



From the Vendor Trace document or declaration, identify all documents that pertain to the **System Overview**. Each submitted (Vol. 1, Sect. 1.1) Technical Data Package document (Vol.2 Sect. 6.6) is reviewed (Vol. 1, Sect. 1.6.2.2).

Note about revisions: The first time a review form is completed, the form revision number is 01. As the review process continues, newer versions of vendor documents, or additional documents, will be submitted to close discrepancies. Each time new versions of documents are examined, the review form is saved with a new revision number. Save the form with the new revision (Save As) before you update the document names, versions and/or file names. Enter your name and date on the new revision.

Applicable TDP Documents table: List each applicable TDP document. Put the Title from inside the document in the first column, along with the version and date. Under "File name," copy the full document file name.

Trace Table: Verify whether the vendor correctly documented each applicable VVSG requirement listed in this template. Use the following notations to indicate results:

- **Traced** column: For each positive finding, enter the document number(s) corresponding to the **Applicable TDP Documents** Table below, with the section number(s) in each applicable document where the requirement is fulfilled. (Example: Doc. 2, Sec. 1.2)
- **Comments** column:
 - "Y" indicates that the document(s) fulfill the requirement.
 - "N" indicates that the document(s) do not fulfill the requirement.
 - "P" indicates that the document(s) partially fulfill the requirement
 - "NT" (not tested) indicates documents that are part of the system configuration but outside the scope of this certification review effort (only if not a full cert).
 - "NS" (not supported) indicates requirements that apply to features that are not supported in the configuration being tested (such as paper ballots).
 - Explain "P", "N", "NT" or "NS" findings here.
 - In addition, use the Comments column to enter any comments that would be helpful throughout the project.
 - **Discrepancies:**
 - List discrepancies in red.
 - A Documentation discrepancy is written when a VVSG requirement is not fulfilled or is partially fulfilled in the TDP.
 - An Informational discrepancy is written when the issue is outside the scope of the certification; Informational discrepancies are provided to the client but do not preclude certification.
 - Enter the discrepancy number of any discrepancies written (from the separate discrepancy report), with a short description in the Comments column.

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|-----------------------|--------------------------|---------------------|--------------------------|
| Vendor : | Hart InterCivic | Reviewer(s): | Georgia Fortun |
| Voting System: | Verity Voting 2.0 | Review Date: | November 11, 12, 13 2015 |

Applicable TDP Documents

| Document Title (from cover pg), version, date | Doc # | File name |
|--|--------------|--|
| Verity System Description Technical Document Rev B.00 08/14/2015 | #1 | Verity System Description 4005466 B00.pdf |
| Verity Voting Performance Characteristics Rev B.00 10/22/2015 | #2 | Verity Performance Characteristics 4005497 B00.pdf |
| | | |



| Document Title (from cover pg), version, date | Doc # | File name |
|---|-------|--|
| Verity Airgap Interface for Portable Electronic Media Technical Reference Document number 4005-512-A02 (no date) | #4 | Verity Airgap Interface Technical Reference 4005512 A02.pdf |
| Verity Software Architecture & Design Technical Documentation Rev B.00 03/31/2015 | #5 | Verity Software Architecture-Design 4005463 B00.pdf |
| Verity 1.3.0 Technical Data Package Overview Rev B.00 10/10/2015 | #6 | Verity 2.0 TDP Overview 4005511 B00.pdf |
| Verity Service and Maintenance Verity Voting Maintenance Information Operations Technical Reference Manual Document number 6610-001-B01 (no date) | #7 | Verity Service and Maintenance Operations Technical Reference Manual 6610001 B01.pdf |
| Verity Trace - System Overview, Saved to PDF 11/2/2015 | #8 | 2.2 Verity Trace - System Overview.pdf |
| Verity Voting Verity Operational Environment Rev B01 10/23/2015 | #9 | Verity Operational Environment 4005515 B01.pdf |
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Trace Table

| Req # | VVSG 2005 Testing Standards - Vol.2 unless otherwise specified | Traced | Comments |
|---------|---|---------------------------|----------|
| 2 | Technical Data Package | | |
| 2.1 | Scope | | |
| 2.1.1 | Content and Format | | |
| 2.1.1.1 | Required Content for Initial Certification <i>(Indicate "N/A" if this document does not fall into the identified category of documentation.)</i> | | |
| a. | At minimum, the TDP shall contain the following documentation: System configuration overview; | Doc #6 - Entire Document. | Y |
| 2.1.1.3 | Format | | |
| | The requirements for formatting the TDP are general in nature; specific format details are of the vendor's choosing. The TDP shall include a detailed table of contents for the required documents, an abstract of each document and a listing of each of the informational sections and appendices presented. A cross-index shall be provided indicating the portions of the documents that are responsive to documentation requirements for | Doc #6 - Entire Document. | Y |



