



From the Vendor Trace document or declaration, identify all documents that incorporate the System Operations Procedures. 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.

Vendor :	Hart	Reviewer(s):	L. Hoppert
Voting System:	Verity 1.0	Review Date:	2/16/15

Applicable TDP Documents

Document Title (from cover pg), version, date	Doc #	File name
Verity Build Technical Reference Manual, A05, No date	#1	Verity Build Technical Reference Manual 6600-002



Document Title (from cover pg), version, date	Doc #	File name
		A05.pdf
Verity Central Technical Reference Manual, A04, No date	#2	Verity Central Technical Reference Manual 6600-003 A04.pdf
Verity Count Technical Reference Manual A04, No date	#3	Verity Count Technical Reference Manual 6620-004 A04.pdf
Verity Service and Maintenance Technical Reference Manual, A05, No date	#4	Verity Service and Maintenance Technical Reference Manual 6610-001 A05.pdf
Verity System Description Technical Document Version A.08, 10/31/2014	#5	Verity System Description 4005466 A08.pdf
Verity 1.0 Technical Data Package Overview, Version A.12, 2/13/2015	#6	Verity 1.0 TDP Overview 4005511 A12.pdf

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 “*” if this document does not fall into the identified category of documentation.</i>)		
g.	At minimum, the TDP shall contain the following documentation: User/system operations procedures;	Doc #1 - Entire Doc. Doc #2 - Entire Doc. Doc #3 - Entire Doc. Doc #4 - Entire Doc.	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	Doc #6 - Entire Doc.	Y Info DISC VTY-33 Doc #5 - Section 2.9 Verity Election Preparation, pg. 30 contains the following reference to a document that does not exist in the TDP: <i>Hart’s Verity Voting End-to-End Operations</i>



Req #	VVSG 2005 Testing Standards - Vol.2 unless otherwise specified	Traced	Comments
	that are responsive to documentation requirements for any item presented.		<i>Guide and Verity Polling Place Operations Guide</i> provides detailed procedures required to perform and complete election preparation, early voting and Election Day voting activities and post-election activities needed to prepare for the next election. CLOSED - J Bowen, 12/12/14: Reference to missing document has been removed and two new references have been added and they point to documents.
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.	Doc #1 - pg. 2 Doc #2 - pg. 2 Doc #3 - pg. 2 Doc #4 - pg. 2 Doc #5 - Entire Doc. Doc #6 - Entire Doc.	Y
2.8	System Operations Procedures		
	This documentation shall provide all information necessary for system use by all personnel who support pre-election and election preparation, polling place activities and central counting activities, as applicable, with regard to all system functions and operations identified in Section 2.3 above. The nature of the instructions for operating personnel will depend upon the overall system design and required skill level of system operations support personnel.	Doc #1 - Entire Doc. Doc #2 - Entire Doc. Doc #3 - Entire Doc. Doc #4 - Entire Doc.	Y
	The system operations procedures shall contain all information that is required for the preparation of detailed system operating procedures, and for operator	Doc #1 - Entire Doc. Doc #2 - Entire Doc.	Y



Req #	VVSG 2005 Testing Standards - Vol.2 unless otherwise specified	Traced	Comments
	training, as described below:	Doc #3 - Entire Doc. Doc #4 - Entire Doc.	
2.3	System Functionality Description		
	<p>The vendor shall declare the scope of the system's functional capabilities, thereby establishing the performance, design, test, manufacture, and acceptance context for the system.</p> <p>The vendor shall provide a listing of the system's functional processing capabilities, encompassing capabilities required by the Guidelines and any additional capabilities provided by the system.</p> <p>Additional capabilities shall be clearly indicated.</p> <p>Required capabilities that may be bypassed or deactivated during installation or operation by the user shall be clearly indicated</p> <p>Additional capabilities that function only when activated during installation or operation by the user shall be clearly indicated</p> <p>Additional capabilities that normally are active but may be bypassed or deactivated during installation or operation by the user shall be clearly indicated</p>		Y
2.8.1	Introduction		
	The vendor shall provide a summary of system operating functions and modes, in sufficient detail to permit understanding of the system's capabilities and constraints. The roles of operating personnel shall be identified and related to the operating modes of the system. Decision criteria and conditional operator functions (such as error and failure recovery actions) shall be described.	Doc #1 - Chapter 1 - Introduction, pgs. 9-27 Doc #2 - Chapter 1 - Introduction, pgs. 9-28 Doc #3 - Chapter 1 - Introduction, pgs. 9-24 Doc #4 - Chapter 1 - Introduction, pgs. 9-22 Doc #5 - Section 1 - Brief Description, pgs. 7-18, Section 2.3 User Access Management, pgs. 22-23	Y
	The vendor shall also list all reference and supporting	Doc #1 - Chapter 1 - Section - How to Use	Y



