



## VOTING SYSTEM

## TESTING AND CERTIFICATION

## PROGRAM E-NEWSLETTER

## PROGRAM DIRECTOR'S NOTE

Over the past several months, the Testing and Certification Program has undertaken several new initiatives as we continue making the program more relevant and useful to State and local election officials on numerous levels.

Because State election officials tell us that dealing with Engineering Change Orders (ECOs) to their certified voting systems pose an ongoing challenge, we will initiate a process to allow State election officials secure access to our database of Change Orders later this year. Information available will include a detailed explanation of the change, what voting system or system component is affected by the change, and engineering information provided to the EAC and VSTL necessary to determine the impact of the change on the voting system. More information will be provided by Megan Dillon at the State Certification Meeting in Harrisburg, PA June 20 -21, 2013. Additional information will be sent to all State Election Directors regarding the ECO Database immediately after that meeting.

In order to streamline the EAC Certification Program and to lower both the cost of testing and the time it takes a voting system to complete the testing process, the EAC recently proposed some major programmatic changes during our Round Table discussion on Thursday May 9, 2013. While additional discussions will be forthcoming with election officials, VSTLs, voting system manufacturers and other constituent groups, the EAC has proposed to implement a form of conformity assessment testing for TDP, software and Hardware testing called Manufacturer (or "Supplier") Declaration of Conformity (DoC). Rather than have the VSTLs use precious time and resources (up to 50% of the entire test campaign time) in these areas, the DoC process would allow the manufacturer to attest in writing that the VVSG requirements for these areas have been met through testing done by the manufacturer either internally, or through contracted third party labs (hardware testing). Although more legal research needs to be done, misrepresentations on the DoC could likely fall under the Federal False Claims Act. (31 USC §§3729-3733). In order to introduce some additional procedural protections for the program and for election officials ultimately purchasing systems certified under these revised methods, the EAC would also introduce a requirement that all voting system manufacturers (and specifically, the elections branch or division of any manufacturer) be certified to ISO 9001 standards. ISO 9001 is a global quality management standard requiring organizations to establish, document, maintain and improve a process based quality management system. Finally, time and cost savings related to TDP, source code and hardware testing would allow better and more detailed testing of a systems usability and accessibility, which currently combine to account for only 1.6% of testing time. Security testing could also be augmented by developing real world security testing scenarios, including penetration testing of voting systems, while still saving significant amounts of time and money compared to the current process.

- Brian Hancock

## PROGRAM UPDATES

## GENERAL INFORMATION

## Useful Links

[Voting System Test Laboratory Program Manual](#)  
[Voting System Testing & Certification Manual](#)  
[Voting System Accredited Test Laboratories](#)  
[Frequently Asked Questions \(FAQ\)](#)

[EAC Blog, Twitter and YouTube](#)  
[Quick Start Guides](#)  
[EAC Map](#)

## Subscription Status

Email [rsargent@eac.gov](mailto:rsargent@eac.gov) to change your subscription status.

## TECHNICAL UPDATES

## Requests for Interpretations (RFI)

To view all of the RFIs published by the EAC, please visit the [Request for Interpretation](#) section of the Certification Program Web site.

## New Innovative Solutions are Allowed by the VVSG

The EAC is committed to testing and certifying voting systems incorporating new and innovative solutions emerging in the marketplace. Many of these solutions utilize non-traditional

TECHNICAL UPDATES

voting architecture centered on election specific software, combined with off-the-shelf laptop computers, tablets, and even smart phones. The VVSG extensions clause, coupled with requirements from the FCA, are the vehicles by which these systems can become federally certified and begin to move into the marketplace. The extensions clause allows for additional functionality and/or features not required by the VVSG, including new and innovative solutions. The Functional Configuration Audit requires that these new and innovative solutions (that are described in the system documentation) must perform according to the documentation. Thus, new innovative solutions are allowed by the VVSG, but need to be tested (and certified) as per the FCA.

**NEW** RFI 2013-01 [EAC Decision on the Extensions Clause](#)

**NEW** RFI 2013-02 [EAC Decision on Audio Presentation Volume Levels](#)

**EAC seeks comments on proposed Voting System Test Laboratory (VSTL) Program Manual**

EAC is holding a [60-day public comment period](#) for the Voting System Test Laboratory (VSTL) Program Manual, version 2.0. The purpose of the comment period is to provide an opportunity for the public to offer additional input on proposed changes to the Manual and to meet Paperwork Reduction Act requirements.

