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|---|---------|----------------|--|---|--|-------------------|
| | | Technical Data | Package Review per Voluntary Voting System Guidelines (V | VSG) Ver. 1.0 | | Compliance Object |
| 1 | | | | | | |
| 1 | | | EMG COOO | Corresponding VVSG requirement(s) reference | I. WHVS07 Voting System Test Procedure 1. Wyle Test Plan A. WHVS07.1, Technical Data Package B. WHVS07.10 Materials Required for Testing C. WHVS07TR, Test Report Template D. WHVS07.11, TDP Review Checklist Matrix 1. WoP2a, Receiving TDP a. Vendor Media Receipt Log 2. WoP 3, TDP Review a. WHV07.11TDP, (Review Matrix FINAL) Compliance Matrix b. Issues Matrix 3. WHVS07.46, Customer Communication Log E. WH1066, Notice of Anomaly According to the Election Systems & Software, EVS5000 Voting System Overview ES&S Voting System version 5.0.0.0 (EVS5000) is ES&S"s first voting system to fully comply with the EAC 2005 Voluntary Voting System Guidelines, Version 1.0. The system includes a number of new products and features including ES&S newest election management software solution, ElectionWare and functionality to network multiple ES&S DS850 central ballot scanners to a single reporting PC for high-speed counting and results accumulation. ES&S Voting System version 5.0.0.0 is the next step in providing voting systems capable of meeting the varied needs of every voting jurisdiction, and reaffirms ES&S's commitment to providing customers with the most accurate, reliable and secure voting systems in the world. | |
| 2 | PREFACE | | EVS5000 This matrix is the most up to date edition as of 3-15-2013 | | ES&S Voting System 5.0.0.0 provides a scalable, end-to-end election system for jurisdictions with widely varied requirements. The system includes: - ElectionWare Election Management System software for defining contents, candidates and ballot formats and performing results post-processing. - The DS200 precinct ballot tabulator. - The ES&S AutoMARK, a proven ballot accessible marking system that supports audio, touchscreen and tactile keypad inputs for ballot marking. - The DS850 central ballot scanner for high speed tabulation of mail ballots, absentee ballots or Election Day ballots. Jurisdictions can network multiple DS850 scanners to a central reporting PC for large central count operations. - Election Reporting Manager software for results consolidation and report generation. ES&S Voting System 5.0.0.0 system components are divided into the following functional groups: - Election Management System - Central Ballot Tabulator - Electronic Ballot Marking Devices - Precinct Ballot Tabulators - Third party computing equipment and peripherals | |
| | ١, | | | | | |
| 5 | | | VVSG Requirement | | Location(s) where verified is located/comments by Wyle: | |
| 6 | | | Description of the Technical Data Package Scope | | | |
| О | | VII, 2.1 | Scope | | | |

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| 7 | | | This subsection [of the VVSG] contains a description of vendor documentation relating to the voting system that shall be submitted with the system as a precondition of national certification testing. These items are necessary to define the product and its method of operation to provide technical and test data supporting the vendor's claims of the system's functional capabilities and performance levels; and to document instructions and procedures governing system operation and field maintenanceAny information relevant to the system evaluation shall be submitted to includsource code, object code, and sample output report formats. | also Vol. 1, 2.1.7.2 Voting Variations; Vol. II, 2.8.4 Operational Features EAC VSTL Program Manual Vol. 1.0 Sect. 4.3.1.6 | EAC Approval of Voting System Testing Application Package Letter to ES&S, December 02, 2011 | Letter |
| 8 | | | Both formal documentation and notes of the vendor's system development process shall be submitted for qualification tests. Documentation describing the system development process permits assessment of the vendor's systematic efforts to develop and test the system and correct defects. Inspection of this process also enables the design of a more precise test plan. If the vendor' developmental test data are incomplete, the accredited test lab shall design and conduct the appropriate tests to cover all elements of the system and to ensure conformance with all system requirements. | s s | EAC Approval of Voting System Testing Application Package Letter to ES&S, December 02, 2011 | Letter |
| 9 | 7 | VII, 2.1.1 | Content and Format | | | |
| 10 | | | The vendor shall provide a list of all documents submitted controlling the design, construction, operation, and maintenance of the system. Documents shall be listed in order of precedence. | | EVS5000_PRE01_BinderCover_3-in EVS5000_PRE02_Cover Page EVS5000_PRE03_Requirements Matrix | Spreadsheet |
| 11 | V | VII, 2.1.1.1 | Description of the Technical Data Package, Required Content for Initial Certification | Vol. I, 8.7 Quality Assurance Requirements, Documentation; Vol. II, 2.12.4 Quality Assurance Program, Documentation | | |
| 12 | | | At a minimum, the TDP shall contain the following documentation: | Vol. I, 3.1.1 Usability Testing; Vol. I, 3.2.2.1 Partial Vision; Vol. I, 3.2.2.2 Blindness; Vol. I, 3.2.3 Dexterity | | |
| 13 | a | l. | System Configuration Overview | | EVS5000_OVR00 EVS5000_OVR04_AppxD_CIF-AutoMark EVS5000_OVR05_AppxD_CIF-DS200 EVS5000_OVR07_AppxE_ConformityStatement | TDP |
| 14 | b | , | System Functionality Description | | EVS5000 SFD00 | TDP |

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| | | c. | System Hardware Specifications | | EVS5000_SHS00_DS200 | |
| | | | | | EVS5000_SHS00_DS850 | |
| | | | | | AutoMARK_ESS_System_Hardware_Overview_AQS-18-5002-000-S | |
| | | | | | AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F | |
| | | | | | EVS5000_SHS00_AutoMARK01_MODELS | |
| | | | | | EVS5000_SHS00_AutoMARK02_BOM | |
| | | | | | EVS5000_SHS00_DS20001_BOM | |
| | | | | | EVS5000_SHS00_DS85001_BOM | |
| | | | | | EVS5000_SHS01_AutoMARK1.1-1.2 BOM | |
| | | | | | EVS5000_SHS01_AutoMARK1.3 BOM | |
| | | | | | CABLE_PHASE2 | TDP |
| | | | | | | |
| | | | | | 5K509175-LA | |
| | | | | | 5K509177-L- | |
| | | | | | 5K509618_SIP_B | |
| | | | | | PEB_RevB | |
| | | | | | PSB_RevB | |
| | | | | | SBC_640117-4000C-2AGP | |
| | | | | | Scanner_PI211MC-B4DR May04 | |
| | | | | | SD_GGB_REV_A | |
| | | | | | SIB_A3 | |
| 15 | | | | | USD-A-SCH | |
| | | d. | Software Design and Specifications | | AutoMARK ESS Ballot Image Processing Specification AQS-18-5002-003-S.pdf | |
| | | | | | AutoMARK ESS Ballot Scanning and Printing Specification AQS-18-5002-007-S.pdf | |
| | | | | | AutoMARK ESS Driver API Specification AQS-18-5000-002-F.pdf | |
| | | | | | AutoMARK ESS Embedded Database Interface Specifications AQS-18-5002-005-S | |
| | | | | | AutoMARK ESS GUI Design Specifications AQS-18-5001-005-R | |
| | | | | | AutoMARK ESS Operating Software Design Specifications AQS-18-5001-002-R | |
| | | | | | AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5002-004-S | |
| | | | | | AutoMARK ESS Programming Specifications Details AQS-18-5001-011-R | |
| | | | | | AutoMARK ESS Software Design Spec AQS-18-5001-004-S | |
| | | | | | AutoMARK ESS Software Development Environment AQS-18-5001-006-R | |
| | | | | | AutoMARK ESS Software Diagnostics Specifications AQS-18-5000-004-F | |
| | | | | | AutoMARK ESS Software Standards Specification AQS-18-4000-000-S | |
| | | | | | ESSSYS_D_D_0100_Coding Standards | |
| | | | | | ESSSYS_SG_P_1000_SystemDevProgram | |
| | | | | | EVS5000_SDS00_AutoMARK SDS Overview | |
| | | | | | EVS5000_SDS00_DS200 | |
| | | | | | EVS5000_SDS00_DS20001_Flowcharts | |
| | | | | | EVS5000_SDS00_DS20002_Reports | TDP |
| 1 | | | | | EVS5000_SDS00_DS20005_System Messages | |
| | | | | | EVS5000_SDS00_DS20006_Results Media XMLs | |
| | | | | | EVS5000_SDS00_DS850 | |
| 1 | | | | | EVS5000_SDS00_ElectionWare | |
| | | | | | EVS5000_SDS00_ElectionWare01_EW Specification and Interfaces | |
| | | | | | EVS5000_SDS00_ElectionWare02_PB Specification and Interfaces | |
| | | | | | EVS5000_SDS00_ElectionWare05_System Process Flowchart | |
| | | | | | EVS5000_SDS00_ElectionWare07_PostGreSQL Description | |
| | | | | | EVS5000_SDS00_ElectionWare08_Reports | |
| | | | | | EVS5000_SDS00_ElectionWare11_DS200 and DS850 Media Desc | |
| | | | | | EVS5000_SDS00_ElectionWare12_AutoMARK Media Description and Structure | |
| | | | | | EVS5000_SDS00_ElectionWare13_ERM Media Description | |
| | | | | | EVS5000_SDS00_ElectionWare14_System Messages | |
| | | | | | EVS5000_SDS00_ERM | |
| | | | | | EVS5000_SDS00_ERM01_Appendices | |
| 16 | | | | | EVS5000_SDS00_UELS | |
| 16 | | | | | | |

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|----|---|----|--|---|---|-----|
| | | e. | System Test and Verification Specifications | see Vol. I 3.1.1 Usability Testing: per EAC RFI | EVS5000_STP00 | |
| | | | | 2007-03 dated 9/5/07 - 2005 VVSG Vol. I Section | EVS5000_TC00_AutoMARK | |
| | | | | 3.1.1: summative usability test report must be | EVS5000_TC00_DS200 | |
| | | | | submitted. | EVS5000_TC00_DS850 | |
| | | | | | EVS5000_TC00_ElectionWare01_Manage | |
| | | | | | EVS5000_TC00_ElectionWare02_Define | TDP |
| | | | | | EVS5000_TC00_Electionware03_Design | |
| | | | | | EVS5000_TC00_Electionware04_Deliver | |
| | | | | | EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_ERM | |
| ۱, | | | | | EVS5000_1C00_ERM | |
| 1 | т | c | | | A . MADY FREE | |
| | D | Ι. | System Security Specifications | | AutoMARK ESS System Security Specification AQS-18-5002-001-S | |
| | P | | | | EVS5000_SSS00 | |
| | | | | | EVS5000_SSS01_JSP Template EVS5000_SSS002.08_AutoMARK Quick Hash Procedure | |
| | | | | | EVS5000_SSS002.05_AutoMARK Quick Hash Procedure EVS5000_SSS02.01_EMS_PC_SecScriptDesc | |
| | D | | | | EVS5000_SSS02.01_EMS_PC_Secscriptness | |
| | 0 | | | | EVS5000_SSS02.05_EMSWorkstation Validation Guide | |
| | С | | | | EVS5000_SSS02.05_EMS workstation varietation edited | |
| | U | | | | EVS5000_SSS02.07_DS850Quick Hash Procedure | |
| | M | | | | EVS5000_SSS02_Hardening Procedures | |
| | E | | | | EVS5000_SSS03_Voting System Validation Guide01_File Listing_DS200 | |
| | N | | | | EVS5000_SSS03_Voting System Validation Guide02_File Listing_AutoMARK | |
| | Т | | | | EVS5000 SSS03_Voting System Validation Guide04_File Listing_ElectionWare | |
| | s | | | | EVS5000 SSS03_Voting System Validation Guide05_File Listing_RMS | TDP |
| | | | | | EVS5000_SSS03_Voting System Validation Guide06_File_Listing_ELS | IDP |
| | | | | | EVS5000_SSS03_Voting System Validation Guide07_File Listing_VATPreview | |
| | | | | | EVS5000 SSS03 Voting System Validation Guide08 File Listing ERM | |
| | | | | | EVS5000_SSS03_Voting System Validation Guide09_File Listing_DS850 | |
| | | | | | EVS5000_SSS07_PhysEquipmentSecurityBestPract | |
| | | | | | EVS5000_SSS09_WinOS_SECBaseSettings | |
| | | | | | | |
| | | | | | EVS5000_SSS02.01_HardeningScripts [Folder] | |
| | | | | | EVS5000_SSS02.06.01_DS200Quick Hash Scripts [Folder] | |
| | | | | | EVS5000_SSS02.07.01_DS850QuickHashScripts [Folder] | |
| | | | | | EVS5000_SSS02.08.01_AutoMARKHashTools [Folder] | |
| | | | | | EVS5000_SSS02.09.01_EMS Quick Hash Scripts [Folder] | |
| 18 | 3 | | | | | |
| | 1 | g. | User/System Operations Procedures | | EVS5000_SOP00_AMVAT | |
| | | | * | | EVS5000_SOP00_DS200 | |
| | | | | | EVS5000_SOP00_DS850 | |
| | | | | | EVS5000_SOP00_ElectionWare01_Admin | |
| | | | | | EVS5000_SOP00_ElectionWare02_Define | |
| | | | | | EVS5000_SOP00_ElectionWare03_Design | |
| | | | | | EVS5000_SOP00_ElectionWare04_Deliver | |
| | | | | | EVS5000_SOP00_ElectionWare05_Results | TDD |
| | | | | | EVS5000_SOP00_ELS | TDP |
| | | | | | EVS5000_SOP00_ERM | |
| | | | | | EVS5000_SOP00_NetworkConfigGuide | |
| | | | | | | |
| | | | | | EVS5000_SOP00_AMVAT.01_VerficationElection [Folder] | |
| | | | | | | |
| | | | | | EVS5000_ORPT02_BallotProductionGuide [In Folder 13_ATTACHMENTS] | |
| 19 | 2 | , | n . Mi . D I | | TUGGOO ON MOO AND AT | |
| | | n. | System Maintenance Procedures | | EVS5000_SMM00_AMVAT | |
| | | | | | EVS5000_SMM00_DS200 | TDP |
| 20 | | | | | EVS5000_SMM00_DS850 | |
| | | i. | Personnel Deployment and Training Requirements | | ESSSYS_T_D_1000_TrainingProgram | TDP |
| 2 | | | | | | IDE |

| l l | Α | В | С | D | F | G |
|-------------------|------------------|--------------|---|--|--|-----|
| 22 | j- | | Configuration Management Plan | | ESSSYS_CM_P_1000_ESSCMProgram ESSSYS_DOC_P_1000_TDProgram EVSS000_CMP10_BUILD DOCUMENTATION [Folder] EVSS000_CMP10_BLD00_SEC00_FinalTrustedBuildOutputStagingGuide EVSS000_CMP10_BLD01_SEC01_EMSBuildEnvironment EVSS000_CMP10_BLD01_SEC03_WindowsAndVirusProtectionUpdates EVSS000_CMP10_BLD01_SEC03_WindowsAndVirusProtectionUpdates EVSS000_CMP10_BLD02_SEC01_AutoMARKBuildProcedure EVSS000_CMP10_BLD02_SEC02_AutoMARKBuildEnvironment EVSS000_CMP10_BLD03_SEC01_DS200AncillaryBuildEnvironment EVSS000_CMP10_BLD03_SEC01_DS200AncillaryBuildFrocedure EVSS000_CMP10_BLD05_SEC01_DS200FirmwareBuildProcedure EVSS000_CMP10_BLD05_SEC01_DS200FirmwareBuildProcedure EVSS000_CMP10_BLD05_SEC01_DS200FirmwareBuildProcedure | TDP |
| 23 | k | | Quality Assurance Program | | ESSSYS_M_P_0500_ECOProcess ESSSYS_M_P_0500_ECOProcess ESSSYS_M_P_01000_MNFQualityAssurancePlan ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram EVS5000_QAP00_MN03_ECOPolicies and Procedures EVS5000_QAP00_SWF01_Software_Firmware_Acceptance EVS5000_QAP01_ISO cert Pivot EVS5000_QAP03_QA manual Pivot EVS5000_QAP07_DataWin Quality Assurance Manual EVS5000_QAP08_DATAWIN ISO Certification Certificate ESSSYS_M_FM_AcceptanceChecklists [folder] 850_AccptChklst_revC 850_OAccptChklst_revB AutoMark_AccptChklst_001_Rev.A AutoMark_AccptChklst_001Rev.A Carrying Case QC sheet rev 1.0 DS200_AccptChklst_001Rev.A DS200_AccptChklst_001Rev.A DS200_AccptChklst_001Rev.A DS200_AccptChklst_001Rev.A BS0_AccptChklst_001Rev.B EVS5000_QAP00_MN01_AcceptanceTesting [folder] 850_AccptChklst_revB.pdf 850_DemoChklst_revA.pdf AutoMark_AccptChklst_vevA.pdf AutoMark_AccptChklst_001Rev.A.pdf DS200_AccptChklst_001Rev.A.pdf DS200_AccptChklst_001Rev.A.pdf DS200_AccptChklst_001Rev.A.pdf DS200_AccptChklst_001Rev.A.pdf DS200_AccptChklst_001Rev.A.pdf DS200_AccptChklst_001Rev.A.pdf DS200_AccptChklst_001Rev.A.pdf EVS5000_QAP00_MN01.01_AcceptanceTestProcedure_DS200.pdf EVS5000_QAP00_MN02.01_AcceptanceTestProcedure_DS200.pdf | TDP |
| 24 | 1. | | System Change Notes | | None | TDP |
| 25 | V | /II, 2.1.1.2 | Required Content for System Changes and Recertification | | | |
| 26 27 F | | | versions of all documents that have been updated to reflect system changes. | Vol. I, Sec. 8.7 Quality Assurance Requirements, | N/A - EVS500 is an Initial Certification | TDP |
| | _ | /II, 2.1.1.3 | Format The TDD shall include a deciled table of content for the received | | TUGSOO DDFO2 TOC | |
| E | R E F A | | The TDP shall include a detailed table of contents for the require documents, an abstract of each document, and a listing of each of the informational sections and appendices presented. | | EVS5000_PRE01_TOC EVS5000_PRE01_BinderCover_3-in EVS5000_PRE02_Cover Page EVS5000_PRE05_Requirements Matrix | TDP |

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|-------------|--|-------|--|--|---|------|
| C | | | A cross-index shall be provided indicating the portions of the | | EVS5000 PRE03 TOC | - |
| E | | | documents that are responsive to documentation requirements for | | EVS5000_PRE01_BinderCover_3-in | |
| | | | any item presented. | | EVS5000_PRE02_Cover Page | TDP |
| | | | any nom prosented. | | EVS5000_PRE05_Requirements Matrix | 121 |
| 29 | | | | | E v 35000_1 k E 05_k equitements Matrix | |
| 30 | VII. 2. | 2.1.3 | Protection of Proprietary Information | | | |
| - 00 | ,, <u></u> , | | The vendor shall identify all documents, or portions of | | Cover Pages & "Proprietary Information" Sections of Individual TDP Core Documents | |
| | | | documents, containing proprietary information not approved for | | estel lages de l'ispiremy mismassi. Sections si marvadan 151 este Sections | TDP |
| 31 | | | public release. | | | 151 |
| 32 | VII, 2. | 2.2 | System Overview | | | |
| 02 | <u>, , , , , , , , , , , , , , , , , , , </u> | | In the system overview, the vendor shall provide information that | | EVS5000_OVR00 | |
| | | | enables the accredited test lab to identify the functional and | | EVS5000_OVR04_AppxD_CIF-AutoMark | |
| | | | physical components of the system, how the components are | | EVS5000_OVR05_AppxD_CIF-DS200 | TDP |
| | | | structured, and the interfaces between them. | | EVS5000_OVR07_AppxE_ConformityStatement | 1101 |
| 33 | | | structured, and the interfaces between them. | | E v 35000_O v KO/_AppAL_comorningstatement | |
| 34 | VII. 2. | 2.2.1 | System Description | | | |
| 34 | V 11, 2. | 2,2,1 | The system description shall include written descriptions, | | | |
| 35 | | | drawings and diagrams that present: | | | |
| 33 | 2 | | A description of the functional components (or subsystems) as | | EVS5000_OVR00, Voting Systems Overview, Section 1.2, Functional Components and Subsystems | |
| | a. | | defined by the vendor (e.g., environment, election management | | 12/35/000_O (Roto, Young Systems Overview, Section 1.2, Functional Components and Subsystems | |
| | | | | | | TDP |
| 00 | | | and control, vote recording, vote conversion, reporting, and their | | | |
| 36 | | | logical relationships). | | NUMBER OF THE PROPERTY OF THE | |
| | b. | | A description of the operational environment of the system that | | EVS5000_OVR00, Voting Systems Overview, Section 1.3, Operational Environment | |
| | | | provides an overview of the hardware, software, and | | | TDP |
| 37 | | | communications structure. | | | |
| | c. | | A concept of operations that explains each system function, and | | EVS5000_OVR00, Voting Systems Overview, Section 1.4, Concept of Operation | TDP |
| 38 | | | how the function is achieved in the design. | | | 151 |
| | d. | | Descriptions of the functional and physical interfaces between | | EVS5000_OVR00, Voting Systems Overview, Section 1.5, Functional and Physical Interfaces | TDP |
| 39 | | | subsystems and components. | | | TDI |
| | e. | | 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: | | | |
| 40 | | | | | | |
| | | | Operating systems | also Vol. I, 7.5.2 Telecomm., Prot. Against External | EVS5000_OVR00, Voting Systems Overview, Section 1.6, COTS Hardware and Software | TDP |
| 41 | | | | Threats | | TDI |
| | | | Database software | see Vol. II, 2.5.8 Sys. Database | EVS5000_OVR00, Voting Systems Overview, Section 1.6, COTS Hardware and Software | TDP |
| 42 | | | | | | 1101 |
| | | | Communications routers | see Vol. 1, 7.5.2 Prot. Against External Threats | EVS5000_OVR00, Voting Systems Overview, Section 1.6, COTS Hardware and Software | TDP |
| 43 V | | | | | | 1101 |
| E | | | Modem drivers | see Vol. 1, 7.5.2 Prot. Against External Threats | EVS5000_OVR00, Voting Systems Overview, Section 1.6, COTS Hardware and Software | TDP |
| 44 R | | | | | | 1101 |
| V | ' | | Dial-up networking software | see Vol. 1, 7.5.2 Prot. Against External Threats | EVS5000_OVR00, Voting Systems Overview, Section 1.6, COTS Hardware and Software | TDP |
| 45 I | | | | | | TDI |
| E | f. | | Interfaces among internal components, and interfaces with | Vol. II, 2.5.9 Interfaces | | |
| w | 1 | | external systems. For components that interface with other | | | |
| | | | components for which multiple products may be used, the TDP | | | |
| 46 | | | shall provide an identification of: | | | |
| | | | File specifications, data objects, or other means used for | | EVS5000_OVR00, Voting Systems Overview, Section 1.7, Interfaces Among Components | TDP |
| 47 | | | information exchange. | | | 1101 |
| | | | The public standard used for such file specifications, data | | EVS5000_OVR00, Voting Systems Overview, Section 1.7, Interfaces Among Components | TDP |
| 48 | | | objects, or other means. | | | IDP |
| | g. | | Benchmark directory listings for all software (including firmware | | EVS5000_OVR00, Voting Systems Overview, Section 1.7, Interfaces Among Components | |
| | | | elements) and associated documentation included in the vendor's | | | |
| | | | release in the order in which each piece of software would | | | TDP |
| | | | normally be installed upon system setup and installation. | | | |
| 49 | | | | | | |
| 50 | VII, 2. | 2.2.2 | System Performance | | | |
| | | | The vendor shall provide system performance information | | | |
| 51 | | | including: | | | |
| | and the same of th | | | | | |

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| 52 | | a. | 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. | see Vol. I, 2.2.1.1c Ballot Prep., Gen. Capabilities.; see Vol. I, 4.1.5.1a Ballot Handling | EVS5000_OVR00, Voting Systems Overview, Section 2.1, Performance Characteristics | TDP |
| 53 | | b. | Quality attributes such as reliability, maintainability, availability, usability, and portability. | see Vol. I, 4.3.5 Availability; Vol. I, 7.9.3 VVPAT Requirements, Electronic and Paper Record Structure; Vol. I, 7.9.4 Equipment Security and Reliability | EVS5000_OVR00, Voting Systems Overview, Section 2.2, Quality Attributes | TDP |
| 54 | | c. | Provisions for safety, security, privacy, and continuity of operation. | 7.7 | EVS5000_OVR00, Voting Systems Overview, Section 2.2, Quality Attributes | TDP |
| 55 | | d. | Design constraints, applicable standards, and compatibility requirements. | | EVS5000_OVR00, Voting Systems Overview, Section 2.3, Design Constraints, Applicable Standards and Compatibility Requirements | TDP |
| 56 | | VII, 2.3 | System Functionality Description | | | |
| 57 | | | 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. | | EVS5000_SFD00, Section I-B, Scope | TDP |
| 58 | | | 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 This listing shall provide a simple description of each capability. Detailed specifications shall be provided in other documentation required for the TDP. | | EVS5000_SFD00, Section 2, Functional Requirements | TDP |
| 59 | | a. | The vendor shall organize the presentation of required capabilitie in a manner that corresponds to the structure and sequence of functional capabilities indicated in Volume I, Section 2. The contents of Volume I, Section 2 may be used as the basis for a checklist to indicate the specific functions provided and those not provided by the system. [see below for functional capabilities as listed in Vol. I, Sec. 2.1-2.5] | | EVS5000_SFD00, Section 2.1, Overall System Capabilities | TDP |
| 60 | | | [Vol. I, 2.1 Overall System Capabilities]: These functional capabilities apply throughout the election process. They include: | | | |
| 61 | | | 2.1.1 Security | | EVS5000_SFD00, Section 2.1.1, Security | TDP |
| 62 | | | 2.1.2 Accuracy | | EVS5000_SFD00, Section 2.1.2, Accuracy | TDP |
| 63 | | | 2.1.3 Error Recovery | | EVS5000_SFD00, Section 2.1.3, Error Recovery | TDP |
| 64 | | | 2.1.4 Integrity | | EVS5000_SFD00, Section 2.1.4, Integrity | TDP |
| 65 | | | 2.1.5 System Auditability | | EVS5000_SFD00, Section 2.1.5, System Audit | TDP |
| 66 | | | 2.1.6 Election Management System | | EVS5000_SFD00, Section 2.1.6, Election Management System | TDP |
| 67 | | | 2.1.7 Vote Tabulation | | EVS5000_SFD00, Section 2.1.7, Vote Tabulation Program | TDP |
| 68 | | | 2.1.8 Ballot Counters | | EVS5000_SFD00, Section 2.1.8, Ballot Counter | TDP |
| 69 | F | | 2.1.9 Telecommunications | | EVS5000_SFD00, Section 2.1.9, Telecommunications | TDP |

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| 70 | UCTIONA | | 2.1.10 Data Retention | see Vol. 1, 2.1.10 Data Retention; see Vol. 1, 4.1.3.2 Memory Stability; see Vol. 1, 4.1.6.1 b. Paper-Based System Processing Requirements; see Vol. 1, 4.1.6.2 c. DRE System Processing Requirements; see Vol. 1, 4.1.7.1 Removable Storage Media; see Vol. 1, 4.1.7.1 Removable Storage Media; | EVS5000_SFD00, Section 2.1.10, Data Retention | TDP |
| 71 | D | | [Vo. I, 2.2 Pre-voting Capabilities] These functional capabilities are used to prepare the voting system for voting. They include: | | | |
| 72 | E S | | 2.2.1 Ballot Preparation; 2.2.1.1 General Capabilities; 2.2.1.2 Ballot Formatting; 2.2.1.3 Ballot Production | | EVS5000_SFD00, Section 2.2.1, Ballot Preparation | TDP |
| 73 | C | | 2.2.2 Election Programming | | EVS5000_SFD00, Section 2.2.2, Election Programming | TDP |
| 74 | 1 | | 2.2.3 Ballot and Program Installation and Control | | EVS5000_SFD00, Section 2.2.3, Ballot Program Installation and Control | TDP |
| 75 | P T | | 2.2.4 Readiness Testing | | EVS5000_SFD00, Section 2.2.4, Readiness Testing | TDP |
| 76 | 0 | | 2.2.5 Verification at the Polling Place | | EVS5000_SFD00, Section 2.2.5, Verification at the Polling Place | TDP |
| 77 | N | | 2.2.6 Verification at the Central Location | | EVS5000_SFD00, Section 2.2.6, Verification at the Central Count Location | TDP |
| 78 | | | [Vol. I, 2.3 Voting Capabilities]: These capabilities include: | | | |
| 79 | | | 2.3.1 Opening the Polls; 2.3.1.1 Precinct Count Systems; 2.3.1.2 Paper-based Systems; 2.3.1.3 DRE System Requirements | | EVS5000_SFD00, Section 2.3.1, Opening the Polls | TDP |
| 80 | | | 2.3.2 Activating the Ballot (DRE Systems) | | EVS5000_SFD00, Section 2.3.2, Activating the Ballots (DRE Systems) | TDP |
| 81 | | | 2.3.3 Casting a Ballot; 2.3.3.1 Common Requirements; 2.3.3.2 Paper-based System Requirements; 2.3.3.3 DRE Requirements | | EVS5000_SFD00, Section 2.3.3, Casting a Ballot | TDP |
| 82 | | | Vol. I, 2.4 Post-voting Capabilities]: These capabilities apply after all votes have been cast. They include: | | | |
| 83 | | | 2.4.1 Closing the polls | | EVS5000_SFD00, Section 2.4.1, Closing the Polls | TDP |
| 84 | | | 2.4.2 Consolidating Vote Data | | EVS5000_SFD00, Section 2.4.2, Consolidating Vote Data | TDP |
| 85 | | | 2.4.3 Producing Reports | | EVS5000_SFD00, Section 2.4.3, Producing Reports | TDP |
| 86 | | | 2.4.4 Broadcasting Results | | EVS5000_SFD00, Section 2.4.4, Broadcasting Results | TDP |
| 87 | | | [Vol. I, 2.5 Maintenance, Transportation and Storage Capabilities]: | | | |
| 88 | | | 2.5 Maintenance, Transportation, and Storage | | EVS5000_SFD00, Section 2.5, Maintenance, Transportation and Storage | TDP |
| 89 | b |). | Additional capabilities shall be clearly indicated. They may be presented using the same structure as that used for required capabilities (i.e., overall system capabilities, pre-voting functions voting functions, post-voting functions), or may be presented in another format of the vendor's choosing. | per VVSG V2, 3.2.3, additional capabilities are those added to respond to the requirements of an individual State(s). | EVS5000_SFD00, Section 2.1.11, Additional Overall Capabilities EVS5000_SFD00, Section 2.2.7, Additional Pre-Voting Requirements EVS5000_SFD00, Section 2.3.4, Additional Voting Capabilities or Requirements EVS5000_SFD00, Section 2.4.5, Additional Post-Voting Capabilities or Requirements EVS5000_SFD00, Section 2.5.1, Additional Maintenance and Transportation Capabilities or Requirements | TDP |
| 90 | С | | Required capabilities that may be bypassed or deactivated during installation or operation by the user shall be clearly indicated. | | EVS5000_SFD00 | TDP |
| 91 | d | l. | Additional capabilities that function only when activated during installation or operation by the user shall be clearly indicated. | | EVS5000_SFD00 | TDP |
| 92 | е | | Additional capabilities that normally are active but may be bypassed or deactivated during installation or operation by the user shall be clearly indicated. | | EVS5000_SFD00 | TDP |

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| 93 | | VII, 2.4 | System Hardware Specification | | | |
| | | | The vendor shall expand on the system overview by providing detailed specifications of the hardware components of the system including specifications of hardware used to support the telecommunications capabilities of the system, if applicable. | also Vol. I, 4.1.7.2 Printers; Vol. I, 4.2.1 Size; Vol. I, 4.2.2 Weight; | EVS5000_SHS00_DS200 EVS5000_SHS00_DS850 AutoMARK_ESS_System_Hardware_Overview_AQS-18-5002-000-S AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F EVS5000_SHS00_AutoMARK01_MODELS EVS5000_SHS00_AutoMARK02_BOM EVS5000_SHS00_DS20001_BOM EVS5000_SHS00_DS85001_BOM EVS5000_SHS01_AutoMARK1.1-1.2 BOM EVS5000_SHS01_AutoMARK1.3 BOM | |
| 94 | | | | | CABLE_PHASE2 SK\$09175-LA SK\$09177-L- SK\$09618_SIP_B PEB_RevB PSB_RevB SBC_640117-4000C-2AGP Scanner_P1211MC-B4DR May04 SD_GGB_REV_A SIB_A3 USD-A-SCH | TDP |
| 95 | | VII, 2.4.1 | System Hardware Characteristics | | | |
| 96 | S Y S T | , | The vendor shall provide a detailed discussion of the characteristics of the system, indicating how the hardware meets individual requirements defined in Volume I, Section 4, including | Vol. 1, 4.1-4.1.8.2 Performance Requirements; Vol. 1, 3.4.2 Durability :: | | |
| 97 | E M H A | a. | Performance characteristics: This discussion addresses basic system performance attributes and operational scenarios that describe the manner in which system functions are invoked, describe environmental capabilities, describe life expectancy, and describe any other essential aspects of system performance. | | EVS5000_SHS00_DS200, Section 1.2, System Performance Characteristics Overview EVS5000_SHS00_DS850, Section 1.2, System Performance Characteristics Overview AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 1A, Performance Characteristics | TDP |
| 98 | R D W | b. | Physical characteristics: This discussion addresses suitability for intended use, requirements for transportation and storage, health and safety criteria, security criteria, and vulnerability to adverse environmental factors. | also Vol. I, 4.2-4.2.2 Hdw. Physical Characteristics Vol. I, 4.2.3 b.ii Transport and Storage of Precinct Systems | EVS5000_SHS00_DS200, Section 1.3, System Physical Characteristics Overview EVS5000_SHS00_DS850, Section 1.3, System Physical Characteristics Overview AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 1B, Physical Characteristics | TDP |
| 99 | R E | c. | Reliability: This discussion addresses system and component reliability stated in terms of the system's operating functions, and identification of items that require special handling or operation to sustain system reliability. | Vol. I, 4.3.3 Reliability | EVS5000_SHS00_DS200, Section 1.4, System Reliability Overview EVS5000_SHS00_DS850, Section 1.4, System Reliability Overview AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 1D, Reliability | TDP |
| 100 | C H A R A C T E R | d. | Maintainability:Maintainability represents the ease with which maintenance actions can be performed based on the design characteristics of equipment and software and the processes the vendor and election officials have in place for preventing failures and for reacting to failures. Maintainability includes the ability of equipment and software to self-diagnose problems and make non-technical election workers aware of a problem. Maintainability also addresses a range of scheduled and unscheduled events. | Vol. I, 4.3.4-4.3.4.2 Maintainability | EVS5000_SHS00_DS200, Section 1.5, System Maintainability Overview EVS5000_SHS00_DS850, Section 1.5, System Maintainability Overview AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 1E, Maintainability | TDP |
| 101 | S T C S | e. VII, 2.4.2 | Environmental conditions: This discussion addresses the ability of the system to withstand natural environments, and operational constraints in normal and test environments, including all requirements and restrictions regarding electrical service, telecommunications services, environmental protection, and any additional facilities or resources required to install and operate the system. Design and Construction | Vol. I, 4.1.2-4.1.2.15 Environ. Requirements | EVS5000_SHS00_DS200, Section 1.6, System Environmental Characteristics Overview EVS5000_SHS00_DS850, Section 1.6, System Environmental Characteristics Overview AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 1H, Environmental Conditions | TDP |

