

#### United States Election Assistance Commission

## Certificate of Conformance



**ES&S EVS 5.4.0.0** 

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: EVS

Model or Version: 5.4.0.0

Name of VSTL: NTS Huntsville

EAC Certification Number: ESSEVS5400

Date Issued: February 24, 2017

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Executive Director
U.S. Election Assistance Commission

Scope of Certification Attached

**Manufacturer:** *Election Systems & Software* 

**System Name:** *EVS 5.4.0.0* **Certificate:** *ESSEVS5400* 

Laboratory: NTS Huntsville
Standard: VVSG 1.0(2005)
Date: February 24, 2017



# 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 5.4.0.0 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 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.
- 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.

Modifications to the voting system include changes to address conformance with new RFIs released before application submission, functional upgrades, software fixes, software to enhance usability, and replacement of hardware parts nearing end-of-life. This modification includes a new hardware component with two operating modes: the ExpressVote 2.0 Tabulator and the ExpressVote 2.0 Marker. Additional testing on the ExpressVote was requested by the EAC to prove the ability to reliably manufacture these units. ExpressVote 2.0 was replaced by ExpressVote 2.1 to eliminate the EMC concerns and be reproduced/manufactured in a consistent and reliable manner.

#### Mark definition:

ES&S' declared level mark recognition for the DS200 and DS850 is a mark across the oval that is 0.02" long x 0.03" wide at any direction.

#### **Tested Marking Devices:**

Bic Grip Roller Pen

## Language capability:

EVS 5.4.0.0 supports English, Spanish, Chinese, Korean Japanese, and Hindi.

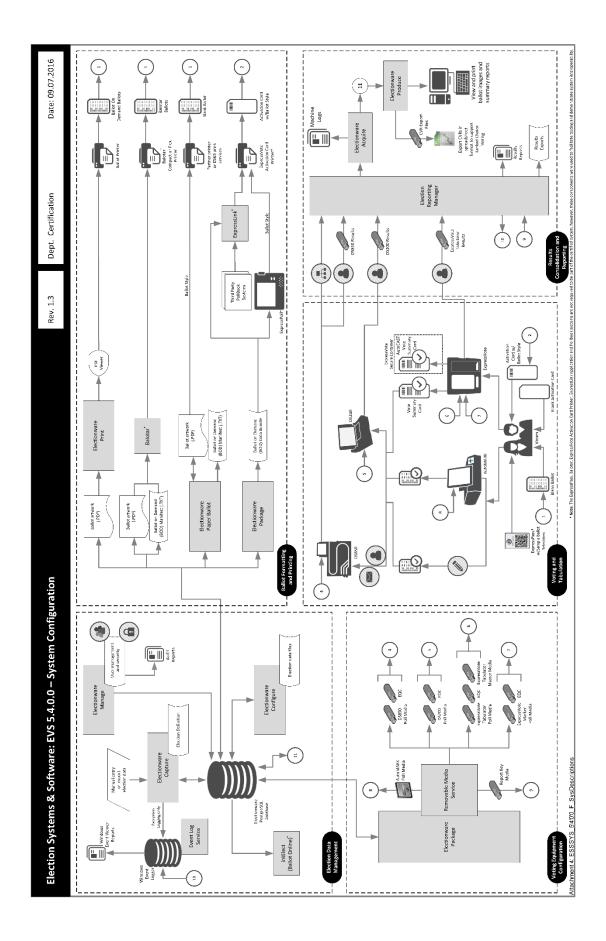
## Components Included:

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	2.1.0.0	2.1		Universal Voting
(Marker)				System
ExpressVote	2.1.0.0	2.1		Universal Voting
(Tabulator)				System
DS200	2.14.0.0	1.2.1, 1.2.3, 1.3		Precinct Digital
				Scanner
AutoMARK A100	1.8.7.0	1.0		ADA Ballot Marking
				Device
AutoMARK A200	1.8.7.0	1.1		ADA Ballot Marking
(SBC 2.0 & 2.5)				Device
AutoMARK A300	1.8.7.0	1.3		ADA Ballot Marking
(SBC 2.0 & 2.5)				Device
DS850	2.11.0.0	1.0		Central Count
				Scanner, high-speed
Ballot Box		1.2, 1.3		Plastic ballot box
Hardware				
Ballot Box		1.0, 1.1, 1.2		Metal ballot box

System Component	Software or Firmware	Hardware Version	Operating System	Comments
	Version		or COTS	
Hardware				with/without diverter
EMS Reporting Workstation		Dell Optiplex 980		
EMS Server		Dell PowerEdge		
		T710		
EMS reporting		Dell Latitude		
Laptop		E6410		
Ballot on Demand		C9650		
Printer				
DS850 Report		OKI B430dn &		Laser report printer
Printer		Oki B431dn		
DS850 Audit		Oki Microline 420		Dot Matrix Printer
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		
USB Flash Drive		Delkin 2 GB		
USB Flash Drive		Delkin 16 GB		
Compact Flash		Delkin Devices		
		1.0 GB capacity		
Barcode Scanner		DS457-SR20009		Zebra
Electionware	4.8.0.0			
Election Reporting	8.13.0.0			
Manager (ERM)				
Event Log Service	1.5.6.0			
Removable Media	1.4.6.0			
Service (RMS)				
ExpressVote	2.1.0.0			
Previewer				
VAT Preview	1.8.7.0			
Adobe Acrobat	11			
Standard				
Cerberus FTP	8.0.6 (x64)			
Microsoft Server	R2 w/SP1			
2008				
Microsoft	64-bit/SP1			
Windows 7				
WSUS Microsoft	10.7.4			
Windows Offline				
Update Utility		1		
Micro Focus	12.06			
RM/COBOL				
Runtime				
Symantec Endpoint	12.1.6			
Protection				
Symantec Endpoint	20160829-002-v5i64			

System Component	Software or Firmware Version	Hardware Version	Operating System or COTS	Comments
Protection Intelligent Updater				



## **System Limitations**

This table depicts the limits the system has been tested and certified to meet.