[Version 2.0](#) is available on the EAC's [website](#). The comment period began April 16, 2013. Comments must be received on or before 4 p.m. EST on June 17, 2013. For more information about changes made to the Manual or the comment period, please view the [Federal Register notice](#).

**EAC Roundtable: Transforming Election Administration, Voting System Accessibility, and the Certification Process**

The EAC hosted a roundtable discussion on Thursday, May 9, 2013. The roundtable continued the discussion which started at the [Future of Voting Systems Symposium](#) and the [Accessible Voting Technology workshop](#). The first half of the roundtable is dedicated to discussing accessible technologies and innovations. The second half of the roundtable will focus on possible changes to the EAC testing and certification process. The roundtable was moderated by Merle King,

Executive Director, Center for Election Systems (Georgia), Kennesaw State University. View the participant list, agenda and discussion questions, and archived webcast [here](#).

**Voting System Updates**

[Dominion Democracy Suite 4.14](#). Testing continues at Wyle. If you would like to view documents related to this test campaign, please visit our [website](#).

[Election Systems & Software \(ES&S\) EVS 5.0.0.0](#). EAC issued the Initial Decision for Certification on Monday, May 13th. A Final Decision and Certificate will be issued as soon as all final checks and approvals are complete. For documents related to this test campaign, please visit our [website](#).

[Hart InterCivic Verity Voting 1.0](#). At the request of Hart, EAC moved the in person kick off meeting from the week of June 10, 2013 to the week of July 8, 2013. Hart requested the changes due to delays in development and building of the system. Hart continues to work on development and building of the voting system. More information will be available on our website after the manufacturer and VSTL are ready to begin Test Plan development and testing.

**Quality Monitoring Program**

EAC's [Quality Monitoring Program](#) is designed to ensure that voting systems certified by EAC are the same systems sold by manufacturers. The quality monitoring process is a mandatory part of the program and includes elements such as fielded voting system review, anomaly reporting, and manufacturing site visits. The [system advisory alerts](#) include recommended procedures, possible root causes and contact information for those jurisdictions with additional questions.

**Voting System Reports Collection**

As part of EAC's clearinghouse responsibilities under Section 202 of the Help America Vote Act, the commission adopted a policy authorizing staff to post and distribute voting system reports and studies that have been conducted or commissioned by a state or local government.

EAC encourages state and local governments to submit their voting system reports and studies so they may be shared with the broader election community and the public. View the reports and studies [here](#).

VOTING SYSTEM STATUS REPORT: ACTIVE

MANUFACTURER	VOTING SYSTEM NAME VERSION	TESTING STANDARD	VSTL	TESTING APPLICATION	TEST PLANS STATUS CURRENT VERSION	TEST REPORTS STATUS CURRENT VERSION	CERTIFICATION STATUS
Dominion	DemSuite 4.14 (Modification)	2005 VVSG	Wyle	05/18/2012	Approved <a href="#">Rev.A</a> 02/06/2013	n/a	Currently under testing
Hart	Verity 1.0	2005 VVSG	SLI Global	12/17/2012	n/a	n/a	Currently under testing
ES&S	EVS 5.0.0.0	2005 VVSG	Wyle	11/30/2011	Approved <a href="#">Rev.D</a> 10/17/2012	Final <a href="#">Rev.A</a> 05/01/2013	<a href="#">Initial Decision on Certification</a> made on 05/13/2013