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| | | The vendor shall provide sufficient data, or references to data, to | | EVS5000_SHS00_DS200, Section 3, Design and Construction | |
| | | identify unequivocally the details of the system configuration | Maintenance Characteristics | EVS5000_SHS00_DS850, Section 3, Design and Construction | TDP |
| 03 | | submitted for testing. | | AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 2, Design and Constuction | |
| 4 | | The vendor shall provide a list of materials and components used | | EVS5000_SHS00_DS200, Section 3, Design and Construction | |
| | | in the system and a description of their assembly into major | | EVS5000_SHS00_DS850, Section 3, Design and Construction | TDP |
| | | system components and the system as a whole. Paragraphs and | | AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 2, Design and Constuction | IDP |
|)4 | | diagrams shall be provided that describe: | | | |
| | a. | Materials, processes, and parts used in the system, their assembly, and the configuration control measures to ensure | | EVS5000_SHS00_DS200, Section 2.3.1 Materials , Processes and Parts EVS5000_SHS00_DS850, Section 2.3.1 Materials , Processes and Parts | |
| | | compliance with the system specification. | | AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 2A, Materials, Processes, and Parts | TDP |
|)5 | | compilated with the system specification. | | The state of the s | |
| _ | b. | The electromagnetic environment generated by the system. | | EVS5000_SHS00_DS200, Section 2.1.2, Environmental Requiremnts | |
| | | | | EVS5000_SHS00_DS850, Section 2.1.2, Environmental Requiremnts | TDP |
| ,, | | | | AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 1H, Environmental Conditions | 151 |
| 6 | - | Operator and voter safety considerations, and any constraints on | | EVS5000 SHS00 DS200, Section 2.3.8, Safety | |
| | · . | system operations or the use environment. | | EVS5000_SHS00_DS850, Section 2.3.8, Safety | |
| | | -y | | AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 2C, Operator and Voter Safety Conditions | TDP |
| | | | | | |
|)7 | | | | | |
| | d. | Human factors considerations, including provisions for access by | | EVS5000_SHS00_DS200, Section 1.3, System Physical Characteristics Overview | |
| | | disabled voters. | | N/ A- DS850 AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 2D, Human Engineering Considerations | TDP |
| 8 | | | | AutoMARK_ESS_System_matdware_specification_AQS-16-3000-001-r, Section 2D, riuman Engineering Considerations | |
| 9 | VII, 2.5 | Software Design and Specification | | | |
| | | The vendor shall expand on the system overview by providing | | AutoMARK ESS Ballot Image Processing Specification AQS-18-5002-003-S.pdf | |
| | | detailed specifications of the software components of the system | | AutoMARK ESS Ballot Scanning and Printing Specification AQS-18-5002-007-S.pdf | |
| | | including software used to support the telecommunications | | AutoMARK ESS Driver API Specification AQS-18-5000-002-F.pdf | |
| | | capabilities of the system, if applicable. | | AutoMARK ESS Embedded Database Interface Specifications AQS-18-5002-005-S AutoMARK ESS GUI Design Specifications AQS-18-5001-005-R | |
| | | | | AutoMARK ESS Operating Software Design Specifications AQS-18-5001-002-R | |
| | | | | AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5002-004-S | |
| | | | | AutoMARK ESS Programming Specifications Details AQS-18-5001-011-R | |
| | | | | AutoMARK ESS Software Design Spec AQS-18-5001-004-S | |
| | | | | AutoMARK ESS Software Development Environment AQS-18-5001-006-R | |
| | | | | AutoMARK ESS Software Diagnostics Specifications AQS-18-5000-004-F | |
| | | | | AutoMARK ESS Software Standards Specification AQS-18-4000-000-S ESSSYS_D_D_0100_Coding Standards | |
| | | | | ESSSYS_SG_P_1000_SystemDevProgram | |
| | | | | EVS5000 SDS00 AutoMARK SDS Overview | |
| | | | | EVS5000_SDS00_DS200 | |
| | | | | EVS5000_SDS00_DS20001_Flowcharts | |
| | | | | EVS5000_SDS00_DS20002_Reports | TDP |
| l . | | | | EVS5000_SDS00_DS20005_System Messages EVS5000_SDS00_DS20006_Results Media XMLs | |
| | | | | EVS5000_SDS00_DS850 EVS5000 SDS00 DS850 | |
| | | | | EVS5000_SDS00_ElectionWare | |
| | | | | EVS5000_SDS00_ElectionWare01_EW Specification and Interfaces | |
| | | | | EVS5000_SDS00_ElectionWare02_PB Specification and Interfaces | |
| | | | | EVS5000_SDS00_ElectionWare05_System Process Flowchart | |
| | | | | EVS5000_SDS00_ElectionWare07_PostGreSQL Description | |
| | | | | EVS5000_SDS00_ElectionWare08_Reports EVS5000_SDS00_ElectionWare11_DS200 and DS850 Media Desc | |
| | | | | EVS5000_SDS00_ElectionWare12_AutoMARK Media Description and Structure | |
| | | | | | |
| | | | | EVS5000_SDS00_ElectionWare13_ERM Media Description | |
| | | | | | |
| | | | | EVS5000_SDS00_ElectionWare13_ERM Media Description EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ERM | |
| | | | | EVS5000_SDS00_ElectionWare13_ERM Media Description EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ERM EVS5000_SDS00_ERM01_Appendices | |
| 0 | | | | EVS5000_SDS00_ElectionWare13_ERM Media Description EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ERM | |

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| 112 | | The vendor shall describe the function or functions that are performed by the software programs that comprise the system, including software used to support the telecommunications capabilities of the system, if applicable. | EVS EVS EVS | S5000_SDS00_AutoMARK SDS Overview, Section 2.5.1, Purpose and Scope S5000_SDS00_DS200, Section 2.5.1, Purpose and Scope S5000_SDS00_DS850, Section 1, Purpose and Scope S5000_SDS00_ElectionWare, Section 1, Purpose and Scope S5000_SDS00_ERM, Section 1, Purpose and Scope S5000_SDS00_UELS, Section 1, Purpose and Scope | TDP |
| 113 | VII, 2.5.2 | Applicable Documents | | | |
| 114 | | The vendor shall list all documents controlling the development of the software and its specifications. Documents shall be listed in order of precedence. | EVS EVS EVS | \$5000_SDS00_AutoMARK SDS Overview, Section 2.5.2, Applicable Documents \$5000_SDS00_DS200, Section 2.5.2, Applicable Documents \$5000_SDS00_DS850, Section 2., Applicable Documents \$5000_SDS00_ElectionWare, Section 2, Applicable Documents \$5000_SDS00_ERM, Section 2, Applicable Documents \$5000_SDS00_ERM, Section 2, Applicable Documents \$5000_SDS00_UELS, Section 2, Applicable Documents | TDP |
| 115 | VII, 2.5.3 | Software Overview | | | |
| 116 | | The vendor shall provide an overview of the software that includes the following items: | | | |
| 117 | a. | A description of the software system concept, including specific software design objectives, and the logic structure and algorithms used to accomplish these objectives. | EVS EVS EVS | S5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.A, System Software Concept S5000_SDS00_DS200, Section 2.5.3.1, System Software Concept S5000_SDS00_DS850, Section 3.1, System Software Concept S5000_SDS00_ElectionWare, Section 3.1, System Software Concept S5000_SDS00_ERM, Section 3.1, System Software Concept S5000_SDS00_UELS, Section 3.1, System Software Concept | TDP |
| | b. | The general design, operational considerations, and constraints influencing the design of the software. | EVS EVS EVS EVS | S5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.B, General Design, Operational S5000_SDS00_DS200, Section 2.5.3.2, General Design S5000_SDS00_DS850, Section 3.2, General Design S5000_SDS00_ElectionWare, Section 3.4, General Design S5000_SDS00_ERM, Section 3.2, General Design S5000_SDS00_UELS, Section 3.2, General Design | TDP |
| 118 | c. | Identification of all software items, indicating items that were: | EVS EVS EVS | S5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.C, Software Items S5000_SDS00_DS200, Section 2.5.3.3, Software Identification S5000_SDS00_DS850, Section 3.5, Software Items S5000_SDS00_ElectionWare, Section 3.7, Software Item Identification S5000_SDS00_ERM, Section 3.5, Software Items S5000_SDS00_UELS, Section 3.5, Software Items | TDP |
| 120 | | 1) Written in-house | EVS EVS EVS | S5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.C, Software Items S5000_SDS00_DS200, Section 2.5.3.3, Software Identification S5000_SDS00_DS850, Section 3.5, Software Items S5000_SDS00_ElectionWare, Section 3.7, Software Item Identification S5000_SDS00_ERM, Section 3.5, Software Items S5000_SDS00_UELS, Section 3.5, Software Items | TDP |
| 121 | | 2) Procured and not modified | EVS EVS EVS | S5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.C, Software Items S5000_SDS00_DS200, Section 2.5.3.3, Software Identification S5000_SDS00_DS850, Section 3.5, Software Items S5000_SDS00_ElectionWare, Section 3.7, Software Item Identification S5000_SDS00_ERM, Section 3.5, Software Items S5000_SDS00_UELS, Section 3.5, Software Items | TDP |
| 122 | | Procured and modified, including descriptions of the modifications to the software and to the default configuration options. | EVS EVS EVS | S5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.C, Software Items S5000_SDS00_DS200, Section 2.5.3.3, Software Identification S5000_SDS00_DS850, Section 3.5, Software Items S5000_SDS00_ElectionWare, Section 3.7, Software Item Identification S5000_SDS00_ERM, Section 3.5, Software Items S5000_SDS00_UELS, Section 3.5, Software Items | TDP |
| 123 | d. | Additional information for each item that includes: | | | |

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| | | | 1) Item identification | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.D, Additional Item Information EVS5000_SDS00_DS200, Section 2.5.3.4, Additional Information EVS5000_SDS00_DS850, Section 3.6, Additional Item Information EVS5000_SDS00_ElectionWare, Section 3.8, Additional Item Identification EVS5000_SDS00_ERM, Section 3.6, Additional Item Information | TDP |
| 124 | | | General description | | EVS5000_SDS00_UELS, Section 3.6, Additional Item Information EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.D, Additional Item Information EVS5000_SDS00_DS200, Section 2.5.3.4, Additional Information EVS5000_SDS00_DS850, Section 3.6, Additional Item Information EVS5000_SDS00_EDRM, Section 3.6, Additional Item Information EVS5000_SDS00_ERM, Section 3.6, Additional Item Information | TDP |
| 125 | | | Software requirements performed by the item | | EVS5000_SDS00_UELS, Section 3.6, Additional Item Information EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.D, Additional Item Information | |
| 126 | | | | | EVS5000_SDS00_DS200, Section 2.5.3.4, Additional Information EVS5000_SDS00_DS850, Section 3.6, Additional Item Information EVS5000_SDS00_ElectionWare, Section 3.8, Additional Item Identification EVS5000_SDS00_ERM, Section 3.6, Additional Item Information EVS5000_SDS00_UELS, Section 3.6, Additional Item Information | TDP |
| 127 | | | Identification of interfaces with other items that provide data to, or receive data from, the item | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.E, Item Interface Identification EVS5000_SDS00_DS200, Section 2.5.9.1, Interface Identification EVS5000_SDS00_DS850, Section 3.7, Item Interface Identification EVS5000_SDS00_ELectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 3.7, Item Interface Identification EVS5000_SDS00_UELS, Section 3.7, Item Interface Identification | TDP |
| 128 | | | 5) Concept of execution for the item | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.F, Concept of Execution EVS5000_SDS00_DS200, Section 2.5.3, Software Overview EVS5000_SDS00_DS850, Section 3.8, Concept of Execution EVS5000_SDS00_ElectionWare, Section 3.8, Additional Item Identification EVS5000_SDS00_ERM, Section 3.8, Concept of Execution EVS5000_SDS00_UELS, Section 3.8, Concept of Execution | TDP |
| 129 | | | The vendor shall also include a certification that procured software items were obtained directly from the manufacturer or a licensed dealer or distributor. | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.G, Procured Item Certification EVS5000_SDS00_DS200, Section 2.5.3.5, Certifications EVS5000_SDS00_DS850, Section 3.11, Procured Item Certification EVS5000_SDS00_ElectionWare, Section 3.9, Certificate of Procured Item Certification EVS5000_SDS00_ERM, Section 3.9, Procured Item Certification EVS5000_SDS00_UELS, Section 3.9, Procured Item Certification | TDP |
| 130 | V | /II, 2.5.4 | Software Standards and Conventions | | | |
| | | | The vendor shall provide information that can be used by an accredited test lab or state certification board to support software analysis and test design. The information shall address standards and conventions developed internally by the vendor as well as published industry standards that have been applied by the vendor. The vendor shall provide information that addresses the following standards and conventions: | | | |
| 131 | a | | Software System development methodology. | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.4.A, Software System Development Meth EVS5000_SDS00_DS200, Section 2.5.4. Software Standards and Conventions EVS5000_SDS00_DS850, Section 4.1, Software System Development Methodology EVS5000_SDS00_ElectionWare, Section II.A, Software Development Methodology EVS5000_SDS00_ERM, Section 4.1, Software System Development Methodology EVS5000_SDS00_UELS, Section 4.1, Software System Development Methodology | TDP |

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| 133 | t | b. | Software design standards, including internal vendor procedures. | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.4.B, Software Design Standards, Including EVS5000_SDS00_DS200, Section 2.5.4, Software Standards and Conventions EVS5000_SDS00_DS850, Section 4.2, Software Design Standards, Including Vender Procedures EVS5000_SDS00_ElectionWare, Section 3.12, Software Design Standards, Including Vender Procedures EVS5000_SDS00_ERM, Section 4.2, Software Design Standards, Including Vender Procedures EVS5000_SDS00_UELS, Section 4.2, Software Design Standards, Including Vender Procedures | TDP |
| 134 | d | е. | Software specification standards, including internal vendor procedures. | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.4.C, Software Specification Standards EVS5000_SDS00_DS200, Section 2.5.4, Software Standards and Conventions EVS5000_SDS00_DS850, Section 4.3, Software Specification Standards EVS5000_SDS00_ElectionWare, Section 3.13, Software Specification Standards (All Modules) EVS5000_SDS00_ERM, Section 4.3, Software Specification Standards EVS5000_SDS00_UELS, Section 4.3, Software Specification Standards | TDP |
| 135 | C | d. | Software coding standards, including internal vendor procedures. | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.4.D, Software Coding Standards EVS5000_SDS00_DS200, Section 2.5.4, Software Standards and Conventions EVS5000_SDS00_DS850, Section 4.4, Software Coding Standards EVS5000_SDS00_ElectionWare, Section 3.14, Software Coding Standards (All Modules) EVS5000_SDS00_ERM, Section 4.4, Software Coding Standards EVS5000_SDS00_UELS, Section 4.4, Software Coding Standards EVS5000_SDS00_UELS, Section 4.4, Software Coding Standards | TDP |
| 136 | e | е. | Testing and verification standards, including internal vendor procedures, that can assist in determining the program's correctness and ACCEPT/REJECT criteria. | also Vol. I, 5.2.6 Software Design and Coding Standards, Coding Conventions | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.4.E, Test and Verification Standards EVS5000_SDS00_DS200, Section 2.5.4, Software Standards and Conventions EVS5000_SDS00_DS850, Section 4.5, Test and Verification Standards EVS5000_SDS00_ElectionWare, Section 3.15, Test and Verification Standards (All Modules) EVS5000_SDS00_ERM, Section 4.5, Test and Verification Standards EVS5000_SDS00_UELS, Section 4.5, Test and Verification Standards EVS5000_SDS00_UELS, Section 4.5, Test and Verification Standards | TDP |
| 137 | f | f. | Quality assurance standards or other documents that can be used to examine and test the software. These documents include standards for program flow and control charts, program documentation, test planning, and test data acquisition and reporting. | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.4.F, Quality Assurance Standards EVS5000_SDS00_DS200, Section 2.5.4, Software Standards and Conventions EVS5000_SDS00_DS850, Section 4.6, Quality Assurance Standards EVS5000_SDS00_ElectionWare, Section 3.16, Quality Assurance Standards (All Modules) EVS5000_SDS00_ERM, Section 4.6, Quality Assurance Standards EVS5000_SDS00_UELS, Section 4.6, Quality Assurance Standards | TDP |
| 138 | 7 | VII, 2.5.5 | Software Operating Environment | | | |
| 139 | | | This section shall describe or make reference to all operating environment factors that influence the software design. | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.1, Purpose and Scope EVS5000_SDS00_DS200, Section 2.5.1, Purpose and Scope EVS5000_SDS00_DS850, Section 1, Purpose and Scope EVS5000_SDS00_ElectionWare, Section 1, Purpose and Scope EVS5000_SDS00_ERM, Section 1, Purpose and Scope EVS5000_SDS00_UELS, Section 1, Purpose and Scope | TDP |
| 140 | 5 | VII, 2.5.5.1 | Hardware Environment and Constraints | | | |
| 141 | | | The vendor shall identify and describe the hardware characteristics that influence the design of the software, such as: | | | |
| 142 | 2 | a. | The logic and arithmetic capability of the processor | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.5.1, Hardware Environment and Constraints EVS5000_SDS00_DS200, Section 2.5.5.1, Hardware Environment and Constraints EVS5000_SDS00_DS850, Section 5.1, Hardware Environment and Constraints EVS5000_SDS00_ElectionWare, Section 4.1, Hardware Environment and Constraints EVS5000_SDS00_ERM, Section 5.1, Hardware Environment and Constraints EVS5000_SDS00_UELS, Section 5.1, Hardware Environment and Constraints | TDP |

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| | b. | | Memory read-write characteristics | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.5.1, Hardware Environment and Constraints EVS5000_SDS00_DS200, Section 2.5.5.1, Hardware Environment and Constraints | |
| | | | | | EVS5000_SDS00_DS850, Section 5.1, Hardware Environment and Constraints | mp.p |
| | | | | | EVS5000_SDS00_ElectionWare, Section 4.1, Hardware Environment and Constraints EVS5000_SDS00_ERM, Section 5.1, Hardware Environment and Constraints | TDP |
| | | | | | EVS5000_SDS00_UELS, Section 5.1, Hardware Environment and Constraints | |
| 143 | | | | | | |
| | c. | | External memory device characteristics | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.5.1, Hardware Environment and Constraints | |
| | | | | | EVS5000_SDS00_DS200, Section 2.5.5.1, Hardware Environment and Constraints | |
| | | | | | EVS5000_SDS00_DS850, Section 5.1, Hardware Environment and Constraints EVS5000_SDS00_ElectionWare, Section 4.1, Hardware Environment and Constraints | TDP |
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| | | | | | EVS5000_SDS00_UELS, Section 5.1, Hardware Environment and Constraints | |
| 144 | | | | | | |
| | d. | | Peripheral device interface hardware | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.5.1, Hardware Environment and Constraints | |
| | | | | | EVS5000_SDS00_DS200, Section 2.5.5.1, Hardware Environment and Constraints | |
| | | | | | EVS5000_SDS00_DS850, Section 5.1, Hardware Environment and Constraints EVS5000_SDS00_ElectionWare, Section 4.1, Hardware Environment and Constraints | TDP |
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| 145 | | | | | | |
| | e. | | Data input/output device protocols | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.5.1, Hardware Environment and Constraints | |
| | | | | | EVS5000_SDS00_DS200, Section 2.5.5.1, Hardware Environment and Constraints | |
| | | | | | EVS5000_SDS00_DS850, Section 5.1, Hardware Environment and Constraints EVS5000_SDS00_ElectionWare, Section 4.1, Hardware Environment and Constraints | TDD |
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| | | | | | EVS5000_SDS00_UELS, Section 5.1, Hardware Environment and Constraints | |
| 146 | | | | | | |
| | f. | | Operator controls, indicators, and displays | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.5.1, Hardware Environment and Constraints | |
| | | | | | EVS5000_SDS00_DS200, Section 2.5.5.1, Hardware Environment and Constraints | |
| | | | | | EVS5000_SDS00_DS850, Section 5.1, Hardware Environment and Constraints EVS5000_SDS00_ElectionWare, Section 4.1, Hardware Environment and Constraints | TDD |
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| | | | | | EVS5000_SDS00_UELS, Section 5.1, Hardware Environment and Constraints | |
| 147 | | | | | | |
| 148 | VII, 2 | 2.5.5.2 | Software Environment | | | |
| | | | The vendor shall identify the compilers or assemblers used in the | Vol. I, 9.7.1b Physical Configuration Audit | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.5.2, Compilers / Assemblers | |
| | | | generation of executable code, and describe the operating system or system monitor. | | EVS5000_SDS00_DS200, Section 2.5.5.2, Software Environment EVS5000_SDS00_DS850, Section 5.2.1, Compilers / Assemblers | |
| | | | or system monitor. | | EVS5000_SDS00_ElectionWare, Section 4.2, Software Environment | TDP |
| | | | | | EVS5000_SDS00_ERM, Section 5.2.1, Compilers / Assemblers | 121 |
| | | | | | EVS5000_SDS00_UELS, Section 5.2.1, Compilers / Assemblers | |
| 149 | | | | | | |
| 150 | VII, V | VII, 2.5.6 | Software Functional Specification | | THORSON OPENS A CHARLES OF A SECTION OF THE SECTION | |
| | | | The vendor shall provide a description of the operating modes of the system and of software capabilities to perform specific | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.1, Configuration and Operating Modes EVS5000_SDS00_DS200, Section 2.5.6.1, Configurations and Operating Modes | |
| | | | functions. | | EVS5000_SDS00_DS200, Section 6.1, Configurations and Operating Modes | |
| | | | | | EVS5000_SDS00_ElectionWare, Section 5.1, Operating Modes | TDP |
| | | | | | EVS5000_SDS00_ERM, Section 6.1, Configurations and Operating Modes | |
| 454 | | | | | EVS5000_SDS00_UELS, Section 6.1, Configurations and Operating Modes | |
| 151 152 | VIII A | 2.5.6.1 | Configuration and Operating Modes | | | |
| 102 | V 11, 2 | 4.3.0.1 | The vendor shall describe all software configurations and | | EVS5000 SDS00 AutoMARK SDS Overview, Section 2.5.6.1, Configuration and Operating Modes | |
| | | | operating modes of the system, such as ballot preparation, | | EVS5000_SDS00_DS200, Section 2.5.6.1, Configurations and Operating Modes | |
| | | | election programming, preparation for opening the polling place, | | EVS5000_SDS00_DS850, Section 6.1, Configurations and Operating Modes | |
| | | | recording votes and/or counting ballots, closing the polling place, | | EVS5000_SDS00_ElectionWare, Section 5.1, Operating Modes | TDP |
| | | | and generating reports. For each software function or operating | | EVS5000_SDS00_ERM, Section 6.1, Configurations and Operating Modes | |
| 450 | | | mode, the vendor shall provide: | | EVS5000_SDS00_UELS, Section 6.1, Configurations and Operating Modes | |
| 153 | | | | | | |

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| 154 | a. | | A definition of the inputs to the function or mode (with characteristics, tolerances or acceptable ranges, as applicable). | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.1, Configuration and Operating Modes EVS5000_SDS00_DS200, Section 2.5.6.1, Configurations and Operating Modes EVS5000_SDS00_DS850, Section 6.1, Configurations and Operating Modes EVS5000_SDS00_ElectionWare, Section 5.1, Operating Modes EVS5000_SDS00_ERM, Section 6.1, Configurations and Operating Modes EVS5000_SDS00_UELS, Section 6.1, Configurations and Operating Modes | TDP |
| 155 | b. | | An explanation of how the inputs are processed. | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.1, Configuration and Operating Modes EVS5000_SDS00_DS200, Section 2.5.6.1, Configurations and Operating Modes EVS5000_SDS00_DS850, Section 6.1, Configurations and Operating Modes EVS5000_SDS00_ElectionWare, Section 5.1, Operating Modes EVS5000_SDS00_ERM, Section 6.1, Configurations and Operating Modes EVS5000_SDS00_UELS, Section 6.1, Configurations and Operating Modes | TDP |
| 156 | c. | | A definition of the outputs produced (again, with characteristics, tolerances, or acceptable ranges, as applicable). | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.1, Configuration and Operating Modes EVS5000_SDS00_DS200, Section 2.5.6.1, Configurations and Operating Modes EVS5000_SDS00_DS850, Section 6.1, Configurations and Operating Modes EVS5000_SDS00_ElectionWare, Section 5.1, Operating Modes EVS5000_SDS00_ERM, Section 6.1, Configurations and Operating Modes EVS5000_SDS00_UELS, Section 6.1, Configurations and Operating Modes | TDP |
| 157 | VII, 2 | 2.5.6.2 | Software Functions | | | |
| 158 | | | The vendor shall describe the software's capabilities or methods for detecting or handling: | | | |
| | a. | | Exception conditions | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.2.a, Exception Conditions EVS5000_SDS00_DS200, Section, Section 2.5.6.2., Software Functions EVS5000_SDS00_DS850, Section 6.3.1, Exception Condition EVS5000_SDS00_ElectionWare, Section 5.2.1, Exception Conditions (All Modules) EVS5000_SDS00_ERM, Section 6.2.1, Exception Conditions EVS5000_SDS00_UELS, Section 6.2.1, Exception Conditions | TDP |
| 159 | b. | | System failures | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.2.b, System Failures EVS5000_SDS00_DS200, Section, Section 2.5.6.2. Software Functions EVS5000_SDS00_DS850, Section 6.3.2, System Failures EVS5000_SDS00_ElectionWare, Section 5.2.2, System Failures (All Modules) EVS5000_SDS00_ERM, Section 6.2.2, System Failures EVS5000_SDS00_UELS, Section 6.2.2, System Failures | TDP |
| 161 | c. | | Data input/output errors | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.2.c, Data Input / Output Errors EVS5000_SDS00_DS200, Section, Section 2.5.6.2.c, Software Functions EVS5000_SDS00_DS850, Section 6.3.3, Data Input/Output Errors EVS5000_SDS00_ElectionWare, Section 5.2.3, Data Input/Output Errors EVS5000_SDS00_ERM, Section 6.2.3, Data Input/Output Errors EVS5000_SDS00_UELS, Section 6.2.3, Data Input/Output Errors | TDP |
| | d. | | Error logging for audit record generation | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.2.d, Error Logging for Audit Record Generation EVS5000_SDS00_DS200, Section, Section 2.5.6.2, Software Functions EVS5000_SDS00_DS850, Section 6.3.4, Error Logging for Audit Record Generation EVS5000_SDS00_ElectionWare, Section 5.2.4, Error Logging for Audit Record Generation EVS5000_SDS00_ERM, Section 6.2.4, Error Logging for Audit Record Generation EVS5000_SDS00_UELS, Section 6.2.4, Error Logging for Audit Record Generation | TDP |
| 162 | e. | | Production of statistical ballot data | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.2.e, Production of Statistical Ballot Data EVS5000_SDS00_DS200, Section, Section 2.5.6.2., Software Functions EVS5000_SDS00_DS850, Section 6.3.5, Production of Statistical Ballot Data EVS5000_SDS00_ElectionWare, Section 5.2.5, Production of Statistical Ballot Data EVS5000_SDS00_ERM, Section 6.2.5, Production of Statistical Ballot Data EVS5000_SDS00_UELS, Section 6.2.5, Production of Statistical Ballot Data | TDP |

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| EVASION ANNUAL Relation Variety Section 2.5.2, Data Quality Assessment Tip | | | | | | | |
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| ENSIGN SERVE SERVE SEA Security Mentioning and Control (All Modules) TDP | 104 | o | 7 | Security monitoring and control | | EVS5000 SDS00 AutoMARK SDS Overview Section 2.5.6.2 or Security Monitoring and Control | |
| PU-5500, 25500, 1850, Section 8.3.7, Security Monitoring and Control | | ь | •• | becamy monitoring and control | | | |
| EVSSION_SERVED_BectureWare, Section 5.27, Security Monitoring and Control (All Modules) | | | | | | | |
| EVSSORD_SERON_ERM. Section a 2.7, Security Mentificing and Control | | | | | | | TDP |
| PS-5000_SDS01_UELS, Section 6.27, Security Munitering and Control Programming Specifications Prog | | | | | | | 1101 |
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| Tile State | 165 | | | | | E 155000_5EE55, Section 0.2.7, Security Monitoring and Condor | |
| software design, in structures, and implementation algorithms and detailed specifications for individual software modules. PSYS000_SDS000_DESS00_SECTION_Programming Specifications PSYS000_SDS000_DESS00_SECTION_Programming Specifications PSYS000_SDS000_DESS00_DESS00_DESS0000_DESS000DESS0000_DESS000DESS0000_DESS000DESS0000DESS0000DESS000DESS000DES | | 7 | VII, 2.5.7 | Programming Specifications | | | |
| betailed specifications for individual software modules. EVSSOOD, SESSOU DESSON, Decision 7, Programming Specifications EVSSOOD, SESSOU Electricol Was, Section 6, Programming Specifications EVSSOOD, SESSOU Electricol Was, Section 6, Programming Specifications EVSSOOD, SESSOU DESS, Section 7, Programming Specifications EVSSOOD, SESSOU DESS, Section 8, Section 2.5.7, Programming Specifications EVSSOOD, SESSOU DESS, Section 8, Programming Specifications EVSSOOD, SESSOU DESS, Section 8, Programming Specifications EVSSOOD, SESSOU DESS, Section 8, Programming Specifications EVSSOOD, SESSOU DESS, Section 7, Programming Specifications EVSSOOD, SESSOU DESS, Section | | _ | | | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications | |
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| 168 VII. 25.7.1 Programming Specifications Overview Programming Specifications Programming Sp | 167 | | | | | | |
| diagrams, and other graphical techniques that facilitate understanding of the programming specifications. This section EV\$5000, SD800, DS800, DS800, DS800, Section, Programming Specifications Intuctioning of the individual software modules. Intuitioning of the internal function of the functions shall be described in terms of the software architecture, algorithms, and data structures. VII, 2.5.7.2 Programming Specifications betalfs The programming Specifications shall described in terms of the software architecture, algorithms, and data structures. VII, 2.5.7.2 Programming Specifications shall described in terms of the software architecture, algorithms, and data structures. VII, 2.5.7.2 Programming Specifications shall describe individual of the programming specifications of the programming specifications EV\$5000, SIS000, JUS200, Section, Section 2.5.7, Programming Specifications EV\$5000, SIS000, JUS200, Section, Section 2.5.7, Programming Specifications TDP EV\$5000, SIS000, JUS200, Section, Section 7, Programming Specifications EV\$5000, SIS000, JUS200, Section, Section 7, Programming Specifications EV\$5000, SIS000, JUS200, Section, Section 7, Programming Specifications EV\$5000, SIS000, JUS200, Section, Section 2.5.7, Programming Specifications EV\$5000, SIS000, JUS200, Section, Section 2.5.7, Programming Specifications EV\$5000, SIS000, JUS200, Section, Section 2.5.7, Programming Specifications EV\$5000, SIS000, | | 7 | VII, 2.5.7.1 | Programming Specifications Overview | | | |
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| shall be prepared to facilitate undenstanding of the internal functioning of the individual software modules and software modules and and surveures. 171 | | | | diagrams, and other graphical techniques that facilitate | | EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview | |
| functioning of the individual software modules. Implementation of the functions shall be described in terms of the software architecture, algorithms, and data structures. VII, 2.5.7.2 Programming Specifications ball bed sectived in terms of the software modules and their component units. If applicable. For each module and unit, the vendor shall provide the following information: | | | | understanding of the programming specifications. This section | | EVS5000_SDS00_DS850, Section 7, Programming Specifications | |
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| of the functions shall be described in terms of the software architecture, algorithms, and data structures. VII, 2.5.7.2 Programming Specifications Details The programming specifications Details The programming specifications Details The programming specifications Details The programming specifications durit, the vendor shall provide the following information: a. Module and unit design decisions, if any, such as algorithms uses EV\$500_\$108.00_ | | | | functioning of the individual software modules. Implementation | | EVS5000 SDS00 ERM, Section 7, Programming Specifications | |
| architecture, algorifums, and data structures. VII, 2.5.7.2 Programming Specifications Details The programming specifications shall describe individual software modules and their component units, if applicable. For each module and unit design decisions, if any, such as algorifums use. EV\$5000_SDS00_DAS00_DSS | | | | | | EVS5000 SDS00 UELS, Section 7. Programming Specifications | |
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| software modules and their component units, if applicable. For each module and unit, the vendor shall provide the following information: a. Module and unit design decisions, if any, such as algorithms used EV\$5000_SD\$00_D\$200_Section, Section 2.5.71, Programming Specifications Verview EV\$500_SD\$00_D\$200_Section, Section 7, Programming Specifications Verview EV\$500_SD\$00_UELS, Section 7, Programming Specifications Verview Section 5, Programming Specifications Verview Section 7, Programming Specifications EV\$500_SD\$00_UELS, Section 7, Programming Specifications EV\$500_SD\$00_UELS, Section 7, Programming Specifications EV\$500_SD\$00_UELS, Section 7, Programming Specifications EV\$500_SD\$00_D\$00_SD\$00_D\$00_D\$00_SEV\$00_SEV\$00_SD\$00_D\$00_SEV\$00_SEV\$00_SD\$00_D\$00_SEV\$00_SEV\$00_SD\$00_D\$00_SEV\$00_SEV\$00_SEV\$00_SD\$00_SEV\$00 | | 7 | VII, 2.5.7.2 | - | | | |
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| a. Module and unit design decisions, if any, such as algorithms used EV\$5000_SDS00_DSS00_Section, Section 2.5.7.1, Programming Specifications EV\$5000_SDS00_DSS00_SDS00_DSS00_Section, Section 3.5.7.1, Programming Specifications EV\$5000_SDS00_DSS00_SDS00_DSS00_SDS00_SEction, Programming Specifications EV\$5000_SDS00_ElectionWare, Section 6, Programming Specifications EV\$5000_SDS00_UELS, Section 7, Programming Specifications EV\$5000_SDS00_DSS00_DSS00_DSS00_SDS00_DSS00_SECTION, Section 2.5.7, Programming Specifications EV\$5000_SDS00_DSS00_DSS00_DSS00_DSS00_DSS00_SECTION, Section 2.5.7.1, Programming Specifications EV\$5000_SDS00_DSS00_DSS00_DSS00_DSS00_DSS00_SSCTION, Programming Specifications EV\$5000_SDS00_DSS00_DSS00_DSS00_DSS00_DSS00_SSCTION, Programming Specifications EV\$5000_SDS00_DSS00_DSS00_DSS00_DSS00_DSS00_SSCTION, Programming Specifications EV\$5000_SDS00_DSS00_ | | | | each module and unit, the vendor shall provide the following | | | |
| EVS500_SDS0_DSS0_SDS0_DSS0_Section 2.5.7.1. Programming Specifications Overview EVS500_SDS0_DSS0_DSS0_SDS0_DSS0_SDS0_DSS0_SECTION 7. Programming Specifications EVS500_SDS0_DSS0_SDS0_DSS0_SDS0_DSS0_SDS0_DSS0_SDS0 | 171 | | | information: | | | |
| EVS500_SDS00_Election 7, Programming Specifications EVS500_SDS00_Election 7, Programming Specifications EVS500_SDS00_Election 8 EVS500_SDS00_Election 7, Programming Specifications EVS500_SDS00_Election 7, Programming Specifications EVS500_SDS00_UELS, Section 7, Programming Specifications EVS500_SDS00_DS200_SDS00_DS200_SDS00_Election 8 EVS500_SDS00_DS200_SDS00_Election 8, Section 2,5.7.1, Programming Specifications EVS500_SDS00_ERM, Section 7, Programming Specifications EVS500_SDS00_ERM, Section 7, Programming Specifications EVS500_SDS00_ERM, Section 7, Programming Specifications EVS500_SDS00_UELS, Section 7, Programming Specifications EVS500_SDS00_ERM, Section 7, Programming Specifications | | a | 1. | Module and unit design decisions, if any, such as algorithms used | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications | |
| EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications EVS5000_SDS00_DS200, Section 2.5.7.1, Programming Specifications EVS5000_SDS00_DS800, Section 7, Programming Specifications Overview EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_DS800, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications EVS5000_SDS00_DSS00_SECTION, Section 2.5.7.1, Programming Specifications EVS5000_SDS00_DSS00_SECTION, Section 2.5.7.1, Programming Specifications EVS5000_SDS00_DSS00_SECTION, Section 7, Programming Specifications EVS5000_SDS00_DSS00_SECTION, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5 | | | | | | EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview | |
| EVS500_SDS00_LULS, Section 7, Programming Specifications EVS500_SDS00_UULS, Section 7, Programming Specifications EVS500_SDS00_UULS, Section 7, Programming Specifications EVS500_SDS00_DSS00_DSS00_SDS00_DSS00_SDS00_DSS00_SECTION 7, Programming Specifications EVS500_SDS00_DSS00_DSS00_DSS00_SDS00_DSS00_SECTION 7, Programming Specifications EVS500_SDS00_DSS00_DSS00_DSS00_SDS00_ELectionWare, Section 6, Programming Specifications EVS500_SDS00_ELECTIONWare, Section 7, Programming Specifications EVS500_SDS00_UULS, Section 7, Programming Specifications EVS500_SDS00_UULS, Section 7, Programming Specifications EVS500_SDS00_UULS, Section 7, Programming Specifications EVS500_SDS00_DSS00_DSS00_DSS00_DSS00_SDS00_DSS00_SDS00_DSS00_SDS00_DSS00_D | | | | | | EVS5000_SDS00_DS850, Section 7, Programming Specifications | |
| EVS5000_SDS00_UELS, Section 7, Programming Specifications b. Any constraints, limitations, or unusual features in the design of the software module or unit EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.71, Programming Specifications (EVS5000_SDS00_DS850, Section 7, Programming Specifications (EVS5000_SDS00_Election 7, Programming Specifications (EVS5000_SDS00_Election 6, Programming Specifications (EVS5000_SDS00_UELS, Section 7, Programming Specifications (EVS5000_SDS00_DSS0 | | | | | | EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications | TDP |
| EVS5000_SDS00_UELS, Section 7, Programming Specifications b. Any constraints, limitations, or unusual features in the design of the software module or unit EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.71, Programming Specifications (EVS5000_SDS00_DS850, Section 7, Programming Specifications (EVS5000_SDS00_Election 7, Programming Specifications (EVS5000_SDS00_Election 6, Programming Specifications (EVS5000_SDS00_UELS, Section 7, Programming Specifications (EVS5000_SDS00_DSS0 | | | | | | EVS5000_SDS00_ERM, Section 7, Programming Specifications | |
| b. Any constraints, limitations, or unusual features in the design of the software module or unit EV\$5000_SDS00_D\$200, Section, Section 2.5.7.1, Programming Specifications EV\$5000_SDS00_D\$200, Section 7, Programming Specifications EV\$5000_SDS00_SDS00_SECTION Age, Section 7, Programming Specifications EV\$5000_SDS00_ERM, Section 7, Programming Specifications EV\$5000_SDS00_ERM, Section 7, Programming Specifications EV\$5000_SDS00_UELS, Section 7, Programming Specifications EV\$5000_SDS00_UELS, Section 7, Programming Specifications EV\$5000_SDS00_UELS, Section 7, Programming Specifications EV\$5000_SDS00_DS00_ERM, Section 7, Programming Specifications EV\$5000_SDS00_SDS00_SDS00_SDS00_SOS Overview, Section 2.5.7, Programming Specifications EV\$5000_SDS00_DS00_DS00_DS00_DS00_DS00_DS00 | | | | | | EVS5000_SDS00_UELS, Section 7, Programming Specifications | |
| the software module or unit EV\$5000_SD\$00_D\$200, Section, Section 2.5.7.1, Programming Specifications Overview EV\$5000_SD\$00_D\$850, Section 7, Programming Specifications EV\$5000_SD\$00_ElectionWare, Section 6, Programming Specifications EV\$5000_SD\$00_ElectionWare, Section 7, Programming Specifications EV\$5000_SD\$00_ELM, Section 7, Programming Specifications EV\$5000_SD\$00_UELS, Section 7, Programming Specifications c. The programming language used and rationale for its use, if other EV\$5000_SD\$00_D\$200_AutoMARK SD\$ Overview, Section 2.5.7, Programming Specifications EV\$5000_SD\$00_D\$200_SECTION, Section 2.5.7.1, Programming Specifications EV\$5000_SD\$00_D\$800_D\$800_D\$800_D\$800_SECTION, Programming Specifications EV\$5000_SD\$00_D\$80 | 172 | | | | | | <u> </u> |
| EV\$5000_SD\$00_D8\$50, Section 7, Programming Specifications EV\$5000_SD\$00_ElectionWare, Section 6, Programming Specifications EV\$5000_SD\$00_ERM, Section 7, Programming Specifications EV\$5000_SD\$00_ERM, Section 7, Programming Specifications EV\$5000_SD\$00_ERM, Section 7, Programming Specifications c. The programming language used and rationale for its use, if other than the specified module or unit language EV\$5000_SD\$00_D\$200, Section, Section 2.5.7.1, Programming Specifications EV\$5000_SD\$00_D\$200, Section 7, Programming Specifications EV\$5000_SD\$00_D\$200, Section 7, Programming Specifications EV\$5000_SD\$00_ElectionWare, Section 7, Programming Specifications EV\$5000_SD\$00_ElectionWare, Section 7, Programming Specifications EV\$5000_SD\$00_ElectionWare, Section 7, Programming Specifications EV\$5000_SD\$00_D\$200, SD\$00_ElectionWare, Section 7, Programming Specifications | | b |). | Any constraints, limitations, or unusual features in the design of | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications | |
| EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications c. The programming language used and rationale for its use, if other than the specified module or unit language EVS5000_SDS00_DS200_Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS200_SEX0, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_DS200_DS200_Section, Section 2.5.7.1, Programming Specifications EVS5000_SDS00_ElectionWare, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ElectionWare, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | | | | the software module or unit | | EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview | |
| EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications c. The programming language used and rationale for its use, if other than the specified module or unit language EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications EVS5000_SDS00_DS800, Section 7, Programming Specifications Overview EVS5000_SDS00_DS800, DS800, Section 7, Programming Specifications EVS5000_SDS00_Election Specifications EVS5000_SDS00_Election Specifications EVS5000_SDS00_Election 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | | | | | | EVS5000_SDS00_DS850, Section 7, Programming Specifications | |
| EVS5000_SDS00_UELS, Section 7, Programming Specifications c. The programming language used and rationale for its use, if other than the specified module or unit language EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications EVS5000_SDS00_DS800_DS800, Section 7, Programming Specifications Overview EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ElectionWare, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 7, Programming Specifications | | | | | | EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications | TDP |
| c. The programming language used and rationale for its use, if other than the specified module or unit language EVS5000_SDS00_DS200, Section 2.5.7.1, Programming Specifications EVS5000_SDS00_DS200, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS200, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ElectionWare, Section 7, Programming Specifications EVS5000_SDS00_ELEM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | | | | | | EVS5000_SDS00_ERM, Section 7, Programming Specifications | |
| c. The programming language used and rationale for its use, if other than the specified module or unit language EV\$5000_SD\$00_D\$200, Section 2.5.7.1, Programming Specifications Overview EV\$5000_SD\$00_D\$200, Section 2.5.7.1, Programming Specifications Overview EV\$5000_SD\$00_D\$250, Section 7, Programming Specifications EV\$5000_SD\$00_ElectionWare, Section 6, Programming Specifications EV\$5000_SD\$00_ElectionWare, Section 7, Programming Specifications EV\$5000_SD\$00_D\$200_SD\$00_Election 7, Programming Specifications | | | | | | EVS5000_SDS00_UELS, Section 7, Programming Specifications | |
| than the specified module or unit language EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_Election 6, Programming Specifications EVS5000_SDS00_Election 7, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | 173 | | | | | | |
| EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications | | С | | | | | |
| EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | | | | than the specified module or unit language | | | |
| EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | | | | | | | |
| EVS5000_SDS00_UELS, Section 7, Programming Specifications | | | | | | | TDP |
| | | | | | | | |
| | | | | | | EVS5000_SDS00_UELS, Section 7, Programming Specifications | |
| 1/4 | 174 | | | | | | <u> </u> |

