- Federal and State Certification
- Voting System Security
- Product Overview/Enhancements
- Final Remarks

# Federal Certification



		<b>EVS 5.2.1.0</b> EAC Certified 12/18/2015 TN Certified 01/09/17	<b>EVS 5.2.2.0</b> EAC Certified 2/27/2017 TN Certified TBD
<b>Election Management System (EMS)</b>	ElectionWare	4.7.1.0	4.7.1.1
	Reporting Manager (ERM)	8.12.1.0	8.12.1.1
	Event Log Service	1.5.5.0	1.5.5.0
	Removable Media Service	1.4.5.0	1.4.5.0
	ExpressVote Previewer	1.4.1.0	1.4.1.2
<b>Universal Voting Device</b>	ExpressVote	1.4.1.0	1.4.1.2
	DS200 Precinct Tabulator	2.12.1.0	2.12.2.0
<b>Tabulators</b>	DS850 Central Tabulator	2.10.1.0	2.10.2.0
	AutoMARK	1.8.6.0	1.8.6.1
<b>ADA</b>			

- Election Assistance Commission (EAC) certified on **February 27, 2017** for conformance to the *2005 Voluntary Voting System Guidelines (VMSG)*

- Voting System Testing Laboratory (VSTL) testing completed at National Technical Systems (NTS) in Huntsville, Alabama

Release Objectives:

1. Upgrade Cryptographic security to latest NIST accredited modules on all products
2. Perform general enhancements to *Electionware* and the *ExpressVote*

# EVS 5.2.2.0 State Certifications

## State Certified in 21 States

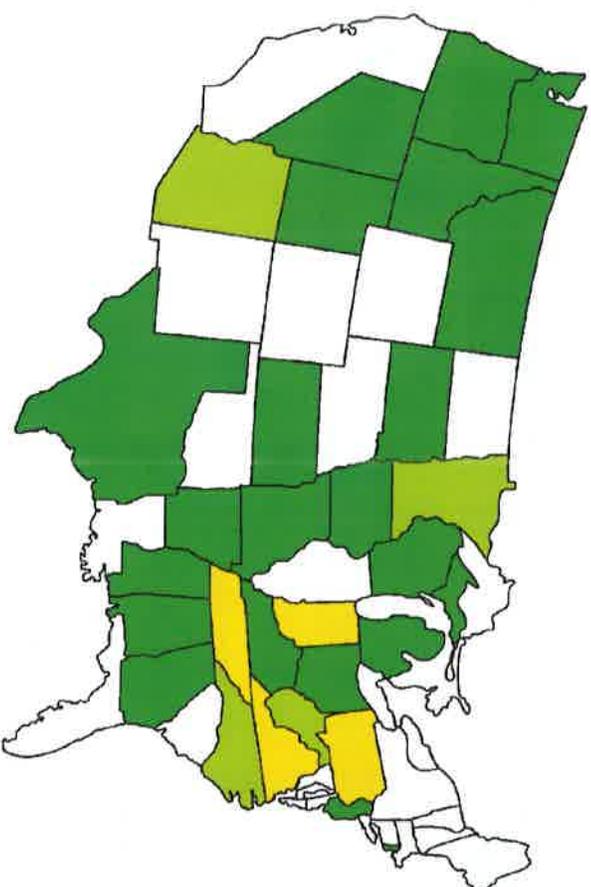
AL, AR, GA, KS, KY, IA, ID, MI, MO, MS, MT, NJ, NV, OH, OR, RI, SD, TX, UT, WA, WI

## Pending in 4 States

AZ, MN, NC, WV

## Scheduled in 3 States

PA, TN, VA



# Voting System Security

## System Logs

- *Windows Event Viewer* – Operating System events
- Each product has an audit log that records all user actions
- View/Print each of the tabulators audit logs within the EMS

## Encryption & Digital Signatures

- AES-256 Encryption
- RSA BSAFE Crypto-C ME and OpenSSL for Digital Signatures

## Election Management Access Controls

- Never connected to internet – hardening scripts disable wireless/network ports
- Username and Password required for entry
- Electionware Administrator creates users, assigns access credentials, and defines password expiration (in days).

## Voting Equipment Access Controls

- Password entry required for loading the election and to enter administrative menu.

## Physical Security

- Locks, seals, tamper evident tapes, county security protocols

## Verification Procedures

- Quick Hash Procedures prior to or post election to ensure the firmware/software is unmodified from EAC Certified version

# Product Overview

- DS200 Precinct Tabulator
- ExpressVote – Universal Voting System
- AutoMARK Voter Assist Terminal
- DS850 Central Tabulators
- EVS 5.2.2.0 Product Enhancements

# DS200 Precinct Tabulator



## Digital Scanning

- 1105+ Jurisdictions
- Scans paper ballots and ExpressVote summary cards in any orientation

## Internal Battery Back-up

- Internal back-up battery to provide additional 2+ hours of power

## Touch Screen Interface

- Clear and simple on-screen messages guiding the voter through each voting session
- On-screen display of the public/protected count, admin menu, battery status, and help icon
- Allows user to preview reports on-screen prior to printing

# ExpressVote - Marker

## Universal Voting System:

- 530+ Jurisdictions
- Touch-screen technology and paper-based system in a single device
- Handles entire marking process, no overvotes, no marginal marks, less voter error

## Touch-screen/ADA Interface

- Provides help guides and user friendly messages
- ADA Support: Navigation keypad, audio jack, sip-n-puff device

## Economical and Pollworker Friendly

- Ballot on demand system - election officials no longer have to guess the number of ballots to print
- No consumables besides activation cards
- Easy On/Off opening and closing process



# AutoMARK Voter Assist Terminal



- 5060+ Jurisdictions
- Touchscreen/ADA Interface
- Navigation keypad, audio jack, and support for ADA equipment
- Supports the scanning, presenting, and marking of 11, 14, 17, and 19 inch paper ballots inserted in any orientation.