| Req # | VVSG 2005 Testing Standards - Vol.2 unless otherwise specified | Traced | Comments |
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| | any item presented. | | |
| 2.1.3 | Protection of Proprietary Information | | |
| | The vendor shall identify all documents, or portions of documents, containing proprietary information not approved for public release. Any person or test agency receiving proprietary information shall agree to use it solely for the purpose of analyzing and testing the system, and shall agree to refrain from otherwise using the proprietary information or disclosing it to any other person or agency without the prior written consent of the vendor, unless disclosure is legally compelled. | Traced through Doc #6 The following are Proprietary Documents: Doc #2 - entire document . Doc #5 - entire document . Doc #9 - entire document . | Y - The following are NOT proprietary Doc #1 (Verity System Description) Doc #4 (Verity Airgap Interface for Portable Electronic Media Technical Reference) Doc #6 (Verity 2.0 Technical Data Package Overview) Doc #7 (Verity Service and Maintenance Operations Technical Reference Manual) Doc #8 (Verity Trace - System Overview) . |
| 2.2 | System Overview | | |
| | In the system overview, the vendor shall provide information that enables the test lab to identify the functional and physical components of the system , how the components are structured, and the interfaces between them. | Doc #1 - Section 1.1.1 Verity Voting Configurations, pgs. 8-10. Section 2.1 Overall System Capabilities, pg. 25. Section 4 System Description, pgs. 42-83. Doc #4 - Chapter 1 Airgap Interface, pgs. 5-7. Doc #5 - Section 4.3 Interfaces, pg. 1, Section 4.8 Deployment, pgs. 17-18. | Y |
| 2.2.1 | System Description | | |
| a. | The system description shall include written descriptions, drawings and diagrams that present: A description of the functional components (or subsystems) as defined by the vendor (e.g., environment, election management and control, vote recording, vote conversion, reporting, and their logical relationships) | Doc #1 - Section 1.0 - Brief Description, pgs. 8-19. Section 2.0 - System Overview, pgs. 25-39. Doc #4 - Entire Document. Doc #5 - Section 4.1 Desktop and Embedded Common Approaches Figure 2 - Generic Architecture Layer Diagram, pgs. 12-15. Section 4.8 Deployment, Deployment Figure 3 – Desktop Deployment Diagram - client/server and monolithic models, pgs. 17-18. | Y |
| b. | The system description shall include written descriptions, drawings and diagrams that present: A description of the operational environment of the | Doc #1 - Section 5.0 - Verity Hardware, pgs. 83-91. Doc #4 - Entire Document. | Y |



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| | system that provides an overview of the hardware, software, and communications structure | | |
| c. | The system description shall include written descriptions, drawings and diagrams that present: A concept of operations that explains each system function, and how the function is achieved in the design | Doc #1 - Section 1.0 - Brief Description, pgs. 8-24. Section 5.0 - Verity Hardware, pgs. 83-91. Doc #4 - Entire Document. | Y |
| d. | The system description shall include written descriptions, drawings and diagrams that present: Descriptions of the functional and physical interfaces between subsystems and components | Doc #1 - Section 4.1 - System and Subsystem descriptions, pgs. 42-75. Doc #4 - Entire Document. | Y |
| e. | The system description shall include written descriptions, drawings and diagrams that present: Identification of all COTS hardware and software products and communications services used in the development and/or operation of the voting system, identifying the name, vendor and version used for each such component, including: <ol style="list-style-type: none"> 1. Operating systems; 2. Database software; 3. Communications routers; 4. Modem drivers; and 5. Dial-up networking software | Doc #1 - Section 1.2.3 - Verity Build - Election Definition and Device Settings - Verity Build optional COTS devices, pg. 13. Section 1.2.4 Verity Central - Central Ballot Scanning & Resolution Software - Verity Central optional COTS devices, pg 15. Section 4.1.1.1 Operating Environment, pg. 42. Section 5.1.2 - Verity Voting Devices – Common Design, pg.84. Section 5.1.1 Verity Workstation Specifications, pg 83. Doc #4 - Entire Document. Doc #5 - Section 4.2 - Tools and Technologies, pgs. 16-17. Doc #9 - Section 2.3.12 Verity Devices Native Operating System Services and Drivers, Table 3 - Verity Device Software pgs. 67- 70 lists the COTS software devices, vendors and versions. | Y |
| f. | The system description shall include written descriptions, drawings and diagrams that present: Interfaces among internal components, and interfaces with external systems. For components that interface with other components for which multiple products may | Doc #1 - Section 1.0 - Brief Description, pgs. 8-24. Section 4.0 - System Description, pgs. 42-83. Doc #5 - Section 4.0 - Common Architecture and Design Attributes, pgs. 12-18. Section 6.0 - Distributed Data Client/Server | Y |