| | Α | В | С | D | F | G |
|----|-------------------|--|--|---|---|-----|
| 1 | 75 | d. | If the software module or unit consists of, or contains, procedural commands (such as menu selections in a database management system for defining forms and reports, online queries for database access and manipulation, input to a graphical user interface builder for automated code generation, commands to the operating system, or shell scripts), a list of the procedural commands and reference to user manuals or other documents tha explain them | EAC RFI 2010-03 (Data Load) eff. Date 6/14/2010: 2005 VVSG [Vol. II Sec. 5.4 Source Code Review, Vol. II Sec. 5.4.2 a-v Assessment of Coding Conventions]; Vol. II, Sec. 2.5.7.2 d Programming Specifications Details | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | TDP |
| 1 | s 76 o | EAC RFI 2010 03, effective date June 14, 2010 | EAC Decision on Request for Interpretation 2010-03: 2005 VVSG [Vol. II Sec. 5.4 Source Code Review, Vol. II Sec. 5.42 a-v Assessment of Coding Conventions]; Vol. II, Sec. 2.5.7.2 d Programming Specifications Details | | EV\$5000_SD800_AutoMARK SDS Overview, Section 2.5.8, System Databases EV\$5000_SD800_DS200, Section 2.5.8, System Databases EV\$5000_SD800_DS805_Section 8, System Databases EV\$5000_SD800_ElectionWare, Section 7, System Databases EV\$5000_SD800_ERM, Section 8, System Databases EV\$5000_SD800_UELS, Section 8, System Databases | TDP |
| 11 | FTWARE DESIGN AND | | Per EAC RFI 2010-03: Question: Shall database definition files be reviewed as source code under the guidelines found in Volum II. Section 5? Per EAC: "Volume II. Section 2.5.7.2.d states: The vendor shall provide the following information: If the software module or unit consists of, or contains, procedural commands (such as menu selections in a database management system for defining forms and reports, online queries for database access and manipulation, input to a graphical user interface builder for automated code generation, commands to the operating system, or shell scripts), a list of the procedural commands and reference to user manuals or other documents that explain them. In order to support the evaluation required in VVSG Volume II, Section 2.5.7.2.d, the manufacturer's documentation shall clearly specify: 1. If the DDL and DML presented for evaluation are using scripts, macros or other executable code. 2. If the DDL and DML could modify the results reported by modifying the database schema | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DSS05, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases | TDP |
| 1 | S P E C I F . | e. | If the software module or unit contains, receives, or outputs data, a description of its inputs, outputs, and other data elements as applicable. (Subsection 2.5.9 describes the requirements for documenting system interfaces.) Data local to the software module or unit shall be described separately from data input to, o output from, the software module or unit. | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | TDP |
| 1 | 79 C | f. | If the software module or unit contains logic, the logic to be used by the software unit, including, as applicable: | | | |
| | A T I O N | | Conditions in effect within the software module or unit when its execution is initiated | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | TDP |
| | 81 | | Conditions under which control is passed to other software modules or units | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | TDP |

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| 182 | | Response and response time to each input, including data conversion, renaming, and data transfer operations | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | TDP |
| 183 | | Sequence of operations and dynamically controlled sequencin during the software module's or unit's operation, including: | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | TDP |
| 184 | | 4.i) The method for sequence control | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | TDP |
| 185 | | 4.ii) The logic and input conditions of that method, such as timing variations, priority assignments | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | TDP |
| 186 | | 4.iii) Data transfer in and out of memory | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | TDP |
| 187 | | The sensing of discrete input signals, and timing relationships between interrupt operations within the software module or unit | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | TDP |
| 188 | | 5) Exception and error handling | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications | TDP |
| 189 | | If the software module is a database, provide the information described in Section 2.5.8 [System Database]. | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DS850, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases | TDP |
| 190 | VII. 2.5.8 | System Database | | | |
| .00 | 11, 2.0.0 | The vendor shall identify and provide a diagram and narrative | also Vol. II, 2.2.1e. System Description | | |
| | | description of the system's databases, and any external files used for data input or output. The information provided shall include for each database or external file: | una 10. II, 22.10. Ojsten Deserptor | | |
| 191 | | | | | |

| 192 N. Design conventions and standards (which may be incorporated by 1925000, \$250000, \$25000, \$250000, \$250000, \$250000, \$2 | Α | В | С | D | F | G |
|--|-----|----|---|---|--|------|
| 192 193 194 195 195 195 195 195 195 195 | | a. | The number of levels of design and the names of those levels | | | |
| 192 192 193 194 195 196 197 197 198 199 199 199 199 199 | 1 | | (such as conceptual, internal, logical, and physical). | | EVS5000_SDS00_DS200, Section 2.5.8, System Databases | |
| 1920 Design connections and standards (which may be incorporated by 1920,000, 1800, 111,18, 18, 5 ection 8, 5 years Databases 1920,000, 1800, 111,18, 5 ection 8, 5 years Databases 1920,000, 1800, 111,18, 5 ection 8, 5 years Databases 1920,000, 1800, 111,18, 5 ection 8, 5 years Databases 1920,000, 1800, 111,18, 5 ection 8, 5 years Databases 1920,000, 1800, 111,18, 5 ection 8, 5 years Databases 1920,000, 1800, 111,18, 1800, | 1 | | | | EVS5000_SDS00_DS850, Section 8, System Databases | |
| 192 Design convenience and standards (which may be incorporated by effective to indicate and the design. | | | | | EVS5000_SDS00_ElectionWare, Section 7, System Databases | TDP |
| Design conventions and standards (which may be incorporated by reference) seeded to understand the design. Proceedings Proceedings Proceedings Procedings Proceding | | | | | EVS5000_SDS00_ERM, Section 8, System Databases | |
| Design convention and standards (which may be incorporated by reference) needed to understand the design. 193 193 193 194 195 195 195 195 195 195 195 | | | | | EVS5000_SDS00_UELS, Section 8, System Databases | |
| reference) needed to understand the design. EVSS000_SERSO_SERSO_SERSO_SERSO_SERSO_SERIO | 192 | | | | | |
| 193 193 194 195 195 196 197 197 197 197 198 199 199 199 | i | b. | | | | |
| 193 193 2 Extra 1935 | 1 | | reference) needed to understand the design. | | | |
| 1939 1940 1950 | 1 | | | | | |
| EVSSOO_SDSO_LELS, Section 8, System Databases | 1 | | | | | TDP |
| Comparison of all database entities and how they are implemented physically (e.g., tables, files). INVSSOID, SISSOID, DASION, DASSOID, SISSOID, SISSOID, DASSOID, SISSOID, SISSOID, DASSOID, SISSOID, | | | | | | |
| Section of the distribution and description of all database entities and low they are implemented physically (e.g., tables, files). | 400 | | | | EVS5000_SDS00_UELS, Section 8, System Databases | |
| 1946 | 193 | c | Identification and description of all database entities and how | | EVS5000 SDS00 AutoMARK SDS Overview Section 2.5.8 System Databases | |
| 194 | | c. | | | | |
| PSS5000_SRS00_ENGENCE_CORR_SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS | 1 | | they are implemented physically (e.g., tables, mes). | | | |
| 194 4 | | | | | | TDP |
| 194 d. Entity relationship diagrams and description of relationships Ev\$5000_SB000_AutoMARK SBS Overview, Section 2.5.8, System Databases EV\$5000_SB000_AutoMARK SBS Overview, Section 2.5.8, System Databases EV\$5000_SB000_DB000_DB000 | 1 | | | | | IDI |
| 194 | 1 | | | | | |
| Entity relationship diagrams and description of relationships | 194 | | | | 2 155000_55500_6525, Section 0, 53, North Stationary | |
| EVS5000, SD500, DS200, Section 2.5.8, System Databases EVS5000, DS500, D | | d. | Entity relationship diagrams and description of relationships | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases | |
| EVS5000_SDS00_DERION_BURS_SECTION_S, System Databases EVS5000_SDS00_ERRM_Section 8, System Databases EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5 8, System Databases EVS5000_SDS00_ERRM_Section 2.5 8, System Databases EVS5000_SDS00_ERRM_Section 3.5 8, System Databases EVS5000_SDS00_ERRM_Section 3.5 8, System Databases EVS5000_SDS00_ERRM_Section 3.5 8, System Databases EVS5000_SDS00_ERRM_Section | | | | | | |
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| EV\$5000_SD800_LERM_Section 8, System Databases | | | | | | TDP |
| 1966 Postals of table, record or file contents (as applicable) to include and individual data elements and their specifications, including: 1 | | | | | EVS5000_SDS00_ERM, Section 8, System Databases | |
| Details of table, record or file contents (as applicable) to include individual data elements and their specifications, including: 1) Names/identifiers EV\$5000_SDS00_DS200_SECtion 2.5.8, System Databases EV\$5000_SDS00_DS200_SSECtion 3. System Databases EV\$5000_SDS00_Election Wars, Section 3. System Databases EV\$5000_SDS00_Election Wars, Section 3. System Databases EV\$5000_SDS00_Election Wars, System Databases EV\$5000_SDS00_UELS, Section 8, System Databases EV\$5000_SDS00_DS200_SECTION 2.5.8, System Databases EV\$5000_SDS00_DS200_SECTION 2.5.8, System Databases EV\$5000_SDS00_Election Wars, Section 3. System Databases EV\$5000_SDS00_Election Wars, System Databases EV\$5000_SDS00_UELS, Section 8, System Databases EV\$5000_SDS00_DSS00_SDS00_DSS00_SECTION 2.5.8, System Databases EV\$5000_SDS00_DSS00_SDS00_DSS00_SECTION 2.5.8, System Databases EV\$5000_SDS00_DSS00_SDS00_DSS00_SECTION 2.5.8, System Databases EV\$5000_SDS00_DSS00_DSS00_DSS00_SECTION 2.5.8, System Databases EV\$5000_SDS00_DSS00_DSS00_DSS00_SECTION 3.5.8, System Databases EV\$5000_SDS00_DSS00_DSS00_DSS00_SECTION 3.5.8, System Databases EV\$5000_SDS00_DSS00_DELD, SECTION 3.6, System Databases EV\$5000_SDS00_DSS00_DELD, SECTION 3.6, System Databases EV\$5000_SDS00_DELD, SECTION 3.6, System Databa | | | | | | |
| individual data elements and their specifications, including: 1) Names/identifiers | 195 | | | | · | |
| 196 1) Names/identifiers EV\$5000_SD800_D\$200, Section 2.5.8, System Databases EV\$5000_SD800_D\$850, Section 8, System Databases EV\$5000_SD800_D\$850, Section 8, System Databases EV\$5000_SD800_ERIM, Section 8, System Databases EV\$5000_SD800_ERIM, Section 8, System Databases EV\$5000_SD800_ERIM, Section 8, System Databases EV\$5000_SD800_D\$800_D\$800_SD800_ERIM, Section 2.5.8, System Databases EV\$5000_SD800_D\$800_D\$800_SD800_D\$800_SECTION 2.5.8, System Databases EV\$5000_SD800_D\$800_D\$800_SECTION 2.5.8, System Databases EV\$5000_SD800_ERIM, Section 8, System Databases EV\$5000_SD800_ERIM, Section 7, System Databases EV\$5000_SD800_ERIM, Section 7, System Databases EV\$5000_SD800_ERIM, Section 8, System Databases EV\$5000_SD800_ERIM, Section 8, System Databases EV\$5000_ERIM, Section 8, System Databases EV\$5000_SD800_ERIM, Section 8, System Databases EV\$5000_SD800_D\$800_D\$800_ERIM, Section 8, System Databases EV\$5000_SD800_D\$ | ' | e. | | | | |
| 197 198 198 198 199 199 199 199 | 106 | | individual data elements and their specifications, including: | | | |
| EVS500_SDS00_DS200, Section 2.5.8, System Databases EVS500_DS500_DS500_DS500_Excerton 8, System Databases EVS500_SDS00_ElectionWare, Section 7. System Databases EVS500_SDS00_ERM, Section 8, System Databases EVS500_SDS00_ERM, Section 8, System Databases EVS500_SDS00_ERM, Section 8, System Databases EVS500_SDS00_DS500_ELS, Section 8, System Databases EVS500_SDS00_DS500_DS500_DS500_ESCION 2.5.8, System Databases EVS500_SDS00_DS500_DS500_ESCION 2.5.8, System Databases EVS500_SDS00_DS500_DS500_DS500_EXCION 2.5.8, System Databases EVS500_SDS00_ERM, Section 8, System Databases EVS500_SDS00_ERM, Section 8, System Databases EVS500_SDS00_UELS, Section 8, System Databases EVS500_SDS00_UELS, Section 8, System Databases EVS500_SDS00_UELS, Section 8, System Databases EVS500_SDS00_DS500_DS500_EXCION 2.5.8, System Databases EVS500_SDS00_DS500_DS500_DS500_DS500_EXCION 2.5.8, System Databases EVS500_SDS00_DS500_DS500_DS500_DS500_DS500_EXCION 2.5.8, System Databases EVS500_SDS00_DS500_DS500_DS500_DS500_EXCION 2.5.8, System Databases EVS5000_SDS00_DS500_DS500_DS500_EXCION 2.5.8, System Databases EVS5000_SDS00_DS500_DS500_DS500_EXCION 2.5.8, System Databases EVS5000_SDS00_DS500_DS500_DS500_EXCION 3.5.8, System Databases EVS5000_SDS00_EXM, Section 8, System Databases EVS500_SDS00_EXM, Section 8, System D | 190 | | 1) Names/identifiers | | EVS5000_SDS00_AutoMARK SDS Overview_Section 2.5.8. System Databases | |
| EVS500_SDS00_DSS0, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_END EMM, Section 8, System Databases EVS5000_SDS00_UELs, Section 8, System Databases EVS500_SDS00_UELs, Section 8, System Databases EVS500_SDS00_UELs, Section 8, System Databases EVS500_SDS00_DS200_Section 2.5.8, System Databases EVS500_SDS00_DS200_Section 2.5.8, System Databases EVS500_SDS00_DS200_Section 2.5.8, System Databases EVS500_SDS00_EMS_Section 8, System Databases EVS500_SDS00_EMS_Section 8, System Databases EVS500_SDS00_EMS_Section 8, System Databases EVS500_SDS00_UELs, Section 8, System Databases EVS500_SDS00_DS200_Section 2.5.8, System Databases EVS500_SDS00_DS200_Section 2.5.8, System Databases EVS500_SDS00_DS200_Section 2.5.8, System Databases EVS500_SDS00_DS200_Section 2.5.8, System Databases EVS500_SDS00_EMS_Section 8, System Databases | | | 1) Traines, dentifiers | | | |
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| EV\$500_SD80_LELS, Section 8, System Databases EV\$500_SD80_LUELS, Section 2.5.8, System Databases EV\$500_SD80_DS200, Section 2.5.8, System Databases EV\$500_SD80_DS200, Section 2.5.8, System Databases EV\$500_SD80_DS80_Section 2.5.8, System Databases EV\$500_SD80_DS80_Section 3. System Databases EV\$500_SD80_ElectionWare, Section 7. System Databases EV\$500_SD80_LELS, Section 8, System Databases EV\$500_SD80_LELS, Section 8, System Databases EV\$500_SD80_UELS, Section 8. System Databases EV\$500_SD80_DS80_SD80_DS80_Section 2.5.8, System Databases EV\$500_SD80_DS80_DS80_SD80_DS80_Section 3. System Databases EV\$500_SD80_ElectionWare, Section 7. System Databases EV\$500_SD80_ElectionWare, Section 2.5.8, System Databases EV\$500_SD80_ElectionWare, Section 7. System Databases EV\$500_SD80_ElectionWare, Section 7. System Databases EV\$500_SD80_ElectionWare, Section 8. System Databases EV\$500_SD80_ElectionWare, Section 7. System Databases EV\$500_SD80_ElectionWare, Section 8. System Databases EV\$500_SD80_ElectionWare, Section | | | | | | TDP |
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| EVS5000_SDS00_ElectionWare, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_EMM, Section 8, System Databases EVS5000_SDS00_UELS, Section 2.5.8, System Databases character string) 3) Size and format (such as length and punctuation of a EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ElectionWare, Section 2.5.8, System Databases | | | Data type (alphanumeric, integer, etc.) | | | |
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| 198 Section 8, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases | | | | | | |
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| 3) Size and format (such as length and punctuation of a EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DS850, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases | | | | | EVS5000_SDS00_UELS, Section 8, System Databases | |
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| EVS5000_SDS00_DS850, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_LERM, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases 4) Units of measurement (such as meters, dollars, nanoseconds) EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases | | | | | | |
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| 199 4) Units of measurement (such as meters, dollars, nanoseconds) EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases | | | | | | men |
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| 4) Units of measurement (such as meters, dollars, nanoseconds) EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases | | | | | | |
| 4) Units of measurement (such as meters, dollars, nanoseconds) EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases | 100 | | | | E v 3.5000_5D300_0EL3, Section 8, System Databases | |
| | 133 | | Units of measurement (such as meters, dollars, nanoseconds) | | EVS5000 SDS00 AutoMARK SDS Overview, Section 2.5.8, System Databases | |
| IE V 50000 5D500 D5200, Section 2.5.6, System Databases | | | , and an incore, domain, maioseconds) | | EVS5000_SDS00_DS200, Section 2.5.8, System Databases | |
| EVS5000_SD800_DS850, Section 8, System Databases | | | | | <u> </u> | |
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| EVS5000_SDS00_ERRM, Section 8, System Databases | | | | | | 1151 |
| EVS5000_SDS00_UELS, Section 8, System Databases | | | | | | |
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| | | 5) Range or enumeration of possible values (such as 0-99) | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DS850, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases | TDP |
| 201 | | Accuracy (how correct) and precision (number of significant digits) | | EVS5000_SDS00_UELS, Section 8, System Databases EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 8, System Databases | |
| 202 | | | | EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_ExpressVote, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases | TDP |
| | | Priority, timing, frequency, volume, sequencing, and other constraints, such as whether the data element may be updated and whether business rules apply | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DS850, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases | TDP |
| 203 | | Security and privacy constraints | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DS850, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_ExpressVote, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases | TDP |
| 204 | | 9) Sources (setting/sending entities) and recipients (using/receiving entities) | | EVS5000_SDS00_DEED, ecteron b, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 8, System Databases EVS5000_SDS00_DS850, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases | TDP |
| 206 | f. | For external files, a description of the procedures for file maintenance, management of access privileges, and security. | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DSS05, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases | TDP |
| 207 | VII, 2.5.9 | Interfaces | | | |
| | | The vendor shall identify and provide a complete description of all internal and external interfaces, using a combination of text and diagrams. | also Vol. II, 2.2.1.f. System Description | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9, Interfaces EVS5000_SDS00_DS200, Section 2.5.9, Interfaces EVS5000_SDS00_DS850, Section 9, Interfaces EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9, Interfaces EVS5000_SDS00_UELS, Section 9, Interfaces | TDP |
| 208 | VII. 2.5.9.1 | Interface Identification | | | |
| 210 | 11, 2,3,7,1 | For each interface identified in the system overview, the vendor shall: | | | |
| 211 | a. | Provide a unique identifier assigned to the interface. | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.1, Interface Identification EVS5000_SDS00_DS200, Section 2.5.9.1, Interface Identification EVS5000_SDS00_DS850, Section 9.1, Interface Identification EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.1, Interface Identification EVS5000_SDS00_UELS, Section 9.1, Interface Identification | TDP |

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| 212 | b. | Identify the interfacing entities (systems, configuration items, users, etc.) by name, number, version, and documentation references, as applicable. | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.1, Interface Identification EVS5000_SDS00_DS200, Section 9.1, Interface Identification EVS5000_SDS00_DS850, Section 9.1, Interface Identification EVS5000_SDS00_ElectionWare, Section 9.1, Interfaces EVS5000_SDS00_ERM, Section 9.1, Interface Identification EVS5000_SDS00_UELS, Section 9.1, Interface Identification | TDP |
| 213 | c. | Identify which entities have fixed interface characteristics (and therefore impose interface requirements on interfacing entities) and which are being developed or modified (thus having interface requirements imposed on them). | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.1, Interface Identification EVS5000_DS200_DS200, Section 2.5.9.1, Interface Identification EVS5000_SDS00_DS850, Section 9.1, Interface Identification EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.1, Interface Identification EVS5000_SDS00_UELS, Section 9.1, Interface Identification | TDP |
| 214 | VII, 2.5.9.2 | Interface Description | | |
| 215 | | For each interface identified in the system overview, the vendor shall provide information that describes: | | |
| 216 | a. | The type of interface (such as real-time data transfer, storage-and retrieval of data) to be implemented | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |
| 217 | b. | Characteristics of individual data elements that the interfacing entity(ies) will provide, store, send, access, receive, etc., such as: | | |
| 218 | | 1) Names/identifiers | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |
| 219 | | 2) Data type (alphanumeric, integer, etc.) | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |
| | | Size and format (such as length and punctuation of a character string) | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8. Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |
| 220 | | 4) Units of measurement (such as meters, dollars, nanoseconds) | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |
| 222 | | 5) Range or enumeration of possible values (such as 0-99) | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_ERM, Section 9.2, Interface Description | TDP |

| N. Assumance (Note control and precisions transferred regulations) | | Α | В | С | D | F | G |
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| PESSON, SERIOR PESSON | | | | Accuracy (how correct) and precision (number of significant | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description | |
| Proceedings of the process of the | | | | | | EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description | |
| Proceedings of the process of the | | | | | | EVS5000 SDS00 DS850, Section 9.2, Interface Description | |
| Post | | | | | | | TDP |
| Post | | | | | | EVS5000 SDS00 ERM, Section 9.2, Interface Description | |
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| vocations, such as whether in this denotes may be epiched an part of the secretary of the properties of the whether business ratio apply and privacy constraints. 224 225 226 227 228 228 228 228 228 228 | | | | 7) Priority, timing, frequency, volume, sequencing, and other | | EVS5000 SDS00 AutoMARK SDS Overview Section 2.5.9.2. Interface Description | |
| whether housees rules apply | | | | | | | |
| EVSSION_SIRON_LEGISLAND Interface Description | | | | | | | |
| EV\$500_\$500_\$500_\$100_\$100_\$200_\$200_\$100_\$200_\$100_\$200_\$2 | | | | | | | TDP |
| EV\$5000_SDS00_LEELS, Section 9.2 Literface Description | | | | | | | 151 |
| 2.55 | | | | | | | |
| Security and privacy constraints EV\$5000_SDS00_Aux00ARMS_SDS Overviews_Section 1.5.9.2. Interface Description | 224 | | | | | | |
| Page 25 Page 25 | | | | Security and privacy constraints | | EVS5000 SDS00 AutoMARK SDS Overview Section 2.5.9.2 Interface Description | |
| Page | | | | by Security and privacy constraints | | | |
| Post | | | | | | | |
| EVSS00_SB00_LBLS_Section 9.2. Interface Description | | | | | | | TDP |
| EV\$5000_SD800_UELS_section 9.2. Interface Description | | | | | | | IDI |
| Postures (setting/sending entities) and recipients | | | | | | | |
| 9. Sources (cetting/sending entities) and recipients EVSS000_SDS000_DRS0000_DRS000_DRS000_DRS0000_DRS0000_DRS0000_DRS0000_DRS000_DRS0000_DRS0000_DRS0000_DRS0000_DRS0000_DRS0000_DRS0000_DRS0000_DRS0000_DRS0000_DRS0000_DRS0000_DRS0000_DRS0000_DRS0000_DRS0000000000 | 225 | | | | | E 435000_5D500_CEL5, Section 9.2, interface Description | |
| EVSS000_SDS00_BS00_DS00_BS00_Excition S_1 Literface Description | 225 | | | 0) Sources (cetting/conding entities) and reginier+- | | EVC5000 CDC00 AutoMADV CDC Overview Section 2.5.0.2 Interface Description | + |
| EVSSOOD_SDSOD_DS | 1 | | | | | | |
| EV\$5000_SD800_ElectionWare, Section 8, Interfaces | | | | (using/receiving entities) | | | |
| EV\$5000_SD800_ERM, Section 9.2, Interface Description | | | | | | | |
| EV\$5000_SDS00_UELS, Section 9.2. Interface Description EV\$5000_SDS00_SDS00_SDS00_SDS00_SDS00_SP | | | | | | | TDP |
| Communication includes that the interface, such as: Communication includes will use for the interface, such as: Communication includes will use for the interface, such as: Communication includes will use for the interface, such as: Communication includes will use for the interface, such as: Communication includes will use for the interface, such as: Communication includes will use for the interface, such as: Communication includes will use for the interface will be compared with the interface will be compared with the interface of the interface | | | | | | | |
| Caracteristics of communication methods that the interfacing entity(es) will use for the interface, such as: 1 | | | | | | EVS5000_SDS00_UELS, Section 9.2, Interface Description | |
| EV\$5000_SD\$00_D\$200_Section 2.5.9.2, Interface Description | 226 | 1 - | | | | | |
| D. Communication links/bands/frequencies/media and their characteristics EVS5000_SDS00_DS0S_0. Section 2.5 9.2, Interface Description EVS5000_SDS00_DS0S_0. Section 9.2. Interface Description EVS5000_SDS00_DS0S_0. Section 9.2. Interface Description EVS5000_SDS00_DS0S_0. Section 9.2. Interface Description EVS5000_SDS00_DS0S_0. SDS00_DS0S_0. SDS0S_DS0S_DS0S_DS0S_DS0S_DS0S_DS0S_DS0 | 227 | | | | | | |
| Characteristics | 221 | | | | | EVISSOOD SDS00 AutoMADY SDS Overview Section 2.5.0.2 Interface Description | |
| EV\$5000_SDS00_DSS00_SEction 9.2, Interface Description EV\$5000_SDS00_ERM, Section 9.2, Interface Description EV\$5000_SDS00_ERM, Section 9.2, Interface Description EV\$5000_SDS00_UELS, Section 9.2, Interface Description EV\$5000_SDS00_DSS0 | | | | | | | |
| EV\$5000, SDS00, END Section Page 2, Interface Description | | | | characteristics | | | |
| EV\$5000_SDS00_LERM. Section 9.2, Interface Description | | | | | | | mpp |
| EV\$5000_\$D\$00_LUELS, Section 9.2, Interface Description | | | | | | | IDP |
| 228 | | | | | | | |
| 2) Message formatting | 000 | | | | | EVS5000_SDS00_UELS, Section 9.2, interface Description | |
| EV\$5000_SD\$00_D\$200, Section 2.5.9.2, Interface Description EV\$5000_SD\$00_D\$850, Section 9.2, Interface Description EV\$5000_SD\$00_EB850, Section 9.2, Interface Description EV\$5000_SD\$00_EB850, Section 9.2, Interface Description EV\$5000_SD\$00_EB850, Section 9.2, Interface Description EV\$5000_SD\$00_UELS, Section 9.2, Interface Description EV\$5000_SD\$00_UELS, Section 9.2, Interface Description EV\$5000_SD\$00_D\$200, Section 2.5.9.2, Interface Description EV\$5000_SD\$00_D\$200, Section 9.2, Interface Description EV\$5000_SD\$00_EB850, Section 9.2, Interface Description EV\$5000_SD\$00_EB850, Section 9.2, Interface Description EV\$5000_SD\$00_D\$850, Section 9.2, Interface Description EV\$5000_SD\$00_UELS, Section 9.2, Interface Description EV\$5000_SD\$00_UELS, Section 9.2, Interface Description EV\$5000_SD\$00_D\$850, Section 9.2, Interface Description | 228 | | | 2.24 | | NVISCOS SPECO A MANY SPECO A SPECIAL S | |
| EV\$5000_SD800_D8850, Section 9.2, Interface Description EV\$5000_SD800_ElectionWare, Section 8, Interfaces EV\$5000_SD800_EN_EM, Section 9.2, Interface Description EV\$5000_SD800_EMB, Section 9.2, Interface Description EV\$5000_SD800_EMB, Section 9.2, Interface Description EV\$5000_SD800_EN\$00_ED\$00_D8500_EN\$00_ED\$00_EN\$00_ED | 1 | | | 2) Message formatting | | | |
| EV\$5000_\$D\$00_\$ElectionWare, Section 8, Interface Description | | | | | | | |
| EVS500_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description 3) Flow control (such as sequence numbering and buffer allocation) EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS820, Section 9.2, Interface Description EVS5000_SDS00_DS820, Section 9.2, Interface Description EVS5000_SDS00_EVEN, Section 9.2, Interface Description EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description EVS5000_SDS00_DSS00_ | | | | | | | |
| EVS5000_SDS00_UELS, Section 9.2, Interface Description 3) Flow control (such as sequence numbering and buffer allocation) EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS800_DS80, Section 9.2, Interface Description EVS5000_SDS00_DS80, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ElectionWare, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description EVS5000_SDS00_DS800_UELS, Section 9.2, Interface Description EVS5000_SDS00_DS800_DS800_DS800_SCRUPTURE, Section 9.2, Interface Description EVS5000_SDS00_DS800_DS800_DS800_SCRUPTURE, Section 9.2, Interface Description EVS5000_SDS00_DS80 | 1 | | | | | | TDP |
| 3) Flow control (such as sequence numbering and buffer allocation) EV\$5000_SD\$00_DS\$00_Section 2.5.9.2, Interface Description EV\$5000_SD\$00_DS\$00_Section 9.2, Interface Description EV\$5000_SD\$00_DS\$00_SD\$00_DS\$00_SD\$00_DS\$00_SD\$00_DS\$00_SD\$00_DS\$00_SD\$00_DS\$00_SD\$00_DS\$00_SD\$00_DS\$00_SD\$00_DS\$00_SD | 1 | | | | | | |
| 3) Flow control (such as sequence numbering and buffer allocation) EV\$5000_SDS00_D\$200, Section 2.5.9.2, Interface Description EV\$5000_SDS00_D\$200, Section 9.2, 9.2, Interface Description EV\$5000_SDS00_D\$200, Section 9.2, Interface Description EV\$5000_SDS00_EBM, Section 9.2, Interface Description EV\$5000_SDS00_BEM, Section 9.2, Interface Description EV\$5000_SDS00_UELS, Section 9.2, Interface Description EV\$5000_SDS00_UELS, Section 9.2, Interface Description EV\$5000_SDS00_D\$200, SDS00_D\$200, SDS00_S | | | | | | EVS5000_SDS00_UELS, Section 9.2, Interface Description | |
| allocation) EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS805, Section 9.2, Interface Description EVS5000_SDS00_ELCTIONWARE, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description 4) Data transfer rate, whether periodic/aperiodic, and interval between transfers EVS5000_SDS00_DS200, Section 9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 9.2, Interface Description EVS5000_SDS00_DS200, Section 9.2, Interface Description EVS5000_SDS00_ELECTIONWARE, Section 9.2, Interface Description EVS5000_SDS00_ELECTIONWARE, Section 8, Interfaces EVS5000_SDS00_ELECTIONWARE, Section 8, Interface Description | 229 | | | | | | 1 |
| EVS500_SDS00_DS850, Section 9.2, Interface Description EVS500_SDS00_ElectionWare, Section 8. Interfaces EVS500_SDS00_ERM, Section 9.2, Interface Description EVS500_SDS00_ERM, Section 9.2, Interface Description EVS500_SDS00_UELS, Section 9.2, Interface Description 4) Data transfer rate, whether periodic/aperiodic, and interval between transfers EVS500_SDS00_DS200, Section 2.5.9.2, Interface Description EVS500_SDS00_DS200, Section 9.2, Interface Description EVS500_SDS00_DS850, Section 9.2, Interface Description EVS500_SDS00_DS850, Section 9.2, Interface Description EVS500_SDS00_ENGON_SDS00_ENGON_SON_SON_SON_SON_SON_SON_SON_SON_SON_S | 1 | | | | | | |
| EVS500_SDS00_ElectionWare, Section 8, Interfaces EVS500_SDS00_ERM, Section 9.2, Interface Description EVS500_SDS00_UELS, Section 9.2, Interface Description 4) Data transfer rate, whether periodic/aperiodic, and interval between transfers EVS500_SDS00_DS200_Section 2.5,9.2, Interface Description EVS500_SDS00_DS200_Section 2.5,9.2, Interface Description EVS500_SDS00_DS200_Section 9.2, Interface Description EVS500_SDS00_DS200_SECTION 3, Interface Description EVS500_SDS00_ERM, Section 9.2, Interface Description EVS500_SDS00_ERM, Section 9.2, Interface Description | 1 | | | allocation) | | | |
| EVS500_SDS00_ERM, Section 9.2, Interface Description EVS500_SDS00_UELS, Section 9.2, Interface Description 4) Data transfer rate, whether periodic/aperiodic, and interval between transfers EVS500_SDS00_BOS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS500_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 9.2, Interface Description EVS5000_SDS00_ESCTION 4P. Section 9.2, Interface Description EVS5000_SDS00_ERM, Section 9.2, Interface Description | 1 | | | | | | |
| EVS5000_SDS00_UELS, Section 9.2, Interface Description 4) Data transfer rate, whether periodic/aperiodic, and interval between transfers EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_DS200, Section 9.2, Interface Description EVS5000_SDS00_DS800, Section 9.2, Interface Description EVS5000_SDS00_ENSERT, Section 9.2, Interface Description EVS5000_SDS00_SDS00_ENSERT, Section 9.2, Interface Description | | | | | | | TDP |
| 4) Data transfer rate, whether periodic/aperiodic, and interval between transfers EV\$5000_\$D\$200_\$D\$200_\$D\$200_\$D\$200_\$Section 2.5.9.2, Interface Description EV\$5000_\$D\$500_\$D\$8500_\$ | 1 | | | | | | |
| 4) Data transfer rate, whether periodic/aperiodic, and interval between transfers EVS500_SDS00_DS200, Section 2.5.9.2, Interface Description EVS500_SDS00_DS200, Section 2.5.9.2, Interface Description EVS500_SDS00_DS850, Section 9.2, Interface Description EVS500_SDS00_ENSO0_SDS00_ENCOUNTERCES TDP EVS500_SDS00_SDS00_ERM, Section 9.2, Interface Description | L. | | | | | EVS5000_SDS00_UELS, Section 9.2, Interface Description | |
| between transfers | 230 | | | | | | |
| EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces TDP EVS5000_SDS00_ERM, Section 9.2, Interface Description | 1 | | | | | | |
| EVS5000_SDS00_ElectionWare, Section 8, Interfaces TDP EVS5000_SDS00_ERM, Section 9.2, Interface Description | 1 | | | between transfers | | | |
| EVS5000_SDS00_ERM, Section 9.2, Interface Description | 1 | | | | | EVS5000_SDS00_DS850, Section 9.2, Interface Description | |
| | 1 | | | | | | TDP |
| EVS5000_SDS00_UELS, Section 9.2, Interface Description | 1 | | | | | EVS5000_SDS00_ERM, Section 9.2, Interface Description | |
| 231 | 1 | | | | | EVS5000_SDS00_UELS, Section 9.2, Interface Description | |
| | 231 | | | | | | |