Req #	VVSG 2005 Testing Standards - Vol.2 unless otherwise specified	Traced	Comments
	documents pertaining to the use of the system during elections operations.	This Guide, pg. 12	
2.8.2	Operational Environment		
	The vendor shall describe the system environment, and the interface between the user or operator and the system.	Doc 1: - Chapter 1 - Section - Navigating Build, pgs. 20-26 Appendix C - User Interface Buttons, pgs. 151-154 Doc 2: - Chapter 1 - Section - About Central, pgs. 10-12 Appendix A - Appendix A: User Interface Buttons, pgs. 135-139 Doc 3: Chapter 1 - Section - Count Overview, pgs. 10-14 Appendix B: User Interface Buttons, pgs. 155-161 Doc 4: Chapter 2 - Procedures: Storage, Delivery, and Maintenance, pgs. 24-68 Chapter 3 - Polling Place Equipment Testing, pgs. 69-78 Chapter 4 - Procedures: Pre- and Post-Election, pgs. 79-88	Y
a.	The vendor shall identify all facilities, furnishings, fixtures, and utilities that will be required for equipment operations, including equipment that operates at the: Polling place;	Doc 4: Chapter 2 - Procedures: Storage, Delivery, and Maintenance, pgs. 24-68 Chapter 3 - Polling Place Equipment Testing, pgs. 69-78 Chapter 4 - Procedures: Pre- and Post-Election, pgs. 79-88	Y
b.	The vendor shall identify all facilities, furnishings, fixtures, and utilities that will be required for equipment operations, including equipment that operates at the: Central count facility;	Doc 4: Chapter 4 - Procedures: Pre- and Post-Election, pgs. 79-88	Y
c.	The vendor shall identify all facilities, furnishings, fixtures, and utilities that will be required for equipment	Doc 4: Chapter 2 - Procedures: Storage, Delivery, and Maintenance, pgs. 24-68	Y



Req #	VVSG 2005 Testing Standards - Vol.2 unless otherwise specified	Traced	Comments
	operations, including equipment that operates at the: Other locations.	Chapter 3 - Polling Place Equipment Testing, pgs. 69-78 Chapter 4 - Procedures: Pre- and Post-Election, pgs. 79-88	
2.8.3	System Installation and Test Specification		
	The vendor shall provide specifications for validation of system installation, acceptance, and readiness.	Doc #4 - Chapter 2 - Predefine Procedures, pgs. 36-44 Chapter 3 - Polling Place Equipment Testing, pgs. 69-78 Chapter 7 - Device Reports, pgs. 117-123 Chapter 8 - vDrive Processing and Election Night Procedures, pgs. 133-136	Y
a.	These specifications shall address all components of the system and all locations of installation (e.g., polling place central count facility), and shall address all elements of system functionality and operations identified in Section 2.3 above, including: Pre-voting functions;	Doc #4 - Chapter 2 - Predefine Procedures, pgs. 36-44	Y
b.	These specifications shall address all components of the system and all locations of installation (e.g., polling place central count facility), and shall address all elements of system functionality and operations identified in Section 2.3 above, including: Voting functions;	Doc #4 - Chapter 3 - Polling Place Equipment Testing, pgs. 69-78 Chapter 7 - Device Reports, pgs. 117-123	Y
c.	These specifications shall address all components of the system and all locations of installation (e.g., polling place central count facility), and shall address all elements of system functionality and operations identified in Section 2.3 above, including: Post-voting functions.	Doc #4 - Chapter 8 - vDrive Processing and Election Night Procedures, pgs. 133-136	Y
d.	These specifications shall address all components of the system and all locations of installation (e.g., polling place central count facility), and shall address all elements of system functionality and operations	Doc #4 - Chapter 2 - Predefine Procedures, pgs. 36-44 Chapter 3 - Polling Place Equipment Testing,	Y



