

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.

<b>Product Name:</b>	EVS
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Model or	Version:	5.2.1.0
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Name of VSTL:	NTS Laboratories
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EAC Certification Number: ESSEVS5210

December 18, 2015

BAD

Executive Director U.S. Election Assistance Commission

Scope of Certification Attached

Date Issued:

Manufacturer: Election Systems & Software System Name: EVS 5.2.1.0 Certificate: ESSEVS5210 Laboratory:NTS HuntsvilleStandard:VVSG 1.0(2005)Date:December 17, 2015



# Scope of Certification

This document describes the scope of the validation and certification of the system defined above. Any use, configuration changes, revision changes, additions or subtractions from the described system are not included in this evaluation.

## Significance of EAC Certification

An EAC certification is an official recognition that a voting system (in a specific configuration or configurations) has been tested to and has met an identified set of Federal voting system standards. An EAC certification is **not**:

- An endorsement of a Manufacturer, voting system, or any of the system's components.
- A Federal warranty of the voting system or any of its components.
- A determination that a voting system, when fielded, will be operated in a manner that meets all HAVA requirements.
- A substitute for State or local certification and testing.
- A determination that the system is ready for use in an election.
- A determination that any particular component of a certified system is itself certified for use outside the certified configuration.

## Representation of EAC Certification

Manufacturers may not represent or imply that a voting system is certified unless it has received a Certificate of Conformance for that system. Statements regarding EAC certification in brochures, on Web sites, on displays, and in advertising/sales literature must be made solely in reference to specific systems. Any action by a Manufacturer to suggest EAC endorsement of its product or organization is strictly prohibited and may result in a Manufacturer's suspension or other action pursuant to Federal civil and criminal law.

## System Overview:

ES&S EVS 5.2.1.0 is comprised of the ExpressVote, AutoMARK Voter Assist Terminal (AutoMARK A100, A200 & A300), DS200 Precinct Digital Scanner (DS200), DS850 high-speed Central Count Digital Scanner, ElectionWare, Election Reporting Manager (ERM), ES&S Event Log Service, Removable Media Service (RMS), ExpressVote Previewer and VAT Previewer.

 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.

- 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.
- 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 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.
- 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<sup>™</sup> Voter Assist Terminal (VAT), 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.
- 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.
- The ExpressVote Previewer is an application within the EMS program that allows the user to preview audio text and screen layout prior to burning Election Day media for the ExpressVote.
- The VAT Previewer is an application within the EMS program that allows the user to preview audio text and screen layout prior to burning Election Day media for the AutoMARK<sup>™</sup>.
- 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.
- 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.

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

Electionware

- RSACRYPTO update
- Write-in Snippet report flag
- State of Maryland specific export
- Support for Bengali
- Straight Party handling for U.S Virgin Islands

#### ERM

• General bug fixes

#### DS200

- Write-in Snippet report flag
- Support for Bengali
- Straight Party handling for U.S Virgin Islands

#### DS850

• Straight Party handling for U.S Virgin Islands

#### ExpressVote

- Support for Bengali
- Security checks for fonts
- General bug fixes

Hardware

- ExpressVote Rolling Kiosk
- Delkin CF card reader

## Mark definition:

ES&S' declared level mark recognition for the DS200 and DS850 is a mark across the oval that is 0.2" long x 0.03" wide at any direction.

## **Tested Marking Devices:**

Bic Grip Roller Pen

## Language capability:

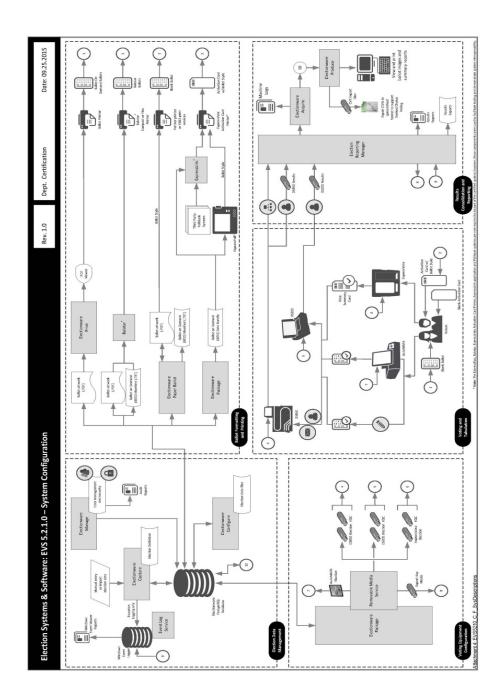
EVS 5.2.1.0 supports English, Spanish, Chinese, Korean, Japanese and Bengali.