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|-----|----|--|---|---|-----|
| 232 | | 5) Routing, addressing, and naming conventions | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |
| 233 | | Transmission services, including priority and grade | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_SDS00_Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |
| 234 | | 7) Safety/security/privacy considerations, such as encryption, user authentication, compartmentalization, and auditing | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |
| 235 | d. | Characteristics of protocols the interfacing entity(ies) will use for the interface, such as: | | | |
| | | 1) Priority/layer of the protocol | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_Election Ware, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |
| 236 | | Packeting, including fragmentation and reassembly, routing, and addressing | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |
| 238 | | 3) Legality checks, error control, and recovery procedures | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |
| 239 | | Synchronization, including connection establishment, maintenance, termination | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |
| 240 | | 5) Status, identification, and any other reporting features | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |

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| 241 | e. | Other characteristics, such as physical compatibility of the interfacing entity(ies) (such as dimensions, tolerances, loads, voltages and plug compatibility) | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description | TDP |
| 242 | VII, 2.5.10 | Appendices | | | |
| 243 | | The vendor may provide descriptive material and data supplementing the various sections of the body of the Software Specifications. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for amplification or treatment in appendix form include: | | | |
| 244 | a. | Glossary: A listing and brief definition of all software module names and variable names, with reference to their locations in the software structure. Abbreviations, acronyms, and terms should be included, if they are either uncommon in data processing and software development or are used in an unorthodox semantic. | | No glossary appendices were noted in the core SDS TDPs | TDP |
| 245 | b. | References: A list of references to all related vendor documents, data, standards, and technical sources used in software development and testing. | | No reference appendices were noted in the core SDS TDPs | TDP |
| 246 | c. | Program Analysis: The results of software configuration analysis algorithm analysis and selection, timing studies, and hardware interface studies that are reflected in the final software design and coding. | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.10, Appendices ("N/A") EVS5000_SDS00_DS200, Section II, Appendixes EVS5000_SDS00_DS850, Section 10, Appendixes EVS5000_SDS00_ElectionWare, Sections 9-22, Appendixes | TDP |
| 247 | VII, 2.6 | System Security Specification | | | |
| 248 | | Vendors shall submit a system security specification that addresses the security requirements of Volume I, Section 7. This | Vol. I, 2.1.1.g. Overall System Capabilities, Security; Vol. I, Sec. 7 Security Requirements; Vol. I, Sec. 6 Telecommunications Requirements | AutoMARK ESS System Security Specification AQS-18-5002-001-S EVS5000_SSS00_SSS00 EVS5000_SSS00_SSS01_ISP Template EVS5000_SSS002.08_AutoMARK Quick Hash Procedure EVS5000_SSS02.01_EMS_PC_SecScriptDesc EVS5000_SSS02.01_UbuntuLiveCD EVS5000_SSS02.05_EMS_Workstation Validation Guide EVS5000_SSS02.06_DS200Quick Hash Procedure EVS5000_SSS02.07_DS850Quick Hash Procedure EVS5000_SSS02_OT_DS850Quick Hash Procedure EVS5000_SSS02_Voting System Validation Guide01_File Listing_DS200 EVS5000_SSS03_Voting System Validation Guide02_File Listing_ElectionWare EVS5000_SSS03_Voting System Validation Guide04_File Listing_ElectionWare EVS5000_SSS03_Voting System Validation Guide04_File Listing_ERMS EVS5000_SSS03_Voting System Validation Guide05_File Listing_ELS EVS5000_SSS03_Voting System Validation Guide06_File_Listing_ELS EVS5000_SSS03_Voting System Validation Guide06_File_Listing_ERM EVS5000_SSS03_Voting System Validation Guide07_File Listing_ERM EVS5000_SSS03_Voting System Validation Guide07_File Listing_ERM EVS5000_SSS03_Voting System Validation Guide09_File Listing_DS850 EVS5000_SSS03_Voting System Validation Guide09_File Listing_ERM EVS5000_SSS03_Voting System Validation Guide09_File Listing_File EVS5000_SSS03_Voting Validation Gui | ТОР |

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|------------|----|------------|--|---|--|-----|
| \vdash | -, | | Information provided by the vendor in this section of the TDP | | AutoMARK ESS System Security Specification AQS-18-5002-001-S | Ū |
| | | | may be duplicative of information required by other sections. | | EVS5000 SS00 | |
| | | | Vendors may cross-reference to information provided in other | | EVS5000 SSS01 JSP Template | |
| | | | sections provided that the means used provides a clear mapping t | | EVS5000_SSS002.08_AutoMARK Quick Hash Procedure | |
| | | | the requirements of this section. | | EVS5000_SSS02.01_EMS_PC_SecScriptDesc | |
| | | | the requirements of this section. | | EVS5000_SSS02.01_Eivis_rC_secscriptnese EVS5000_SSS02.01_UbuntuLiveCD | |
| | | | | | EVS5000_SSS02.01_CountdLiveCD EVS5000_SSS02.05_EMSWorkstation Validation Guide | |
| | | | | | EVS5000_SSS02.05_EVISWORKstation Valuation Outde EVS5000_SSS02.06_DS200Quick Hash Procedure | |
| | | | | | | |
| | | | | | EVS5000_SSS02.07_DS850Quick Hash Procedure | |
| | | | | | EVS5000_SSS02_Hardening Procedures | |
| | | | | | EVS5000_SSS03_Voting System Validation Guide01_File Listing_DS200 | |
| | | | | | EVS5000_SSS03_Voting System Validation Guide02_File Listing_AutoMARK | |
| | | | | | EVS5000_SSS03_Voting System Validation Guide04_File Listing_ElectionWare | TDP |
| | | | | | EVS5000_SSS03_Voting System Validation Guide05_File Listing_RMS | |
| | | | | | EVS5000_SSS03_Voting System Validation Guide06_File_Listing_ELS | |
| | | | | | EVS5000_SSS03_Voting System Validation Guide07_File Listing_VATPreview | |
| | | | | | EVS5000_SSS03_Voting System Validation Guide08_File Listing_ERM | |
| | | | | | EVS5000_SSS03_Voting System Validation Guide09_File Listing_DS850 | |
| | | | | | EVS5000_SSS07_PhysEquipmentSecurityBestPract | |
| | | | | | EVS5000_SSS09_WinOS_SECBaseSettings | |
| | | | | | THE COLUMN AND A STATE OF THE PARTY OF THE P | |
| | | | | | EVS5000_SSS02.01_HardeningScripts [Folder] | |
| | | | | | EVS5000_SSS02.07.01_DS850QuickHashScripts [Folder] | |
| | | | | | EVS5000_SSS02.08.01_AutoMARKHashTools [Folder] | |
| 249 | | | | | | |
| | | | The Security Specification shall contain the sections identified | | | |
| 250 | | | below. | | | |
| 250 251 | | VII, 2.6.1 | Access Control Policy | | | |
| | | | The vendor shall specify the features and capabilities of the | also Vol. I, 7.2.1 Security Requirements, General | EVS5000_SSS00, Chapter 1, Access Control Policy | |
| | | | access control policy recommended to purchasing jurisdictions to | | | |
| | | | provide effective voting system security. The access control | also Vol. I, 7.2.1.1 Individual Access Privileges | | |
| | s | | policy shall address the general features and capabilities and | | | TDP |
| | Y | | individual access privileges indicated in Volume I, Subsection | | | |
| 252 | s | | 7.2. [Access Control] | | | |
| 253 | Т | VII, 2.6.2 | Access Control Measures | | | |
| | - | | The vendor shall provide a detailed description of all system | also Vol. I, 7.2.1.2 Access Control Measures | EVS5000_SSS00, Chapter 2, Access Control Measures | |
| | E | | access control measures and mandatory procedures designed to | • | | |
| | М | | permit access to system states in accordance with the access | | | |
| | | | policy, and to prevent all other types of access to meet the | | | TDP |
| | S | | specific requirements of Volume I, Subsection 7.2. | | | |
| 254 | E | | | | | |
| F | С | | The vendor also shall define and provide a detailed description of | also Vol. I, 7.2.1.2 Access Control Measures | EVS5000_SSS00, Chapter 2, Access Control Measures | |
| | Ü | | the methods used to preclude unauthorized access to the access | . , | | TDP |
| 255 | R | | control capabilities of the system itself. | | | |
| 256 | i` | VII, 2.6.3 | Equipment and Data Security | | | |
| Ħ | ÷ | , | The vendor shall provide a detailed description of system | Vol. I, 7.3.1 Physical Security Requirements, | EVS5000_SSS00, Chapter 3, Equipment and Data Security | |
| | T | | capabilities and mandatory procedures for purchasing | Polling Place Security; | | |
| | Υ | | jurisdictions to prevent disruption of the voting process and | also Vol. I, 7.3-7.3.2 Physical Security Measures | | |
| | | | corruption of voting data to meet the specific requirements of | , , y y | | |
| | S | | Volume I, Subsection 7.3. [Physical Security Measures] This | | | TDP |
| | Р | | information shall address measures for polling place security and | | | |
| | E | | central count location security. | | | |
| 257 | С | | · | | | |
| 258 | 1 | VII, 2.6.4 | Software Installation | | | |
| | F | , | The vendor shall provide a detailed description of the system | also Vol. I, 7.4-7.4.6 Software Security | EVS5000_SSS00, Chapter 4, Software Installation and Security | |
| | il | | capabilities and mandatory procedures for purchasing | | | |
| | - | | jurisdictions to ensure secure software (including firmware) | | | |
| | С | | installation to meet the specific requirements of Volume I, | | | TDP |
| | A | | Subsection 7.4. [Software Security] This information shall | | | |
| | Т | | address software installation for all system components. | | | |
| 259 | ı | | 1 | | | |
| 260 | 0 | VII, 2.6.5 | Telecommunications and Data Transmission Security | | | |
| | | , | | | | |

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|-----------------|------------|---|---|--|-----|
| N 261 | | capabilities and mandatory procedures for purchasing jurisdictions to ensure secure data transmission to meet the specific requirements of Volume I, Subsection 7.5: [Telecommunications and Data Transmission]. | Vol. I, 7.5.2 b. Security Requirements, Telecommunications and Data Transmission, Protection Against External Threats | EVS5000_SSS00, Section 3.1.9, Network Security Proctices | TDP |
| 262 | a. | | Telecommunications and Data Transmission, Monitoring and Responding to External Threats | EVS5000_SSS00, Section 3.1.9, Network Security Proctices | TDP |
| 263 | b. | in Volume I, Section 6 [Telecommunications Requirements], this information shall also include: | Vol. 1, 7.6.2.1 Security Requirements, Use of Public Communications Networks, Documentation of Mandatory Security Activities; also Vol. 1, 7.5.2 Protection Against External Threats; also Vol. 1, 7.5.3 Monitoring and Responding to External Threats Wireless: Vol. 1, 7.7.1 Controlling Usage; 7.7.2 Identifying Usage | | |
| 264 | | Capabilities used to provide protection against threats to third party products and services. | | EVS5000_SSS00, Section 3.1.9, Network Security Proctices | TDP |
| 265 | | ii. Policies and processes used by the vendor to ensure that such protection is updated to remain effective over time. | | EVS5000_SSS00, Section 3.1.9, Network Security Proctices | TDP |
| 266 | | iii. Policies and procedures used by the vendor to ensure that current versions of such capabilities are distributed to user jurisdictions and are installed effectively by the jurisdiction. | | EVS5000_SSS00, Section 3.1.9, Network Security Proctices | TDP |
| 267 | | iv. A detailed description of the system capabilities and procedures to be employed by the jurisdiction to diagnose the occurrence of a denial of service attack, to use an alternate method of voting, to determine when it is appropriate to resume voting over the network, and to consolidate votes cast using the alternate method. | | EVS5000_SSS00, Section 3.1.9, Network Security Proctices | TDP |
| 268 | | A detailed description of all activities to be performed in setting up the system for operation that are mandatory to ensure effective system security, including testing of security before an election. | | EVS5000_SSS00, Section 3.1.9, Network Security Proctices | TDP |
| 269 | | vi. A detailed description of all activities that should be prohibited during system setup and during the timeframe for voting operations, including both the hours when polls are open and when polls are closed. | | EVS5000_SSS00, Section 3.1.9, Network Security Proctices | TDP |
| 270 271 | VII, 2.6.6 | Other Elements of an Effective Security Program The vendor shall provide a detailed description of the following additional procedures required for use by the purchasing jurisdiction: | | | |
| 272 | a. | Administrative and management controls for the voting system and election management, including access controls. | | EVS5000_SSS00, Section 1, Access Control Policy | TDP |
| 273 | b. | Internal security procedures, including operating procedures for maintaining the security of the software for each system function and operating mode. | | EVS5000_SSS00, Section 1, Access Control Policy | TDP |
| 274 | c. | Adherence to, and enforcement of, operational procedures (e.g., effective password management). | | EVS5000_SSS00, Section 1, Access Control Policy | TDP |
| 275 | d. | Physical facilities and arrangements. | | EVSS000_SSS00, Section 1, Access Control Policy | TDP |
| 276 | e. | Organizational responsibilities and personnel screening. This documentation shall be prepared such that these | | EVS5000_SSS00, Section 1, Access Control Policy EVS5000_SSS00, Section 1, Access Control Policy | TDP |
| 277 | - | requirements can be integrated by the jurisdiction into local administrative and operating procedures. | | 1. 13.000 23.300, section 1, Access Collitor Folicy | TDP |
| 278 | VII, 2.7 | System Test and Verification Specification The vendor shall provide test and verification specifications for: | | | |
| 279 | | portacion and remedian specifications for | | | |

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| 280 | | | Development test specifications | | EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_Electionware02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_ERM | TDP |
| 281 | | | National certification test specifications | | EVS5000_TC00_AutoMARK | TDP |
| 282 | 1 | VII, 2.7.1 | Development Test Specifications | | | |
| 283 284 | | | The vendor shall describe the plans, procedures, and data used during software development and system integration to verify system logic correctness, data quality, and security. This description shall include: | | | |
| 204 | a | a. | Test identification and design, including: 1) Test structure | | EVS5000 STP00, Section 1.1, Overview | |
| 285 | | | , | | | TDP |
| 286 | | | Test sequence or progression | | EVS5000_STP00, Section 1.3, Test Phases | TDP |
| 287 | | | 3) Test conditions | | EVS5000_STP00 | TDP |
| 288 | b | b. | Standard test procedures, including any assumptions or constraints | | EVS5000_STP00, Section 2.3.1, Overview / Standard Test Procedures | TDP |
| 289 | c | D. | Special purpose test procedures including any assumptions or constraints | | EVS5000_STP00 EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_ElectionWare02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_ERM | TDP |
| 290 | d | 1. | Test data; including the data source, whether it is real or simulated, and how test data are controlled | | EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_ElectionWare02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_ERM | TDP |

| | Α | В | С | D | F | G |
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| 291 | e |). | Expected test results | | EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_ElectionWare02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_ERM | TDP |
| 292 | SYS | | Criteria for evaluating test results Additional details for these requirements are provided by MIL- | | EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_ElectionWare02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_Electionware05_Resolve | TDP |
| 293 | T E M | | Additional details for these requirements are provided by MIL- STD-498, Software Test Plan and Software Test Description. In the event that test data are not available, the accredited test lab shall design test cases and procedures equivalent to those ordinarily used during product verification. | | | |
| 293 294 | E | VII, 2.7.2 | National Certification Test Specifications | | | |
| 295 | S T | | The vendor shall provide specifications for verification and validation of overall software performance. These specifications shall cover: | | | |
| 296 | AND VERIF | . | Control and data input/output | | EVS5000_STP00 EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_ElectionWare02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_Electionware05_Resolve | TDP |
| 297 | CATION |). | Acceptance criteria | | EVSS000_TC00_AutoMARK EVSS000_TC00_DS200 EVSS000_TC00_DS200 EVSS000_TC00_DS850 EVSS000_TC00_ElectionWare01_Manage EVSS000_TC00_ElectionWare02_Define EVSS000_TC00_Electionware03_Design EVSS000_TC00_Electionware03_Design EVSS000_TC00_Electionware04_Deliver EVSS000_TC00_Electionware05_Resolve EVSS000_TC00_ERM | TDP |

| | Α | В | С | D | F | G |
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| 298 | 4 | с. | Processing accuracy | | EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS200 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_ElectionWare02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_Electionware05_Resolve | TDP |
| 299 | 4 | d. | Data quality assessment and maintenance | | EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_ElectionWare02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_Electionware05_Resolve | TDP |
| 300 | 4 | e. | Ballot interpretation logic | Vol. I, 7.9.3 e, VVPAT Requirements, Electronic and Paper Record Storage | EVSS000_TC00_AutoMARK EVSS000_TC00_DS200 EVSS000_TC00_DS850 EVSS000_TC00_ElectionWare01_Manage EVSS000_TC00_ElectionWare02_Define EVSS000_TC00_Electionware03_Design EVSS000_TC00_Electionware03_Design EVSS000_TC00_Electionware04_Deliver EVSS000_TC00_Electionware05_Resolve EVSS000_TC00_ERM | TDP |
| 301 | 1 | f. | Exception handling | | EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_ElectionWare02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_ERM | TDP |
| 302 | | ob | Security | | EVS5000_STP00 EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_ElectionWare02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_ERM | TDP |

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|------------|------------|---|---|--|-----|
| 303 | h. | Production of audit trails and statistical data | | EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_ElectionWare02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_ERM | TDP |
| 304 305 | | The specifications shall identify procedures for assessing and demonstrating the suitability of the software for election use. | | EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_ElectionWare02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_Electionware05_Resolve | TDP |
| 305 | VII, 2.8 | System Operations Procedures | | THE PARTY OF THE P | |
| 306 | | This documentation shall provide all information necessary for system use by all personnel who support pre-election and electio preparation, polling place activities and central counting activities, as applicable, with regard to all system functions and operations identified in Subsection 2.3 above [Ballot Prep Prep. of Elec-specific software/firmware; ballot installation and ballot counting software; system and equip. tests; all polling place operations by voters and officials including status message generation; closing the polling place; reports by voting machine, polling place, precinct; consolidated reports; reports of audit trails]. The nature of the instructions for operating personnel will depenuon the overall system design and required skill level of system operations support personnel. | | EVS5000_SOP00_AMVAT EVS5000_SOP00_DS200 EVS5000_SOP00_DS800 EVS5000_SOP00_ElectionWare01_Admin EVS5000_SOP00_ElectionWare02_Define EVS5000_SOP00_ElectionWare03_Design EVS5000_SOP00_ElectionWare04_Deliver EVS5000_SOP00_ElectionWare05_Results EVS5000_SOP00_ELS EVS5000_SOP00_ELS EVS5000_SOP00_ERM EVS5000_SOP00_ENM EVS5000_SOP00_NetworkConfigGuide EVS5000_SOP00_AMVAT.01_VerficationElection [Folder] EVS5000_ORPT02_BallotProductionGuide [In Above Folder] | TDP |
| | | The system operations procedures shall contain all information that is required for the preparation of detailed system operating procedures, and for operator training, as described below. | | EVS5000_SOP00_AMVAT EVS5000_SOP00_DS200 EVS50000_SOP00_DS850 EVS50000_SOP00_ElectionWare01_Admin EVS5000_SOP00_ElectionWare03_Design EVS5000_SOP00_ElectionWare03_Design EVS5000_SOP00_ElectionWare04_Deliver EVS5000_SOP00_ElectionWare05_Results EVS5000_SOP00_ELS EVS5000_SOP00_ELS EVS5000_SOP00_ERM EVS5000_SOP00_PRM EVS5000_SOP00_NetworkConfigGuide EVS5000_SOP00_AMVAT.01_VerficationElection [Folder] EVS5000_ORPT02_BallotProductionGuide [In Above Folder] | TDP |
| 307 308 | VIII 2.0.5 | | | | |
| 300 | VII, 2.8.1 | Introduction | | | |

| | | The vendor shall provide a summary of system operating | Vol. I, 2.5.1 System Audit | EVS5000_SOP00_AMVAT, Section 1, Overview | |
|-------------------|------------|---|--|--|------|
| | | | | E VB3000_BGI 00_ANI VATI, Beetloli 1, OVELVIEW | |
| | | functions and modes, in sufficient detail to permit understanding | | EVS5000_SOP00_DS200, Section 3, Introduction to the DS200 | |
| | | of the system's capabilities and constraints. | | EVS5000_SOP00_DS850, Section 1, DS850 Overview | |
| | | * | | EVS5000 SOP00 ElectionWare01 Admin, Section 1, Overview | |
| | | | | EVS5000_SOP00_ElectionWare02_Define, Section 1, Home | |
| | | | | EVS5000_SOP00_ElectionWare03_Design, Section 1, Paper Ballot Overview | |
| | | | | EVS5000_SOP00_ElectionWare04_Deliver, Section 1, Configure Equipment | TDP |
| | | | | EVS5000_SOP00_ElectionWare05_Results, Section 1, Results | |
| | | | | EVS5000_SOP00_ERM, Section 1, Overview | |
| | | | | | |
| | | | | EVS5000_SOP00_NetworkConfigGuide, Section 1, Overview | |
| | | | | EVS5000_SOP00_ELS, Introduction | |
| 09 | | | | | |
| | | The roles of operating personnel shall be identified and related to | | EVS5000_SOP00_AMVAT, Section 1, Overview | |
| | | the operating modes of the system. | | EVS5000_SOP00_DS200, Section 3, Introduction to the DS200 | |
| | | | | EVS5000_SOP00_DS850, Section 1, DS850 Overview | |
| | | | | EVS5000_SOP00_ElectionWare01_Admin, Section 1, Overiew | |
| | | | | EVS5000 SOP00 ERM, Section 1, Overview | TDP |
| | | | | EVS5000_SOP00_NetworkConfigGuide, Section 1, Overview | |
| | | | | EVS5000_SOP00_ELS, Introduction | |
| 10 | | | | E 103000_501 00_EE5, introduction | |
| 10 | | D 11 12 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | NAV. | |
| | | Decision criteria and conditional operator functions (such as error | | XXX | TDP |
| 11 | | and failure recovery actions) shall be described. | | | |
| | | The vendor shall also list all reference and supporting documents | | XXX | |
| | | pertaining to the use of the system during election operations. | | | TDP |
| 12 | | | | | |
| 13 V | /II, 2.8.2 | Operational Environment | | | |
| | | The vendor shall describe the system environment, and the | | | |
| | | interface between the user or operator and the system. The | | | |
| | | vendor shall identify all facilities, furnishings, fixtures, and | | | |
| | | utilities that will be required for equipment operations, including | | | |
| 14 | | equipment that operates at the: | | | |
| - | | | | TURESON CORON AMUATION OF CITATION TO A LIVE T | |
| a. | | Polling place | | EVS5000_SOP00_AMVAT, Section 5, Facilites, Furnishings, Fixtures and Utilites | TDD |
| | | | | EVS5000_SOP00_DS200, Section 5, Open the Polls | TDP |
| 15 | | | | | |
| b. |). | Central count facility | | EVS5000_SOP00_DS850, Chapter 1, DS850 Overview | TDP |
| 16 | | | | | |
| 17 c. | | Other locations | | N/A | |
| 18 <mark>V</mark> | /II, 2.8.3 | System Installation and Test Specification | | | |
| | | The vendor shall provide specifications for validation of system | also Vol. I, 5.1.1 Software Requirements, Software | | |
| | | installation, acceptance, and readiness. These specifications shall | Sources | | |
| | | 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 Subsection 2.3 above, including: | | | |
| 19 | | | | | |
| <u> </u> | | Pra voting functions | Vol. I, 2.2.3 Ballot and Program Installation and | EVS5000_SOP00_AMVAT, Chapter 5, AutoMARK Setup Instructions | |
| a. | | Pre-voting functions | Vol. 1, 2.2.3 Ballot and Program Installation and Control | | |
| | | | Control | EVS5000_SOP00_DS200, Chapter 4, Pre-Election Day Tasks | |
| | | | | EVS5000_SOP00_DS850, Section 5, Pre-Election Day Tasks | TDP |
| | | | | EVS5000_SOP00_ERM, Section 2, Pre-Election Tasks | |
| 20 | | | | | |
| S b. |). | Voting functions | | EVS5000_SOP00_AMVAT, Chapter 6, Assisting Voters | |
| Y | | | | EVS5000_SOP00_DS200, Chapter 5, Election Day Tasks | |
| - | | | | EVS5000_SOP00_DS850, Section 6, Election Day Tasks | TDP |
| S | | | | EVS5000_SOP00_ERM, Section 3, Election Day Tasks | ** |
| 21 T | | | | | |
| E | | Post-voting functions | | EVS5000_SOP00_AMVAT, Chapter 11, Maintenance | |
| M C. | • | 1 OSE-VOLING TURICHORIS | | | |
| | | | | EVS5000_SOP00_DS200, Chapter 6, Post Election Day Tasks | mp.p |
| | | | | EVS5000_SOP00_DS850, Section 7, Post-Election Day Tasks EVS5000_SOP00_ERM, Section 4, Post-Election Tasks | TDP |
| | | 1 | | IEVSSUID SOPULERM Section 4 Post-Election Tasks | |
| O P | | | | E V55000_501 00_ERW, Section 4, 103t-Election 143ks | |

| | Α | В | С | D | F | G |
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| | E | i. | General capabilities | | EVS5000_SOP00_AMVAT | |
| | R | | | | EVS5000_SOP00_DS200 | l |
| | Α | | | | EVS5000_SOP00_DS850 | TDP |
| | Т | | | | EVS5000_SOP00_ERM | i |
| 323 324 | i - | | | | | |
| 324 | o P | VII, 2.8.4 | Operational Features | | | |
| 225 | N | | The vendor shall provide documentation of system operating | | | |
| 325 | S | | Features that meets the following requirements: A detailed description of all input, output, control, and display | | EVS5000_SOP00_AMVAT | |
| | - 1 | 1. | features accessible to the operator or voter | | EVS5000_SOP00_AMVA1 EVS5000_SOP00_DS200 | i |
| | Р | | reatures accessione to the operator or voter | | EVS5000_SOP00_DS850 | TDP |
| | R | | | | EVS5000_SOP00_ERM | 121 |
| 326 | 0 | | | | | i |
| | Č |). | Examples of simulated interactions to facilitate understanding of | | EVS5000_SOP00_AMVAT | |
| | E | | the system and its capabilities | | EVS5000_SOP00_DS200 | i |
| | c | | | | EVS5000_SOP00_DS850 | TDP |
| | Ü | | | | EVS5000_SOP00_ERM | i |
| 327 | R | | | | | ı |
| | E | : . | Sample data formats and output reports | Vol. II, 2.1 Desc. Of the TDP, Scope | EVS5000_SOP00_AMVAT | l |
| | S | | | Vol. I, 2.1.6 g. Election Management System | EVS5000_SOP00_DS200 | i |
| | 3 | | | | EVS5000_SOP00_DS850 | TDP |
| | | | | | EVS5000_SOP00_ERM | i |
| 328 | | | Illustrate and describe all status indicators and information | | TUSSOO SODOO ANVAT | |
| | (| 1. | messages | | EVS5000_SOP00_AMVAT EVS5000_SOP00_DS200 | i |
| | | | messages | | EVS5000_SOF00_DS200 EVS5000_SOF00_DS850 | TDP |
| | | | | | EVS5000_SOP00_ERM | IDF |
| 329 | | | | | 12 135000_3G1 00_11KIN | l |
| 330 | , | VII, 2.8.5 | Operating Procedures | | | |
| | | | The vendor shall provide documentation of system operating | also Vol. I, 5.1.1 Software Requirements, Software | | |
| 331 | | | procedures that meets the following requirements: | Sources | | |
| | a | 1. | Provides a detailed description of procedures required to initiate, | | EVS5000_SOP00_AMVAT | l |
| | | | control, and verify proper system operation. | | EVS5000_SOP00_DS200 | i |
| | | | | | EVS5000_SOP00_DS850 | TDP |
| 200 | | | | | EVS5000_SOP00_ERM | ı |
| 332 | 1 | | Provides procedures that clearly enable the operator to assess the | | EVS5000_SOP00_AMVAT | |
| | | o. | correct flow of system functions (as evidenced by system- | | EVS5000_SOP00_AMVA1 EVS5000_SOP00_DS200 | i |
| | | | generated status and information messages). | | EVS5000 SOP00 DS850 | TDP |
| | | | generated status and information messages). | | EVS5000_SOP00_ERM | 1151 |
| 333 | | | | | | ı |
| | d |). | Provides procedures that clearly enable the operator to intervene | | EVS5000_SOP00_AMVAT | |
| | | | in system operations to recover from an abnormal system state. | | EVS5000_SOP00_DS200 | |
| | | | | | EVS5000_SOP00_DS850 | TDP |
| | | | | | EVS5000_SOP00_ERM | |
| 334 | | | | | | |
| 1 | C | i. | Defines and illustrates the procedures and system prompts for | | EVS5000_SOP00_AMVAT | |
| | | | situations where operator intervention is required to load, | | EVS5000_SOP00_DS200 | 1 |
| | | | initialize, and start the system. | | EVS5000_SOP00_DS850 | TDP |
| 225 | | | | | EVS5000_SOP00_ERM | l |
| 335 | - | | Defines and illustrates precedures to enable and sectors to | | EVSS000_SOP00_AMVAT | |
| | e | z. | Defines and illustrates procedures to enable and control the external interface to the system operating environment if | | EVS5000_SOP00_AMVA1 EVS5000_SOP00_DS200 | |
| | | | supporting hardware and software are involved. Such | | EVS5000_SOP00_DS200 EVS5000_SOP00_DS850 | 1 |
| | | | information also shall be provided for the interaction of the | | EVS5000_SOP00_DS850 EVS5000_SOP00_ERM | TDP |
| | | | system with other data processing systems or data interchange | | 2.05000_00100_DAM | ı |
| 336 | | | protocols. | | | ı |
| 300 | f | | Provides administrative procedures and off-line operator duties (i | | EVS5000_SOP00_AMVAT | |
| | · | | any) if they relate to the initiation or termination of system | | EVS5000 SOP00 DS200 | 1 |
| | | | operations, to the assessment of system status, or to the | | EVS5000 SOP00 DS850 | TDP |
| | | | development of an audit trail. | | EVS5000_SOP00_ERM | |
| 337 | | | - | | | ı |
| | | | | | | |