Req #	VVSG 2005 Testing Standards - Vol.2 unless otherwise specified	Traced	Comments
	identified in Section 2.3 above, including: General capabilities.	pgs. 69-78 Chapter 7 - Device Reports, pgs. 117-123 Chapter 8 - vDrive Processing and Election	
END	These specifications also serve to provide guidance to the procuring agency in developing its acceptance test plan and procedure according to the agency's contract provisions, and the election laws of the state.	Doc #4 - Chapter 2 - Predefine Procedures, pgs. 36-44 Chapter 3 - Polling Place Equipment Testing, pgs. 69-78 Chapter 7 - Device Reports, pgs. 117-123 Chapter 8 - vDrive Processing and Election	Y
2.8.4	Operational Features		
a.	The vendor shall provide documentation of system operating features that meets the following requirements: A detailed description of all input, output, control, and display features accessible to the operator or voter;	Doc 1: - Chapter 1 - Section - Navigating Build, pgs. 20-26 Appendix C - User Interface Buttons, pgs. 151-154 Doc 2: - Chapter 1 - Section - About Central, pgs. 10-12 Appendix A - Appendix A: User Interface Buttons, pgs. 135-139 Doc 3: Chapter 1 - Section - Count Overview, pgs. 10-14 Appendix B: User Interface Buttons, pgs. 155-161 Chapter 2 - Procedures: Storage, Delivery, and Maintenance, pgs. 24-68 Chapter 3 - Polling Place Equipment Testing, pgs. 69-78 Chapter 4 - Procedures: Pre- and Post-Election, pgs. 79-88	Y
b.	The vendor shall provide documentation of system operating features that meets the following requirements: Examples of simulated interactions in order to facilitate	Doc #1 - Chapter 1 - Introduction - Section - Build Workflow, pg. 14 Doc #2 - Chapter 1 - Introduction - Section -	Y



Req #	VVSG 2005 Testing Standards - Vol.2 unless otherwise specified	Traced	Comments
	understanding of the system and its capabilities;	Central Workflow, pg. 15 Doc #3 - Chapter 1 - Introduction - Section - Count Workflow, pg. 14	
c.	The vendor shall provide documentation of system operating features that meets the following requirements: Sample data formats and output reports;	Doc #1 - Appendix B - Sample Reports pgs. 135, 137, 139, 142, 145, 147, 148, 149 & 150. Doc #2 - Chapter 9 Reports Chevron pgs. 127-133, Sample data formats only, no sample output reports. Doc #3 - Chapter 8 Results Chevron pgs. 103-137, Sample data formats only, no sample output reports. Doc #4 - Chapter 7 Device Reports pgs. 114-130.	N DISC #VTY- 65 No samples of output reports found for the Verity Count or the Verity Central applications. CLOSED - J Bowen, 12/12/14: Samples of output reports now found in Verity Central Technical Reference Manual Page 144 - 170 and Verity Count Technical Reference Manual Page 141 - 156.
d.	The vendor shall provide documentation of system operating features that meets the following requirements: Illustrate and describe all status indicators and information messages.	Doc #1 - Appendix A - Error Messages pgs. 129-131 Doc #2 - Appendix B - System Reference pgs. 141-142. Appendix D - Status Indicators pgs. 163-164. Doc #3 - Chapter 1 Navigating Count pgs. 20-26. Doc #4 - Chapter 6 Troubleshooting Procedures for Support Personnel pgs. 101-116.	Y DISC #VTY- 66 No illustration found describing all status indicators and information messages for the Verity Central application. (JB 12/12/14) With the addition of Appendix D, this issue is 95% resolved. In the table of Appendix D there is still a missing "meaning" for the second indicator. Update 1/29/15 , L. Hoppert: Copied Joe's note into the description field in the JIRA discrepancy so vendor can see it. CLOSED 2/16/15 , L. Hoppert: Verity Central Technical Reference Manual 6600-003 A04 document Appendix D now contains the meaning of the indicator.
2.8.5	Operating Procedures		
a.	The vendor shall provide documentation of system operating procedures that meets the following	Doc #1 - (Build) Entire doc and in particular	Y DISC #VTY- 67 No detailed description of