# DS850 Central Tabulator

## Digital Scanning

- 150+ Jurisdictions (DS850)
- Tabulates paper ballots and Expressvote cards in any orientation

## Throughput

- 300-350 ballots per minute

## S-Curve Design

- Allows enough time for processing and sorting of ballots
- 22 sets of rollers maintain control during the scanning process

## Configurable Sorting Options

- Three configurable outstack bins for ballots containing write-ins, overvotes, undervotes, or blank ballots
- Allows for ballot adjudication during scanning

## Touchscreen Interface

- Provides help guides and user friendly messages
- Ability to preview any report prior to printing



# Product Enhancements

- ***Voting System Enhancement:*** Updated Cryptographic Libraries to latest NIST standards
- No Functional Enhancements to the DS850, DS2000, and AutoMARK from EVS 5.2.1.0 to EVS 5.2.2.0.



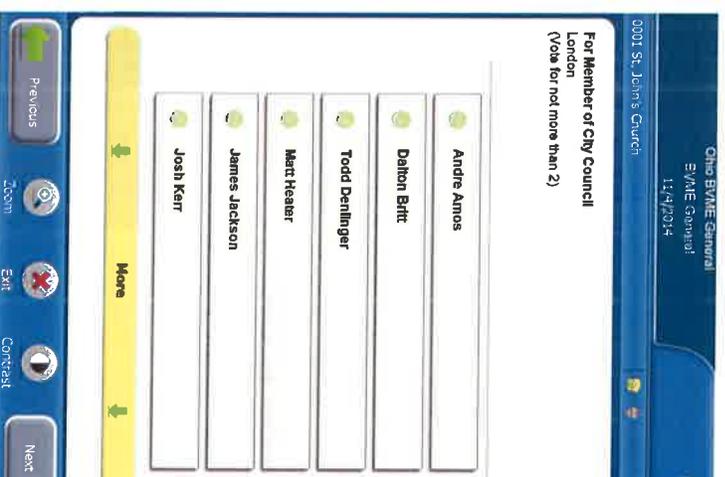
# Product Enhancements

## ExpressVote Universal Voting System

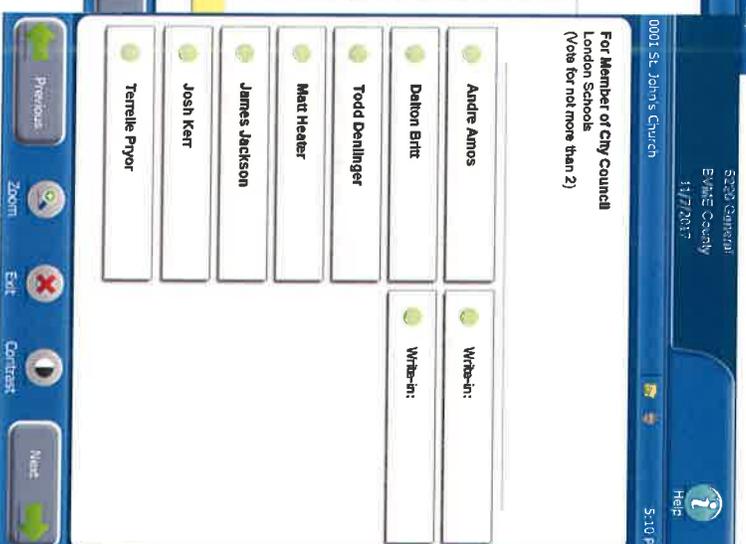
### Two-Column Display

- The ExpressVote displays two columns of candidates per page. Previous release only had one column per page

**EVS 5.2.1.0 Example**



**EVS 5.2.2.0 Example**



# Final Remarks

## ➤ Voting System Reference Questionnaires

- Remi Garza – Cameron County, Texas
- Linda Crawford – Miller County, Arkansas
- Sasha Kelton – Clay County, Texas

(Each provided a letter of recommendation as well)

## ➤ Any questions?



### **Voting System Reference Questions**

Reference Name and Contact Information: **Remi Garza, Elections Administrator, 956-544-0809**

Jurisdiction Name: **Cameron County, Texas**

Quantity, type and version of voting equipment and software installed: **137 ESS DS 250's and 2 DS 450's utilizing EVS 5.2.2.0 release.**

How many voters are in your jurisdiction? **199,248 registered voters.**

When did your jurisdiction purchase the system? **September 19, 2017**

How many elections have you used the system? **One countywide joint election.**

Have any upgrades been made to the system since you purchased it? Why? **No upgrades yet.**

Are you still using the same system? **Yes**

Describe your overall impression of the system based on experiences in your jurisdiction. **Ease of set up and closing of the polls. Sturdy construction and much more user friendly for poll workers and voters.**

Are you satisfied with the training provided to your staff? **Yes, very satisfied.**

Are you satisfied with the training provided for poll officials? **Yes, very satisfied.**