| | Α | В | С | D | F | G |
|--------------|----------|-------------|---|---|--|------|
| | 9 | ζ. | | so Vol. I, 2.2.3 a. Pre-Voting Capabilities, Ballot | EVS5000_SOP00_AMVAT | - |
| | ľ | * | | d Program Installation and Control | EVS5000_SOP00_DS200 | |
| 1 1 | | | of documentation providing a schedule and steps for the software | | EVS5000_SOP00_DS850 | TDP |
| | | | and ballot installation, which includes a table outlining the key | | EVS5000_SOP00_ERM | IDP |
| | | | dates, events and deliverables. | | | |
| 338 | | | | | | |
| | ŀ | 1. | Supports diagnostic testing, specifies diagnostic tests that may be | | EVS5000_SOP00_AMVAT | |
| | | | employed to identify problems in the system, verifies the | | EVS5000_SOP00_DS200 | |
| 1 1 | | | correction of maintenance problems; and isolates and diagnoses | | EVS5000_SOP00_DS850 | TDP |
| | | | faults from various system states. | | EVS5000_SOP00_ERM | |
| 339 | _ | | | | | |
| 340 | P | VII, 2.8.6 | Operations Support The vendor shall provide documentation of system operating | | | |
| 341 | | | procedures that meets the following requirements: | | | |
| 341 | _ | 1 | Defines the procedures required to support system acquisition, | | EVS5000 SOP00 AMVAT | |
| 1 1 | · · | | installation, and readiness testing. These procedures may be | | EVS5000 SOP00 DS200 | |
| | | | provided by reference, if they are contained either in the system | | EVS5000 SOP00 DS850 | TDP |
| 1 1 | | | hardware specifications, or in other vendor documentation. | | EVS5000 SOP00 ERM | |
| 342 | | | 1 | | = = | |
| H | ì |). | Describes procedures for providing technical support, system | | EVS5000_SOP00_AMVAT | |
| | | | maintenance and correction of defects, and for incorporating | | EVS5000_SOP00_DS200 | |
| | | | hardware upgrades and new software releases. | | EVS5000_SOP00_DS850 | TDP |
| | | | | | EVS5000_SOP00_ERM | |
| 343 | | | | | | |
| 344 | 3 | VII, 2.8.7 | Appendices | | | |
| | | | The vendor may provide descriptive material and data | | | |
| | | | supplementing the various sections of the body of the System | | | |
| 1 1 | | | Operations Manual. The content and arrangement of appendices | | | |
| 1 1 | | | shall be at the discretion of the vendor. Topics recommended for | | | |
| 345 | <u> </u> | | discussion include: | | | |
| 1 1 | a | ι. | Glossary: A listing and brief definition of all terms that may be | | No glossary appendices were noted in the core SOP TDPs | |
| 0.40 | | | unfamiliar to persons not trained in either voting systems or | | | TDP |
| 346 | ļ. | | computer operations. | | N. G. P. L. H. GODTED | |
| 347 | ľ |). | References: A list of references to all vendor documents and to other sources related to operation of the system. | | No reference appendices were noted in the core SOP TDPs | TDP |
| 347 | | | Detailed Examples: Detailed scenarios that outline correct | | EVS5000_SOP00_AMVAT, Part 2 (not listed in contents), Appendix | |
| 1 1 | ١ | ·• | system responses to faulty operator input; Alternative procedures | | EVS5000_SOP00_AWVA1, Fait 2 (not listed in contents), Appendix | |
| 1 1 | | | may be specified depending on the system state. | | EVS5000_SOP00_ERM, Part 12 (not listed in contents), Appendix | TDP |
| 1 1 | | | may be specified depending on the system state. | | 2 v55000_50100_5kH, 1 at 12 (not inset in contents), 14ppendix | 1101 |
| 348 | | | | | | |
| | - | i. | Manufacturer's Recommended Security ProceduresThis | | No manufacturer's recommended security procedures appendices were noted in the core SOP TDPs | |
| | | | appendix shall contain the security procedures that are to be | | processing processing processing and the control of | TDP |
| 349 | | | executed by the system operator. | | | |
| 350 | 7 | VII, 2.9 | System Maintenance Manual | | | |
| | | | The system maintenance procedures shall provide information in | | EVS5000_SMM00_AMVAT | |
| | | | sufficient detail to support election workers, information systems | | EVS5000_SMM00_DS200 | |
| | | | personnel, or maintenance personnel in the adjustment or removal | | EVS5000_SMM00_DS850 | |
| | | | and replacement of components or modules in the field. | | | TDP |
| | | | Technical documentation needed solely to support the repair of | | | IDF |
| | | | defective components or modules ordinarily done by the | | | |
| | | | manufacturer or software developer is not required. | | | |
| 351 | | | | | | |
| | | | Recommended service actions to correct malfunctions or | | EVS5000_SMM00_AMVAT | |
| | | | problems shall be discussed, along with personnel and expertise | | EVS5000_SMM00_DS200 | |
| | | | required to repair and maintain the system; and equipment, | | EVS5000_SMM00_DS850 | TDP |
| | | | materials, and facilities needed for proper maintenance. This | | | |
| 25.0 | | | manual shall include the sections listed below. | | | |
| 352 | | VII. 2.9.1 | Introduction | | | |
| 333 | <u>'</u> | v 11, 2.9.1 | mu ouucu0ff | | | |

| Α | В | С | D | F | G |
|-----|--------------|---|---|--|--|
| | | The vendor shall describe the structure and function of the | | | |
| | | equipment (and related software) for election preparation, | | | |
| | | programming, vote recording, tabulation, and reporting in | | | |
| | | sufficient detail to provide an overview of the system for | | | |
| | | maintenance, and for identification of faulty hardware or | | | |
| | | software. The description shall include a concept of operations | | | |
| | | that fully describes such items as: | | | |
| 2 | 1 | The electrical and mechanical functions of the equipment. | | EVS5000_SMM00_AMVAT, Section 4, System Power | |
| , | •• | The electron and incomment functions of the equipment. | | EVS5000_SMM00_DS200, Section 1, Electrical Information | |
| | | | | EVS5000_SMM00_DS850, Section 1, Electrical Information | TDP |
| | | | | E V 55000_5VINOO_55050, Section 1, Electron information | 1101 |
| | | | | | |
| 1 | | How the processes of ballot handling and reading are performed | | EVS5000_SMM00_AMVAT, Section 2, Basic Functionality | |
| L L | J. | | | EVS5000_SMM00_DS200 | |
| | | (paper-based systems). | | EVS5000_SMM00_DS850 | mpp |
| | | | | EVS3000_SMM00_DS630 | TDP |
| | | | | | |
| _ | | | | | |
| C | | How vote selection and casting of the ballot are performed (DRE | | N/A - Not a DRE System | TDP |
| | | systems). | | | |
| C | i. | How transmission of data over a network is performed (DRE | | N/A - Not a DRE System | TDP |
| | | systems, where applicable. | | | |
| e | e. | How data are handled in the processor and memory units. | | EVS5000_SMM00_AMVAT | |
| | | | | EVS5000_SMM00_DS200 | TDP |
| | | | | EVS5000_SMM00_DS850 | IDF |
| | | | | | |
| f | | How data output is initiated and controlled. | | EVS5000_SMM00_AMVAT | |
| | | | | EVS5000_SMM00_DS200 | TDD |
| | | | | EVS5000_SMM00_DS850 | TDP |
| | | | | | |
| ç | ζ. | How power is converted or conditioned. | | EVS5000_SMM00_AMVAT, Section 4, System Power | |
| | - | • | | EVS5000_SMM00_DS200, Section 1, Electrical Information | |
| | | | | EVS5000_SMM00_DS850, Section 1, Electrical Information | TDP |
| | | | | | |
| | | | | | |
| ì | 1. | How test and diagnostic information is acquired and used. | | EVS5000_SMM00_AMVAT | |
| | | 1 | | EVS5000 SMM00 DS200 | |
| | | | | EVS5000_SMM00_DS850 | TDP |
| | | | | | |
| 1 | VII, 2.9.2 | Maintenance Procedures | | | |
| - F | , , | The vendor shall describe preventive and corrective maintenance | | EVS5000_SMM00_AMVAT, Section 10, Preventive Maintenance Procedures | |
| | | procedures for hardware and software. | | EVS5000_SMM00_DS200, Section 1, Introduction | |
| | | | | EVS5000_SMM00_DS850, Section 1, Introduction | TDP |
| | | | | | |
| , | VII, 2.9.2.1 | Preventive Maintenance Procedures | | | |
| | | The vendor shall identify and describe: | | | |
| - | 1 | All required and recommended preventive maintenance tasks, | | EVS5000_SMM00_AMVAT, Section 10, Preventive Maintenance Procedures | |
| ľ | | including software tasks such as software backup, database | | EVS5000_SMM00_DS200, Section 1, Introduction | 1 |
| | | performance analysis, and database tuning. | | EVS5000_SMM00_DS850, Section 1, Introduction | TDP |
| | | performance analysis, and database tuning. | | 5 155000_5/mmov_55550, Section 1, Introduction | 1 |
| 1 | | Number and skill levels of personnal required for each +1- | | EVS5000 SMM00 AMVAT Section 10 Prayantive Maintenance Procedures | 1 |
| | <i>.</i> . | Number and skill levels of personnel required for each task. | | EVS5000_SMM00_AMVAT, Section 10, Preventive Maintenance Procedures | I |
| | | | | EVS5000_SMM00_DS200, Section 1, Personnel Deployment EVS5000_SMM00_DS850, Section 1, Personnel Deployment | TDP |
| | | | | E 155000_5/M/MOO_D5650, Section 1, Fersonner Deproyment | 1 |
| _ | | Posts gunnlies angold maintanger | | EVESOOD SMMOO AMVAT | |
| 9 | j. | Parts, supplies, special maintenance equipment, software tools, or other resources needed for maintenance. | | EVS5000_SMM00_AMVAT | I |
| | | onici resources needed for maintenance. | | EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 | TDP |
| | | | | E 1 2 3 0 0 0 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 | I |
| | 1 | | | THE SOOD AND ASSESSED AND ADDRESS OF THE SOOD AND ADDRESS OF THE SOOD ADDRESS OF THE S | |
| | 1. | Any maintenance tasks that must be coordinated with the vendor | | EVS5000_SMM00_AMVAT | 1 |
| ١ | | or a third party (such as coordination that may be needed for off- | | EVS5000_SMM00_DS200 | TDP |
| | | the shalf items and in the server S | | EVECTOR CAMMON DESCO | |
| | | the-shelf items used in the system). | | EVS5000_SMM00_DS850 | 151 |
| | VII. 2.9.2.2 | the-shelf items used in the system). Corrective Maintenance Procedures | | EVS5000_SMM00_DS850 | 151 |

| ΙA | В | С | D | F | G |
|------------------|----------------|--|---|--|------|
| | | The vendor shall provide fault detection, fault isolation, | | EVS5000_SMM00_AMVAT | - |
| | | correction procedures, and logic diagrams for all operational | | EVS5000_SMM00_DS200 | |
| | | abnormalities identified by design analysis and operating | | EVS5000_SMM00_DS850 | TDP |
| 372 | | experience. | | | |
| | | The vendor shall identify specific procedures to be used in | | | |
| | | diagnosing and correcting problems in the system hardware (or | | | |
| 373 | | user-controlled software). Descriptions shall include: | | | |
| | a. | Steps to replace failed or deficient equipment. | | EVS5000_SMM00_AMVAT | |
| | | , , , , , , , , , , , , , , , , , , , | | EVS5000_SMM00_DS200 | |
| s | | | | EVS5000_SMM00_DS850 | TDP |
| 374 Y | . | | | | |
| s | b | Steps to correct deficiencies or faulty operations in software. | | EVS5000_SMM00_AMVAT | |
| | | steps to correct deficiencies of many operations in software. | | EVS5000_SMM00_DS200 | |
| T | | | | EVS5000_SMM00_DS850 | TDP |
| 375 E | | | | 5.55500_5.11.100_55500 | |
| 575 м | - | Modifications that are necessary to coordinate any modified or | | EVS5000_SMM00_AMVAT | |
| | c. | upgraded software with other software modules. | | EVS5000_SMM00_DS200 | |
| М | | apgraded software with other software modules. | | EVS5000_SMM00_DS850 | TDP |
| 376 A | | | | EV33000_3/M/M/00_D3630 | |
| 3/0 | d | The number and skill levels of1 1-1 1-1 | | EVS5000_SMM00_AMVAT | |
| N | a. | The number and skill levels of personnel needed to accomplish | | EVS5000_SMM00_AMVAT EVS5000_SMM00_DS200 | |
| | | each procedure. | | | TDP |
| Т | | | | EVS5000_SMM00_DS850 | |
| 377 E | | | | THE SECOND COLUMN TO THE SECON | |
| N | e. | Special maintenance equipment, parts, supplies, or other | | EVS5000_SMM00_AMVAT | |
| Α | | resources needed to accomplish each procedure. | | EVS5000_SMM00_DS200 | TDP |
| ozo N | | | | EVS5000_SMM00_DS850 | |
| 378 C | | | | | |
| E | | Any coordination required with the vendor, or other party, for of | | EVS5000_SMM00_AMVAT | |
| | | the shelf items. | | EVS5000_SMM00_DS200 | TDP |
| | | | | EVS5000_SMM00_DS850 | IDI |
| 379 M | | | | | |
| 380 A | | Maintenance Equipment | | | |
| N | | The vendor shall identify and describe any special purpose test or | | EVS5000_SMM00_AMVAT | |
| U | | maintenance equipment recommended for fault isolation and | | EVS5000_SMM00_DS200 | TDP |
| A | | diagnostic purposes. | | EVS5000_SMM00_DS850 | 1101 |
| 381 | | | | | |
| 382 s | VII, 2.9.4 | Parts and Materials | | | |
| 3 | | Vendors shall provide detailed documentation of parts and | | | |
| | | materials needed to operate and maintain the system. Additional | | | |
| 383 | | requirements apply for paper-based systems. | | | |
| 384 | VII, 2.9.4. | 1 Parts and Materials, Common Standards | | | |
| | | The vendor shall provide a complete list of approved parts and | Vol. I, 4.3.1 b-c. Hardware Requirements, Design, | | |
| | | materials needed for maintenance. This list shall contain | Construction, and Maintenance Characteristics, | | |
| | | sufficient descriptive information to identify all parts by: | Materials, Processes, and Parts | | |
| 385 | | | | | |
| | a. | Туре | | EVS5000_SMM00_AMVAT | |
| | | ·- | | EVS5000_SMM00_DS200 | |
| | | | | EVS5000_SMM00_DS850 | TDP |
| | | | | | |
| 386 | | | | | |
| 386 | b. | Size | | EVSS000 SMM00 AMVAT | |
| 386 | b. | Size | | EVSS000_SMM00_AMVAT EVSS000_SMM00_DS200 | |
| 386 | b. | Size | | EVS5000_SMM00_DS200 | TDP |
| | b. | Size | | | TDP |
| 386 | b. c. | | | EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 | TDP |
| | b. c. | Size Value or range | | EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 EVS5000_SMM00_AMVAT | |
| | b. c. | | | EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 EVS5000_SMM00_AMVAT EVS5000_SMM00_DS200 | TDP |
| 387 | b. c. | | | EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 EVS5000_SMM00_AMVAT | |
| | b. | Value or range | | EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 EVS5000_SMM00_AMVAT EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 | |
| 387 | b. c. | | | EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 EVS5000_SMM00_AMVAT EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 EVS5000_SMM00_AMVAT | TDP |
| 387 | b. c. d. | Value or range | | EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 EVS5000_SMM00_AMVAT EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 EVS5000_SMM00_AMVAT EVS5000_SMM00_DS200 | |
| 387 | b. c. | Value or range | | EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 EVS5000_SMM00_AMVAT EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 EVS5000_SMM00_AMVAT | TDP |

| | Α | В | С | D | F | G |
|------------|-----|--------------|--|---|--|-----|
| | e | ·. | Individual quantities needed | | EVS5000 SMM00 AMVAT | |
| | | | • | | EVS5000 SMM00 DS200 | |
| | | | | | EVS5000_SMM00_DS850 | TDP |
| 390 | | | | | | |
| | f. | | Sources from which they may be obtained | | EVS5000 SMM00 AMVAT | |
| | | | , , | | EVS5000_SMM00_DS200 | |
| | | | | | EVS5000_SMM00_DS850 | TDP |
| 391 | | | | | | |
| 392 | 7 | /II, 2.9.4.2 | Paper-Based Systems | | | |
| | | ĺ | For marking devices manufactured by multiple external sources, | | EVS5000_SMM00_DS200, Section 1, Marking Supplies | |
| | | | the vendor shall provide a listing of sources and model numbers | | | |
| | | | that are compatible with the system. | | | TDP |
| 000 | | | | | | |
| 393 | _ | | | | THE SECOND STATE OF THE SE | |
| | | | The TDP shall specify the required paper stock, size, shape, | also Vol. I, 2.2.1.3 c. and following paragraph | EVS5000_SMM00_AMVAT, Section 12, Ballot Specifications | |
| | | | opacity, color, watermarks, field layout, orientation, size and | Functional Requirements, Pre-voting Capabilities, Ballot Production; | EVS5000_SMM00_DS200, Section 1, Ballots | |
| | | | style of printing, size and location of punch or (sic) mark fields | | EVS5000_SMM00_DS850, Section 1, Ballots | |
| | | | used for vote response fields and to identify unique ballot | Vol. I, 4.1.4.2 a-b. Hardware Requirements, Vote | EVESTION ORDERO Bulliather destination | TDP |
| | | | formats, placement of alignment marks, ink for printing, and folding and bleed-through limitations for preparation of ballots | Recording Requirements, Paper Based Recording | EVS5000_ORPT02_BallotProductionGuide | |
| | | | that are compatible with the system. | Requirements | | |
| 204 | | | that are companiole with the system. | | | |
| 394 395 | - | *** * * * * | 7.1. | | | |
| 395 | - | /II, 2.9.5 | Maintenance Facilities and Support | W.I. 1. 25 W. I. D | | |
| | | | The vendor shall identify all facilities, furnishings, fixtures, and | see Vol. I, 4.3.5 e-g. Hardware Requirements, | | |
| | | | utilities that will be required for equipment maintenance. In addition, vendors shall specify the assumptions made with regard | Design, Construction, and Maintenance, | | |
| | | | | Avanabuny | | |
| | | | to any parameters that impact the mean time to repair. These factors shall include at a minimum: | | | |
| 396 | | | factors shall include at a minimum: | | | |
| 396 | L L | | December of least to the second secon | | THIS COOL CANADA AND AND AND AND AND AND AND AND AN | |
| | а | | Recommended number and locations of spare devices or | | EVS5000_SMM00_AMVAT, Section 12, Accessories | |
| | | | components to be kept on hand for repair purposes during periods of system operation. | | EVS5000_SMM00_DS200, Section 1, Spare Devices | TDP |
| 397 | | | of system operation. | | EVS5000_SMM00_DS850, Section 1, Spare Devices | |
| 397 | 1- | | Recommended number and locations of qualified maintenance | | EVS5000_SMM00_AMVAT | |
| | D |). | personnel who need to be available to support repair calls during | | EVS5000_SMM00_ANVA1 EVS5000_SMM00_DS200, Section 1, Personnel Deployment | |
| | | | system operation. | | EVS5000_SMM00_DS850, Section 1, Personnel Deployment | TDP |
| 398 | | | system operation. | | E v 35000_5 viiviou_D 3650, Section 1, Tersonner Deployment | |
| 550 | - | | Organizational affiliation (i.e., jurisdiction, vendor) of qualified | | EVS5000 SMM00 AMVAT | |
| | | • | maintenance personnel. | | EVS5000_SMM00_DS200, Section 1, Personnel Deployment | |
| | | | mantenance personner. | | EVS5000_SMM00_DS850, Section 1, Personnel Deployment | TDP |
| 399 | | | | | E v 35000_5 viiviou_D 3650, Section 1, Tersonner Deployment | |
| 400 | 7 | /II, 2.9.6 | Appendices | | | |
| 100 | ľ | 22, 217.0 | The vendor may provide descriptive material and data | | | |
| | | | supplementing the various sections of the body of the System | | | |
| | | | Maintenance Manual. The content and arrangement of | | | |
| | | | appendices shall be at the discretion of the vendor. Topics | | | |
| | | | recommended for amplification or treatment in appendices | | | |
| 401 | | | include: | | | |
| | a | ı. | Glossary: A listing and brief definition of all terms that may be | | AMVAT - No Glossary Appendix | |
| | ı" | | unfamiliar to persons not trained in either voting systems or | | DS200 - No Glossary Appendix | |
| | | | computer maintenance. | | DS850 - No Glossary Appendix | TDP |
| 402 | | | * | | · ·· | |
| | h |). | References: A list of references to all vendor documents and | | AMVAT - No Referneces Appendix | |
| | | | other sources related to maintenance of the system. | | DS200 - No References Appendix | |
| | | | | | DS850 - No References Appendix | TDP |
| 403 | | | | | ALCOHOL STATE OF THE STATE OF T | |
| | c | | Detailed Examples: Detailed scenarios that outline correct | | AMVAT - No Detailed Examples Appendix | |
| | ľ | | system responses to every conceivable faulty operator input; | | DS200 - No Detailed Examples Appendix | |
| | | | alternative procedures may be specified depending on the system | | DS850 - No Detailed Examples Appendix | TDP |
| 404 | | | state. | | · ·· | |
| | | | | | | |

| Α | В | С | D | F | G |
|-------------|-------------|--|---|---|-------|
| | d. | Maintenance and Security Procedures: This appendix shall | | AMVAT - No Maintenance and Security Procedures Appendix | |
| | | contain technical illustrations and schematic representations of | | DS200 - No Maintenance and Security Procedures Appendix | |
| | | electronic circuits unique to the system. | | DS850 - No Maintenance and Security Procedures Appendix | TDP |
|)5 | | * * | | , ,, | |
|)6 | VII, 2.10 | Personnel Deployment and Training Requirements | | | |
| Р | | The vendor shall describe the personnel resources and training | | ESSSYS_T_D_1000_TrainingProgram | mp.p. |
| - | | required for a jurisdiction to operate and maintain the system. | | | TDP |
|)7 E | VII, 2.10.1 | D 1 | | | |
| | V11, 2.10.1 | Personnel The vendor shall specify the number of personnel and skill level | | | |
| 9 S | | required to perform each of the following functions: | S | | |
| N | a. | Pre-election or election preparation functions (e.g., entering an | | ESSSYS_T_D_1000_TrainingProgram, Section 1.1.1, Pre-Election Preperation | |
| N | | election, contest and candidate information; designing a ballot; | | | TDP |
| 0 - | | generating pre-election reports), | | | |
| _ E | b. | System operations for voting system functions performed at the | | ESSSYS_T_D_1000_TrainingProgram , Section 1.1.2, System Operations at the Polling Place | TDP |
| 1 L | | polling place. | | | IDP |
| | c. | System operations for voting system functions performed at the | | ESSSYS_T_D_1000_TrainingProgram, Section 1.1.3, System Operations at the Central Count Facility | TDP |
| 2 D | | central count facility. | | | IDF |
| E | d. | Preventive maintenance tasks. | | ESSSYS_T_D_1000_TrainingProgram , Section 1.1.4, Preventive Maintenance Task | TDP |
| 3 V | | | | | 151 |
| E | e. | Diagnosis of faulty hardware or software. | | ESSSYS_T_D_1000_TrainingProgram , Section 1.1.5, Diagnosis of Faulty Hardware or Software | TDP |
| 4 L | | | | | |
| 0 | f. | Corrective maintenance tasks. | | ESSSYS_T_D_1000_TrainingProgram , Section 1.1.6, Corrective Maintenance Tasks | TDP |
| 5 P | | m c c c c 11 | | PRODUNCE TO LOOM TO CO. C. LAND TO C. L. V. C. C. C. C. L. | |
| 6 M | g. | Testing to verify the correction of problems. | | ESSSYS_T_D_1000_TrainingProgram , Section 1.1.7, Testing to Verify Correction of Problem | TDP |
| E | | A description shall be presented of which functions may be | | ESSSYS_T_D_1000_TrainingProgram , Section 2.1.6, Vendor Personnel | |
| N | | carried out by user personnel, and those that must be performed | | ESS 13_1_D_1000_11amingriogram, Section 2.1.0, Vendor Personner | TDP |
| 7 T | | by vendor personnel. | | | 151 |
| 8 | VII. 2.10.2 | Training | | | |
| A | , | The vendor shall specify requirements for the orientation and | | | |
| 9 N | | training of the following personnel: | | | |
| D | a. | Poll workers supporting polling place operations | | ESSSYS_T_D_1000_TrainingRecommendation, Section 2.1.1, Poll Worker Supporting Polling Place | mp.p. |
| 20 | | *** *** *** | | | TDP |
| . т | b. | System support personnel involved in election programming | | ESSSYS_T_D_1000_TrainingRecommendation, Section 2.1.2, System Support Personnel Involved in | TDD |
| 21 R | | | | | TDP |
| | c. | User system maintenance technicians | | ESSSYS_T_D_1000_TrainingRecommendation, Section 2.1.3, User System Maintenance Technicians | TDP |
| 22 A | | | | | IDP |
| N | d. | Network/system administration personnel (if a network is used) | | ESSSYS_T_D_1000_TrainingRecommendation, Section 2.1.4, Network/System Administration | TDP |
| 23 I | | | | | 1101 |
| N | e. | Information systems personnel | | ESSSYS_T_D_1000_TrainingProgram , Section 2.1.5, Data Personnel | TDP |
| 24 G | | | | | 151 |
| | f. | Vendor personnel | | ESSSYS_T_D_1000_TrainingProgram , Section 2.1.6, Vendor Personnel | TDP |
| 25 | TITE 2 11 | C C | WILE OF C W | | |
| 26 | VII, 2.11 | Configuration Management Plan | Vol. I, Sec. 9 Configuration Management Requirements | | |
| .0 | | Vendors shall submit a Configuration Management Plan that | see Vol. I, 9.1.1 Configuration Management | ESSSYS_CM_P_1000_ESSCMProgram | |
| | | addresses the configuration management requirements of Volum | | ESSSYS_DOC_P_1000_TDProgram | |
| | | I, Section 9 [Configuration Management Requirements]. This | see Vol. I, 9.1.3 Application of Configuration | | |
| | | plan shall describe all policies, processes, and procedures | Management Requirements; | EVS5000_CMP10_BUILD DOCUMENTATION [Folder] | |
| | | employed by the vendor to carry out these requirements. The | Vol. II, 7.4 Examination of Configuration | EVS5000_CMP10_BLD01_SEC01_EMSBuildProcedure | |
| | | Configuration Management Plan shall contain the sections | Management Practices | EVS5000_CMP10_BLD01_SEC02_EMSBuildEnvironment | |
| | | identified below. | _ | EVS5000_CMP10_BLD01_SEC03_WindowsAndVirusProtectionUpdates | |
| | | | | EVS5000_CMP10_BLD02_SEC01_AutoMARKBuildProcedure | TDP |
| | | | | EVS5000_CMP10_BLD02_SEC02_AutoMARKBuildEnvironment | |
| | | | | EVS5000_CMP10_BLD03_SEC01_DS200AncillaryBuildProcedure | |
| | | | | EVS5000_CMP10_BLD03_SEC02_DS200AncillaryBuildEnvironment | |
| | | | | EVS5000_CMP10_BLD05_SEC01_DS850FirmwareBuildProcedure | |
| | | | | EVS5000_CMP10_BLD07_SEC01_DS200FirmwareBuildProcedure | |
| | | | | | |
| 27 | | | | | |

| 429 | | | С | D | | |
|---------------------|----------|--|--|---|--|------|
| 429 | | The vendor shall provi | de a description of its organizational | see Vol. I 9.2 Configuration Management Policy; | | G |
| 429 | | | on management, addressing the specific | see Vol. II, 7.4.1 Configuration Management Policy | | |
| 429 | | requirements of Volum | ne I, Subsection 9.2. These requirements | | | |
| | | pertain to: | | | | |
| 430 | a. | Scope and nature of co | nfiguration management program activitie | | ESSSYS_CM_P_1000_ESSCMProgram, Section I.1.1, Scope | TDP |
| | b. | | of vendor's policy and practices to the | | ESSSYS_CM_P_1000_ESSCMProgram, Section 3.1, Breadth of Application | TDP |
| 431 432 | VII, 2.1 | voting system | | | | |
| 432 | VII, 2.1 | | de a description of the procedures and | see Vol. I, 9.3.1 Config. Identification Class. and | | |
| | | | ed to address the specific requirements of | Naming Config. Items; Vol. I, 9.3.2 a-c. | | |
| | | 0 | 9.3. These requirements pertain to: | Configuration Identification, Version Conventions; | | |
| | | | | Vol. II 7.4.2 Configuration Identification | | |
| 433 | | | | 3.0 | | |
| | a. | Classifying configurati | on items into categories and subcategories | | ESSSYS_CM_P_1000_ESSCMProgram, Section 4, Configuration Identification | |
| | | | | | ESSSYS_DOC_P_1000_TDProgram, Section 6, Appendix C: Document Overview, Naming and Versioning | TDP |
| 434 | | | | | | |
| | b. | Uniquely numbering or | r otherwise identifying configuration items | | ESSSYS_CM_P_1000_ESSCMProgram, Section 4, Configuration Identification | |
| | | | | | ESSSYS_DOC_P_1000_TDProgram, Section 6, Appendix C: Document Overview, Naming and Versioning | TDP |
| 435 | 1 | | | | | |
| | c. | Naming configuration | items | | ESSSYS_CM_P_1000_ESSCMProgram, Section 4, Configuration Identification | |
| 42C C | | | | | ESSSYS_DOC_P_1000_TDProgram, Section 6, Appendix C: Document Overview, Naming and Versioning | TDP |
| 436 437 | T/TT 0.1 | 11.2 P. P. 1.D. (1 | | | | |
| 437 N | VII, 2.1 | | de a description of the procedures and | Vol. I, 9.4 a-c. Baseline and Promotion | | |
| F | | | ed to address the specific requirements of | Procedures: | | |
| 1.1 | | 0 | 9.4. These requirements pertain to: | Vol. II, 7.4.3 Baseline, Promotion, and Demotion | | |
| 438 G | | voidine i, busseedon | 7.1. These requirements permit to: | Procedures | | |
| U | a. | Establishing a particula | ar instance of a system component as the | | ESSSYS_CM_P_1000_ESSCMProgram, Section 5, Baseline Promotion and Demotion | |
| 439 R | | starting baseline. | | | | TDP |
| A | b. | Promoting subsequent | instances of a component to baseline | | ESSSYS_CM_P_1000_ESSCMProgram, Section 5, Baseline Promotion and Demotion | |
| T | | throughout the system | development process for the first complete | | | TDP |
| 440 | | version of the system s | | | | |
| o | c. | | instances of a component to baseline status | EAC Testing and Certification Program Manual, | ESSSYS_CM_P_1000_ESSCMProgram, Section 5, Baseline Promotion and Demotion | |
| N | | | aintained throughout its life cycle until | Ver. 1.0, Sec. 1.13 Records Retention- | | TDP |
| | | | the system is no longer sold or | Manufacturers | | |
| 441 442 M | | maintained). | | | | |
| 442 M | VII, 2.1 | | de a description of the procedures used by | Vol. I, 9.5 a-d. Configuration Control Procedures; | | |
| N | | | | Vol. II, 7.4.4 Configuration Control Procedures; | | |
| | | | orized additions, changes, or deletions to | vol. 11, 7.4.4 Configuration Control Frocedures | | |
| A | | | quirements of Volume I, Subsection 9.5. | | | |
| G | | These requirements pe | | | | |
| E | | The state of the s | | | | |
| 443 M | | | | | | |
| 444 N | a. | Developing and mainta | nining internally developed items | | ESSSYS_CM_P_1000_ESSCMProgram, Section 6, Configuration Control Procedures | TDP |
| Т | b. | Developing and mainta | nining third party items | | ESSSYS_CM_P_1000_ESSCMProgram, Section 6, Configuration Control Procedures | TDP |
| 445 | <u> </u> | Daniel Company | | | ESSENCE CM D 1000 ESSCMD Continue Confirmation Continue Confirmation Continue Confirmation Continue Confirmation Continue Confirmation Continue Continue Confirmation Continue Confirmation Continue Continu | |
| 446 I | c. | Resolving internally id | entified defects | | ESSSYS_CM_P_1000_ESSCMProgram, Section 6, Configuration Control Procedures | TDP |
| 447 A | d. | Resolving externally ic | lentified and reported defects | | ESSSYS_CM_P_1000_ESSCMProgram, Section 6, Configuration Control Procedures | TDP |
| 447 448 N | VII. 2.1 | .11.5 Release Process | | | | |
| 1 | 711, 2.1 | | de a description of the contents of a system | see Vol. I. 9.6 Release Process: | | |
| | | | ures and related conventions by which the | | | |
| | | | rs, or migrates the system to accredited | | | |
| | | | aboratories and customers to address the | | | |
| | | | of Volume I, Subsection 9.6. These | | | |
| 449 | | requirements pertain to | | | | |
| | a. | A first release of the sy | stem to an accredited test lab. | | ESSSYS_CM_P_1000_ESSCMProgram, Section 7, Release Porcess | TDP |
| 450 | | | | I | | 1101 |

