

September 9, 2019

Ms. Karen Brinson Bell
 Executive Director
 North Carolina State Board of Elections
 430 North Salisbury Street
 Raleigh, NC 27603

RE: Request for State Certification of Election Systems & Software’s EVS 5.2.4.0 Voting System

Dear Ms. Brinson Bell:

Election Systems & Software (ES&S) is pleased to present this formal request for the North Carolina State Board of Elections to administratively approve our Election Assistance Commission (EAC) Certified *EVS 5.2.4.0 Voting System*. EVS 5.2.4.0 was tested for conformance to the *2005 Voluntary Voting System Guidelines (VVSG)* at Pro V&V in Huntsville, AL and further received EAC Certification on June 5, 2018.

In pursuant of 8 NCAC 4.0302(b), the Executive Director of the State Board of Elections may approve enhancements of previously certified voting systems if the enhancement does not substantially alter the voting system as certified by the State Board of Elections. The EVS 5.2.4.0 release is a modification to the ExpressVote, Electionware, ExpressVote Previewer, and COTS (ie: antivirus and Microsoft operating system patches) when compared to the EVS 5.2.2.0 release. There were no firmware enhancements made to the DS200, DS450, and DS850 tabulators in the EVS 5.2.4.0 release. Below is a version comparison between EVS 5.2.2.0 and EVS 5.2.4.0.

<p style="text-align: center;">North Carolina State Certification of EVS 5.2.4.0 <small>EAC Certified: June 5, 2018</small> <small>VVSG Compliance: VVSG v. 1.0</small></p>			
		EVS 5.2.2.0	EVS 5.2.4.0
Election Management System (EMS)	ElectionWare	4.7.1.1	4.7.1.4
	Event Log Service	1.5.5.0	1.5.5.0
	Removable Media Service	1.4.5.0	1.4.5.0
	Election Reporting Manager (ERM)	8.12.1.1	8.12.1.1
	VAT Previewer	1.8.6.1	1.8.6.1
	ExpressVote Previewer	1.4.1.2	2.4.2.0
ES&S Tabulators	DS200 Precinct Tabulator (HW 1.2, 1.3)	2.12.2.0	2.12.2.0
	DS850 Central Tabulator (HW 1.0)	2.10.2.0	2.10.2.0
	DS450 Central Tabulator (HW 1.0)	3.0.0.0	3.0.0.0
Voter Assist Terminal	AutoMARK (HW 1.0, 1.1, & 1.3)	1.8.6.1	1.8.6.1
Universal Voting System	ExpressVote	1.4.1.2 (HW 1.0)	2.4.2.0 (HW 2.1)

Summarized below are the minor modifications that are in the EVS 5.2.4.0 release. This request is for administrative approval of the EVS 5.2.4.0 release since the enhancements listed below do not substantially alter the voting system originally certified by the State Board of Elections.

➤ **ExpressVote Universal Voting Device Enhancement**

- **Hardware:** EVS 5.2.4.0 has a handful of internal hardware component updates, referred to as *HW 2.1* or *Hardware Revision 2.1* in this letter. Specifically, the differences between the ExpressVote HW 1.0 and the ExpressVote HW 2.1 is we improved the manufacturing processes of the ExpressVote HW 1.0 internal boards (the Input/Output Board) in order to improve overall manufacturability of the boards used in the production of the ExpressVote. In addition to the improved processes, we addressed end-of-life components (ie: the display) that will allow the manufacturing of ExpressVote units for several years. The exterior of the ExpressVote is the same between the HW 1.0 and HW 2.1 hardware revisions and there is no difference between the operation, maintenance, or voter experience of the two hardware revisions.
- **Firmware:** A couple of minor enhancements to first correct the ability to write-in a candidate while using a two-position switch in a multi-language election and secondly allow a very long candidate text (255 characters) display the entire text instead of being truncated.

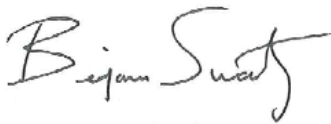
➤ **Election Management System Enhancements**

- The “commercial off the shelf” (COTS) components such as the Symantec anti-virus, Cerberus, and the Microsoft Operating System offline updates have been updated to the latest versions.

Included with this letter are product brochures as well as a CD-Rom containing the technical data package (TDP). ES&S requests the North Carolina State Board of Elections review our request for administrative approval at their earliest convenience and provide a written approval of the EVS 5.2.4.0 release presented in this letter and the Engineering Change Orders (ECOs) presented in a subsequent letter.

If there are any questions, requests for additional information regarding products/functionality, or to simply discuss the *EVS 5.2.4.0 Voting System* in greater detail, please do not hesitate to contact me at 402-970-1143 or brswartz@essvote.com.

Sincerely,



Benjamin Swartz
NC State Certification Manager
Election Systems & Software, LLC

cc: Mr. Steve Pearson (ES&S)
Mr. Mac Beeson (ES&S)
Mr. Owen Andrews (PrintElect)

encl: *CD-ROM (Technical Data Package)*