Are you satisfied with the support the vendor has provided for early voting (if applicable), Election Day, and post-election activities? **Yes, we were provided qualified professional support during all phase of the election process; before during and post-election.**

Are you satisfied with the cost of support? Do you feel the cost of support is competitive or too expensive? **Cost of support was competitive and in keeping with level of service provided.**

Describe any issues the vendor has had meeting your jurisdiction's requirements, if any. **None**

Describe any issues your jurisdiction has had regarding equipment availability, if any. **None**

Describe any issues your jurisdiction has had regarding the accuracy of election results, if any. **None. We also verified our results with a partial manual count mandated by the State of Texas.**

Describe any other issues your jurisdiction has had with the system, if any. **No issues.**

Has the vendor been responsive in addressing issues? **Vendor has reached out unprompted to offer continued support and discuss impact of issue discussed at state level.**

Describe any feedback (positive or negative) received from poll officials about the system. **Poll Officials were very complimentary of the new system. They appreciated the interactive and informative screens that guided them through set up and closing down the polls. They also preferred the portable transfer cases incorporated into the DS 200 system. These comments were universal and came from experienced as well as new presiding judges and clerks.**

Describe any feedback (positive or negative) received from voters about the system. **The upgrade was appreciated. They liked the interactive screen informing them of what was happening to their ballots as well as information on over votes and under-votes. It was described as a familiar but more up to date experience.**

Do you feel like you have gotten your money's worth for the system? **Yes. We were able to release our final returns at least an hour ahead of schedule.**

Would you recommend this system for use in other jurisdictions? **Without hesitation. The new system has surpassed our expectations and ES&S has proved to be a capable and solid partner in supporting our election system.**



REMI GARZA, CERA  
ELECTIONS ADMINISTRATOR

December 19, 2017

State Election Commission  
312 Rosa L. Parks Avenue  
7th Floor, Snodgrass Tower  
Nashville, Tennessee 37243-0309

Dear Members of the Commission:

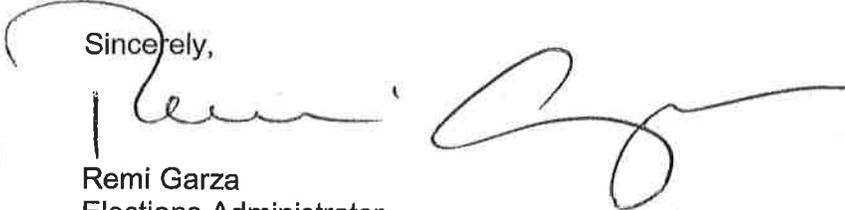
I am pleased to provide this letter of reference on behalf of Election Systems and Software (ES&S), specifically their EVS 5.2.2.0 voting system. As the Elections Administrator for Cameron County Texas, I have had the opportunity to oversee the transition from its previous voting system, an ES&S system, to the EVS 5.2.2.0 in August of this year. Cameron County has partnered with ES&S for well over a decade and have always found them to professional, knowledgeable and extremely supportive. Their staff has in every instance been informative, gone the extra mile and never once let our county down.

As mentioned above, our county recently updated portions of our voting system. We replaced our existing multispeed counters and precinct counters with the DS 450 and DS 200 respectively. Both these systems are certified by the State of Texas. After a two year review process, Cameron County made the final selection two months before our November 2017 Constitutional Amendment Election. The transition was uncommonly smooth due to the sophisticatedly simple set up and closing procedures as well as the overall ease of use of the equipment. We also had ample training and their personnel stayed on site until our staff and election judges fully understood the new system.

ES&S has clearly demonstrated an understanding of how this equipment will be used. They frequently conferred with us regarding proposed changes and were responsive to our suggestions. Their equipment is user friendly, provides straight forward intuitive instructions, and is proven reliable. They now offer features, such as batch review on the DS 450 that allowed us more control and far greater visibility during the counting process. The system overall on one hand provides an assurance of stability and on the other hand is dynamic in its utility.

In closing, the ES&S EVS 5.2.2.0 has been a positive upgrade to our voting system in Cameron County. Converting our system provided us with our earliest results and after a state mandated partial manual count reliable counts. The company and their great staff have always been at our side during elections nights and we fully expect them to be there in future. They have never let us down: and their equipment has been even more reliable, if that is possible.

Sincerely,

  
Remi Garza  
Elections Administrator



### **Voting System Reference Questions**

Reference Name and Contact Information: Linda Crawford; email: [jlecc1959@valornet.com](mailto:jlecc1959@valornet.com); cell phone 903-748-6797; 400 Laurel Street Room 105, Texarkana, AR 71854

Jurisdiction Name: Miller County Arkansas

Quantity, type and version of voting equipment and software installed: 56 Express Vote; 31 Express Poll and Printers; 14 DS200 Version EVS 5.2.2.0

How many voters are in your jurisdiction? 24,500

When did your jurisdiction purchase the system? May 2017

How many elections have you used the system? Two

Have any upgrades been made to the system since you purchased it? Why? No upgrades

Are you still using the same system? Yes

Describe your overall impression of the system based on experiences in your jurisdiction. Our Election Administrators, Election Commissioners, IT Technicians, Poll Workers and Voters are 100% satisfied with the ease of using the equipment, tabulation at the polls and election night reporting.

Are you satisfied with the training provided to your staff? Yes

Are you satisfied with the training provided for poll officials? Yes

Are you satisfied with the support the vendor has provided for early voting (if applicable), Election Day, and post-election activities? We have not used on-site support; we did call ES&S software support on an Election Day because of an operator error. The issue was immediately resolved.