Req #	VVSG 2005 Testing Standards - Vol.2 unless otherwise specified	Traced	Comments
	requirements: Provides a detailed description of procedures required to initiate, control, and verify proper system operation;	Chapter 6 re initiating and controlling and Appendix D re verifying (status indicators) Doc #2 - (Central) Entire doc and in particular Chapter 6 re initiating and controlling and Appendix D re verifying (status indicators) Doc #3 - (Count) Entire doc and in particular Chapter 6 re initiating and controlling and Appendix D re verifying (status indicators) Doc #4 - Chapter 2 Predefine procedures pgs. 36-43 - Verity Scan and Verity TouchWriter.	procedures required to initiate, control and verify proper system operation of the Verity Build, Count or Central applications. CLOSED 1/29/15: Traced to Build, Central and Count Technical Reference Manuals
b.	The vendor shall provide documentation of system operating procedures that meets the following requirements: Provides procedures that clearly enable the operator to assess the correct flow of system functions (as evidenced by system-generated status and information messages);	Doc #1 - Entire Doc. Doc #2 - Entire Doc. Doc #3 - Entire Doc. Doc #4 - Entire Doc.	Y
c.	The vendor shall provide documentation of system operating procedures that meets the following requirements: Provides procedures that clearly enable the operator to intervene in system operations to recover from an abnormal system state;	Doc #1 - (Build) Chapter 6, section "Message Windows" Doc #2 - (Central) Chapter 6, section "Message Windows" Doc #3 - (Count) Chapter 6, section "Message Windows" Doc #4 - Chapter 6 Troubleshooting Procedures for Support Personnel pgs. 101-116.	Y DISC #VTY- 68 No procedures provided that clearly enable the operator to intervene in system operations to recover from an abnormal system state for the Verity Build, Count or Central applications. CLOSED 1/29/15: Traced to Build, Central and Count Technical Reference Manuals
d.	The vendor shall provide documentation of system operating procedures that meets the following requirements: Defines and illustrates the procedures and system prompts for situations where operator intervention is required to load, initialize, and start the system;	Doc #1 - (Build) Chapter 6 Doc #2 - (Central) Chapter 6 Doc #3 - (Count) Chapter 6 Doc #4 - Chapter 2 Predefine procedures pgs. 36-43 - Verity Scan and Verity TouchWriter.	Y DISC #VTY- 69 No procedures and system prompts defined and/or illustrated for situations where operator intervention is required to load, initialize and start the system for the Verity Build, Count or Central applications.



