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
Technical Guidelines Development Committee
September 29, 2005 Plenary Meeting

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

- 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