## **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	1.4.1.0	1.0		Accessible Voting Station
ExpressVote		1.0		Rolling Kiosk
DS200	2.12.1.0	1.2.1, 1.2.3, 1.3		Precinct Digital
				Scanner
AutoMARK A100	1.8.6.0	1.0		ADA Ballot Marking Device
AutoMARK A200	1.8.6.0	1.1		ADA Ballot Marking Device
AutoMARK A300	1.8.6.0	1.3		ADA Ballot Marking Device
DS850	2.10.1.0	1.0		Central Count Scanner, high-speed
Ballot Box Hardware		1.2, 1.3		Plastic ballot box
Ballot Box Hardware		1.0, 1.1, 1.2		Metal ballot box with/without diverter
Election Ware	4.7.1.0			
Election Reporting Manager (ERM)	8.12.1.0			
ES&S Event Log Service	1.5.5.0			
VAT Previewer	1.8.6.0			
Removable Media Service	1.4.5.0			
EMS Reporting Workstation		Dell Optiplex 980		
EMS Server		Dell PowerEdge T710		
EMS reporting Laptop		Dell Latitude E6410		
Ballot on Demand Printer		C9650		
DS850 Report Printer		OKI B430dn & Oki B431dn		Laser report printer
DS850 Audit Printer		Oki Microline 420		Dot Matrix Printer
Headphones		Avid 86002		
USB Flash Drive		Delkin 512MB		
USB Flash Drive		Delkin 4GB		
USB Flash Drive		Delkin 8 GB		
USB Flash Drive		Delkin 1 GB		

System Component	Software or Firmware Version	Hardware Version	Operating System or COTS	Comments
USB Flash Drive		Delkin 2 GB		
Compact Flash		Delkin Devices		
		1.0 GB capacity		
Motorola QR code		DS9208	COTS	
scanner				
Zebra QR code		DS457-SR20009	COTS	
scanner				
Adobe Acrobat	11		COTS	
Standard				
Cerberus FTP	6.0.7.1		COTS	
Microsoft Server	R2 w/ SP1		COTS	
2008				
Microsoft	5.1 w/ SP1		COTS	
Windows 7	-			
Microsoft Visual	9.0.30729		COTS	
C++ 2008				
Redistributable –				
x64				
Microsoft Visual	10.0.40219		COTS	
C++ 2010				
Redistributable –				
x64				
Microsoft Visual	10.0.40219		COTS	
C++ 2010				
Redistributable –				
x86				
Microsoft .net	4.5.1		COTS	
Framework				
Micro Focus	12.06		COTS	
RM/COBOL				
Runtime				
Symantec Endpoint	12.1.4		COTS	
Protection				
SanDisk CF Card		018-6305		
Reader				
Delkin CF card		6381		
reader				



## 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 (65,500 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>&</sup>lt;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>&</sup>lt;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 (counter limit – statistics x 2)/number of counters/contest = number of contests.

<sup>&</sup>lt;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."

System Characteristic	Boundary or Limitation		Limiting Component
Supported Languages	<ul><li>English</li><li>Spanish</li><li>Chinese</li></ul>	<ul><li>Korean</li><li>Japanese</li><li>Bengali</li></ul>	System Configuration

## **Component Limitations:**

#### Paper Ballot Limitations

- 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.

#### 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.

#### **AUTOMARK Voter Assist Terminal**

 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

 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.

#### ExpressVote

 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.

#### Election Reporting Manager (ERM)

1. Election Reporting Manager requires a minimum monitor screen resolution of 800x600.

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

- 2. ERM Database Create allows 1600 Precincts per Ballot Style.
- 3. There is a limit of 3510 precincts in the precincts counted/not counted display.
- 4. There is a limit of 3000 precincts in the precincts counted/not counted scrolling display.
- 5. Contest/Precinct selection pop up display limited to 3000 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

Feature/Characteristic	Yes/No	Comment
Voter Verified Paper Audit Trails		
VVPAT	No	
Accessibility		
Forward Approach	Yes	
Parallel (Side) Approach	Yes	
Closed Primary		
Primary: Closed	Yes	
Open Primary		
Primary: Open Standard (provide definition of how supported)	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	Yes	
write-in voting		
Partisan & Non-Partisan "vote for 1" race with no declared candidates and	Yes	
write-in voting		
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	No	
for each presidential party		
Slate & Group Voting: one selection votes the slate.	No	
Ballot Rotation:		
Rotation of Names within an Office; define all supported rotation methods	Yes	
for location on the ballot and vote tabulation/reporting		
Straight Party Voting:		
Straight Party: A single selection for partisan races in a general election	Yes	
Straight Party: Vote for each candidate individually	Yes	

