Voting System Examination
Election Systems & Software (ES&S)

Prepared for the
Secretary of State of Texas

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Designee of the Attorney General

This report conveys the opinions of the Attorney General's designee from an examination of the equipment listed, pursuant to Title 9, Chapter 122 of the Texas Election Code, section 122.036(b).

Examination Date   April 18-20, 2017
Report Date   May 18, 2017

Examination of ES&S Voting System (EVS) 5.2.2.0

EAC Certification Number: ESSEVS5220

Components Examined	Version
AutoMARK Voter Assist Terminal	1.8.6.1
DS200 Precinct Ballot Counter	2.12.2.0
DS450 Central Scanner and Tabulator	3.0.0.0
DS850 Central Scanner and Tabulator	2.10.2.0
Election Reporting Manger (ERM)	8.12.1.1
Electionware	4.7.1.1
Event Log Service	1.5.5.0
ExpressLink	1.3.0.0
ExpressVote	1.4.1.2
ExpressVote Activation Card Printer	
ExpressVote Previewer	1.4.1.2
PaperBallot	4.6.1.0
Removable Media Service	1.4.5.0
Toolbox	3.1.0.0
VAT Previewer	1.8.6.1

Overview

EVS is a comprehensive election system that supports almost all modern voting methods.

Election setup is done using Electionware and then transported to the various Election-Day devices on encrypted USB memory sticks.

On Election Day, voters can mark paper ballots manually, or use ExpressVote or AutoMARK. ExpressVote is a touch-screen voting station that can be used either as a direct recoding electronic (DRE) device that records voters' choices on electronic media, or for printing their choices on a paper *Voter Summary Card* for separate tabulation. The Voter Summary Card contains a complete record of the voter's choices in both human-readable form (so the voter can verify it) and machine-readable form (for tabulation), so it serves the same function as a paper ballot. The older AutoMARK voting stations can also be used to record votes on paper ballots only.

At the polls, election workers first identify a voter's precinct and split, and then use ExpressLink to print an activation card for ExpressVote, walk to the ExpressVote and select the precinct and split. For manual voting or voting on an AutoMARK, the voter is given a paper ballot. The AutoMARK recognizes the ballot and shows the voter the appropriate choices.

The paper ballots can be scanned in the precinct using the DS200, or in a central-count location using the DS450 or DS850. The results of DRE voting and the ballots scanned in the precinct are written on USB memory which is then carried to the central-count location for final tabulation.

Examination Procedures

This was part of a three-day examination in which three separate ES&S systems were examined. On the first day of the exam, Stephen Berger, Christina Adkins and I observed as the vendor installed the firmware and software using files obtained directly from the NTS by the Secretary of State, thus providing chain of custody. Then we verified version numbers, asked technical questions, and discussed the technical aspects of the system.

On the second and third days all the examiners were present. We heard a presentation about the system, observed the procedures for transporting the election definition to the various devices and for opening the polls, voted on the different voting stations, tabulated using each scanner, transported election results to the central-count system, and verified that the results were tabulated properly.

Summary

The EVS 5.2.2.0 is a good election system that I believe will serve Texas voters well. I recommend certification.