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|------------|---|-------------|--|--|---|-----|
| 454 | | b. | A subsequent maintenance or upgrade release of a system, or particular components, to an accredited test lab. | | ESSSYS_CM_P_1000_ESSCMProgram, Section 7, Release Porcess | TDP |
| 451 | | c. | The initial delivery and installation of the system to a customer. | | ESSSYS CM P 1000 ESSCMProgram, Section 7, Release Porcess | |
| 452 | | | | | | TDP |
| | | d. | A subsequent maintenance or upgrade release of a system, or | | ESSSYS_CM_P_1000_ESSCMProgram, Section 7, Release Porcess | TDP |
| 453 454 | | VII. 2.11.6 | particular components, to a customer. Configuration Audits | | | |
| 707 | | V11, 2.11.0 | The vendor shall provide a description of the procedures and | | | |
| | | | related conventions for the two audits required by Volume I, | | | |
| 455 | | | Subsection 9.7. These requirements pertain to: | | | |
| | | a. | Physical configuration audit that verifies the voting system | see Vol. I, 9.7.1 a-h. Configuration Audits, | ESSSYS_CM_P_1000_ESSCMProgram, Section 8, Configuration Audits | |
| | | | components submitted for certification testing to the vendor's technical documentation. | Physical Configuration Audit; Vol. II, 6.6 Physical Configuration Audit; Vol. II, 7.4.6 Configuration | | TDP |
| 456 | | | technical documentation. | Audits | | |
| | | b. | Functional configuration audit that verifies the system performs | see Vol. I, 9.7.2 a-b. Configuration Audits, | ESSSYS_CM_P_1000_ESSCMProgram, Section 8, Configuration Audits | |
| | | | all the functions described in the system documentation. | Functional Configuration Audit; Vol. II, 6.7 | | TDP |
| 457 | | | | Functional Configuration Audit; Vol. II, 7.4.6 Configuration Audits | | 121 |
| 457 458 | | VII. 2.11.7 | Configuration Management Resources | Configuration Audits | | |
| 100 | | V11, 2.11./ | The vendor shall provide a description of the procedures and | Vol. I, 9.8 Configuration Management Resources; | | |
| | | | related conventions for maintaining information about | Vol. II, 7.4.7 Configuration Management Resources | | |
| | | | configuration management tools required by Volume I, | | | |
| 1 | | | Subsection 9.8. These requirements pertain to information | | | |
| 459 | | | regarding: | | EGGGVG CM D 1000 EGGGMD | |
| 460 | | a. | Specific tools used, current version, and operating environment | | ESSSYS_CM_P_1000_ESSCMProgram, Section 9.1, Tools Used | TDP |
| | | b. | Physical location of the tools, including designation of computer | | ESSSYS_CM_P_1000_ESSCMProgram, Section 9.2, Tools Location | TDD |
| 461 | | | directories and files | | · | TDP |
| 460 | | c. | Procedures and training materials for using the tools | | ESSSYS_CM_P_1000_ESSCMProgram, Section 9.3, Procedures and Training for Tools | TDP |
| 462 463 | | VII. 2.12 | Ouality Assurance | | | |
| 703 | | V 11, 2.12 | Quanty Assurance | | | |

| Α | | В | С | D | F | G |
|--------------|---------------|------------|---|--|---|------|
| | | | Vendors shall submit a Quality Assurance Program that | also Vol. I, 8.2 a-e. Quality Assurance | ESSSYS_M_I_0501_WhatRequriesECO | - |
| | | | addresses the quality assurance requirements of Volume I, | Requirements, General Requirements; | ESSSYS_M_P_0500_ECOProcess | |
| | | | Section 8. This plan shall describe all policies, processes, and | Vol. II, 7.5 Examination of Quality Assurance | ESSSYS M.P. 1000 MNFQualityAssurancePlan | |
| | | | | | | |
| | | | | Practices; | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram | |
| | | | of the system for its initial development and release and for | Vol. I, 4.3.7 Workmanship; | EVS5000_QAP00_MN03_ECOPolicies and Procedures | |
| | | | subsequent modifications and releases. The Quality Assurance | Vol. I, 8.3 Components from Third Parties | EVS5000_QAP00_SWF01_Software_Firmware_Acceptance | |
| | | | Program shall, at a minimum, address the topics indicated below. | | EVS5000_QAP01_ISO cert Pivot | |
| | | | 1 rogram shan, at a minimum, address the topics maleuted below. | | EVS5000_QAP03_QA manual Pivot | |
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| | | | | | EVS5000_QAP07_DataWin Quality Assurance Manual | |
| | | | | | EVS5000_QAP08_DATAWIN ISO Certification Certificate | |
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| | | | | | DS200_AccptChklst_001Rev.A | |
| | | | | | Carrying Case QC sheet rev 1.0 | |
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| 464 T | | | | | | |
| 465 Y | V | II, 2.12.1 | Quality Assurance Policy | | | |
| | | | The vendor shall provide a description of its organizational | specific requirements listed in Vol. II, 7.5.1 Quality | | |
| 466 A | | | policies for quality assurance, including: | Assurance Policy | | |
| | _ | | | Assurance Foucy | | |
| S | | | Scope and nature of Quality Assurance activities | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 4.1, Scope | |
| S | | | | | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 4.1, Scope | TDP |
| 467 U | | | | | | |
| _ | , | | Breadth of application of vendor's policy and practices to the | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 4.2, Breadth of Application | |
| R | υ. | | | | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 4.3, Breadth of Application | TDD |
| Α | | | voting system | | ESSS1S_Q_P_0100_SoftwareQuantyAssuranceProgram, Section 4.5, Breadth of Application | TDP |
| 468 N | | | | | | |
| 469 | $-\mathbf{v}$ | II, 2.12.2 | Parts and Materials Test | | | |
| C | | | The vendor shall provide a description of its practices for parts | see Vol. I, 8.5 c. Parts and Materials Special Tests | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 5, Parts and Materials Tests | |
| E | | | and materials tests and examinations that meet the requirements | and Examinations; | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 9, Parts and Materials Tests | TDP |
| 470 | | | | | 2555 15_4_1_v100_5010macQuanty1550tamcer 10gram, 500ton 7, 1 are and materials 1055 | 11/1 |
| 470 | | | of Volume I, Subsection 8.5. | Vol. II, 7.5.2 Parts and Materials Tests | | |
| 471 | V | II, 2.12.3 | Quality Conformance Inspections | | | |
| | | | The vendor shall provide a description of its practices for quality | see also Vol. I 8.6 Quality Conformance | | |
| | | | conformance inspections that meet the requirements of Volume I | Inspections; | | |
| | | | | | | |
| | | | Subsection 8.6. For each test performed, the record of tests | Vol. II, 7.5.3 Quality Conformance Inspections | | |
| 472 | | | provided shall include: | | | |
| | a. | | Test location | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 3, Responsibility for Tests | |
| | | | | | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 3, Responsibility for Tests | TDP |
| 473 | | | | | | |
| 413 | ŀ | | m l | | | |
| | b. | • | Test date | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 3, Responsibility for Tests | |
| | | | 1 | | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 3, Responsibility for Tests | TDP |
| 474 | | | | | | |
| | | | To divide all sub-considerated the tree | | ESSEVE M D 1000 MNEO clibra consequence Disc Continue 2 Description for Tests | |
| | c. | | Individual who conducted the test | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 3, Responsibility for Tests | |
| | | | 1 | | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 3, Responsibility for Tests | TDP |
| 475 | | | 1 | | | |
| | d | | Test outcomes | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 3, Responsibility for Tests | |
| | u. | • | 1 con outcomes | | | TDD |
| 470 | | | | | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 3, Responsibility for Tests | TDP |
| 476 | | | | | | |
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|--|------|---|-------------|--|---|--|------|
| Description | 477 | | VII, 2.12.4 | | | | |
| Secure S | + | | , | | see Vol. I. 8.7 Quality Assurance Requirements | FSSSYS M P 1000 MNFOnalityAssurancePlan Section 1.3 Documentation of the Hardware and Software Development | |
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| W. | | | | | | | |
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| Value as absulance growth and service an | | | | | Vol. II, 7.5.4 Quality Assurance, Documentation | | |
| sed proving stage grown by and reviewed material cuttification shall admit a company of the company and recording the test plan for the company and recording the test plan and procedures exceeded by the control of the company and recording the test plan and procedures exceeded by the control of the company and recording the test plan and procedures exceeded by the control of the test plan and procedures exceeded by the control of the test plan and procedures exceeded by the control of the test plan and procedures exceeded by the control of the test plan and procedures exceeded by the control of the test plan and procedures exceeded by the control of the test plan and procedures exceeded by the control of the test plan and procedures exceeded by the control of the test plan and procedures exceeded by the control of the test plan and procedures exceeded by the control of the test plan and procedures exceeded by the control of the test plan and procedures exceeded by the control of the test plan and procedures exceeded by the control of the test plan and procedures | 479 | | VII, 2.13 | System Change Notes | | | |
| Section Sect | | | | Vendors submitting modifications for a system that has been | Vol. II, 2.1.1.2 Required Content for System | | |
| No. Section | | _ | | | | | |
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| Section Continue and Processing Continue and Processing Section (Continue) and Processing Continue | | Н | | | | | |
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| Section Completely revised operations, if more situable to address a large number of clausings). Completely revised operations of the test plan and procedures executed by the confort for testing his individual changes and the system is a whole with the confort for testing in individual changes and the system is a whole with the confort for testings and the system is a whole with the confort for testings and the system is a whole with the confort for testings and the system is a whole with the confort for testings and the system is a whole with the confort for testings and the system is a whole with the confort for testings and the system is a whole with the confort for testings and the system is a whole with the confort for testings and the system is a whole with the confort for testings and the system security. Completely with the confort for testings and the system security. Completely with the confort for testings and the system of the testing sequences are a confort for testing sequences and the confort for the confort for the system operation in the confort of the confort of the system operation in the confort of the confort of the system operation in the confort of the confort of the system operation in the confort of the confort of the system operation in the confort of the confort of the system operation in the confort of the confort of the system operation in the confort of the confort of the system operation in the confort of the confort of the system operation in the confort of the confort of the system operation in the confort of the | | - | c. | The specific sections of the documentation that are changed (or | | N/A | |
| Second Company of the cut plan and procedures executed by the vendor for testing the individual changes and the system is a whole, and records of set results a whole, and records of set results. Second Company of the system is a whole, and records of set results. Second Company of the Seco | | | | | | | |
| Documentation of the test plan and procedures executed by the vessfor for testing the individual charges and the system as a whole, and records of test results. | 483 | | | | | | |
| vendor for testing the individual changes and the system as a whole, and record of test results. | -,00 | S | d | | | N/A | |
| Wise, 2 Puntfound Requirements | | | a. | | | N/A | |
| Age | 404 | | | | | | |
| ### Provide documentation of mandatory administrative procedures for effective system security. ### VI. 2.1.5 System Audit | 484 | | | whole, and records of test results. | | | |
| ### Provide documentation of mandatory administrative procedures for effective system security. ### VI. 2.1.5 System Audit | 485 | | | | | | |
| ### Provide documentation of mandatory administrative procedures for effective system security. ### VI. 2.1.5 System Audit | 486 | | | | | | |
| ### Provide documentation of mandatory administrative procedures for effective system security. ### VI. 2.1.5 System Audit | 487 | | VI, 2.1 | Overall System Capabilities | | | |
| ### Provide documentation of mandatory administrative procedures for effective system security. ### VI. 2.1.5 System Audit | 488 | | VI, 2.1.1 | Security | | | |
| ### Provide documentation of mandatory administrative procedures for effective system security. ### VI. 2.1.5 System Audit | 489 | | | To ensure security, all systems shall: | | | |
| for effective system security. System Audit | | | g. | Provide documentation of mandatory administrative procedures | see Vol. I. Sec. 7 Security Requirements | EVS5000 SFD00. Section 2.1.1. Security | |
| VI_2.1.5 System Audit System's Audit System's learned implementation of [system's] specific characteristics may vary from system to system, it is the responsibility of the vendor to describe each system's characteristics in sufficient detail so that test labs and system is she responsibility of the vendor to describe each system's adult trail. This description shall be incorporated in the System Operations Manual, which is part of the Technical Data Package. System Operations Manual, which is part of the Technical Data Package. System Operations System Operation | 490 | | | for effective system security. | see Vol. II. 2.6 Software Security Specification | - : - : - : - : - : - : - : - : - : - : | TDP |
| Because the actual implementation of [system's] specific characteristics may vary from system to system, it is the responsibility of the vendor to describe each system's adult trail. This description shall be incorporated in the System Operations Manual, which is part of the Technical Data Package. 492 493 VI, 2.1.6 Election Management System The Election Management System (EMS) shall generate and maintain a database, or one or more interactive databases, that enables election officials or their designees to perform the following functions: g. Accumulate vote totals at multiple reporting levels as indicated if Vol. 11, 2.8.4 System Operations Procedures, Operational Features 495 496 497 VI, 2.1.7.1 Vote Tabulating Program VI, 2.1.7.2 Vote Tabulating Program, Functions 498 499 499 Closed primaries FUSSIONO_SFDON_Section 2.1.7.2 (not listed in contents), Voting Variations TDP Open primaries FUSSIONO_SFDON_Section 2.1.7.2 (not listed in contents), Voting Variations TDP TDP TDP TDP TDP TDP TDP TD | 491 | | VI. 2.1.5 | , , | , | | |
| characteristics may vary from system to system, it is the responsibility of the vendor to describe each system's characteristics is sufficient details of but test labs and system users can evaluate the adequacy of the system's sudit trail. This description shall be incorporated in the System Operations Manual, which is part of the Technical Data Package. VI, 2.1.6 Election Management System (EMS) shall generate and maintain a database, or one or more interactive databases, that enables election officials or their designees to perform the following functions: \$\frac{\text{S}}{\text{A}} \text{Countilate}{\text{V}} \text{Countilate}{ | | | , | | see Vol. II. 2.8.1 TDP System Operations | FVS5000_SED00_Section 2.1.5_System Audit | |
| sesponsibility of the vendor to describe each system's characteristics in sufficient detail so that test labs and system users can evaluate the adequacy of the system's audit trail. This description shall be incorporated in the System Operations Manual, which is part of the Technical Data Package. 492 493 494 495 496 497 497 498 498 499 499 499 499 | | | | | | 2 155000_51 2500, Section 2.115, 5) steam 1 Main | |
| characteristics in sufficient details of maters labs and system users can evaluate the adequacy of the system's audit trail. This description shall be incorporated in the System Operations Manual, which is part of the Technical Data Package. VI, 2.1.6 Election Management System | | | | | 1 roccuties, introduction | | |
| users can evaluate the adequacy of the system's saudit trail. This description shall be incorporated in the System Operations Manual, which is part of the Technical Data Package. VI, 2.1.6 Election Management System The Election Management System (EMS) shall generate and maintain a database, or one or more interactive databases, that enables election officials or their designees to perform the following functions: E. Accumulate vote totals at multiple reporting levels as indicated in Vol. II, 2.8.4 System Operations Procedures, Operational Features VI, 2.1.7 Vote Tabulating Program VI, 2.1.7.1 Vote Tabulating Program, Functions VI, 2.1.7.2 Voting Variations The Technical Data Package accompanying the system shall specifically identify which of the following itemsean and anout be supported by the voting system, as well ashow the voting system can implement the items supported: Closel primaries Closel primaries EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP TDP TDP TDP TDP TDP TDP TD | | | | | | | |
| description shall be incorporated in the System Operations Manual, which is part of the Technical Data Package. 492 493 494 495 496 497 497 498 498 498 499 499 499 | | | | | | | mpp |
| Manual, which is part of the Technical Data Package. 492 493 VI, 2.1.6 Election Management System (EMS) shall generate and maintain a database, or one or more interactive databases, that enables election officials or their designees to perform the following functions: EVS5000_SFD00, Section 2.1.6, Election management System VI, 2.1.7 Vote Tabulating Program VI, 2.1.7.1 Vote Tabulating Program, Functions VI, 2.1.7.2 Voting Variations The Technical Data Package accompanying the system shall specifically identify which of the following itemsean and cannow be supported by the voting system, as well asknow the voting system, as well asknow the voting system an implement the items supported: EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP TDP TDP TDP TDP TDP TDP TD | | | | | | | TDP |
| 492 493 494 495 496 497 498 498 499 499 499 499 499 499 499 499 | | | | | | | |
| VI, 2.1.6 Election Management System The Election Management System (EMS) shall generate and maintain a database, or one or more interactive databases, that enables election officials or their designees to perform the following functions: VI, 2.1.7 Vote Tabulating Program VI, 2.1.7 Vote Tabulating Program VI, 2.1.7 Vote Tabulating Program, Functions VI, 2.1. | | | | Manual, which is part of the Technical Data Package. | | | |
| VI, 2.1.6 Election Management System The Election Management System (EMS) shall generate and maintain a database, or one or more interactive databases, that enables election officials or their designees to perform the following functions: VI, 2.1.7 Vote Tabulating Program VI, 2.1.7 Vote Tabulating Program VI, 2.1.7 Vote Tabulating Program, Functions VI, 2.1. | | | | | | | |
| VI, 2.1.6 Election Management System The Election Management System (EMS) shall generate and maintain a database, or one or more interactive databases, that enables election officials or their designees to perform the following functions: VI, 2.1.7 Vote Tabulating Program VI, 2.1.7 Vote Tabulating Program VI, 2.1.7 Vote Tabulating Program, Functions VI, 2.1. | 492 | | | | | | |
| The Election Management System (EMS) shall generate and maintain a database, or one or more interactive databases, that enables election officials or their designees to perform the following functions: 2495 2495 2496 250 2497 2498 2498 2498 2499 2499 2499 2499 250 260 260 260 260 270 270 270 27 | 493 | | VI, 2.1.6 | Election Management System | | | |
| maintain a database, or one or more interactive databases, that enables election officials or their designees to perform the following functions: ### Accumulate vote totals at multiple reporting levels as indicated in Vol. II, 2.8.4 System Operations Procedures, Operational Features ### VI, 2.1.7 Vote Tabulating Program ### VI, 2.1.7.1 Vote Tabulating Program, Functions ### VI, 2.1.7.2 Voting Variations ### VI, 2.1.7.2 Voting Variations ### The Technical Data Package accompanying the system shall specifically identify which of the following itemsar and cannot be supported by the voting system, as well ashow the voting system can implement the items supported: ### Closed primaries ### Closed primaries ### EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations ### TDP ### TDP ### TDP ### EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations ### TDP ### TD | | | | | | | |
| enables election officials or their designees to perform the following functions: 2. Accumulate vote totals at multiple reporting levels as indicated it Vol. II, 2.8.4 System Operations Procedures, the system documentation. 2. VI, 2.1.7 Vote Tabulating Program 496 497 498 499 499 700 700 700 700 700 700 | | | | | | | |
| Following functions: Foundation Founda | | | | | | | |
| g. Accumulate vote totals at multiple reporting levels as indicated in the system documentation. VI, 2.1.7 Vote Tabulating Program VI, 2.1.7.1 Vote Tabulating Program, Functions VI, 2.1.7.2 Voting Variations The Technical Data Package accompanying the system shall specifically identify which of the following itemsan and cannot be supported by the voting system, as well ashow the voting system can implement the items supported: Closed primaries Devision Section 2.1.6, Election management System EVS5000_SFD00, Section 2.1.6, Election management System TDP TDP TDP TDP TDP TDP TDP | 101 | | | | | | |
| the system documentation. Operational Features VI, 2.1.7 Vote Tabulating Program VI, 2.1.7.1 Vote Tabulating Program, Functions VI, 2.1.7.2 Voting Variations The Technical Data Package accompanying the system shall specifically identify which of the following itemsan and cannot be supported by the voting system, as well ashow the voting system can implement the items supported: Closed primaries EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP | 434 | | _ | Ü | Wal H 2 8 4 Control On continue Proceed | EVISEOUS SETUS Continue 2.17. Electrica processorate Sections | |
| VI, 2.1.7 Vote Tabulating Program VI, 2.1.7.1 Vote Tabulating Program, Functions VI, 2.1.7.2 Voting Variations The Technical Data Package accompanying the system shall specifically identify which of the following itemsan and cannot be supported by the voting system, as well ashow the voting system can implement the items supported: Closed primaries VI, 2.1.7.2 Voting Variations Vol. II, 2.1 Description of the Tech. Data Package, Scope Scope EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP Open primaries TDP | 405 | | g. | | | EVS5000_SFD00, Section 2.1.o, Election management System | TDP |
| 497 498 497 498 498 499 499 499 499 499 499 499 499 | 495 | | | · | Operational Features | | |
| 498 VI, 2.1.7.2 Voting Variations | | | VI, 2.1.7 | Vote Tabulating Program | | | |
| 498 VI, 2.1.7.2 Voting Variations | 496 | | | | | | |
| 498 VI, 2.1.7.2 Voting Variations | 497 | | | | | | |
| specifically identify which of the following itemsan and cannot be supported by the voting system, as well ashow the voting system can implement the items supported: Closed primaries EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP Open primaries EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP | 498 | | VI, 2.1.7.2 | | | | |
| specifically identify which of the following itemsan and cannot be supported by the voting system, as well ashow the voting system can implement the items supported: Closed primaries EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP Open primaries EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP | | | | The Technical Data Package accompanying the system shall | Vol. II, 2.1 Description of the Tech. Data Package, | | |
| be supported by the voting system, as well ashow the voting system can implement the items supported: EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP Open primaries EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP | | | | | Scope | | |
| 499 system can implement the items supported: EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP 500 Open primaries EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP | | | | | | | |
| Closed primaries EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP Open primaries EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations TDP | 499 | | | | | | |
| 500 Open primaries EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | -55 | | | | | EVS5000_SED00_Section 2.1.7.2 (not listed in contents). Voting Variations | |
| Open primaries EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | 500 | | | Closed primaries | | 2 105000_01 200, 000001 2.1.7.2 (not inseed in contents), young validations | TDP |
| | 300 | | | 0 | | EVISEOUS SETOIS Continue 2.1.7.2 (and bind in contratt) Vertica Veriations | |
| | E04 | | | Ореп ргіпагіея | | EVS3000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | TDP |
| | JUI | | l | | | | |

| 1 | АВ | С | D | F | G |
|------------|-------------|--|--|--|------|
| — | , b | - | | · | G |
| 502 | | Partisan offices | | EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | TDP |
| 302 | - | Non-partisan offices | | EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | |
| 503 | | Non-partisan offices | | EVS5000_5FD00, Section 2.1.7.2 (not fisted in contents), voting variations | TDP |
| 303 | - | Write-in voting | | EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | |
| 504 | | write-in voting | | EVS5000_SFD00, Section 2.1.7.2 (not insted in contents), voting variations | TDP |
| 304 | | Primary presidential delegation nominations | | EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | |
| 505 | | i imary presidential delegation nonlinations | | E v 35000_31 D00, Section 2.1.7.2 (not insect in contents), voting variations | TDP |
| 000 | | Ballot rotation | | EVS5000 SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | |
| 506 | | Build Tourish | | 2 - 55000_51 200, Section 2.111.2 (not inseed in commonly, Voting Virtualions) | TDP |
| | | Straight party voting | | EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | |
| 507 | | | | | TDP |
| | | Cross-party endorsement | | EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | |
| 508 | | | | - · · · · · · · · · · · · · · · · · · · | TDP |
| | | Split precincts | | EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | mpp |
| 509 | | | | | TDP |
| | | Vote for N of M | | EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | TDD |
| 510 | | | | | TDP |
| | | Recall issues with options | | EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | TDD |
| 511 | | | | | TDP |
| | | Cumulative voting | | EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | TDP |
| 512 | | | | | IDP |
| | | Support of ranked order voting | | EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | TDD |
| 513 | | | | - ' ' ' | TDP |
| | | Provisional or challenged ballots | | EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations | TDD |
| 514 | | | | | TDP |
| 515 | VI, 2.1.10 | Data Retention | | | |
| | | All systems shall maintain integrity of voting and audit data | Vol. II, Sec. 2.3 System Functionality Description | EVS5000_SFD00, Section 2.1.10, Data Retention | TIND |
| 516 | | during an election and for at least 22 months thereafter. | | | TDP |
| 516 517 | VI, 2.2 | Pre-Voting Capabilities | | | |
| 518 519 | VI, 2.2.1 | Ballot Preparation | | | |
| 519 | VI, 2.2.1.1 | General Capabilities | | | |
| | | All systems shall provide the general capabilities for ballot | | | |
| 520 | | preparation. All systems shall be capable of: | | | |
| | c. | Supporting the maximum number of potentially active voting | Vol. II, 2.2.2a, System Performance | EVS5000_SFD00, Section 2.2.1.1 (not listed in contents), General Capablities | TDP |
| 521 | | positions as indicated in the system documentation. | | | IDF |
| 522 | VI, 2.2.1.3 | Ballot Production | | | |
| | | Vendor documentation for mark sense systems shall include | see also Vol. II, 2.9.4.2 TDP, System Maintenance | EVS5000_SFD00, Section 2.2.1.3 (not listed in contents), Ballot Production | |
| | | specifications for ballot materials to ensure that vote selections | Manual, Parts and Materials, Paper-based Systems | | |
| | | | Vol. I, 4.1.4.2 a-b, Vote Recording Requirements, | | TDP |
| | | | Paper-based Systems | | 1101 |
| | | through from other ballots). | | | |
| 523 | | | | | |
| 524 | VI, 2.2.3 | Ballot and Program Installation and Control | | | |
| | | All systems provide a means of installing ballots and programs or | | | |
| | | each piece of polling place or central count equipment according | | | |
| | | to the ballot requirements of the election and the jurisdiction. All | | | |
| | | systems shall include the following at the time of ballot and | | | |
| 525 | | program installation: | | | |
| | a. | | see also Vol II, 2.8.5g. TDP, System Operation | EVS5000_SFD00, Section 2.2.3, Ballot Program Installation and Control | |
| | | schedule and steps for the software and ballot installation, | Procedures, Operating Procedures | | TDP |
| | | including a table outlining the key dates, events, and deliverables | | | 1151 |
| 526 | | | | | |
| 527 528 | VI, Sec. 3 | Usability and Accessibility Requirements | | | |
| 528 | 3.1 | Usability Requirements | | | |
| 529 | VI, 3.1.1 | Usability Testing | | | |

| | A | В | С | D | F | G |
|-----|--------|-------------|--|--|---|-----|
| | | | The vendor shall conduct summative usability tests on the voting | EVS5000_SFD00 | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - AutoMARK | |
| | | | system using individuals representative of the general population | | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - DS200 | |
| | | | The vendor shall document the testing performed and report the | | | |
| | | | test results using the Common Industry Format. This | | | TDP |
| | | | documentation shall be included in the Technical Data Package | | | |
| | | | submitted to the EAC for national certification. | | | |
| 530 | | | | THE DELEGIES OF A LOSS OF A COST AND A LOSS OF | NISSES CARROLL IN D. G. L. L. L. D. G. L. | |
| | | | | EAC RFI 2007-03 dated 9/5/07: 2005 VVSG Vol. I Sec. 3.1.1 | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - AutoMARK | |
| | | | realistic usability tests on the final product. For the present, vendors can define their own testing protocols. | Sec. 5.1.1 | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - DS200 | TDP |
| | | | vendors can define their own testing protocors. | | | IDP |
| 531 | | | | | | |
| 00. | EAC | C RFI 2007- | EAC Decision on Request for Interpretation 2007-03, 2005 | | | |
| | | | VVSG Vol. I Section 3.1.1 | | | |
| | 5, 200 | | | | | |
| 532 | 1 | | | | | |
| | | | Per EAC RFI 2007-03, the question was asked whether the | | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - AutoMARK | |
| 1 1 | | | manufacturer is required to submit the summative usability | | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - DS200 | |
| 1 1 | | | testing report to the VSTL conducting the testing of the voting | | | |
| | | | system, or to the EAC. The EAC conclusion:" The EAC | | | |
| | | | concludes that manufacturers must submit the summative | | | |
| | | | usability test report required by Section 3.1.1 of the 2005 VVSG | | | TDP |
| | | | Vol. 1 to the VSTL for review. In addition, the usability test | | | |
| | | | report shall be submitted to the EAC as part of the | | | |
| | | | documentation manufacturers are required to file with the application to test a voting system. (continued below) | | | |
| 500 | | | application to test a voting system. (continued below) | | | |
| 533 | | | (continued from above) This interpretation is consistent with the | | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - AutoMARK | |
| | | | intent of the requirement which was to ensure that the voting | | EVS5000_OVR00, Appendix D, Common Industry Format for Usability Test Report - AutoMARK EVS5000_OVR00, Appendix D, Common Industry Format for Usability Test Report - DS200 | |
| | | | system meets the usability requirements of the 2005 VVSG. | | Ev35000_Ovk00, Appendix D, Common industry Pormat for Osabitty Test Report - D3200 | |
| | | | Consistent with the 2005 VVSG the manufacturer must submit | | | |
| | | | the usability test report to the VSTL as part of the technical | | | |
| | | | data package submitted to the laboratory. The VSTL will then | | | |
| | | | check the technical data package to ensure that the report is | | | TDP |
| | | | present and reported in the common industry format. If the | | | |
| | | | VSTL finds the usability test report to be inconsistent with the | | | |
| | | | common industry format the VSTL shall note the discrepancy in | | | |
| | | | its final report to the EAC". | | | |
| 534 | | | | | | |
| 535 | VI, 3. | 3.2.2.1 | Partial Vision | | | |
| 1 1 | a. | | | Vol. II, 2.1.1 Description of the TDP, Required | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - AutoMARK | |
| 1 1 | | | system using partially sighted individuals. The vendor shall | Content | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - DS200 | |
| | | | document the testing performed and report the test results using | | | TDP |
| | | | the Common Industry Format. This documentation shall be included in the Technical Data Package submitted to the EAC for | | | |
| 536 | | | national certification. | | | |
| 550 | | ŀ | Discussion: Voting system vendors are required to conduct | | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - AutoMARK | |
| | | | realistic usability tests on the final product. For the present, | | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - AutoMARK EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - DS200 | |
| 1 1 | | | vendors can define their own testing protocols. | | | TDP |
| | | | | | | |
| 537 | | | | | | |
| 538 | VI, 3. | 3.2.2.2 | Blindness | | | |
| | a. | | The vendor shall conduct summative usability tests on the voting | | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - AutoMARK | |
| | | | system using individuals who are blind. The vendor shall | Content | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - DS200 | |
| | | | document the testing performed and report the test results using | | | TDP |
| | | | the Common Industry Format. This documentation shall be | | | |
| | | | included in the Technical Data Package submitted to the EAC for | | | |
| 539 | | | national certification. | | | |

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| \vdash | + | | Discussion: Voting system vendors are required to conduct | Fbl | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - AutoMARK | |
| | | | realistic usability tests on the final product. For the present, | 101 | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - DS200 | |
| | | | vendors can define their own testing protocols. | | 27 Source of Nove, Appendix D, Common managery Formación Contonio | TDP |
| | | | vendors can define their own testing protocols. | | | 1101 |
| 540 | | | | | | |
| 0.10 | c | | All voting stations that provide audio presentation of the ballot | | | |
| 541 | | • | shall conform to the following requirements: | | | |
| <u> </u> | c | . iv. | A sanitized headphone or handset shall be made available to each | | EVS5000_SFD00, Section 2.1.11, Additional Overall Capabilities | |
| 542 | | | voter. | | | TDP |
| | | | Discussion: this requirement can be achieved in various ways, | | EVS5000_SFD00, Section 2.1.11, Additional Overall Capabilities | |
| | | | including the use of "throwaway" headphones, or of sanitary | | • | TDP |
| 543 | | | coverings. | | | |
| 544 | V | /I, 3.2.3 | Dexterity | | | |
| | a | | The vendor shall conduct summative usability tests on the voting | Vol. II, 2.1.1 Description of the TDP, Required | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - AutoMARK | |
| | | | system using individuals lacking fine motor control. The vendor | Content | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - DS200 | |
| | | | shall document the testing performed and report the test results | | | TIDD |
| | | | using the Common Industry Format. This documentation shall be | | | TDP |
| | | | included in the Technical Data Package submitted to the EAC for | | | |
| 545 | | | national certification. | | | |
| | | | Discussion: Voting system vendors are required to conduct | | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - AutoMARK | |
| | | | realistic usability tests on the final product. For the present, | | EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - DS200 | |
| | | | vendors can define their own testing protocols. | | | |
| 1 1 | | | | | | |
| 546 | | | | | | |
| 547 | V | /I, 4 | Hardware Requirements | | | |
| 548 | V | /I, 4.1.2 | Environmental Requirements | | | |
| | | | The Technical Data Package supplied by the vendor shall include | also Vol. II, 2.4.1 TDP, System Hardware | EVS5000_SHS00_DS200, Section 2.1.2, Environmental Requirements | |
| | | | a statement of all requirements and restrictions regarding | Characteristics | EVS5000_SHS00_DS850, Section 2.1.2, Environmental Requirements | |
| | | | environmental protection, electrical service, recommended | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1B, Physical Character | TDP |
| | | | auxiliary power, telecommunications service, and any other | | | 1101 |
| | | | facility or resource required for the proper installation and | | | |
| 549 | L | | operation of the system. | | | |
| 550 | V | /I, 4.1.3.2 | Memory Stability | | | |
| | | | Memory devices used to retain election management data shall | Vol. II, 2.3 System Functionality Description | EVS5000_SHS00_DS200, Section 2.1.3.2, Memory Stability | |
| | | | have demonstrated error-free data retention for a period of 22 | | EVS5000_SHS00_DS850, Section 2.1.3.2, Memory Stability | TDP |
| ll | | | months. | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F | |
| 551 | L | | | | | |
| 552 | | /I, 4.1.4 | Vote Recording Requirements | | | |
| 553 | | / I, 4.1.4.2 .iii. | Paper Based Recording Requirements | WI WAS CATED ON THE COMME | THIS COLUMN THE STATE OF THE ST | |
| | a | .111. | The Technical Data Package shall specify the required paper | Vol. II, 2.9.4.2 TDP, System Maintenance Manual, | EVS5000_SHS00_DS200, Section 2.1.4.2, Paper-based Recording Requirments | |
| | | | stock, size, shape, opacity, color, watermarks, field layout, | Parts and Materials, Paper-based Systems | EVS5000_SHS00_DS850, Section 2.1.4.2, Paper-based Recording Requirments | |
| | | | orientation, size and style of printing, size and location of mark | also Vol. I, 2.2.1.3 Ballot Production | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F | |
| | | | fields used for vote response fields and to identify unique ballot formats, placement of alignment marks, ink for printing, and | | | TDP |
| | | | folding and bleed-through limitations for preparation of ballots | | | |
| | | | | | | |
| EE 1 | | | that are compatible with the system. | | | |
| 554 | , | | The Technical Data Backage shellififif | Vol. II, 2.9.4.2 TDP, System Maintenance Manual, | EVS5000 CHS00 DS200 Section 2.1.4.2 Department Becombine Description | |
| 1 1 | D | | The Technical Data Package shall specify marking devices, which, if used to make the prescribed form of mark, produce | Vol. II, 2.9.4.2 TDP, System Maintenance Manual, Parts and Materials, Paper-based Systems | EVS5000_SHS00_DS200, Section 2.1.4.2, Paper-based Recording Requirments EVS5000_SHS00_DS850, Section 2.1.4.2, Paper-based Recording Requirments | |
| | | | readable marked ballots such that the system meets the | also Vol. I, 2.2.1.3 Ballot Production | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F | |
| 1 1 | | | performance requirements for accuracy in Subsection 4.1.1. | uso voi. 1, 2.2.1.5 Danoi Production | AutomAKK_L55_5ystem_natuwate_opecinications_AQ5-16-3000-001-r | TDP |
| | | | Marking devices can be either manual (such as pens or pencils) o | | | IDP |
| | | | electronic. These specifications shall identify: | | | |
| 555 | | | electronic. These specifications shall identify. | | | |
| 555 | | | Specific characteristics of marking devices that affect | | EVS5000_SHS00_DS200, Section 2.1.4.2, Paper-based Recording Requirments | |
| | | | readability of marked ballots | | EVS5000_SHS00_DS50, Section 2.1.4.2, Paper-based Recording Requirments EVS5000_SHS00_DS850, Section 2.1.4.2, Paper-based Recording Requirments | |
| 1 1 | | | readability of marked banots | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F | TDP |
| 556 | | | | | Auto-mark_255_5ystem_nauwaic_specifications_AQS-16-5000-001-1 | |
| 330 | | | ii. Performance capabilities with regard to each characteristic | | EVS5000_SHS00_DS200, Section 2.1.4.2, Paper-based Recording Requirments | |
| | | | ii. 1 crosmance capabilities with regard to each characteristic | | EVS5000_SHS00_DS500, Section 2.1.4.2, Paper-based Recording Requirments | |
| | | | | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F | TDP |
| | - 1 | | | | Machinetic Constitution of the Constitution of | |
| 557 | | | | | | |