Are you satisfied with the cost of support? Do you feel the cost of support is competitive or too expensive? We will have on-site support during the 2018 Primary Election, which is included as part of the contract package. I am aware of the cost of support and feel it is a fair amount. We have been an ES&S customer for 11 years and have always been able to resolve Election Day problems by telephone contact with ES&S hardware and software support.

Describe any issues the vendor has had meeting your jurisdiction's requirements, if any. No issues.

Describe any issues your jurisdiction has had regarding equipment availability, if any. No issues

Describe any issues your jurisdiction has had regarding the accuracy of election results, if any. No issues with tabulation.

Describe any other issues your jurisdiction has had with the system, if any. We had one Express Poll tablet that would not hold a charge. The issue was found during our initial testing process, the tablet was sent back to ES&S for repairs and was successfully used on election day.

Has the vendor been responsive in addressing issues? Always responsive

Describe any feedback (positive or negative) received from poll officials about the system. All of our poll officials have been positive and especially pleased with the speed and simple use of the open and close process. The system brings up the voters correct ballot style which eliminates poll worker error.

Describe any feedback (positive or negative) received from voters about the system. Our voters are happy to be able to have hands on their paper ballot for review and then cast their ballot on the DS200. Voters also have confidence their correct ballot style has been brought up by the system.

Do you feel like you have gotten your money's worth for the system? Yes

Would you recommend this system for use in other jurisdictions? Yes

Miller County Election Commission  
400 Laurel Street, Room 105  
Texarkana, Arkansas 71854

Commissioners:  
Brandon Cogburn, Chairman  
Clinton Thomas  
Charlotte Fuller

Election Coordinator  
Linda Crawford  
903-748-6797

December 18, 2017

Dear Election Officials:

It is a pleasure to provide a reference in support of Election Systems and Software (ES&S). Miller County Arkansas, along with the entire State began a partnership with ES&S, in 2005. Arkansas again choose ES&S as the provider of the EVS 5.2.2.0 system. In 2017 Miller County had the opportunity to convert to this new system.

The support given to us by the ES&S staff during the transition time was phenomenal. We received assistance from the sales person to help us determine the number of units to order for our County's needs. Our customer service representative was on top of all aspects beginning with an advance meeting to walk us through the entire process, to the equipment delivery and assembly and then the scheduling of the training by ES&S.

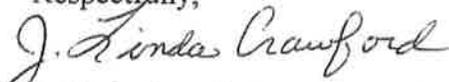
Our new equipment includes the Express Poll Book and Printer, Express Vote and the DS200 Tabulator. Training was provided over three consecutive days by a professional staff member who worked with our trainers on each piece of equipment. Our technicians responsible for election night reporting were also given separate training as was our County Clerk Deputy in charge of voter registration.

All staff members have provided us with their personal contact information and all follow up questions have been answered in a timely manner. Every phase of the process was delivered during the time frame as scheduled.

We have held two elections this year using the new system. We trained all of our poll workers who were elated at the ease of using the new equipment. Most important were the voters who used the new system with little instruction. Voters were very happy to be able to actually hold and review their own ballot before casting and they felt confident their ballot was counted and secured.

Should you have additional questions concerning our experience with ES&S or the EVS 5.2.2.0 system please contact me by email [jlecc1959@valornet.com](mailto:jlecc1959@valornet.com) or direct cell phone 903-748-6797.

Respectfully,



J. Linda Crawford  
Election Coordinator



### **Voting System Reference Questions**

Reference Name and Contact Information: Sasha Kelton, County Clerk  
(940) 538-4631  
ccclerk@claycountytexas.com

Jurisdiction Name: Clay County Texas

Quantity, type and version of voting equipment and software installed: 17 ExpressVote, 17 DS200, 1 Expresspoll electronic pollbook, ERM DS 5.2.2.0

How many voters are in your jurisdiction? 7,500

When did your jurisdiction purchase the system? Automarks, M100's and Unity in 2006. New equipment in 2017.

How many elections have you used the system? One- Nov. 7, 2017 election

Have any upgrades been made to the system since you purchased it? Why? N/A

Are you still using the same system? Yes

Describe your overall impression of the system based on experiences in your jurisdiction. The system is great. It's similar to the former ES&S system we had, so easy transition for myself, my staff, pollworkers and voters. We love the ease and accuracy of electronic tabulation, with security of a paper ballot. ES&S goes above and beyond in regards to equipment, training and support.

Are you satisfied with the training provided to your staff? Yes- very satisfied

Are you satisfied with the training provided for poll officials? Yes- very satisfied

Are you satisfied with the support the vendor has provided for early voting (if applicable), Election Day, and post-election activities? Yes- very satisfied

Are you satisfied with the cost of support? Do you feel the cost of support is competitive or too expensive? Yes- very satisfied

Describe any issues the vendor has had meeting your jurisdiction's requirements, if any. N/A

Describe any issues your jurisdiction has had regarding equipment availability, if any. N/A

Describe any issues your jurisdiction has had regarding the accuracy of election results, if any. N/A

Describe any other issues your jurisdiction has had with the system, if any. N/A

Has the vendor been responsive in addressing issues? Yes- very satisfied

Describe any feedback (positive or negative) received from poll officials about the system. All feedback we received after our first election on the new system was positive. We have several older pollworkers who are sometimes intimidated by electronic equipment and/or learning new procedures, but everyone caught on quickly. The similarities between our former ES&S equipment and the new equipment made training and transitions easier for our regular pollworkers. The new pollworkers who had never operated either system before also caught on quickly. I received no negative feedback.

