



United States
Election Assistance Commission

VVSG 1.1 Coverage

Technical Guidelines Development Committee (TGDC)

NIST

September 15, 2016

Gaithersburg, MD

Background on VVSG

- 2005 VVSG (1.0)
- “The next iteration” or 2007 VVSG
- The revision to the 2005 VVSG (1.1)
- The next generation of the VVSG (2.0)

2005 VVSG (1.0)

- 2005 VVSG was adopted by the EAC in December of 2005 as required by the Help America Vote Act (HAVA)
- Refer to it as 1.0.
- December 2007 - voting systems could no longer be approved for testing to the 2002 VSS and the 2005 VVSG (1.0) was fully implemented.

2007 VVSG – “Next Iteration”

- Intended to be the next iteration of the VVSG after 1.0
- Draft created by the EAC’s Technical Guidelines Development Committee (TGDC) in August of 2007

VVSG 1.1

- Revisions to the 2005 VVSG
- The purpose of revision?
 - Clarify the guidelines to make them more testable;
 - Enable NIST to create test assertions;
 - Update portions of VVSG without dramatically altering the guidelines.

VVSG 1.1

- Standard broken down into sections w/ requirements for:
 - functionality,
 - usability,
 - accessibility,
 - privacy,
 - HW,
 - SW,
 - telecommunications,
 - security,
 - QA,
 - and CM.

Revising 2005 VVSG

- Human factors requirements;
- Security (VVPAT, Electronic records, Cryptography, System security specifications and external interface);
- Core requirements (S/W workmanship, reliability, accuracy, and humidity);
- Incorporate RFIs issued on the 2005 VVSG during test campaigns;
- and two public comment periods with a combined review period of 250 days.

Changes Prior to Second Comment Period

- Telecommunications
- Remove references to NSRL
- Software Validation
- Access Control
- Quality Assurance and Configuration Management
- Coding Conventions
- Required Languages
- Audit and Election Logging
- All relevant RFIs

Changes from Second Public Comment Period

- Definitions added to glossary;
- Reliability validation added to Appendix C in Volume II;
- Updated references and links throughout the document;
- Clarifications of specific HW, SW, Accessibility and Security requirements;
- Numbering scheme corrected;
- Clean up grammatical errors;
- Formatting cleaned up

Implementation Plan

- After Commissioner approval in March 2015, VVSG 1.1 was immediately available for testing and certifying voting systems.
- January 6, 2016 Commissioners voted to sunset VVSG 1.0 in 18 months (July 6, 2017) and transition to VVSG 1.1.
- **Modifications** to systems certified to the 2005 VVSG can still be submitted for testing and certification to the 2005 VVSG **after** the transition to VVSG 1.1.

Moving forward

- Focus on function, rather than defining specific types of technology.
 - Flexibility
 - Innovation
- Higher level requirements, except in areas where detail is necessary. More detailed/specific reqs probably necessary in these areas:
 - Accessibility
 - Usability
 - Security
 - Accuracy



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