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| | | <u> </u> | F F F F F F F F F F F F F F F F F F F | 9 |
| | iii. For marking devices manufactured by multiple external | | EVS5000_SHS00_DS200, Section 2.1.4.2, Paper-based Recording Requirments | |
| | sources, a listing of sources and model numbers that are | | EVS5000_SHS00_DS850, Section 2.1.4.2, Paper-based Recording Requirments | TDP |
| | compatible with the system | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F | IDF |
| | | | | |
| d. | Ballot boxes and ballot transfer boxes, which serve as secure | | | |
| | containers for the storage and transportation of ballots, shall: | | | |
| | 3 | | | |
| | ii. Incorporate locks and seals, the specifications of which are | also Vol. II, 2.9.4.2 TDP, System Maintenance | EVS5000_SSS07_PhysEquipmentSecurityBestPract | |
| | described in the system documentation. | Manual, Parts and Materials, Paper-based Systems | EVS5000_SHS00_DS200, Section 2.1.4.2, Paper-based Recording Requirments | |
| | described in the system documentation. | Manual, 1 aris and Malerials, 1 aper-based Systems | | mpp |
| | | | EVS5000_SHS00_DS850, Section 2.1.4.2, Paper-based Recording Requirments | TDP |
| | | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F | |
| | | | | |
| VI, 4.1.5 | Paper-based Conversion Requirements | | | |
| VI, 4.1.5.1 | Ballot Handling | | | |
| a. | | Vol. II, 2.2.2 System Performance | EVS5000_SHS00_DS200, Section 2.1.5, Paper-based Conversion Requirements | |
| | through the read station, and transfer into a collection station or | | EVS5000_SHS00_DS850, Section 2.1.5, Paper-based Conversion Requirements | |
| | receptacle. The capacity to convert the marks on individual | | AutoMARK ESS System Hardware Specifications AQS-18-5000-001-F | |
| | ballots into signals is uniquely important to central count systems | | ,, | |
| | The capacity for a central count system shall be documented | | | TDP |
| | | | | |
| | by the vendor. This documentation shall include the capacity for | | | |
| | individual components that impact the overall capacity. | 1 | | |
| | | | | |
| VI, 4.1.6 | Tabulation Processing Requirements | | | |
| VI, 4.1.6.1 | Paper-based System Processing Requirements | W. W. G. G. B | THE SECOND PROPERTY OF | |
| o. | Paper-based system memory devices, used to retain control | Vol. II, 2.3 System Functionality Description | EVS5000_SHS00_DS200, Section 2.1.6.1, Paper-based System Processing Requirements | |
| | programs and data, shall have demonstrated error-free data | | EVS5000_SHS00_DS850, Section 2.1.6.1, Paper-based System Processing Requirements | |
| | retention for a period of 22 months, under the environmental | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F | TDP |
| | conditions for operation and non-operation (i.e., storage). | | | |
| | | | | |
| VI, 4.1.6.2 | DRE System Processing Requirements | | | |
| | The DRE voting systems processing requirements address all | | | |
| | mechanical devices, electromechanical devices, electronic device | | | |
| | and software required to process voting data after the polls are | | | |
| | closed. | | | |
| C. | DRE system memory devices used to retain control programs and | Vol. II, 2.3 System Functionality Description | EVS5000 SHS00 DS200, Section 2.1.6.1, Paper-based System Processing Requirements | |
| | data shall have demonstrated error-free data retention for a period | 1 | EVS5000_SHS00_DS850, Section 2.1.6.1, Paper-based System Processing Requirements | |
| | | i | | |
| | | 1 | | |
| | of 22 months. Error-free retention may be achieved by the use of | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F | TDP |
| | redundant memory elements, provided that the capability for | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F | TDP |
| | | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-50000-001-F | TDP |
| | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-2000-001-F | TDP |
| VI, 4.1.7 | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-2000-001-F | TDP |
| VI, 4.1.7 VI, 4.1.7.1 | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media | Val. III 23 Course Fronts - 15 Pro-15 | | TDP |
| | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed | Vol. II, 2.3 System Functionality Description | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements | TDP |
| | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting system and transported to another location for | Vol. II, 2.3 System Functionality Description | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements | TDP |
| | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed | Vol. II, 2.3 System Functionality Description | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements | TDP |
| | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting system and transported to another location for | Vol. II, 2.3 System Functionality Description | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements | TDP |
| | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting system and transported to another location for readout and report generation, these media shall use devices with | Vol. II, 2.3 System Functionality Description | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements | |
| | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting system and transported to another location for readout and report generation, these media shall use devices with demonstrated error-free retention for a period of 22 months under the environmental conditions for operation and non-operation | Vol. II, 2.3 System Functionality Description | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements | TDP |
| | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting system and transported to another location for readout and report generation, these media shall use devices with demonstrated error-free retention for a period of 22 months under the environmental conditions for operation and non-operation contained in Subsection 4.1.2. Examples of removable storage | Vol. II, 2.3 System Functionality Description | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements | |
| | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting system and transported to another location for readout and report generation, these media shall use devices with demonstrated error-free retention for a period of 22 months under the environmental conditions for operation and non-operation contained in Subsection 4.1.2. Examples of removable storage media include: programmable read-only memory (PROM), | Vol. II, 2.3 System Functionality Description | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements | |
| | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting system and transported to another location for readout and report generation, these media shall use devices with demonstrated error-free retention for a period of 22 months under the environmental conditions for operation and non-operation contained in Subsection 4.1.2. Examples of removable storage media include: programmable read-only memory (PROM), random access memory (RAM) with battery backup, magnetic | Vol. II, 2.3 System Functionality Description | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements | |
| | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting system and transported to another location for readout and report generation, these media shall use devices with demonstrated error-free retention for a period of 22 months under the environmental conditions for operation and non-operation contained in Subsection 4.1.2. Examples of removable storage media include: programmable read-only memory (PROM), | Vol. II, 2.3 System Functionality Description | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements | |
| VI, 4.1.7.1 | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting system and transported to another location for readout and report generation, these media shall use devices with demonstrated error-free retention for a period of 22 months under the environmental conditions for operation and non-operation contained in Subsection 4.1.2. Examples of removable storage media include: programmable read-only memory (PROM), random access memory (RAM) with battery backup, magnetic media, or optical media. | Vol. II, 2.3 System Functionality Description | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements | |
| | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting system and transported to another location for readout and report generation, these media shall use devices with demonstrated error-free retention for a period of 22 months under the environmental conditions for operation and non-operation contained in Subsection 4.1.2. Examples of removable storage media include: programmable read-only memory (PROM), random access memory (RAM) with battery backup, magnetic media, or optical media. Printers | | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements | |
| VI, 4.1.7.1 | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting system and transported to another location for readout and report generation, these media shall use devices with demonstrated error-free retention for a period of 22 months under the environmental conditions for operation and non-operation contained in Subsection 4.1.2. Examples of removable storage media include: programmable read-only memory (PROM), random access memory (RAM) with battery backup, magnetic media, or optical media. Printers All printers used to produce reports of the vote count shall be | Vol. II, 2.3 System Functionality Description Vol. II, 2.4 System Hardware | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements | |
| VI, 4.1.7.1 | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting systems that use storage media that can be removed from the voting system and transported to another location for readout and report generation, these media shall use devices with demonstrated error-free retention for a period of 22 months under the environmental conditions for operation and non-operation contained in Subsection 4.1.2. Examples of removable storage media include: programmable read-only memory (PROM), random access memory (RAM) with battery backup, magnetic media, or optical media. Printers All printers used to produce reports of the vote count shall be capable of producing: | | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F | |
| VI, 4.1.7.1 | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting system and transported to another location for readout and report generation, these media shall use devices with demonstrated error-free retention for a period of 22 months under the environmental conditions for operation and non-operation contained in Subsection 4.1.2. Examples of removable storage media include: programmable read-only memory (PROM), random access memory (RAM) with battery backup, magnetic media, or optical media. Printers All printers used to produce reports of the vote count shall be | | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F EVS5000_SHS00_DS200, Section 2.1.7.2, Printers | TDP |
| VI, 4.1.7.1 | redundant memory elements, provided that the capability for conflict resolution or correction among elements is included. Reporting Requirements Removable Storage Media In voting systems that use storage media that can be removed from the voting systems that use storage media that can be removed from the voting system and transported to another location for readout and report generation, these media shall use devices with demonstrated error-free retention for a period of 22 months under the environmental conditions for operation and non-operation contained in Subsection 4.1.2. Examples of removable storage media include: programmable read-only memory (PROM), random access memory (RAM) with battery backup, magnetic media, or optical media. Printers All printers used to produce reports of the vote count shall be capable of producing: | | EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F | |

| Section office and store labels; and Section office and store and part of the addition of the store of the addition of the addition of the store of the addition of the additio | Α | В | С | D | F | G |
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| Section Sect | | b. | Election, office and issue labels; and | | EVS5000 SHS00 DS200, Section 2.1.7.2, Printers | - |
| Manual Action Top | | | | | EVS5000 SHS00 DS850, Section 2.1.7.2, Printers | |
| Application country generated as part of the audit record Proceedings of the audit record Proceding Generation Proceding Generati | | | | | AutoMARK ESS System Hardware Specifications AQS-18-5000-001-F | TDP |
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| 17.5 | | c. | Alphanumeric entries generated as part of the audit record. | | EVS5000 SHS00 DS200, Section 2.1.7.2, Printers | |
| April Apri | | | 1 | | | |
| Section Sect | | | | | | TDP |
| Tipe | 577 | | | | | |
| The content of the | | VI. 4.2 | Physical Characteristics | also Vol II. 2.4.1 System Hardware Characteristics | | |
| System S | | , | I hybreal characteristics | | | |
| The fine is a manerical limitation on the size of any voting segments. The fine of each voting include congulation with the complete of the street of the control of the Co | 579 | VI 421 | Size | | | |
| sognipues, but the state of use the state of selection at which the | 0.0 | 11, 4.2.1 | | Vol. II. 2.4 System Hardware | EV\$5000 SH\$00 D\$200 Section 2.2.1 Size | |
| List immedial use and the beating as which the equipment is to be used. AuthMARE, ESS, System, Hardware, Specifications, AQS-18-5008-001-F, Section 1A, Performance | | | | voi. 11, 2.4 System Haraware | | |
| Section Sect | | | | | | TDP |
| Wild | E00 | | | | Autowark_E55_system_mardware_specifications_AQ5-16-5000-001-r, Section 1A, refrontmance | |
| There is no sumerical limitation on the origin of any voting equipment, but the verying of each voting machine should be companied with its intended see and the location at which the equipment is to be verying of each voting the end of the location at which the equipment is to be verying of each voting of the end of the location at which the equipment is to be verying of each voting of the location at which the equipment is to be under Treatment and the location at which the equipment equals of string, or be provided with, a protective enclosure rendering the equipment capable of without and the location at which the equipment equals of which the location at which the equipment equals of which and the location at which the equipment equals of which the location at which the equipment equals of which the location at which the equipment equals of which the location at which the equipment equals of which the location at which the equipment equals of which the location at which the equipment equals of which the location at which the equipment equals of which the location at which the equipment equals of which the location at which the equipment equals of which the location at which the equipment equals of which the location at which the equipment equals of which the location at which the extension and without extension and which the extension and the location at which the extension and the location and which the extension and the location and which the extension and the location and the location and which the extension and the location and the location and | 500 | T/T 422 | | | | |
| Secondary Seco | JO 1 | V 1, 4.2.2 | | Vol. II. 2.4 System Handware | EVISSOM SUSON DS200 Section 2.2.1 Sino | |
| Comparable with in intended use and the location as which the couplines it to be used. AutoMARK_ESS_System_Hardware_Specifications_AQS-18-500-001-F, Section IA, Performance | | | | voi. 11, 2.4 system riaraware | | |
| See compatible with 6 miseaded are and the location at which the companies of a which the companies of the security of the sec | | | | | | TDP |
| 1,4,2,4 Transport and Storage of Precinct Systems | 500 | | | | AutoMAKK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1A, Performance | |
| All precinct voting systems shall: | 582 | | | | | |
| Preference voting systems the capable of using, or be provided with, arotice the endour emclaring the equipment capable of with canadian with a protective endour emclaring the equipment capable of withstanding: It. Stacking leads associated with storage. | | VI, 4.2.3 | | | | |
| with, a protective enclosure rendering the equipment capable of withstanding: ii. Stacking loads associated with storage. Wid. II. 2.4.1 b. System Hardware EVS5000_SHS00_DS300_Section 2.2.3, Transport Storage EVS5000_SHS00_DS300_Section 2.2.3, Transport Storage AutoMARK_ESS_System, Hardware_Specifications, AQS-18-5000-001-F, Section 1H, Environmental TDP Wid. II. 2.4.1 b. System Hardware_Specifications, AQS-18-5000-001-F, Section 1H, Environmental TDP All voting systems shall: N. Inclode, as part of the accompanying TDP, an approved parts in the state of the accompanying TDP, an approved parts in the state of the second parts in the se | 584 | | | | | |
| ## withstanding: Is. Stacking loads associated with storage. Vol. II. 2.4.1 b. System Hardware EV55000_SISSOL_DS200_Section 2.2.3, Transport Storage EV55000_SISSOL_DS30S_Section 2.2.3, Intervils, Processes, and Parts EV5500_SISSOL_DS30S_Section 2.2.3, Intervils, Processes, and Parts EV5500_SISSOL_DS30S_Secti | ŀ | b. | | | | |
| ii. Stacking loads associated with storage. Vol. II. 2.4.1 b, System Hardware EVS5000 SHS00, DS200, Section 2.2.3. Transport Storage EVS5000 SHS00, DS800, Section 2.3.1, Transport Storage AutoMARK, ESS, System, Hardware Specifications, AQS-18-5000-001-F, Section 1H, Environmental | | | | | | |
| EV\$5000_SH\$00_DS\$00_Section 2.2.3, Transport Storage AutoMARK_ESS_System_Hardware_Specifications_AQS-18-500-001-F, Section 1H, Environmental | 585 | | | | | |
| See | | | Stacking loads associated with storage. | Vol. II, 2.4.1 b, System Hardware | | |
| AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1H, Environmental | | | | | EVS5000_SHS00_DS850, Section 2.2.3, Transport Storage | TDD |
| Ni,4.3 Design, Construction, and Maintenance Characteristics Ni,4.3.1 Materials, Processes, and Parts | | | | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1H, Environmental | IDF |
| Vi | 586 | | | | | |
| All voting systems shall: Description Column Colum | | VI, 4.3 | Design, Construction, and Maintenance Characteristics | | | |
| All voting systems shall: Description Column Colum | 587 | | | | | |
| b. Include, as part of the accompanying TDP, an approved parts list. See Vol. II. 2.9.4.1 TDP, System Maintenance EVS\$000_S1850_D\$2500_Section 2.3.1, Materials, Processes, and Parts | 588 | VI, 4.3.1 | Materials, Processes, and Parts | | | |
| ist. Manual, Parts and Materials EV\$5000_SH\$500_Section 2.3.1, Materials, Processes, and Parts AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 2A, Materials VI, 4.3.2 Durability | 589 | | All voting systems shall: | | | |
| AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 2A, Materials VI, 4.3.2 Durability All voting systems shall be designed to withstand normal use without deterioration and without excessive maintenance cost for Hardware Characteristics: EAC RFI 2008 | ŀ | b. | Include, as part of the accompanying TDP, an approved parts | see Vol. II, 2.9.4.1 TDP, System Maintenance | EVS5000_SHS00_DS200, Section 2.3.1, Materials, Processes, and Parts | |
| AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 2A, Materials VI, 4.3.2 Durability All Voting systems shall be designed to withstand normal use without deterioration and without excessive maintenance cost for a period of ten years. EAC RFI 2008 EAC Decision on Request for Interpretation 2008-05: 2005 Vol. I Sec. 4.3.2 Durability EAC RFI 2008 EAC Decision on Request for Interpretation 2008-05: 2005 Vol. I Sec. 4.3.2 Durability Per EAC RFI 2008-05: Question: How are the VSTLs expected to evaluate this requirement? Per EAC.*. Until more research is done on this issue and clear scientific guidance is available, voting system manufacturer shall provide the VSTL with a signed statement of compliance for this standard. VSTLs should review the compliance statement and accept the statement antiess VSTL engineering analysis and interaction with the system during the testing process would bring the durability of the system during the testing process would bring the durability of the system during the testing process would bring the durability of the system during the testing process would bring the durability of the system during the testing process would bring the durability of the system during the testing process would bring the durability of the system show obvious problems related to the lack of durability". | | | list. | Manual, Parts and Materials | EVS5000_SHS00_DS850, Section 2.3.1, Materials, Processes, and Parts | mp.p. |
| VI, 4.3.2 Durability | | | | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 2A, Materials | TDP |
| VI, 4.3.2 Durability | 590 | | | | | |
| All voting systems shall be designed to withstand normal use without deterioration and without excessive maintenance cost for a period of ten years. EAC RFI 2008. EAC Decision on Request for Interpretation 2008-05: 2005 EAC RFI 2008. EAC Decision on Request for Interpretation 2008-05: 2005 VSG Vol. I Section 4.3.2, Durability Decision on Request for Interpretation 2008-05: 2005 VSG Vol. I Section 4.3.2, Durability Per EAC RFI 2008. EAC Decision on Request for Interpretation 2008-05: 2005 Decision on Request for Interpretation 2008-05: 2005 VSG Vol. I Section 4.3.2, Durability Per EAC RFI 2008. EAC Decision on Request for Interpretation 2008-05: 2005 Decision on Request for Interpretation 2008-05: 2005 Decision on Request for Interpretation 2008-05: 2005 VSG Vol. I Section 4.3.2, Durability AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1C, Durability AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1C, Durability April 03, 2012 Attestation Letter from Sue McKay April 03, 2012 Attestation Letter from Sue McKay April 03, 2012 Attestation Letter from Sue McKay TDP TDP TDP TDP TDP TDP TOP Top Top Top Top Top Top Top To | 591 | VI, 4.3.2 | Durability | | | |
| without deterioration and without excessive maintenance cost for Hardware Characteristics; a period of ten years. EAC RFI 2008-65 eff. Date 7/30/08: 2005 VVSG DS. effective date July 30, 2008 Per EAC RFI 2008-05: Question: How are the VSTLs expected to evaluate this requirement? Per EAC.". Until more research is done on this issue and clear scientific guidance is available, voting system manufacturers shall provide the VSTL with a signed statement unless VSTL engineering analysis and interaction with the system during the testing process would bring the durability of the system into question. In addition, additional review may be required in those instances where experience with fielded versions of the certified voting system show obvious problems related to the lack of durability". | | , | All voting systems shall be designed to withstand normal use | Vol. II. 2.4.1 System Hardware Design, System | EVS5000 SHS00 DS200, Section 2.3.2, Durability | |
| a period of ten years. EAC RFI 2008- EAC Decision on Request for Interpretation 2008-05: 2005 05. effective date July 30, 2008 Per EAC RFI 2008-05: Question: How are the VSTLs expected to evaluate this requirement? Per EAC: "Unit more research is done on this issue and clear scientific guidance is available, voting system manufacturers shall provide the VSTLs should review the compliance statement and accept the statement unless VSTL engineering analysis and interaction with the system into question. In addition, additional review may be required in those instances where experience with fielded versions of the certified voting system show obvious problems related to the lack of durability". | | | without deterioration and without excessive maintenance cost for | Hardware Characteristics; | EVS5000 SHS00 DS850, Section 2.3.2, Durability | |
| 592 EAC RFI 2008 65, effective date July 30, 2008 Per EAC RFI 2008-05: Question: How are the VSTLs expected to evaluate this requirement? Per EAC." Lintil more research is done on this issue and clear scientific guidance is available, voting system manufacturers shall provide the VSTL should review the compliance statement of compliance for this standard. VSTLs should review the compliance statement and accept the statement unless VST. engineering analysis and interaction with the system during the testing process would bring the durability of the system into question. In addition, addit | | | | | | TDP |
| EAC RFI 2008 05, effective date July 30, 2008 Per EAC RFI 2008-05: Question: How are the VSTLs expected to evaluate this requirement? Per EAC."/Intil more research is done on this issue and clear scientific guidance is available, voting system manufacturers shall provide the VSTLs should review the compliance statement and accept the statement unless VSTL engineering analysis and interaction with the system during the testing process would bring the durability of the system into question. In addition, additional review may be required in those instances where experience with fielded versions of the certified voting system show obvious problems related to the lack of durability". | 592 | | [* | | | |
| 593 Obsect | | EAC RFI 2008 | EAC Decision on Request for Interpretation 2008-05: 2005 | | | |
| date July 30, 2008 Per EAC RFI 2008-05: Question: How are the VSTLs expected to evaluate this requirement? Per EAC:" | | | | | | |
| 2008 Per EAC RFI 2008-05: Question: How are the VSTLs expected to evaluate this requirement? Per EAC;"Unil more research is done on this issue and clear scientific guidance is available, voting system manufacturers shall provide the VSTL with a signed statement of compliance statement and accept the statement unless VSTL engineering analysis and interaction with the system during the testing process would bring the durability of the system into question. In addition, additional review may be required in those instances where experience with fielded versions of the certified voting system show obvious problems related to the lack of durability". April 03, 2012 Attestation Letter from Sue McKay | | | | | | |
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| to evaluate this requirement? Per EAC:"Until more research is done on this issue and clear scientific guidance is available, voting system manufacturers shall provide the VSTL with a signed statement of compliance for this standard. VSTLs should review the compliance statement and accept the statement unless VSTL engineering analysis and interaction with the system during the testing process would bring the durability of the system into question. In addition, additional review may be required in those instances where experience with fielded versions of the certified voting system show obvious problems related to the lack of durability". | | | Per EAC RFI 2008-05: Question: How are the VSTLs expected | | April 03, 2012 Attestation Letter from Sue McKay | |
| is done on this issue and clear scientific guidance is available, voting system manufacturers shall provide the VSTL with a signed statement of compliance for this standard. VSTLs should review the compliance statement and accept the statement unless VSTL engineering analysis and interaction with the system during the testing process would bring the durability of the system into question. In addition, additional review may be required in those instances where experience with fielded versions of the certified voting system show obvious problems related to the lack of durability". | | | | | | |
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| system during the testing process would bring the durability of the system into question. In addition, additional review may be required in those instances where experience with fielded versions of the certified voting system show obvious problems related to the lack of durability". | | | | | | TDD |
| the system into question. In addition, additional review may be required in those instances where experience with fielded versions of the certified voting system show obvious problems related to the lack of durability." | | | | | | IDP |
| required in those instances where experience with fielded versions of the certified voting system show obvious problems related to the lack of durability". | | | | | | |
| versions of the certified voting system show obvious problems related to the lack of durability". 594 | | | | | | |
| related to the lack of durability". 594 | | | | | | |
| 594 | | | | | | |
| | | | retated to the tack of durability". | | | |
| [595] VI. 4.3.5 Availability | | | | | | |
| | 595 | VI, 4.3.5 | Availability | | | |

| | Α | В | С | D | F | G |
|-----|----------|------------|---|--|---|------|
| | | | The availability of a voting system is defined as the probability | Vol. I, 2.2.2 b. System Performance; | | |
| | | | that the equipment (and supporting software) needed to perform | Vol. II, 2.9.5 a-c TDP, System Maintenance | | |
| | | | designated voting functions will respond to operational command and accomplish each function. The voting system shall meet the | Manual, Maintenance Facilities and Support | | |
| | | | availability standard for each of the following voting functions: | | | |
| 596 | | | | | | |
| | | | Vendors shall specify the typical system configuration that is to | | | |
| | | | be used to assess availability and any assumptions made with regard to any parameters that impact the MTTR. These factors | | | |
| 597 | | | shall include at a minimum: | | | |
| | e | е. | Recommended number and locations of spare devices or | | EVS5000_SHS00_DS200, Section 2.3.5, Availability | |
| | | | components to be kept on hand for repair purposes during period | | EVS5000_SHS00_DS850, Section 2.3.5, Availability | TDP |
| 500 | | | of system operation. | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1F, Availability | |
| 598 | f | f | Recommended number and locations of qualified maintenance | | EVS5000_SHS00_DS200, Section 2.3.5, Availability | |
| | ľ | | personnel who need to be available to support repair calls during | | EVS5000_SHS00_DS850, Section 2.3.5, Availability | |
| | | | system operation. | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1F, Availability | TDP |
| 599 | | | | | | |
| | g | g. | Organizational affiliation (i.e., jurisdiction, vendor) of qualified maintenance personnel. | | EVS5000_SHS00_DS200, Section 2.3.5, Availability EVS5000_SHS00_DS850, Section 2.3.5, Availability | |
| | | | maintenance personner. | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1F, Availability | TDP |
| 600 | | | | | | |
| 601 | Ŋ | VI, 4.3.7 | Workmanship | | | |
| | | | To help ensure proper workmanship, all manufacturers of voting | | | |
| 602 | | | systems shall: | Requirements; Vol. II, 2.12 Quality Assurance | | |
| 002 | a | a. | Adopt and adhere to practices and procedures to ensure that their | vol. 11, 2.12 Quality rissurance | EVS5000 SHS00 DS200, Section 2.3.7, Workmanship | |
| | | | products are free from damage or defect making them | | EVS5000_SHS00_DS850, Section 2.3.7, Workmanship | TDP |
| | | | unsatisfactory for their intended purpose; and | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1, System Hardware Char | 1151 |
| 603 | 1. | L | F | V-1 H 7.5 Exercise of an afficient Assessment | EVICEOUS CHESS DE200 Carties 2.2.7 Washingtonia | |
| | E | о. | Ensure that components provided by external suppliers are free from damage or defect making them unsatisfactory for their | Vol. II, 7.5 Examination of Quality Assurance Practices | EVS5000_SHS00_DS200, Section 2.3.7, Workmanship EVS5000_SHS00_DS850, Section 2.3.7, Workmanship | |
| | | | intended purpose. | | AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1, System Hardware Char | TDP |
| 604 | | | | | | |
| 605 | | VI, Sec. 5 | Software Requirements | | | |
| 606 | <u> </u> | VI, 5.1.1 | Software Sources Configuration of software, both operating systems and | VII, 2.8.3, System Installation and Test | EVS5000_SOP00_AMVAT | |
| | | | applications, is critical to proper system functioning | Specification | EVS5000 SOP00 DS200 | |
| | | | Therefore, the vendors shall submit a record of all user selections | | EVS5000_SOP00_DS850 | |
| | | | made during software installation as part of the Technical Data | | EVS5000_SOP00_ElectionWare01_Admin | |
| | | | Package. | | EVS5000_SOP00_ElectionWare02_Define EVS5000_SOP00_ElectionWare03_Design | |
| | | | | | EVS5000_SOP00_ElectionWare04_Deliver | TDP |
| | | | | | EVS5000_SOP00_ElectionWare05_Results | |
| | | | | | EVS5000_SOP00_ERM | |
| | | | | | EVS5000_SOP00_NetworkConfigGuide | |
| 607 | | | | | EVS5000_SOP00_ELS | |
| 607 | - | | The vendor shall also submit a record of all configuration | | EVS5000 SDS00 DS200, Section 2.5.6.1, Configurations and Operating Modes | |
| | | | changes made to the software following its installation. | | EVS5000_SDS00_DS850, Section 6.1, Configurations and Operating Modes | |
| | | | | | EVS5000_SDS00_ERM, Section 6.1, Configurations and Operating Modes | TDP |
| | | | | | EVS5000_SDS00_UELS, Section 6.1, Configurations and Operating Modes | 1151 |
| 608 | | | | | EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.1, Configurations and Operating Modes | |
| 609 | ī | VI, 5.2.6 | Coding Conventions | | | |
| Ħ | ľ | , | Voting system software shall adhere to basic coding conventions. | also Vol. II, 2.5.4 e. TDP, Software Design and | | |
| | | | The coding conventions used shall meet one of the following | Specification, Software Standards and Conventions | | |
| 610 | | | conditions: | | | |

| A | В | C | D | F | G |
|------------|-------------|--|--|--|-----|
| | a. | The vendors shall identify the published, reviewed, and industry- accepted coding conventions used and the accredited test lab shal test for compliance. | - | EVS5000_SDS00_DS200, Section 2.5.4, Software Standards and Conventions EVS5000_SDS00_DS850, Section 4, Software Standards and Conventions EVS5000_SDS00_ERM, Section 4, Software Standards and Conventions | TDP |
| 611 612 | VI, 5.3 | Data and Document Retention | | EVS5000_SDS00_UELS, Section 4, Software Standards and Conventions EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.4, Software Standards and Conventions | |
| 613 | V1, 5.3 | All systems shall: | | | |
| 614 | a. | | Vol. II, Sec. 2.3 System Functionality Description | EVS5000_SDS00_DS200, Section II, Additional Software Functions Referenced in the VVSG:Volume I, Section 5 EVS5000_SDS00_DS850, Section 6.5.1, Data and Document Retention EVS5000_SDS00_ERM, Section 6.3.1, Data and Document Retention EVS5000_SDS00_UELS, Section 6.3.1, Data and Document Retention EVS5000_SDS00_AutoMARK SDS Overview, Section 5.3, Data and Document Retention | TDP |
| 615 | VI, Sec. 7 | Security Requirements | Vol. 1, 2.1.1 Overall System, Security; Vol. II, 2.6 Security Specifications; Vol. 1, Sec. 6 Telecommunications Requirements | | |
| 616 | VI, 7.2.1 | General Access Control Policy | | | |
| 617 | , | The vendor shall specify the general features and capabilities of the access control policy recommended to provide effective votin system security. | | EVS5000_SSS00, Section 1, Access Control Policy | TDP |
| 618 | | Although the jurisdiction in which the voting system is operated i responsible for determining the access policies for each election, the vendor shall provide a description of recommended policies for: | | | |
| 619 | a. | Software access controls; | | EVS5000_SSS00, Section 2.1.1, Software Access | TDP |
| 620 | b. | Hardware access controls; | | EVS5000_SSS00, Section 2.1.2, Hardware Access | TDP |
| 621 | c. | Communications; | | EVS5000_SSS00, Section 2.1.3, Communications | TDP |
| 622 | d. | Effective password management; | | EVS5000_SSS00, Section 2.1.4, Effective Password Managment | TDP |
| 623 | e. | Protection abilities of a particular operating system; | | EVS5000_SSS00, Section 2.1.5, Protection Abilities of an Operating System | TDP |
| 624 | f. | General characteristics of supervisory access privileges; | | EVS5000_SSS00, Section 2.1.6, General Characteristics of Supervisory Access Privileges | TDP |
| 625 | g. | Segregation of duties; and | | EVS5000_SSS00, Section 2.1.7, Segregation of Duties | TDP |
| 626 | h. | Any additional relevant characteristics. | | EVS5000_SSS00, Section 2.1.10, Additional Characteristics | TDP |
| 627 | VI, 7.2.1.1 | Individual Access Privileges | | | |
| 628 | | Voting system vendors shall: | also Vol. II, 2.6.1 TDP, System Security Specification, Access Control Policy | | |
| 629 | a. | a. Identify each person to whom access is granted, and the specific functions and data to which each person holds authorized access. | | EVS5000_SSS00 Section, 1.10.5, Infividual Access Privileges | TDP |
| 630 | b. | Specify whether an individual's authorization is limited to a specific time, time interval, or phase of the voting or counting operations. | | EVS5000_SSS00 Section, 1.10.5, Infividual Access Privileges | TDP |
| 631 | c. | c. Permit the voter to cast a ballot expeditiously, but preclude voter access to all aspects of the vote counting process. | | EVS5000_SSS00 Section, 1.10.5, Infividual Access Privileges | TDP |
| 632 | VI, 7.2.1.2 | Access Control Measures | Vol. II, 2.6.2 TDP, System Security Specification, Access Control Measures | | |
| 633 | | Vendors shall provide a detailed description of all system access control measures designed to permit authorized access to the system and prevent unauthorized access. | | UNY 3020_SSS00 Section 2, Access Control Measures | TDP |
| 634 | | Examples of such measures include: | | This good cocood of the control of t | |
| 635 | a. | Use of data and user authorization | | UNY 3020_SSS00 Section 2, Access Control Measures | TDP |

| b | В | С | D | F | G |
|----------|-----------------|---|--|--|-----|
| |). | Program unit ownership and other regional boundaries | | UNY 3020_SSS00 Section 2, Access Control Measures | |
| | | | | | TDP |
| С | | One-end or two-end port protection devices | | UNY 3020_SSS00 Section 2, Access Control Measures | TDP |
| d | i. | Security kernels | | UNY 3020_SSS00 Section 2, Access Control Measures | TDP |
| e | ·. | Computer-generated password keys | | UNY 3020_SSS00 Section 2, Access Control Measures | TDP |
| £ | , | Special protocols | | UNY 3020_SSS00 Section 2, Access Control Measures | IDP |
| 1. | | Special protocols | | | TDP |
| g | ŗ. | Message encryption | | UNY 3020_SSS00 Section 2, Access Control Measures | TDP |
| h | 1. | Controlled access security | | UNY 3020_SSS00 Section 2, Access Control Measures | TDP |
| H | | Vendors also shall define and provide a detailed description of th | | UNY 3020_SSS00 Section 2, Access Control Measures | |
| | | methods used to prevent unauthorized access to the access control | | | TDP |
| | | capabilities of the system itself. | | | |
| 1 | VI, 7.3 | Physical Security Measures | | | |
| ſ | | Security procedures shall address physical threats and the | Vol. II, 2.6.3 TDP, System Security Specification, | | |
| | | corresponding means to defeat them. | Equipment and Data Security | | |
| 7 | VI, 7.3.1 | Polling Place Security | | | |
| F | -, | For polling place operations, vendors shall develop and provide | Vol. II, 2.6.3 Equipment and Data Security | EVS5000_SSS00, Section 3, Equipment and Data Secuirty | |
| | | detailed documentation of measures to enable poll workers to | You II, 2.0.0 Equipment and Data Security | 2. 55000_55500, Section 5, Equipment and Security | |
| | | physically protect and perform orderly shutdown of voting | | | TDP |
| | | equipment to counteract vandalism, civil disobedience, and | | | IDI |
| | | similar occurrences. | | | |
| <u> </u> | | | | THIS COLUMN TO THE | |
| | | The measures shall allow the immediate detection of tampering with vote casting devices and precinct ballot counters. | | EVS5000_SSS00, Section 3.2, Polling Place Equipemnt Security | TDP |
| F | | They shall also control physical access to a telecommunications | | EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring | |
| | | link if such a link is used. | | 2. 55500_55500, 5660511 1.2.2, 2.5665 1.161 1.15111111111111 | TDP |
| 7 | VI, 7.3.2 | Central Count Location Security | | | |
| - | 1, 7.3.2 | Vendors shall develop and document in detail the measures to be | Vol. II. 2.6.3 Fauinment and Data Security | EVS5000_SSS00, Section 3, Equipment and Data Secuirty | |
| | | taken in a central counting environment. These measures shall | voi. 11, 2.0.3 Equipment and Data Security | EV35000_35500, Section 3, Equipment and Data Security | |
| | | include physical and procedural controls related to the handling of | | | TDP |
| | | | 1 | | IDP |
| | | ballot boxes, preparing of ballots for counting, counting | | | |
| L | | operations and reporting data. | | | |
| 1 | VI, 7.4 | Software Security | | | |
| | | Voting systems shall meet specific security requirements for the | Vol.II, 2.6.4 TDP, System Security Specification, | | |
| | | installation and for protection against malicious software. | Software Installation | | |
| | | | | | |
| | VI, 7.4.1 | Software and Firmware Installation | | | |
| 7 | | The system shall meet the following requirements for installation | also Vol.II, 2.6.4 TDP, System Security | | |
| 1 | | | | | |
| ` | | of software, including hardware with embedded firmware. | Specification, Software Installation | | |
| ١ | | of software, including hardware with embedded firmware. | Specification, Software Installation | | |
| \ a | , | | Specification, Software Installation | FVSS000_SSS00_Section 4.1_Software and Firmware Installation | |
| a | ı. | If software is resident in the system as firmware, the vendor shall | Specification, Software Installation | EVS5000_SSS00, Section 4.1, Software and Firmware Installation | |
| a | l. | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i | Specification, Software Installation | EVS5000_SSS00, Section 4.1, Software and Firmware Installation | TDP |
| a | l. | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device it be retested to validate each ROM prior to the start of elections | Specification, Software Installation | EVS5000_SSS00, Section 4.1, Software and Firmware Installation | TDP |
| a | 1. | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i to be retested to validate each ROM prior to the start of elections operations. | Specification, Software Installation | | TDP |
| a |). | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device it to be retested to validate each ROM prior to the start of elections operations. To prevent alteration of executable code, no software shall be | Specification, Software Installation | EVS5000_SSS00, Section 4.1, Software and Firmware Installation EVS5000_SSS00, Section 4.1, Software and Firmware Installation | TDP |
| a |). | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i to be retested to validate each ROM prior to the start of elections operations. To prevent alteration of executable code, no software shall be permanently installed or resident in the voting system unless the | Specification, Software Installation | | TDP |
| a |). | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i to be retested to validate each ROM prior to the start of elections operations. To prevent alteration of executable code, no software shall be permanently installed or resident in the voting system unless the system documentation states that the jurisdiction must provide a | Specification, Software Installation | | |
| a |). | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i to be retested to validate each ROM prior to the start of elections operations. To prevent alteration of executable code, no software shall be permanently installed or resident in the voting system unless the system documentation states that the jurisdiction must provide a secure physical and procedural environment for the storage, | Specification, Software Installation | | TDP |
| a | i. | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i to be retested to validate each ROM prior to the start of elections operations. To prevent alteration of executable code, no software shall be permanently installed or resident in the voting system unless the system documentation states that the jurisdiction must provide a | Specification, Software Installation | | |
| a |). | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i to be retested to validate each ROM prior to the start of elections operations. To prevent alteration of executable code, no software shall be permanently installed or resident in the voting system unless the system documentation states that the jurisdiction must provide a secure physical and procedural environment for the storage, handling, preparation, and transportation of the system hardware. | Specification, Software Installation | | |
| a | o. VI, 7.4.2 | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i to be retested to validate each ROM prior to the start of elections operations. To prevent alteration of executable code, no software shall be permanently installed or resident in the voting system unless the system documentation states that the jurisdiction must provide a secure physical and procedural environment for the storage, | Specification, Software Installation | | |
| a | o. VI, 7.4.2 | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i to be retested to validate each ROM prior to the start of elections operations. To prevent alteration of executable code, no software shall be permanently installed or resident in the voting system unless the system documentation states that the jurisdiction must provide a secure physical and procedural environment for the storage, handling, preparation, and transportation of the system hardware. | Specification, Software Installation Vol. II, 2.6.4 TDP, System Security Specification, | | |
| a |). VI, 7.4.2 | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i to be retested to validate each ROM prior to the start of elections operations. To prevent alteration of executable code, no software shall be permanently installed or resident in the voting system unless the system documentation states that the jurisdiction must provide a secure physical and procedural environment for the storage, handling, preparation, and transportation of the system hardware. Protection Against Malicious Software | | EVS5000_SSS00, Section 4.1, Software and Firmware Installation | |
| a | vI, 7.4.2 | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i to be retested to validate each ROM prior to the start of elections operations. To prevent alteration of executable code, no software shall be permanently installed or resident in the voting system unless the system documentation states that the jurisdiction must provide a secure physical and procedural environment for the storage, handling, preparation, and transportation of the system hardware. Protection Against Malicious Software Voting systems shall deploy protection against the many forms o threats to which they may be exposed such as file and macro | Vol. II, 2.6.4 TDP, System Security Specification, | EVS5000_SSS00, Section 4.1, Software and Firmware Installation | TDP |
| a | vi, 7.4.2 | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i to be retested to validate each ROM prior to the start of elections operations. To prevent alteration of executable code, no software shall be permanently installed or resident in the voting system unless the system documentation states that the jurisdiction must provide a secure physical and procedural environment for the storage, handling, preparation, and transportation of the system hardware. Protection Against Malicious Software Voting systems shall deploy protection against the many forms o threats to which they may be exposed such as file and macro viruses, worms, Trojan horses, and logic bombs. Vendors shall | Vol. II, 2.6.4 TDP, System Security Specification, | EVS5000_SSS00, Section 4.1, Software and Firmware Installation | |
| a |). VI, 7.4.2 | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i to be retested to validate each ROM prior to the start of elections operations. To prevent alteration of executable code, no software shall be permanently installed or resident in the voting system unless the system documentation states that the jurisdiction must provide a secure physical and procedural environment for the storage, handling, preparation, and transportation of the system hardware. Protection Against Malicious Software Voting systems shall deploy protection against the many forms o threats to which they may be exposed such as file and macro viruses, worms, Trojan horses, and logic bombs. Vendors shall develop and document the procedures to follow to ensure that | Vol. II, 2.6.4 TDP, System Security Specification, | EVS5000_SSS00, Section 4.1, Software and Firmware Installation | TDP |
| a | vi, 7.4.2 | If software is resident in the system as firmware, the vendor shall require and state in the system documentation that every device i to be retested to validate each ROM prior to the start of elections operations. To prevent alteration of executable code, no software shall be permanently installed or resident in the voting system unless the system documentation states that the jurisdiction must provide a secure physical and procedural environment for the storage, handling, preparation, and transportation of the system hardware. Protection Against Malicious Software Voting systems shall deploy protection against the many forms o threats to which they may be exposed such as file and macro viruses, worms, Trojan horses, and logic bombs. Vendors shall | Vol. II, 2.6.4 TDP, System Security Specification, | EVS5000_SSS00, Section 4.1, Software and Firmware Installation | TDP |