Describe any feedback (positive or negative) received from voters about the system. All feedback I received from voters after our first election on the system was positive. Several voters used the ExpressVote to cast their ballots, and they all enjoyed it. I received no negative feedback.

Do you feel like you have gotten your money's worth for the system? Yes

Would you recommend this system for use in other jurisdictions? Yes, in fact, I often do.



# Clay County Clerk

Sasha Kelton

PO Box 548, Henrietta, Texas 76365

Phone 940.538.4631 Fax 940.264.4160

December 19, 2017

Dear Election Officials:

It is my pleasure to provide a letter of reference in support of Election Systems & Software (ES&S). Clay County Texas has used ES&S as the county's exclusive elections vendor for more than eleven years. In 2016, the County began exploring options for upgrades to the current system, and after many demonstrations, again chose to contract with ES&S for the EVS 5.2.2.0 system.

The new equipment purchased includes the DS200 tabulator, ExpressVote, Express Pollbook and printer, and new Election Night Reporting system. ES&S provides timely pickup of old equipment and delivery of new equipment, as well as thorough training and support through the entire process. Training was scheduled during Logistics & Accuracy Testing, at my request, so that we had two trained professionals assisting my staff with the testing of our actual ballot. In addition to the training received before Election Day, a knowledgeable Site-Support representative was also present at our office during the election.

After using the new system for the November 7, 2017 election, all feedback received from pollworkers and voters after was positive. The equipment is easy to use, haul, set up and tear down. This solution offers the best of both worlds- the ease and accuracy of electronic voting and tabulation, with the security of a paper ballot. The county is very pleased with the purchase of the ES&S EVS 5.2.2.0 system.

Should you have any additional questions, please do not hesitate to contact me.

Thank you,



Sasha Kelton  
County Clerk & Chief Elections Official

## Kathy Summers

---

**From:** Swartz, Benjamin <brswartz@essvote.com>  
**Sent:** Thursday, December 21, 2017 1:39 PM  
**To:** 'Remi Garza'; 'Sasha Kelton, County Clerk'; 'Linda Crawford'  
**Cc:** Kathy Summers  
**Subject:** TN State Election Commission  
**Attachments:** Voting System Reference Questions for Tennessee.docx

**Importance:** High

**\*\*\* This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. \*\*\***

Good Afternoon Remi, Sasha, and Linda,

Thank you all again for providing the letters of recommendation for the EVS 5.2.2.0 release. In addition to the letter of recommendation you all provided earlier this week, would you be willing to complete the attached survey for the Tennessee State Election Commission? If at all possible, we'd prefer them back at some point next week or January 3<sup>d</sup> at the latest.

If you are willing, please complete the attached and email the completed surveys to Kathy Summers (cc'd on this email) and myself.

Thank you and please do not hesitate to contact us with any questions or concerns.

Take care,



**Benjamin Swartz | State Certification Manager | Election Systems & Software**  
11208 John Galt Blvd. Omaha, NE 68137 | O: 402-970-1143  
[brswartz@essvote.com](mailto:brswartz@essvote.com) | [www.essvote.com](http://www.essvote.com)

## Kathy Summers

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**From:** Sasha Kelton, County Clerk <ccclerk@claycountytexas.com>  
**Sent:** Thursday, December 21, 2017 2:02 PM  
**To:** 'Swartz, Benjamin'  
**Cc:** Kathy Summers  
**Subject:** RE: TN State Election Commission  
**Attachments:** Voting System Reference Questions for Tennessee- Clay County.docx

\*\*\* This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. \*\*\*

Please see attached.

Thanks,

*Sasha Kelton*

County Clerk, Clay County, Texas

PO Box 548, 214 N. Main St.

Henrietta, Texas 76365

Phone (940) 538.4631

Fax: (940) 264.4160

Website: <http://www.co.clay.tx.us/#!county-clerk/c1frm>

Facebook: <https://www.facebook.com/claycountyclerksoffice>

Serving Clay County since 2006

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**From:** Swartz, Benjamin [mailto:brswartz@essvote.com]

**Sent:** Thursday, December 21, 2017 1:39 PM

**To:** 'Remi Garza' <Remi.Garza@co.cameron.tx.us>; 'Sasha Kelton, County Clerk' <ccclerk@claycountytexas.com>; 'Linda Crawford' <jlecc1959@valornet.com>

**Cc:** 'Kathy Summers' <Kathy.Summers@tn.gov>

**Subject:** TN State Election Commission

**Importance:** High

Good Afternoon Remi, Sasha, and Linda,

Thank you all again for providing the letters of recommendation for the EVS 5.2.2.0 release. In addition to the letter of recommendation you all provided earlier this week, would you be willing to complete the attached survey for the Tennessee State Election Commission? If at all possible, we'd prefer them back at some point next week or January 3<sup>rd</sup> at the latest.

If you are willing, please complete the attached and email the completed surveys to Kathy Summers (cc'd on this email) and myself.

Thank you and please do not hesitate to contact us with any questions or concerns.

