ES&S Unity 3.4.1.4

The Election Systems and Software (ES&S) release of the Unity 3.4.1.4 election system was examined in Austin on 4/19/17. The release is an upgrade to the Federal Elections Assistance Commission (EAC) and the Texas certified 3.4.1.0 system. The main reason for this release is to provide a bridge between the older 3.0.x.x systems, which do not support the DS850 high-speed paper ballot optical scanner, and the new system which does.

The bridge allows the 3.4.1.4 system to generate an election setup which supports both the DS850 and the iVotronic DRE's used on the 3.0.x.x systems. The 3.4.1.4 Hardware Programming Manager (HPM) is able to burn the media for use on the older systems which have iVotronic DRE's.

It also allows election results, such as the results from absentee ballots scanned on the 3.4.1.4 system's DS850 to be exported and then imported into a 3.0.x.x system. A jurisdiction is then able to have the DS850 results consolidated with the DRE precinct results in the 3.0.x.x Election Reporting Manager.

Because there were no hardware changes and only minor software enhancements since the 3.4.1.0 release, the 3.4.1.4 examination was focused on the bridge functionality.

The following table lists the 3.4.1.4 applications components used during the examination.

Table 1 - Proprietary Hardware/Software Components

Application	Version/Firmware #
AutoMARK	1.3.2907
Audit Manager	7.5.2.0
DS200	1.7.0.0
DS850	2.9.0.0
Election Data Manager	7.8.2.0
Election Reporting Manager (ERM)	7.9.0.1
ESS Image Manager	7.7.2.0
Hardware Programming Manager (HPM)	5.9.0.1
LogMonitor Service	1.1.0.0
Model 100	5.4.4.5
Model 650	2.2.2.0
VAT Previewer	1.3.2907
AutoMARK Information Management System (AIMS)	1.3.257

For a detailed explanation of the hardware components and applications of the 3.4.1.4 system please

ES&S Unity 3.4.1.4

refer to the EAC certification test report ____

ES&S Unity 3.4.1.4

- The DS200 should only be used on election day and in a precinct. There is no real-time audit printer attached so it should not be used for early-voting or as a central-count scanner.

Conclusion

The bridge between the 3.0.x.x and 3.4.1.4 systems provides utility to the jurisdictions still using iVotronic DRE's. It gives them the ability to use a high-speed central scanner. The bridge is not intended to be used indefinitely. I believe the 3.4.1.4 system with the software bridge is suitable for the intended purpose and meets the requirements of the Texas Election Code. I recommend certification.

Tom Watson
Examiner