Req #	VVSG 2005 Testing Standards - Vol.2 unless otherwise specified	Traced	Comments
			CLOSED 1/29/15: Traced to Build, Central and Count Technical Reference Manuals
e.	The vendor shall provide documentation of system operating procedures that meets the following requirements: Defines and illustrates procedures to enable and control the external interface to the system operating environment if supporting hardware and software are involved. Such information shall also be provided for the interaction of the system with other data processing systems or data interchange protocols;	Doc #4 - Chapter 4 Pre-Election Checklist pgs. 81-83.	Y
f.	The vendor shall provide documentation of system operating procedures that meets the following requirements: Provides administrative procedures and off-line operator duties (if any) if they relate to the initiation or termination of system operations, to the assessment of system status, or to the development of an audit trail;	Doc #4 - Chapter 4 Procedures: Pre- and Post-Election pgs. 80-89 .	Y
g.	The vendor shall provide documentation of system operating procedures that meets the following requirements: Supports successful ballot and program installation and control by election officials, provides a detailed work plan or other form of documentation providing a schedule and steps for the software and ballot installation, which includes a table outlining the key dates, events and deliverables	Doc #4 - Chapter 2 Voting Device Delivery and Deployment pgs. 46-50 - Verity Scan and Verity TouchWriter.	Y
h.	The vendor shall provide documentation of system operating procedures that meets the following requirements: Supports diagnostic testing, specifies diagnostic tests that may be employed to identify problems in the system, verifies the correction of maintenance problems; and isolates and diagnoses faults from various systems states.	Doc #4 - Chapter 3 Polling Place Equipment Testing pgs. 69-77.	Y



Req #	VVSG 2005 Testing Standards - Vol.2 unless otherwise specified	Traced	Comments
2.8.6	Operations Support		
a.	The vendor shall provide documentation of system operating procedures that meets the following requirements: Defines the procedures required to support system acquisition, installation, and readiness testing. These procedures may be provided by reference, if they are contained either in the system hardware specifications, or in other vendor documentation;	Doc #4 - Entire doc	Y
b.	The vendor shall provide documentation of system operating procedures that meets the following requirements: Describes procedures for providing technical support, system maintenance and correction of defects, and for incorporating hardware upgrades and new software releases.	Doc #4 - Entire doc.	Y
2.8.7	Appendices		
	The vendor may provide descriptive material and data supplementing the various sections of the body of the System Operations Manual. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for discussion include: Glossary: A listing and brief definition of all terms that may be unfamiliar to persons not trained in either voting systems or computer operations; References: A list of references to all vendor documents and to other sources related to operation of the system; Detailed Examples: Detailed scenarios that outline correct system responses to faulty operator input. Alternative procedures may be specified depending on the system state; and	Doc #1 - Appendix A, B, C pgs. 129-154 Glossary pgs. 155-184 Index pgs. 185-191. Doc #2 - Appendix A & B pgs. 135-142 Glossary pgs. 143-176 Index pgs. 177-180. Doc #3 - Appendix A, B, C (System Reference) pgs. 145-164 Glossary pgs. 165-198 Index pgs. 199-202. Doc #4 - Appendix A Security Best Practices pgs. 137-143 Glossary pgs. 145-174 Index pgs. 175-176.	Y Info DISC VTY-70 Type-O The Glossary definition of WYSIWYG is mis-pelled: What You See Is What You t. (Verity Build Technical Reference Manual No version, No date Document # 6600-002-A00 - Glossary, pg. 184) Update 1/29/15: The document still has the typo. No vendor response.



Req #	VVSG 2005 Testing Standards - Vol.2 unless otherwise specified	Traced	Comments
	Manufacturer's Recommended Security Procedures: This appendix shall contain the security procedures that are to be executed by the system operator.		
4.1.2	Environmental Requirements - Paragraph 2		
	The TDP supplied by the vendor shall include a statement of all requirements and restrictions regarding environmental protection, electrical service, recommended auxilliary power, telecommunications service, and any other facility or resource required for the proper installation and operation of the system.		
Vol. 1, 7.9.4	Equipment Security and Reliability		
k.	Vendor documentation shall include procedures for investigating and resolving printer malfunctions including, but not limited to; printer operations, misreporting of votes, unreadable paper records, and power failures.	Doc #4 - Chapter 3 Polling Place Equipment Testing, pgs. Chapter 6 Troubleshooting Procedures for Support Personnel pgs. 102-116	Y

End of Document