Take care,



### **Voting System Reference Questions**

Reference Name and Contact Information: Sasha Kelton, County Clerk  
(940) 538-4631  
ccclerk@claycountytexas.com

Jurisdiction Name: Clay County Texas

Quantity, type and version of voting equipment and software installed: 17 ExpressVote, 17 DS200, 1 Expresspoll electronic pollbook, ERM DS 5.2.2.0

How many voters are in your jurisdiction? 7,500

When did your jurisdiction purchase the system? Automarks, M100's and Unity in 2006. New equipment in 2017.

How many elections have you used the system? One- Nov. 7, 2017 election

Have any upgrades been made to the system since you purchased it? Why? N/A

Are you still using the same system? Yes

Describe your overall impression of the system based on experiences in your jurisdiction. The system is great. It's similar to the former ES&S system we had, so easy transition for myself, my staff, pollworkers and voters. We love the ease and accuracy of electronic tabulation, with security of a paper ballot. ES&S goes above and beyond in regards to equipment, training and support.

Are you satisfied with the training provided to your staff? Yes- very satisfied

Are you satisfied with the training provided for poll officials? Yes- very satisfied

Are you satisfied with the support the vendor has provided for early voting (if applicable), Election Day, and post-election activities? Yes- very satisfied

Are you satisfied with the cost of support? Do you feel the cost of support is competitive or too expensive? Yes- very satisfied

Describe any issues the vendor has had meeting your jurisdiction's requirements, if any. N/A

Describe any issues your jurisdiction has had regarding equipment availability, if any. N/A

Describe any issues your jurisdiction has had regarding the accuracy of election results, if any. N/A

Describe any other issues your jurisdiction has had with the system, if any. N/A

Has the vendor been responsive in addressing issues? Yes- very satisfied

Describe any feedback (positive or negative) received from poll officials about the system. All feedback we received after our first election on the new system was positive. We have several older pollworkers who are sometimes intimidated by electronic equipment and/or learning new procedures, but everyone caught on quickly. The similarities between our former ES&S equipment and the new equipment made training and transitions easier for our regular pollworkers. The new pollworkers who had never operated either system before also caught on quickly. I received no negative feedback.

Describe any feedback (positive or negative) received from voters about the system. All feedback I received from voters after our first election on the system was positive. Several voters used the ExpressVote to cast their ballots, and they all enjoyed it. I received no negative feedback.

Do you feel like you have gotten your money's worth for the system? Yes

Would you recommend this system for use in other jurisdictions? Yes, in fact, I often do.

## Kathy Summers

---

**From:** Linda Crawford <jlecc1959@valornet.com>  
**ent:** Tuesday, December 26, 2017 12:43 AM  
**To:** Benjamim Swartz; Kathy Summers  
**Subject:** Questionnaire for Tennessee State Election Commission  
**Attachments:** Voting System Reference Questions for Tennessee December 2017.docx

**Importance:** High

**\*\*\* This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. \*\*\***

Attached is the Questionnaire for Tennessee from Miller County Arkansas. I will be happy to provide any additional information.

Linda Crawford  
Miller County Arkansas  
Election Coordinator



### **Voting System Reference Questions**

Reference Name and Contact Information: Linda Crawford; email: [jlecc1959@valornet.com](mailto:jlecc1959@valornet.com); cell phone 903-748-6797; 400 Laurel Street Room 105, Texarkana, AR 71854

Jurisdiction Name: Miller County Arkansas

Quantity, type and version of voting equipment and software installed: 56 Express Vote; 31 Express Poll and Printers; 14 DS200 Version EVS 5.2.2.0

How many voters are in your jurisdiction? 24,500

When did your jurisdiction purchase the system? May 2017

How many elections have you used the system? Two

Have any upgrades been made to the system since you purchased it? Why? No upgrades

Are you still using the same system? Yes

Describe your overall impression of the system based on experiences in your jurisdiction. Our Election Administrators, Election Commissioners, IT Technicians, Poll Workers and Voters are 100% satisfied with the ease of using the equipment, tabulation at the polls and election night reporting.

Are you satisfied with the training provided to your staff? Yes

Are you satisfied with the training provided for poll officials? Yes

Are you satisfied with the support the vendor has provided for early voting (if applicable), Election Day, and post-election activities? We have not used on-site support; we did call ES&S software support on an Election Day because of an operator error. The issue was immediately resolved.

Are you satisfied with the cost of support? Do you feel the cost of support is competitive or too expensive? We will have on-site support during the 2018 Primary Election, which is included as part of the contract package. I am aware of the cost of support and feel it is a fair amount. We have been an ES&S customer for 11 years and have always been able to resolve Election Day problems by telephone contact with ES&S hardware and software support.

Describe any issues the vendor has had meeting your jurisdiction's requirements, if any. No issues.

Describe any issues your jurisdiction has had regarding equipment availability, if any. No issues

Describe any issues your jurisdiction has had regarding the accuracy of election results, if any. No issues with tabulation.

Describe any other issues your jurisdiction has had with the system, if any. We had one Express Poll tablet that would not hold a charge. The issue was found during our initial testing process, the tablet was sent back to ES&S for repairs and was successfully used on election day.

Has the vendor been responsive in addressing issues? Always responsive

Describe any feedback (positive or negative) received from poll officials about the system. All of our poll officials have been positive and especially pleased with the speed and simple use of the open and close process. The system brings up the voters correct ballot style which eliminates poll worker error.

Describe any feedback (positive or negative) received from voters about the system. Our voters are happy to be able to have hands on their paper ballot for review and then cast their ballot on the DS200. Voters also have confidence their correct ballot style has been brought up by the system.