System Characteristic	Boundary or Limit		Limiting Component
Max. precincts allowed in an election	9900		ERM
Max. count for any precinct element	500,000 (99,990 from an	y tabulator media)	ERM report (ERM results import)
Max. candidates allowed per election	Depends on election commaximum counters) <sup>1</sup>	tent (limited by 21,000	ERM
Max. contests allowed in an election	Depends on election continuation maximum counters) <sup>2</sup>	tent (limited by 21,000	ERM
Max. counters allowed per precinct	Limits candidates and conte to 1,000 <sup>3</sup>	ests assigned to a precinct	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. Votable paper ballots must contain the same number of 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
Supported Languages	<ul><li>English</li><li>Spanish</li><li>Chinese</li></ul>	<ul><li>Korean</li><li>Japanese</li><li>Hindi</li></ul>	System Configuration

<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.

Blank."

<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>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

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

## **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 1-16,300), Type (available codes 1-30) or Split (available codes 1-18).
- 2. For paper ballots, if Sequence is used as a ballot style ID, it must be unique election-wide and the Split code will always be 1. In this case the practical style limit would be 16,300.

#### **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 the 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.

#### **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.
- 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	

Feature/Characteristic	Yes/No	Comment	
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		
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.	
30333.,		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.  Ranked Order Voting; A ballot stops being counting when all ranked choices have been elliminated  Ranked Order Voting; A ballot with a skipped rank counts the vote for the next rank.  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  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 Ordallenged 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 tentral count.  Provisional/Challenged Ballots: Provisional ballots maintain the secrecy of the ballot.  Overvotes (must support for specific type of voting system)  Overvotes (must support for specific type of voting system)  Overvotes: P & M: Overvote invalidates the vote. Define how overvotes are counted.  Overvotes: DRE: Prevented from or requires correction of overvoting.  No  Overvotes: DRE: Prevented from or requires correction of overvoting.  Overvotes: DRE system does not prevent overvotes, it must count them.  Define how overvotes are counted.  Overvotes: DRE system does not prevent overvotes, it must count them.  Overvotes: DRE sys	Feature/Characteristic	Yes/No	Comment
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votes must account for overvotes.       Undervotes         Undervotes: System counts undervotes cast for accounting purposes       Yes         Blank Ballots       Totally Blank Ballots: Any blank ballot alert is tested.       Yes	Define how overvotes are counted.		
Undervotes Undervotes: System counts undervotes cast for accounting purposes Blank Ballots Totally Blank Ballots: Any blank ballot alert is tested. Yes	Overvotes: DRE systems that provide a method to data enter absentee	No	
Undervotes: System counts undervotes cast for accounting purposes  Blank Ballots  Totally Blank Ballots: Any blank ballot alert is tested.  Yes	votes must account for overvotes.		
Blank Ballots Totally Blank Ballots: Any blank ballot alert is tested. Yes	Undervotes		
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	Blank Ballots		
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rotany diank danots. Il diank danots are not infinediately processed, there   Yes	Totally Blank Ballots: If blank ballots are not immediately processed, there	Yes	
must be a provision to recognize and accept them	must be a provision to recognize and accept them		
Totally Blank Ballots: If operators can access a blank ballot, there must be a Yes	Totally Blank Ballots: If operators can access a blank ballot, there must be a	Yes	
provision for resolution.	provision for resolution.		
Networking	Networking		
Wide Area Network – Use of Modems No	Wide Area Network – Use of Modems	No	
Wide Area Network – Use of Wireless No	Wide Area Network – Use of Wireless	No	

Feature/Characteristic	Yes/No	Comment
Local Area Network – Use of TCP/IP	No	
Local Area Network – Use of Infrared	No	
Local Area Network – Use of Wireless	No	
FIPS 140-2 validated cryptographic module	No	
Used as (if applicable):		
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
				Non-
			Second source for LED on camera	DeMinimis
ECO 911	7/29/15	DS850	circuit board	Optional
				Non –
				DeMinimis
ECO 917	7/29/15	DS850	Second source LG display	Optional
			Adding Block of security foam	
ECO			underneath the slot of the emergency	
921	10/27/15	DS200 Plastic Ballot Box	bin	DeMinimis -
				Optional
				Non –
ECO		DS2	Additional second source and end of	DeMinimis
1880	8/5/15	00	life replacement	Optional
			Disabling the ability to disconnect and	De Minimis
ECO 933	2/10/16	PreInstall Patch 1.0.0.5	create a mapped drive	Optional
				De Minimis
ECO 927	2/12/16	AutoMARK	Add Backup Battery (End of Life)	Optional
				De Minimis
ECO 930	4/7/16	DS200 Carry Case	Kit for gas trust in DS200 Carry Case	Optional
				De Minimis
ECO 1816	4/7/16	Steel Ballot Box	Universal rails for the steel ballot box	Optional
				De Minimis
ECO 2106	4/12/16	DS200 Ballot Box	New Ballot Box Wheels	Optional
				De Minimis
ECO 2113	4/20/16	DS200	CIS Cable Connector	Optional
		Intel Gigabit CT Desktop	Prevent onboard NIC card for not	De Minimis
ECO 946	8/23/16	Adapter	acknowledging incoming packets	Optional
			Prevent onboard NIC card for not	De Minimis
ECO 947	8/23/16	Linksys USB Ethernet Adapter	acknowledging incoming packets	Optional
			Add second screw set to reverse belt	De Minimis
ECO 950	1/4/17	DS850	pulley	Optional