VVSG 2007 Outline: Overview & Timeline

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Topics

- VVSG 2007 major changes
- New requirements format
- VVSG 2007 major organization
- Timeline

Major Changes

- Completely restructured
- More usable design
- Expanded requirements for human factors, security, core areas
- Requirements will reference their corresponding test methods or test cases

New requirements format

- Numbered requirement text
 - TR: test reference to corresponding general test method/test case
 - P: any election official procedures necessary to accomplish requirement
 - D: **discussion** to clarify requirement
 - J: TGDC/NIST-only justification/impact of requirement

VVSG 2007 Major Organization

- 1. Overview
- 2. Terminology Standard
- 3. Product Standard
- 4. Standards on Data to be Provided Requirements
- 5. Testing Standard
- Requirements in 3 and 4 reference general test methods/test cases found in 5

Terminology Standard

- The basis for discussion in other major sections
- Provides common vocabulary for all terms and definitions
- Based on current voting systems glossary
- NIST will collect current usage election-related terminology and combine with common language guidelines

Product Standard

- Requirements for voting systems
 - Security
 - Human factors
 - Various core requirements
- Contains large sections with general requirements
- Contains requirements organized by voting system activity, e.g., pre-election, casting, counting, and organized by voting system profiles

Product Standard -- continued

- 1. Conformance clause
- 2. General requirements
 - Security
 - Human factors
 - Workmanship
 - Archival
 - Open standards
- 3. Requirements by voting activity
 - Preparing for election
 - Casting
 - Counting and reporting
 - IDV
- 4. Reference models
 - Process, logic, role model

Standards on Data to be Provided

Affects vendors and VSTLs:

- 1. Technical data package vendor
- 2. Voting equipment user documentation vendor
- 3. Test report for EAC certification VSTL
- 4. Public information package VSTL
- 5. Information to be provided to NSRL VSTL

Testing Standard

- To assist VSTLs in using consistent testing techniques
- Contains high level general test methods and test cases, referenced by requirements as appropriate
- Not currently in timeline of VVSG modules

VVSG 2007

- The "final" deliverable of voting systems guidelines due July, 2007
- A completely rewritten and reformatted guideline
- Will incorporate modules delivered to EAC prior to 7/07

Modules

- Some work items will be finished before 7/2007
- EAC asked if we could deliver these early
 - Usability performance specifications
 - IDV, especially witness
 - Others?
- Is that OK?

General Workplan

- TGDC working groups develop chapters
- Send to TGDC as a whole for comment
- TGDC provides formal guidance at meetings, but will have already had a chance to comment
- This will allow for faster development

General Workplan

- Original research, e.g.,
 - Usability Performance Benchmarks
 - IDV
- Analysis
 - Apply security knowledge to voting
 - Apply accessibility and usability knowledge to IDV
- Review and outreach

Specific Workplan

Draft Product Standard by October 2006

- Security: draft 3 chapters/quarter starting in 2006; IDV VVPAT by April 2006, IDV witness by Oct 2006
- HFP: draft performance spec by April, 2006; draft all by Jan 2007
- CRT: draft Performance Jan 2006; Workmanship, Counting, & Casting April 2006; full draft by Oct 2006

Specific Workplan

Draft full VVSG except Testing by January 2007

- Overview
- Reference Models
- Date to be Provided

Specific Workplan

Deliver full VVSG except Testing by July 2007

- Incorporate comments
- Format final document by June 2007

Testing Workplan

Testing Standard will not be included in July 2007 deliverable