Do you feel like you have gotten your money's worth for the system? Yes

Would you recommend this system for use in other jurisdictions? Yes

## Kathy Summers

---

**From:** Swartz, Benjamin <brswartz@essvote.com>  
**Sent:** Wednesday, January 03, 2018 8:52 AM  
**To:** Kathy Summers  
**Subject:** FW: TN State Election Commission  
**Attachments:** Voting System Reference Questions for Tennessee RG 12292017.docx

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**From:** Remi Garza [mailto:Remi.Garza@co.cameron.tx.us]  
**Sent:** Friday, December 29, 2017 4:23 PM  
**To:** 'Kathy Summers'  
**Cc:** Swartz, Benjamin  
**Subject:** RE: TN State Election Commission

Please let me know if you need additional information.

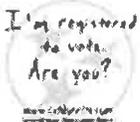
Remi

Remi Garza, CERA  
Elections Administrator  
956-544-0809 (o)  
956-244-6499 (c)

**From:** Kathy Summers [mailto:Kathy.Summers@tn.gov]  
**Sent:** Thursday, December 21, 2017 2:44 PM  
**To:** Remi Garza  
**Subject:** RE: TN State Election Commission

Thank you so very much.

Kathy Summers  
Elections Specialist



Elections Division  
Office of Tennessee Secretary of State Tre Hargett  
Wm R. Snodgrass - Tennessee Tower, 7th Floor  
312 Rosa L. Parks Ave  
Nashville, TN 37243

(615) 253-4585 - Direct Line  
(615) 741-1278 - Fax

[Kathy.Summers@tn.gov](mailto:Kathy.Summers@tn.gov) - E-mail Address

<http://tn.gov/sos/election/index.htm> - Elections Website

This electronic mail may be subject to the Tennessee Public Records Act, Tenn. Code Ann. § 10-7-503. Any reply to this email may also be subject to this act.

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**From:** Remi Garza [<mailto:Remi.Garza@co.cameron.tx.us>]

**Sent:** Thursday, December 21, 2017 2:33 PM

**To:** 'Swartz, Benjamin' <[brswartz@essvote.com](mailto:brswartz@essvote.com)>; 'Sasha Kelton, County Clerk' <[ccclerk@claycountytexas.com](mailto:ccclerk@claycountytexas.com)>; 'Linda Crawford' <[jlecc1959@valornet.com](mailto:jlecc1959@valornet.com)>

**Cc:** Kathy Summers <[Kathy.Summers@tn.gov](mailto:Kathy.Summers@tn.gov)>

**Subject:** RE: TN State Election Commission

\*\*\* This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. \*\*\*

I will have it for you on the December 26<sup>th</sup>. Happy Holidays and Merry Christmas.

Remi

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**From:** Swartz, Benjamin [<mailto:brswartz@essvote.com>]

**Sent:** Thursday, December 21, 2017 1:39 PM

**To:** Remi Garza; 'Sasha Kelton, County Clerk'; 'Linda Crawford'

**Cc:** 'Kathy Summers'

**Subject:** TN State Election Commission

**Importance:** High

Good Afternoon Remi, Sasha, and Linda,

Thank you all again for providing the letters of recommendation for the EVS 5.2.2.0 release. In addition to the letter of recommendation you all provided earlier this week, would you be willing to complete the attached survey for the Tennessee State Election Commission? If at all possible, we'd prefer them back at some point next week or January 3<sup>rd</sup> at the latest.

If you are willing, please complete the attached and email the completed surveys to Kathy Summers (cc'd on this email) and myself.

Thank you and please do not hesitate to contact us with any questions or concerns.

Take care,



**Benjamin Swartz | State Certification Manager | Election Systems & Software**

11208 John Galt Blvd. Omaha, NE 68137 | O: 402-970-1143

[brswartz@essvote.com](mailto:brswartz@essvote.com) | [www.essvote.com](http://www.essvote.com)

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### **Voting System Reference Questions**

Reference Name and Contact Information: **Remi Garza, Elections Administrator, 956-544-0809**

Jurisdiction Name: **Cameron County, Texas**

Quantity, type and version of voting equipment and software installed: **137 ESS DS 250's and 2 DS 450's utilizing EVS 5.2.2.0 release.**

How many voters are in your jurisdiction? **199,248 registered voters.**

When did your jurisdiction purchase the system? **September 19, 2017**

How many elections have you used the system? **One countywide joint election.**

Have any upgrades been made to the system since you purchased it? Why? **No upgrades yet.**

Are you still using the same system? **Yes**

Describe your overall impression of the system based on experiences in your jurisdiction. **Ease of set up and closing of the polls. Sturdy construction and much more user friendly for poll workers and voters.**

Are you satisfied with the training provided to your staff? **Yes, very satisfied.**

Are you satisfied with the training provided for poll officials? **Yes, very satisfied.**

Are you satisfied with the support the vendor has provided for early voting (if applicable), Election Day, and post-election activities? **Yes, we were provided qualified professional support during all phase of the election process; before during and post-election.**

Are you satisfied with the cost of support? Do you feel the cost of support is competitive or too expensive? **Cost of support was competitive and in keeping with level of service provided.**

Describe any issues the vendor has had meeting your jurisdiction's requirements, if any. **None**

Describe any issues your jurisdiction has had regarding equipment availability, if any. **None**

Describe any issues your jurisdiction has had regarding the accuracy of election results, if any. **None. We also verified our results with a partial manual count mandated by the State of Texas.**