VOTING SYSTEMS STATUS REPORT: CERTIFIED

MANUFACTURER	VOTING SYSTEM NAME VERSION	TESTING STANDARD	VSTL	TESTING APPLICATION	TEST PLANS STATUS CURRENT VERSION DATE	TEST REPORTS STATUS CURRENT VERSION DATE	CERTIFICATION STATUS
Dominion (Premier)	Assure 1.3 (Modification)	2002 VSS	SLI Global	11/14/2011	Final <a href="#">Rev. I.6</a> 04/27/2012	Final <a href="#">Rev. I.3</a> 05/18/2012	<b>Certified Voting System</b> <a href="#">Final Decision</a> 06/29/2012 <a href="#">Certification of Conformance</a> <a href="#">Initial Decision on Certification</a> made on 05/25/2012
Dominion	Democracy Suite 4.0	2005 VVSG	Wyle	04/19/2010	Final <a href="#">Rev. D</a> 12/06/2011	Final <a href="#">Rev. A</a> 05/10/2012	<b>Certified Voting System</b> <a href="#">Final Decision</a> 05/10/2012 <a href="#">Certification of Conformance</a> <a href="#">Initial Decision on Certification</a> made on 05/09/2012
ES&S	Unity 3.4.0.0 (Modification)	2002 VSS	Wyle	07/21/2011	Final <a href="#">Rev. C</a> 06/12/2012	Final <a href="#">Rev. B</a> 10/17/2012	<b>Certified Voting System</b> <a href="#">Final Decision</a> 10/31/2012 <a href="#">Certification of Conformance</a> <a href="#">Initial Decision on Certification</a> made on 10/25/2012
ES&S	Unity 3.2.1.0 Previously Unity 3.0.1.0 & Unity 3.0.1.1 v. ATS 1.3	2002 VSS	Wyle	06/12/2007 Revised 08/17/2009	Final <a href="#">Rev. B</a> 02/18/2011	Final <a href="#">Rev. A</a> 03/10/2011	<b>Certified Voting System</b> <a href="#">Final Decision</a> 03/29/2011 <a href="#">Certification of Conformance</a> <a href="#">Initial Decision on Certification</a> made on 03/22/2011
ES&S	Unity 3.2.0.0 Rev. 3 (Modification)	2002 VSS	Wyle	01/20/2012	Final <a href="#">Rev. B</a> 03/27/2012	Final <a href="#">Rev. A</a> 05/08/2012	<b>Certified Voting System</b> <a href="#">Final Decision</a> 05/16/2012 <a href="#">Certification of Conformance</a> <a href="#">Initial Decision on Certification</a> made on 05/10/2012
ES&S/Dominion (Premier)	Assure 1.2	2002 VSS	iBeta	04/05/2007	Final <a href="#">Ver. 2.0</a> (iBeta) 04/06/2009	Final <a href="#">Ver. 3.0</a> 08/06/2009	<b>Certified Voting System</b> <a href="#">Final Decision</a> 08/06/2009 <a href="#">Certification of Conformance</a> <a href="#">Initial Decision on Certification</a> made on 08/03/2009
MicroVote	EMS Ver. 4.0B (Modification)	2005 VVSG	Wyle	06/23/2009	Final <a href="#">Modification</a> 09/08/2009	Final <a href="#">Rev. C</a> 06/21/2010	<b>Certified Voting System</b> <a href="#">Final Decision</a> 08/17/2010 <a href="#">Certification of Conformance</a> <a href="#">Initial Decision on Certification</a> made on 08/12/2010
MicroVote	EMS Ver. 4.0	2005 VVSG	iBeta	07/17/2007	Final <a href="#">Ver. 3.0</a> updated version 4.0 submitted with Test Report V.4.0 12/19/2008	Final <a href="#">Ver. 5.0</a> 03/02/2009	<b>Certified Voting System</b> <a href="#">Final Decision</a> 02/06/2009 <a href="#">Certification of Conformance</a> <a href="#">Initial Decision on Certification</a> made on 12/31/2008
Unisyn	OpenElect 1.1 (Modification)	2005 VVSG	Wyle	07/18/2011	Final <a href="#">Rev. A</a> 11/17/2011	Final <a href="#">Rev. A</a> 03/16/2012	<b>Certified Voting System</b> <a href="#">Final Decision</a> 04/09/2012 <a href="#">Certification of Conformance</a> <a href="#">Initial Decision on Certification</a> made on 04/04/2012
Unisyn	OpenElect 1.0.1 (Modification)	2005 VVSG	Wyle	03/24/2011	Final <a href="#">Rev. A</a> 04/15/2011	Final <a href="#">Rev. A</a> 06/21/2011	<b>Certified Voting System</b> <a href="#">Final Decision</a> 07/21/2011 <a href="#">Certification of Conformance</a> <a href="#">Initial Decision on Certification</a> made on 06/28/2011
Unisyn	OpenElect 1.0	2005 VVSG	Wyle	06/03/2008	Final <a href="#">Rev. B</a> 08/10/2009	Final <a href="#">Rev. B</a> 01/14/2010	<b>Certified Voting System</b> <a href="#">Final Decision</a> 01/12/2010 <a href="#">Certification of Conformance</a> <a href="#">Initial Decision on Certification</a> made on 01/12/2010