Feature/Characteristic	Yes/No	Comment
Straight Party: Modify straight party selections with crossover votes	Yes	
Straight Party: A race without a candidate for one party	Yes	
Straight Party: N of M race (where "N">1)	Yes	
Straight Party: Excludes a partisan contest from the straight party selection	Yes	
Cross-Party Endorsement:		
Cross party endorsements, multiple parties endorse one candidate.	Yes	
Split Precincts:		
Split Precincts: Multiple ballot styles	Yes	
Split Precincts: P & M system support splits with correct contests and	Yes	
ballot identification of each split		
Split Precincts: DRE matches voter to all applicable races.	No	
Split Precincts: Reporting of voter counts (# of voters) to the precinct split	Yes	It is possible to list the
level; Reporting of vote totals is to the precinct level		number of voters.
Vote N of M:	Yes	
Vote for N of M: Counts each selected candidate, if the maximum is not	No	
exceeded.		
Vote for N of M: Invalidates all candidates in an overvote (paper)	No	
Recall Issues, with options:		
Recall Issues with Options: Simple Yes/No with separate race/election.	Yes	
(Vote Yes or No Question)		
Recall Issues with Options: Retain is the first option, Replacement	Yes	
candidate for the second or more options (Vote 1 of M)		
Recall Issues with Options: Two contests with access to a second contest	No	
conditional upon a specific vote in contest one. (Must vote Yes to vote in		
2 contest.)		
Recall Issues with Options: Two contests with access to a second contest	No	Overturned - US District
conditional upon any vote in contest one. (Must vote Yes to vote in 2		Court 7/29/03: CA
contest.)		Election Code sect.
		11383
Cumulative Voting		
Cumulative Voting: Voters are permitted to cast, as many votes as there	No	
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.		
Ranked Order Voting		
Ranked Order Voting: Voters can write in a ranked vote.	No	
Ranked Order Voting: A ballot stops being counting when all ranked	No	
choices have been eliminated		
Ranked Order Voting: A ballot with a skipped rank counts the vote for the	No	
next rank.		