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| | be used, the TDP shall provide an identification of: i. File specifications, data objects, or other means used for information exchange; ii. The public standard used for such file specifications, data objects, or other means; | Architecture, pgs. 20-22. Section 7.0 - Distributed Service Client Server Architecture pgs. 22-25. Section 9.0 - Security, pgs. 27-31. | |
| g. | The system description shall include written descriptions, drawings and diagrams that present: Benchmark directory listings for all software (including firmware elements) and associated documentation included in the vendor's release in order of how each piece of software would normally be installed upon setup and installation. | Doc #1 - Section 4.1.1.14 Installation, pg. 45. Doc #9 - 2.3 Operating System and supporting software pgs. 11-135. | Y |
| 2.2.2 | System Performance | | |
| a. | The vendor shall provide system performance information including: The performance characteristics of each operating mode and function in terms of expected and maximum speed, throughput capacity, maximum volume (maximum number of voting positions and maximum number of ballot styles supported), and processing frequency | Doc #1 - Section 2.1.1 System Performance, pg. 26. Doc #2 - Touch Writer (expected and maximum speed) Section 3.3.1 Verity Print Features, pg 9. Verity Central Scanner (expected and maximum speed) Section 4.3 Verity Central Scanner, pg. 17. Touch Writer Printer UPS (expected and maximum speed) Section 4.4 Touch Writer Printer UPS, pg 17. Build Ballot Production Printer (maximum volume) Section 4.5.2 Verity Build Ballot Production Printer Verity Central Scanner (maximum throughput capacity) Section 4.5.3 Verity Central Scanner, pg. 19. Verity Print COTS Printer (maximum throughput capacity) 4.5.4 Verity Print COTS Printer, pg. 20. | Y |



| Req # | VVSG 2005 Testing Standards - Vol.2 unless otherwise specified | Traced | Comments |
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| | | Verity Scan processing frequency - Section 5.1.1 Polling Place capacity, pg. 21. Verity Central processing frequency - Section 5.1.4 Verity Central Capacity, pg. 21. Verity Count processing frequency Section 5.1.5 Verity Count Capacity, pg. 22. | |
| b. | The vendor shall provide system performance information including: Quality attributes such as reliability, maintainability, availability, usability, and portability; | Doc #2 - Quality attributes: Portability; Section 2.1.1.1 Verity tablet, pg. 5. Section 3 Verity Voting Hardware, pg. 8. Availability/Performance; Section 5 Verity Voting Performance, pgs. 21-22 Doc #7 - Quality attributes: Maintainability; Section 2.11 Preventive Maintenance Procedures, pgs. 75-84. Section 2.12 Battery Maintenance , pgs. 84-86. Usability; Section 2.13 Performing Functionality Tests, pgs. 87-95. | Y |
| c. | The vendor shall provide system performance information including: Provisions for safety, security, privacy, and continuity of operation | Doc #2 Safety: Section 3.3 Verity Print Specifications (3005356), pg. 9. Section 5.1.6 Safety, pg. 22 Doc #2 - Security: Section 2.1.1.2 Verity Case, pgs. 5-6 Section 6.1 Security, pg. 22 Doc #2 - Privacy: Section 6.2 Privacy, pg. 22 Doc #2 - Continuity of Operation: Section 3.5.5 Battery Power, provides a min. of 2-hour operation for devices, pg. 14 | Y |
| d. | The vendor shall provide system performance information including: Design constraints, applicable standards, and compatibility requirements. | Doc #2 - Design Constraints: Section 6 Verity Design Constraints, pgs. 22-23 Doc #2 - Applicable Standards: Section 6.5 Applicable standards, pg. 23 Doc #2 - Compatibility requirements: Section 6.4 System compatibility, pg. 22 | Y |



End of Document