Describe any other issues your jurisdiction has had with the system, if any. **No issues.**

Has the vendor been responsive in addressing issues? **Vendor has reached out unprompted to offer continued support and discuss impact of issue discussed at state level.**

Describe any feedback (positive or negative) received from poll officials about the system. **Poll Officials were very complimentary of the new system. They appreciated the interactive and informative screens that guided them through set up and closing down the polls. They also preferred the portable transfer cases incorporated into the DS 200 system. These comments were universal and came from experienced as well as new presiding judges and clerks.**

Describe any feedback (positive or negative) received from voters about the system. **The upgrade was appreciated. They liked the interactive screen informing them of what was happening to their ballots as well as information on over votes and under-votes. It was described as a familiar but more up to date experience.**

Do you feel like you have gotten your money's worth for the system? **Yes. We were able to release our final returns at least an hour ahead of schedule.**

Would you recommend this system for use in other jurisdictions? **Without hesitation. The new system has surpassed our expectations and ES&S has proved to be a capable and solid partner in supporting our election system.**

Donna Barrett  
2225 SE Broad Street  
Murfreesboro, TN 37127  
(615) 896-5571

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Morristown, TN 37814  
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1695 A.B. Wade Road  
Portland, TN 37148  
(615) 888-3081

## State of Tennessee



**State Election Commission**  
312 Rosa L. Parks Avenue, 7th Floor  
Nashville, Tennessee 37243-1102

Jimmy Wallace  
428 Wiley Parker Road  
Jackson, TN 38305  
(731) 668-2700

Tom Wheeler  
1196 Blockhouse Valley Road  
Clinton, TN 37716  
(865) 548-6159

Kent D. Younce  
423 Fairway Drive  
LaFollette, TN 37766  
(423) 871-0245

# State Election Commission Policy Selling Voter Information Basic Price List Updated – January 8, 2018

### Computer Printouts

Three (3) cents per name for a straight name list

Five (5) cents per name plus the cost of the labels

### Computer Diskettes

Minimum set up fee of \$35.00  
Maximum set up fee of \$75.00

***April 27, 2010 - The prices herein reflect the uniform pricing system established by the Tennessee State Election Commission on 4/27/2010 for the sale of voter registration list of county voters. No county election commission may charge more without formally requesting an increase before the State Election Commission.***

***January 8, 2018 – The State Election Commission added the use of USB / thumb drives or other media devices, provided that the devices are only supplied by the County Election Commission and not the purchaser. No change in price.***

- ***Prior to purchasing a voter list, the purchaser must complete a certificate stating the voter information will be used for Political Purposes ONLY.***

Tennessee Secretary of State  
Tre Hargett



Elections Division  
312 Rosa L. Parks Avenue, 7<sup>th</sup> Floor  
Nashville, Tennessee 37243-1102

Mark Goins  
Coordinator of Elections

615-741-7956  
Mark.Goins@tn.gov

## MEMORANDUM

**To:** State Election Commission Members

**From:** Mark Goins *Mark Dow*  
Coordinator of Elections

**Date:** December 13, 2017

**Subject:** Results of the December 12, 2017 Certification Exam

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On December 12, 2017, this office administered a certification exam. The following Administrators of Elections obtained a passing score on that exam:

**Pam Frejosky (Cheatham County)**

**Kathy Vest (Chester County)**

**Gary Miller (Grundy County)**

## Draft of Possible Legislative Changes for State Election Commission

### Option 1 – Defining governmental agency

- a. For purposes of this section, governmental body or agency means any federal, county or municipal governmental entity, including, but not limited to, any federal, county, municipality, metropolitan government, utility district, public building authority, and development district created and existing pursuant to the laws of this state, or any instrumentality of government created by any one (1) or more of the named governmental entities or by an act of the United States Congress or Tennessee General Assembly. (Definition is derived from Tenn. Code Ann. § Tenn. Code Ann. § 8-25-111)
- b. This section does not disqualify any employee of a county or city school system, or an employee of a public utility board or an electric or telephone cooperative who does not work directly under the supervision of an elected official.

### Option 2 – Limiting who from other boards may serve on the county election commission

- a. No member of the county election commission may serve on any board of any other governmental body or agency, unless the service on such other board is without compensation. Compensation shall include, but not be limited to, pay, insurance benefits or per diem reimbursement for meals, travel, or other similar expenses.

OR

- b. No member of the county election commission may serve on any board of any other governmental body or agency, unless the member receives less than \$50.00 per month as compensation for such service on the other board. (Compensation shall include, but not be limited to, pay, insurance benefits or per diem reimbursement for meals, travel, or other similar expenses.)

### Option 3 – Disqualifying county election commission members with close relatives on the ballot (Note does not impact AOE)

- a. Any member of the county election commission who has a close relative qualify for any federal, state, county or municipal elected office shall automatically become disqualified to continue in office as a member of the commission, and a vacancy on the commission shall be considered to exist. A person qualifies for elected office upon filing the required nominating petition for the office with the appropriate election commission. A close relative shall consist of the spouses, parents, siblings or children, including in-laws of commission election commission members. (Definition is derived from Tenn. Code Ann. § 2-12-116)

OR

- b. A close relative shall consist of the parents, children, spouses, siblings, grandparents, grandchildren, including in-laws, or any family member who resides in the same household of county election commission members. (Definition is derived from Tenn. Code Ann. § 3-1-202)