Ranked Order Voting: Voters rank candidates in a contest in order of choice. A candidate receives a majority of 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.         Yes           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           Overvotes (must support for specific type of voting system)         Overvotes: P & M: Overvote invalidates the vote. Define how overvotes are counted.         Yes           Overvotes: DRE: Prevented from or requires correction of overvoting.         No         Overvotes: DRE: System schart provide a method to data enter absentee votes must account for overvotes.         Yes           Define how overvotes are counted. <th>Feature/Characteristic</th> <th>Yes/No</th> <th>Comment</th>	Feature/Characteristic	Yes/No	Comment
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         is deleted, each ballot cast for the deleted candidate counts for the second       no         place candidate and recounting the ballots continues until one candidate       no         Ranked Order Voting: A ballot with two choices ranked the same, stops       No         Banked Order Voting: The total number of votes for two or more       No         candidates with the least votes is less than the votes of the candidate with the next highest number of votes, the candidate with the least votes are eliminated simultaneously and their votes transferred to the next-ranked       No         Provisional/Challenged Ballots       Yes       Image: Conditional ballot is identified but not is identified and can be subtracted in the central count.       Yes         Provisional/Challenged Ballots: Provisional ballots maintain the secrecy of the ballot.       Yes       Image: Conditional Conditio	Ranked Order Voting: Voters rank candidates in a contest in order of	No	
is deleted, each ballot cast for the deleted candidate counts for the second choice candidate insted 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 Ranked Order Voting: A ballot with two choices ranked the same, stops being counted at the point of two similarly ranked choices. 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. Provisional/Challenged Ballots No continuing candidate. Provisional/Challenged Ballots: A voted provisional ballots is identified but not included in the tabulation, but can be added in the central count. Provisional/Challenged Ballots: A voted provisional ballots is included in the tabulation, but is dentified and can be subtracted in the central count Provisional/Challenged Ballots: Provisional ballots maintain the secrecy of the ballot. Overvotes: (must support for specific type of voting system) Overvotes: DRE: Prevented from or requires correction of overvoting. No Overvotes: DRE system const prevent overvotes, it must count them. Define how overvotes are counted. Overvotes: DRE system sthat provide a method to data enter absentee votes must account or overvotes. Data state apolice: System counts undervotes cast for accounting purposes Bank Ballots: Any blank ballot alert is tested. Vetally Blank Ballots: Any blank ballot alert is tested. No Undervotes: System counts undervotes cast for accounting purposes Bank Ballots: If blank ballot alert is tested. No Delay Blank Ballots: If blank ballot alert is tested. No Metwork – Use of Modems No Wide Area Network – Use of Modems No Cast Area Network – Use of Modems No Cast Area Network – Use of Modems No High State Creypto graphic module No No Cast Area Network – Use of Mire	choice. A candidate receiving a majority of the first choice votes wins. If no		
choice candidate listed on the ballot. The process of eliminating the last place candidate and recounting the ballots continues until one candidatereceives a majority of the voteNoRanked Order Voting: A ballot with two choices ranked the same, stops being counted at the point of two similarly ranked choices.NoRanked 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 candidate with the least votes are eliminated simultaneously and their votes transferred to the next-ranked continuing candidate.NoProvisional or Challenged Ballots: A voted provisional ballots is identified but not included in the tabulation, but can be added in the central count.YesProvisional/Challenged Ballots: A voted provisional ballots is included in the tabulation, but is identified and can be subtracted in the central countYesProvisional/Challenged Ballots: Provisional ballots is included in the ballot.YesOvervotes: Instruction or requires correction of overvoting. Overvotes: IDR: Prevented from or requires correction of overvoting. NoNoOvervotes: DRE: Prevented from or requires correction of overvoting. Undervotes: DRE: prevented from or requires correction of overvoting. Undervotes: System counts undervotes cast for accounting purposes tets must account for overvotes. Undervotes: System counts undervotes cast for accounting purposes tets must account for overvotes. Totally Blank Ballots: Any blank ballot alert is tested. Totally Blank Ballots: Any blank ballot alert is tested. Totally Blank Ballots: In ballots are not immediately processed, there must be a provision to recognize and accept them Tota	candidate receives a majority of first choice votes, the last place candidate		
place candidate and recounting the ballots continues until one candidate       image: candidate and recounting the ballots continues until one candidate         Ranked Order Voting: A ballot with two choices ranked the same, stops       No         Ranked Order Voting: The total number of votes for two or more       No         candidates with the least votes is less than the votes of the candidate with       No         the next highest number of votes, the candidates with the least votes are       image: candidate with         the next highest number of votes, the candidates with the least votes are       image: candidate with         Provisional Challenged Ballots       Yes         Provisional/Challenged Ballots: A voted provisional ballots is included in       Yes         Provisional/Challenged Ballots: A voted provisional ballots is included in       Yes         Provisional/Challenged Ballots: Provisional ballots maintain the secrey of       Yes         the tabulation, but is a be ubtracted in the central count       Provisional/Challenged Ballots: Provisional ballots maintain the secrey of         Torvisorian/Challenged Ballots: Provisional ballots maintain the secrey of       Yes         Covervotes: IP & M: Overvote invalidates the vote. Define how overvotes are       Yes         Overvotes: IDE: Prevented from or requires correction of overvoting.       No         Overvotes: IDE: System that provide a method to data enter absentee       No         votes must acc	is deleted, each ballot cast for the deleted candidate counts for the second		
receives a majority of the vote       Image: I	choice candidate listed on the ballot. The process of eliminating the last		
Ranked Order Voting: A ballot with two choices ranked the same, stops       No         being counted at the point of two similarly ranked choices.       No         Ranked Order Voting: The total number of votes for two or more       No         candidates with the least votes is less than the votes of the candidate with       No         the next highest number of votes, the candidates with the least votes are       No         eliminated simultaneously and their votes transferred to the next-ranked       No         continuing candidate.       Provisional or Challenged Ballots:         Provisional/Challenged Ballots: A voted provisional ballots is indentified but       Yes         the tabulation, but is identified and can be subtracted in the central count.       Yes         Provisional/Challenged Ballots: Provisional ballots maintain the secrecy of       Yes         the tabulation, but is identified and can be subtracted in the central count.       Provisional/Challenged Ballots:         Overvotes: Next support for specific type of voting system)       Overvotes:         Overvotes: DRE: Prevented from or requires correction of overvoting.       No         Overvotes: DRE prevented from or requires correction of overvoting.       No         Overvotes: System does not prevent overvotes, it must count them.       Yes         Define how overvotes are counted.       Yes         Undervotes:       Yes       Sectemation	place candidate and recounting the ballots continues until one candidate		
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	Used as (if applicable):		

Feature/Characteristic	Yes/No	Comment
Precinct counting device	Yes	DS200
Central counting device	Yes	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			Second source for LED on camera circuit	Non-DeMinimis
ECO 911	7/29/15	DS850	board	Optional
500.017				Non – De Minimis
ECO 917	7/29/15	DS850	Second source LG display	Optional
500.010				Non – DeMinimis
ECO 919	7/29/15	ExpressVote	Second source LG display	Optional
500.001			Adding Block of security foam underneath	DeMinimis
ECO 921	10/27/15	DS200 Plastic Ballot Box	the slot of the emergency bin	Optional
500 4744			Add additional labels, Velcro patch for	DeMinimis
ECO 1741	7/29/15	ExpressVote	keypad	Optional
FCO 1990			Additional second source and end of life	Non-DeMinimis
ECO 1880	8/5/15	DS200	replacement	Optional
500 2010			Remove English from text on ExpresVote	DeMinimis
ECO 2018	10/9/15	ExpressVote	instruction label	Optional