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| 660 | VI, 7.4.3 | Software Distribution and Setup Validation | | | |
| 661 | | and associated configuration files critical for proper operation of the voting system regardless of the location of installation and functionality provided. This includes third party software such as operating systems, drivers, and database management systems. | | | |
| 662 | VI, 7.4.4 | Software Distribution | W.I.W.A.C.(MDD.G | 1 MANY 550 D. M. D. C. G. G. M. AGG 10 500 C. M. | |
| 663 | | The vendor shall document all software including voting system software, third parry software (such as operating systems and drivers) to be installed on the certified voting system, and installation programs. | Vol. II, 2.6.4 TDP, System Security Specification, Software Installation | AutoMARK ESS Ballot Scanning and Printing Specification AQS-18-5002-007-S.pdf AutoMARK ESS Ballot Scanning and Printing Specification AQS-18-5002-007-S.pdf AutoMARK ESS Embedded Database Interface Specifications AQS-18-5002-005-S AutoMARK ESS GUI Design Specifications AQS-18-5001-005-R AutoMARK ESS Operating Software Design Specifications AQS-18-5001-002-R AutoMARK ESS Operating Software Design Specifications AQS-18-5002-004-S AutoMARK ESS Operating Software Design Specifications AQS-18-5002-004-S AutoMARK ESS Operating Software Design Specifications AQS-18-5002-004-S AutoMARK ESS Software Design Specifications Datails AQS-18-5001-011-R AutoMARK ESS Software Design Spec AQS-18-5001-004-S AutoMARK ESS Software Design Spec AQS-18-5001-004-S AutoMARK ESS Software Diagnostics Specifications AQS-18-5001-004-R AutoMARK ESS Software Diagnostics Specifications AQS-18-5000-004-F AutoMARK ESS Software Standards Specification AQS-18-5000-004-F AUTOMARK ESS Software Standards Specification AQS-18-4000-000-S EVS5000_SDS00_DBS00 _DBS00_DS200 EVS5000_SDS00_DS20001_Flowcharts EVS5000_SDS00_DS20001_Flowcharts EVS5000_SDS00_DS20001_Flowcharts EVS5000_SDS00_DS20001_System Messages EVS5000_SDS00_DS20002_Reports EVS5000_SDS00_DS20005_System Messages EVS5000_SDS00_DS20006_Results Media XMLs EVS5000_SDS00_DElectionWare01_EW Specification and Interfaces EVS5000_SDS00_ElectionWare02_PB Specification and Interfaces EVS5000_SDS00_ElectionWare03_PB Specification and Interfaces EVS5000_SDS00_ElectionWare04_PB Specification and Interfaces EVS5000_SDS00_ElectionWare04_Reports EVS5000_SDS00_ElectionWare11_DS200 and DS850 Media Desc EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ERM01_Appendices EVS5000_SDS00_ERM01_Appendices EVS5000_SDS00_DES00_UELS | TDP |

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| | | | i. The documentation shall have a unique identifier (such as a | Vol. II, 2.6.4 TDP, System Security Specification, | AutoMARK ESS Ballot Image Processing Specification AQS-18-5002-003-S.pdf | |
| | | | serial number or part number) for the following set of | Software Installation | AutoMARK ESS Ballot Scanning and Printing Specification AQS-18-5002-007-S.pdf | |
| | | | information: documentation, software vendor name, product | | AutoMARK ESS Driver API Specification AQS-18-5000-002-F.pdf | |
| | | | name, version, the certification application number of the voting | | AutoMARK ESS Embedded Database Interface Specifications AQS-18-5002-005-S | |
| | | | system, file names and paths or other location information (such | | AutoMARK ESS GUI Design Specifications AQS-18-5001-005-R | |
| | | | as storage addresses) of the software. | | AutoMARK ESS Operating Software Design Specifications AQS-18-5001-002-R | |
| | | | | | AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5002-004-S | |
| | | | | | AutoMARK ESS Programming Specifications Details AQS-18-5001-011-R | |
| | | | | | AutoMARK ESS Software Design Spec AQS-18-5001-004-S | |
| | | | | | AutoMARK ESS Software Development Environment AQS-18-5001-006-R | |
| | | | | | AutoMARK ESS Software Diagnostics Specifications AQS-18-5000-004-F | |
| | | | | | AutoMARK ESS Software Standards Specification AQS-18-4000-000-S | |
| | | | | | EVS5000_SDS00_AutoMARK SDS Overview | |
| | | | | | EVS5000_SDS00_DS200 | |
| | | | | | EVS5000_SDS00_DS20001_Flowcharts | |
| | | | | | EVS5000_SDS00_DS20002_Reports | |
| | | | | | EVS5000_SDS00_DS20005_System Messages | |
| | | | | | EVS5000_SDS00_DS20006_Results Media XMLs | TDP |
| | | | | | EVS5000_SDS00_DS850 | |
| | | | | | EVS5000_SDS00_ElectionWare | |
| | | | | | EVS5000_SDS00_ElectionWare01_EW Specification and Interfaces | |
| | | | | | EVS5000_SDS00_ElectionWare02_PB Specification and Interfaces | |
| | | | | | EVS5000_SDS00_ElectionWare05_System Process Flowchart | |
| | | | | | EVS5000_SDS00_ElectionWare07_PostGreSQL Description | |
| | | | | | EVS5000_SDS00_ElectionWare08_Reports | |
| | | | | | EVS5000_SDS00_ElectionWare11_DS200 and DS850 Media Desc | |
| | | | | | EVS5000_SDS00_ElectionWare12_AutoMARK Media Description and Structure | |
| | | | | | EVS5000_SDS00_ElectionWare13_ERM Media Description | |
| | | | | | EVS5000_SDS00_ElectionWare14_System Messages | |
| | | | | | EVS5000_SDS00_ERM | |
| | | | | | EVS5000_SDS00_ERM01_Appendices EVS5000_SDS00_UELS | |
| | | | | | E V 3.000_3D300_UEL3 | |
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| V O L U N T A R Y V O T I N G S S : | | ii. The documentation shall designate all software files as static, semi-static, or dynamic. | Vol. I, 2.6.4 TDP, System Security Specification, Software Installation | AutoMARK ESS Ballot Image Processing Specification AQS-18-5002-007-S.pdf AutoMARK ESS Brilot Scanning and Printing Specification AQS-18-5002-007-S.pdf AutoMARK ESS Driver API Specification AQS-18-5000-002-F.pdf AutoMARK ESS Embedded Database Interface Specifications AQS-18-5002-005-S AutoMARK ESS Gperating Software Design Specifications AQS-18-5001-005-R AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5001-002-R AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5001-002-R AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5001-004-S AutoMARK ESS Programming Specifications Details AQS-18-5001-011-R AutoMARK ESS Software Design Spec AQS-18-5001-004-S AutoMARK ESS Software Design Spec AQS-18-5001-004-S AutoMARK ESS Software Design Spec AQS-18-5001-006-R AutoMARK ESS Software Diagnostics Specifications AQS-18-5001-006-R AutoMARK ESS Software Diagnostics Specifications AQS-18-5000-004-F AutoMARK ESS Software Standards Specification AQS-18-5000-004-F AutoMARK ESS Software Standards Specification AQS-18-4000-000-S EVS5000_SDS00_DSS00_DSS00 DSS00_DSS00_DSS00_DSS00 EVS5000_SDS00_DSS00_DS2000 EVS5000_SDS00_DS2000 EVS5000_SDS00_DS20001_Flowcharts EVS5000_SDS00_DS20002_Reports EVS5000_SDS00_DS20006_Results Media XMLs EVS5000_SDS00_DSS00 ELectionWare01_EW Specification and Interfaces EVS5000_SDS00_ElectionWare02_PB Specification and Interfaces EVS5000_SDS00_ElectionWare01_EW Specification and Interfaces EVS5000_SDS00_ElectionWare07_PostGreSQL Description EVS5000_SDS00_ElectionWare08_Reports EVS5000_SDS00_ElectionWare11_DS200 and DS850 Media Desc EVS5000_SDS00_ElectionWare12_AutoMARK Media Description and Structure EVS5000_SDS00_ElectionWare13_ERM Media Description and Structure EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages | TDP |

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| STM GUIDELINES VOLUME I VERSI | | Discussion: Static voting system software such as executable code does not change based on the election being conducted or th voting equipment upon which it is installed. Semi-static voting system software contains configuration information for the voting system based on the voting equipment that is installed and the election being conducted. Semi-static software is only modified during the installation of (a) the voting system software on voting equipment or (b) the election-specific software such as ballot formats. Dynamic voting system software changes over time once installed on voting equipment. However, the specific time o value of the change in the dynamic software is usually unknown in advance, making it impossible to create reference information to verity the software. | | AutoMARK ESS Ballot Image Processing Specification AQS-18-5002-007-S.pdf AutoMARK ESS Ballot Scanning and Printing Specification AQS-18-5002-007-S.pdf AutoMARK ESS Embedded Database Interface Specifications AQS-18-5002-005-S AutoMARK ESS Embedded Database Interface Specifications AQS-18-5002-005-S AutoMARK ESS OUT Design Specifications AQS-18-5001-005-R AutoMARK ESS Operating Software Design Specifications AQS-18-5001-002-R AutoMARK ESS Operatinos and Diagnostic Log Specs AQS-18-5002-004-S AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5002-004-S AutoMARK ESS Pogramming Specifications Details AQS-18-5001-011-R AutoMARK ESS Software Design Spec AQS-18-5001-004-S AutoMARK ESS Software Design Spec AQS-18-5001-004-S AutoMARK ESS Software Design Spec AQS-18-5001-004-R AutoMARK ESS Software Diagnostics Specifications AQS-18-5000-004-F AutoMARK ESS Software Standards Specification AQS-18-5000-004-F AutoMARK ESS Software Standards Specification AQS-18-4000-000-S EVS5000_SDS00_DS200 EVS5000_SDS00_DS2000 EVS5000_SDS00_DS2000 EVS5000_SDS00_DS2000 EVS5000_SDS00_DS20001_Flowcharts EVS5000_SDS00_DS20002_Reports EVS5000_SDS00_DS20002_Reports EVS5000_SDS00_DS20002_Reports EVS5000_SDS00_DS20002_Reports EVS5000_SDS00_DS20006_System Messages EVS5000_SDS00_DS20006_Results Media XMLs EVS5000_SDS00_DS20006_Results Media XMLs EVS5000_SDS00_DElectionWare01_EW Specification and Interfaces EVS5000_SDS00_ElectionWare02_PB Specification and Interfaces EVS5000_SDS00_ElectionWare07_PostGreSQL Description EVS5000_SDS00_ElectionWare101_DS200 and DS850 Media Desc EVS5000_SDS00_ElectionWare11_DS200 and DS850 Media Desc EVS5000_SDS00_ElectionWare12_AutoMARK Media Description EVS5000_SDS00_ElectionWare14_DS200 and DS850 Media Desc EVS5000_SDS00_ElectionWare14_AutoMARK Media Description EVS5000_SDS00_ElectionWare14_ESy | TDP |
| 667 o | VI, 7.4.6 b. | Software Setup Validation The vendor shall have a process to verify that the correct | Vol. II, 2.6.4 TDP, System Security Specification, | EVS5000_SSS00, Section 4.3.3, Software Setup Validation | |
| 1 668 | | software is loaded, that there is no unauthorized software, and that voting system software on voting equipment has not been modified, using the reference information from the NSRL or fron a State designated repository. | Software Installation | | TDP |
| 0 | | The vendor shall document the process used to verify software on voting equipment. | | EVS5000_SSS00, Section 4.3.3, Software Setup Validation | TDP |
| 670 | f. | Setup validation methods shall verify that registers and variables of the voting system equipment contain the proper static and initial values. | | EVS5000_SSS00, Section 4.3.3, Software Setup Validation | TDP |
| 671 | | ii. The vendor shall document the values of all static registers and variables, and the initial starting values of all dynamic registers and variables listed for voting system software, except for the values set to conduct a specific election. | | EVS5000_SSS00, Section 4.3.3, Software Setup Validation | TDP |
| 672 | VI, 7.5 | Telecommunications and Data Transmission | | | |
| 673 674 | VI, 7.5.2 a. | Protection Against External Threats Voting systems that use public telecommunications networks shall implement protections against external threats to which commercial products used in the system may be susceptible. | Vol. II, 2.6.5 Telecommunications and Data Transmission Security | | |

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| - | b. | Voting systems that use public telecommunications networks | Vol. II, 2.6.5 TDP, System Security Specification, | N/A - EVS5000 does not use public telecommunications networks | _ |
| | | | Telecommunications and Data Transmission | | |
| | | | Security; | | |
| | | | Vol. II, 2.2.1 e. System Description | | |
| | | system, including operating systems, communications routers, | Totali, 2.2.1 c. bysichi Bescription | | TDP |
| | | modem drivers, and dial-up networking software. | | | |
| | | modelii dirvers, and diai-up networking software. | | | |
| 675 | | | | | |
| | | Such documentation shall identify the name, vendor, and | | N/A - EVS5000 does not use public telecommunications networks | mp.p |
| 676 | | version used for each such component. | | • | TDP |
| 677 | VI, 7.5.3 | Monitoring and Responding to External Threats | | | |
| | | Therefore, vendors of such [voting systems that use public | also Vol. II, 2.6.5 TDP, System Security | | |
| | | | Specification, Telecommunications and Data | | |
| | | | Transmission Security | | |
| | | vulnerable. This documentation shall provide a detailed | · · | | |
| | | description, including scheduling information, of the procedures | | | |
| 678 | | the vendor will use to: | | | |
| - | а | Monitor threats, such as through the review of assessments, | | EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring | |
| | | advisories, and alerts for COTS components issued by the | | | |
| | | Computer Emergency Response Team (CERT), the National | | | |
| | | Infrastructure Protection Center (NIPC), and the Federal | | | TDP |
| | | Computer Incident Response Capability (FedCIRC); | | | |
| 679 | | computer metaent response capacinity (reactive), | | | |
| 073 | h | Evaluate the threats and, if any, proposed responses; | | EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring | |
| 680 | о. | Evaluate the threats and, it any, proposed responses, | | 2 435000_555000, Section 4.2.2, Estets Monitoring | TDP |
| 000 | c | Develop responsive updates to the system and/or corrective | | EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring | |
| 681 | c. | procedures; | | E 435000_35300, Section 4.2.2, E3cc3 Alert Monitoring | TDP |
| 001 | d | Submit the proposed response to test labs and appropriate states | | EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring | |
| | u. | | | E v35000_55500, section 4.2.2, E5&5 Alert Monitoring | TDP |
| 682 | | for approval, identifying the exact changes and whether or not they are temporary or permanent; | | | IDP |
| 002 | - | After implementation of the proposed response is approved by the | | EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring | |
| | e. | state, assist clients, either directly or through detailed written | | EVS5000_SS500, Section 4.2.2, ES&S Alert Monitoring | |
| | | procedures, how to update their systems and/or to implement the | | | TDP |
| | | corrective procedures within the timeframe established by the | | | IDP |
| 683 | | state. | | | |
| 684 | c | | | | |
| 004 | 1. | Address threats emerging too late to correct the system by: i. Providing prompt, emergency notification to the accredited tes | | EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring | |
| | | labs and the affected states and user jurisdictions; | | E v35000_55500, section 4.2.2, E5&5 Alert Monitoring | TDP |
| 685 | | labs and the affected states and user jurisdictions; | | | IDP |
| 000 | | PARCE PRINCE PARCET | | TWISTON GEROO E. J. A.O. DEGG ALL. M. J. | |
| | | ii. Assisting client jurisdictions directly, or advising them | | EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring | mp p |
| coc | | through detailed written procedures, to disable the public | | | TDP |
| 686 | | telecommunications mode of the system; and | | THIS COOL GEROOD G. C. A 2.2 TOO S. A.L. A.M. C. C. | |
| | | iii. Modifying the system after the election to address the threat, | | EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring | |
| | | submitting the modified system to an accredited test lab and the | | | |
| | | EAC or appropriate state certification authority for approval, and | | | TIND |
| | | assisting client jurisdictions directly or advising them through | | | TDP |
| | | detailed written procedures, to update their systems and/or to | | | |
| 007 | | implement the corrective procedures after approval. | | | |
| 687 | | Y AD IV G | | | |
| 688 689 | VI, 7.6 | Use of Public Communications Networks | | | |
| 689 | VI, 7.6.2 | | | | |
| 690 | VI, 7.6.2. | | W.L.W.O.C.SERD.R.G. | | |
| | | Vendors of voting systems that cast individual ballots over a | Vol. II, 2.6.5 TDP, System Security Specification, | | |
| 004 | | * | Telecommunications and Data Transmission | | |
| 691 | | descriptions of: | Security | | |
| | a. | All activities mandatory to ensuring effective system security to | | EVS5000_SSS00 | |
| | | be performed in setting up the system for operation, including | | | TDP |
| 692 | | testing of security before an election. | | | |
| | b. | All activities that should be prohibited during system setup and | | EVS5000_SSS00 | |
| | | during the time frame for voting operations, including both the | | | TDP |
| 000 | | hours when polls are open and when polls are closed. | | | |
| 693 | | | | | |
| 694 | VI, 7.7 | Wireless Communications | | | |
| | | | | | |

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| | | | Wireless is defined as any means of communications that occurs | | | |
| | | | without wires. This normally covers the entire electromagnetic | | | |
| | | | spectrum. For the purposes of this section, wireless includes | | | |
| 695 | | | radio frequency, infrared, and microwave. | | | |
| | | VI, 7.7.1 | Controlling Usage | see also Vol. II, 2.6.5 TDP, System Security | | |
| | | | | Specification, Telecommunications and Data | | |
| 696 | | | | Transmission Security | | |
| | | a. | If wireless communications are used in a voting system, then the | · | N/A - EVS5000 does not use wireless communications | |
| | | | vendor shall supply documentation describing how to use all | | | TIND |
| | | | aspects of wireless communications in a secure manner. This | | | TDP |
| 697 | | | documentation shall include: | | | |
| | | | i. A complete description of the uses of wireless in the voting | | N/A - EVS5000 does not use wireless communications | |
| | | | system including descriptions of the data elements and signals | | | TDP |
| 698 | | | that are to be carried by the wireless mechanism. | | | |
| | | | ii. A complete description of the vulnerabilities associated with | | N/A - EVS5000 does not use wireless communications | |
| | | | this proposed use of wireless, including vulnerabilities deriving | | | TDP |
| | | | from the insertion, deletion, modification, capture, or suppression | 1 | | IDP |
| 699 | | | of wireless messages. | | | |
| | | | iii. A complete description of the techniques used to mitigate the | | N/A - EVS5000 does not use wireless communications | |
| | | | risks associated with the described vulnerabilities including | | | |
| | | | techniques used by the vendor to ensure that wireless cannot send | | | |
| | | | or receive messages other than those situations specified in the | | | TDP |
| | | | documentation. Cryptographic techniques shall be carefully and | | | IDF |
| | | | fully described, including a description of cryptographic key | | | |
| | | | generation, management, use, certification, and destruction. | | | |
| 700 | | | | | | |
| | | | iv. A rationale for the inclusion of wireless in the proposed | | N/A - EVS5000 does not use wireless communications | |
| | | | voting system, based on a careful and complete description of the | | | |
| | | | perceived advantages and disadvantages of using wireless for the | : | | TDP |
| | | | documented uses compared to using non-wireless approaches. | | | |
| 701 | | | | | | |
| | | | iv. Discussion: In general, convenience is not a sufficiently | | N/A - EVS5000 does not use wireless communications | |
| | | | compelling reason, on its own, to justify the inclusion of wireless | 3 | | |
| | | | communications in a voting system. Convenience must be | | | TDP |
| | | | balanced against the difficulty of working with cryptographic | | | |
| 702 | | | keys. | | | |
| | | b. | The details of all cryptographic protocols used for wireless | | N/A - EVS5000 does not use wireless communications | |
| | | | communications, including the specific features and data, shall be | ¢ | | TDP |
| 703 | | | documented. | | | |
| | | e. | If a voting system includes wireless capabilities, then the voting | | N/A - EVS5000 does not use wireless communications | |
| | | | system shall be able to accomplish the same function if wireless | | | TDP |
| 70.4 | | | capabilities are not available due to an error or no service. | | | |
| 704 | | | | | VAL ENGROOM | |
| 705 | | | i. The vendor shall provide documentation how to accomplish | | N/A - EVS5000 does not use wireless communications | TDP |
| 705 706 | ļ | W 553 | these functions when wireless is not available. | | | |
| 706 | } | VI, 7.7.2 | Identifying Usage | Landa Val II 265 TDD Contour Con 15 | N/A FVSC000 day and a significant signific | |
| | | | If a voting system provides wireless capabilities, then the type of | | N/A - EVS5000 does not use wireless communications | |
| | | | wireless communications used (such as radio frequencies) shall be identified either via a label or via the voting system | Specification, Letecommunications and Data Transmission Security | | TDP |
| 707 | | | documentation. | Transmission Security | | |
| 707 | ŀ | VI, 7.9 | Voter Verifiable Paper Audit Trail Requirements | | | |
| 708 | - | V1, 7.9 | VVPAT is not required for national certification. However, these | | | |
| | | | requirements will be applied for certification testing of DRE | | | |
| | | | systems that are intended for use in states that require DREs to | | | |
| 709 | | | provide this capability. | | | |
| 109 | } | VI, 7.9.2 | Voter Verifiable Paper Audit Trail Requirements, Approve of | | | |
| 710 | | v 1, 7.7.2 | Void the Paper Record | | | |
| 7 10 | | | void the Laper Record | | | |

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| | e. | | Vendor documentation shall include procedures to enable the | Vol. II, 2.3 System Functionality Description | N/A - EVS5000 does not utilze VVPAT | |
| | | | election official to return a voting machine to correct operation | · · · · · · · · · · · · · · · · · · · | | |
| | | | after a voter has used it incompletely or incorrectly. This | | | |
| | | | procedure shall not cause discrepancies between the tallies of | | | TDP |
| | | | the electronic and paper records. | | | |
| 711 | | | | | | |
| | VI, 7 | 7.9.3 | Voter Verifiable Paper Audit Trail Requirements, Electronic | | | |
| 712 | | | and Paper Record Structure | | | |
| | e. | | | Vol. II, 2.7.2e, National Certification Test | N/A - EVS5000 does not utilze VVPAT | |
| | | | | Specifications | | TDP |
| 713 | | | shall be read and processed by software. | | | |
| | e. | | | Vol. II, 2.2.2 b. System Performance | N/A - EVS5000 does not utilze VVPAT | |
| | | | procedures for exporting electronic ballot image records and | | | TDP |
| 714 | | | reconciling those records with the paper audit records. | | | |
| 715 | VI. 7 | 7.9.4 | Equipment Security and Reliability | Vol. II, 2.2.2 b. System Performance | | |
| | k. | ,,,,,, | Vendor documentation shall include procedures for investigating | | N/A - EVS5000 does not utilze VVPAT | |
| | | | and resolving printer malfunctions including, but not limited to; | | | |
| | | | printer operations, misreporting of votes, unreadable paper | | | TDP |
| 716 | | | records, and power failures. | | | |
| | 1. | | Vendor documentation shall include printer reliability | | N/A - EVS5000 does not utilze VVPAT | |
| | | | specifications including Mean Time Between Failure estimates, | | | TDP |
| | | | and shall include recommendations for appropriate quantities of | | | IDI |
| 717 | | | backup printers and supplies. | | | |
| 718 | | Sec. 8 | Quality Assurance Requirements | | | |
| 719 | VI, 8 | | Scope | | | |
| 720 | VI, 8 | 8.2 | General Requirements | I WI WA IA TOP O II | | |
| | | | The voting system vendor is responsible for designing and | also Vol. II, 2.12 TDP, Quality Assurance | | |
| | | | implementing a quality assurance program to ensure that the design, workmanship, and performance requirements are achieve | Program; | | |
| | | | | Practices | | |
| 721 | | | program shall: | Tractices | | |
| | a. | | Include procedures for specifying, procuring, inspecting, | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1, General Quality Assurance Requirements | |
| | | | accepting, and controlling parts and raw materials of the requisite | | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements | TDP |
| 722 | | | quality; | | | |
| | b. | | Require the documentation of the hardware and software | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1, General Quality Assurance Requirements | |
| | | | development process; | | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements | TDP |
| 723 | | | | | | |
| 724 | c. | | Identify and enforce all requirements for: | | | |
| | | | i. In-process inspection and testing that the manufacturer | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1, General Quality Assurance Requirements | mr - |
| 725 | | | deems necessary to ensure proper fabrication and assembly of | | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements | TDP |
| 725 | | | hardware | | ESSSVS M D 1000 MNEOpolity Assurance Disp. Section 1 Concert Occility Assurance Description | |
| | | | ii. Installation and operation of software and firmware | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1, General Quality Assurance Requirements ESSSYS Q P 0100 SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements | TDP |
| 726 | | | | | 12555 12_Q_1_0100_501tracQuantyAssurancer rogram, section 1, Octional Quanty Assurance requirements | 1101 |
| . 20 | d. | | Include plans and procedures for post-production environmental | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1, General Quality Assurance Requirements | |
| | | | screening and acceptance testing | | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements | TDP |
| 727 | | | | | | |
| | e. | | Include a procedure for maintaining all data and records required | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1, General Quality Assurance Requirements | |
| | | | to document and verify the quality inspections and tests. | | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements | TDP |
| 728 | | | | | | |
| 729 | VI, 8 | 8.3 | Components from Third Parties | | | |
| | | | A vendor who does not manufacture all the components of its | Vol. II, 2.12 Quality Assurance | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1, General Quality Assurance Requirements | |
| | | | voting system, but instead procures components as standard | | ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements | |
| | | | commercial items for assembly and integration into a voting | | | |
| | | | system, shall verify that the supplier vendors follow documented | | | TDP |
| | | | quality assurance procedures that are at least as stringent as those used internally by the voting system vendor. | | | |
| 730 | | | used internary by the voting system vehicor. | | | |
| 731 | VI, 8 | 8.4 | Responsibility for Tests | | | |
| 131 | V 1, 0 | 0.7 | responsibility for Tests | | | |

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|-----|---------|--|--|--|-----|
| 732 | | The manufacturer or vendor shall be responsible for performing all quality assurance tests, acquiring and documenting test data, and providing test reports for examination by the test lab as part of the national certification process. These reports shall also be provided to the purchaser upon request. | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1, General Quality Assurance Requirements ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements | TDP |
| 733 | VI, 8.5 | Parts and Materials Special Tests and Examinations | | | |
| 734 | | In order to ensure that voting system parts and materials function properly, vendors shall: | also Vol. II, 2.12 .2, Quality Assurance Program, Parts and Materials Tests; Vol. II, 7.5.2 Parts and Materials Tests | | |
| 735 | a. | Select parts and materials to be used in voting systems and components according to their suitability for the intended application. Suitability may be determined by similarity of this application to existing standard practice or by means of special tests. | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 5, Parts and Materials Tests ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 9, Parts and Materials Tests | TDP |
| 736 | b. | Design special tests, if needed, to evaluate the part or material under conditions accurately simulating the actual voting system operating environment. | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1.2, Specifying, Procuring, Inspecting, Accepting ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1.2, Specifying, Procuring, Inspecting, Accepting | TDP |
| 737 | c. | Maintain the resulting test data as part of the quality assurance program documentation. | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1.2, Specifying, Procuring, Inspecting, Accepting ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1.2, Specifying, Procuring, Inspecting, Accepting | TDP |
| 738 | VI, 8.6 | Quality Conformance Inspections | | | |
| | | The vendor performs conformance inspections to ensure the overall quality of the voting system and components delivered to the test lab for national certification testing and to the jurisdictior for implementation. To meet the conformance inspection requirements, the vendor or manufacturer shall: | | | |
| 739 | | | | | |
| 740 | a. | Inspect and test each voting system or component to verify that it meets all inspection and test requirements for the system. | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 6, Quality Conformance Inspection ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 10, Quality Conformance Inspection | TDP |
| 741 | b. | Deliver a record of tests or a certificate of satisfactory completion with each system or component | | ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 6, Quality Conformance Inspection ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 10, Quality Conformance Inspection | TDP |
| 742 | VI. 8.7 | Documentation | | | |
| 743 | | Vendors are required to produce documentation to support the independent testing required for their products to be granted national certification. Volume II, Section 2, Description of the Technical Data Package (TDP) required for the national certification testing process. This documentation shall be sufficient to serve the needs of the test lab, election officials, and maintenance technicians. It shall include, at a minimum, the following: | Vol. II, 2.1.1.1 TDP, Scope, Required Content for Initial Certification; Vol. II, 2.1.1.2 Required Content for System Changes and Recertification; Vol. II, 2.12.4 Quality Assurance Program, Documentation; Vol. II, 7.5.4 Quality Assurance, Documentation | | |
| 744 | | System overview | | EVS5000_OVR00 EVS5000_OVR04_AppxD_CIF-AutoMark EVS5000_OVR05_AppxD_CIF-DS200 EVS5000_OVR07_AppxE_ConformityStatement | TDP |
| 745 | | System functionality description | | EVS5000_SFD00 | TDP |

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|-----|------------------------------------|---|--|-----|
| 746 | System hardware specification | | EVS5000_SHS00_DS200 EVS5000_SHS00_DS20 AutoMARK_ESS_System_Hardware_Overview_AQS-18-5002-000-S AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F EVS5000_SHS00_AutoMARK01_MODELS EVS5000_SHS00_DS20001_BOM EVS5000_SHS00_DS20001_BOM EVS5000_SHS00_DS85001_BOM EVS5000_SHS01_AutoMARK1.1-1.2 BOM EVS5000_SHS01_AutoMARK1.3 BOM CABLE_PHASE2 5K509175-LA 5K509177-L- 5K509618_SIP_B PEB_RevB PSB_RevB PSB_RevB SBC_640117-4000C-2AGP Scanner_P1211MC-B4DR May04 SD_GGB_REV_A SIB_A3 USD-A-SCH | TDP |
| 747 | Software design and specifications | | AutoMARK ESS Ballot Image Processing Specification AQS-18-5002-003-S.pdf AutoMARK ESS Ballot Scanning and Printing Specification AQS-18-5002-007-S.pdf AutoMARK ESS Driver API Specification AQS-18-50002-007-S.pdf AutoMARK ESS Embedded Database Interface Specifications AQS-18-5002-005-S AutoMARK ESS GUI Design Specifications AQS-18-5001-005-R AutoMARK ESS Operating Software Design Specifications AQS-18-5001-005-R AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5001-002-R AutoMARK ESS Programming Specifications Details AQS-18-5001-004-S AutoMARK ESS Programming Specifications Details AQS-18-5001-001-R AutoMARK ESS Software Design Spec AQS-18-5001-004-S AutoMARK ESS Software Development Environment AQS-18-5001-006-R AutoMARK ESS Software Diagnostics Specifications AQS-18-5001-006-R AutoMARK ESS Software Diagnostics Specifications AQS-18-5000-004-F AutoMARK ESS Software Standards Specification AQS-18-4000-000-S ESSSYS_D_D_0100_Coding Standards ESSSYS_SG_P_1000_SystemDevProgram EVSS000_SDS00_DS000_DS000 EVSS000_SDS00_DS2000 EVSS000_SDS00_DS20001_Flowcharts EVSS000_SDS00_DS20001_Flowcharts EVSS000_SDS00_DS20002_Reports EVSS000_SDS00_DS20005_System Messages EVSS000_SDS00_DS20005_System Messages EVSS000_SDS00_DS000_SPS000_SPS000_SPS000_DS0000_SPS00_DS000_SPS000_SPS00_DS000_SPS00_DS000_SPS00_DS000_SPS00_DS000_SPS00_DS000_SPS00_DS000_ElectionWare01_EW Specification and Interfaces EVSS000_SDS00_ElectionWare02_PB Specification and Interfaces EVSS000_SDS00_ElectionWare05_System Process Flowchart EVSS000_SDS00_ElectionWare04_Post-Order Specification and Everyption EVSS000_SDS00_ElectionWare04_Post-Order Specification and Everyption EVSS000_SDS00_ElectionWare04_Post-Order Specification and Everyption EVSS000_SDS00_ElectionWare14_AutoMARK Media Description EVSS000_SDS00_ElectionWare14_Eystem Messages EVSS000_SDS00_ElectionWare14_Eystem Messages EVSS000_SDS00_ElectionWare14_Eystem Messages EVSS000_SDS00_EDS00_ElectionWare14_Eystem Messages EVSS000_SDS00_EDS00_ElectionWare14_Eystem Messages | TDP |

| Α | В | С | D | F | G |
|-----|-------------|--|---|---|-----|
| - | | System security specification | | EVS5000_STP00 | |
| | | | | EVS5000_TC00_AutoMARK | |
| | | | | EVS5000_TC00_DS200 | |
| | | | | EVS5000_TC00_DS850 | |
| | | | | EVS5000_TC00_ElectionWare01_Manage | |
| | | | | EVS5000_TC00_ElectionWare02_Define | TDP |
| | | | | EVS5000_TC00_Electionware03_Design | |
| | | | | EVS5000_TC00_Electionware04_Deliver | |
| | | | | EVS5000_TC00_Electionware05_Resolve | |
| | | | | EVS5000_TC00_ERM | |
| 748 | | | | | |
| | | System test and verification specification | | AutoMARK ESS System Security Specification AQS-18-5002-001-S | |
| | | | | EVS5000_SSS00 | |
| | | | | EVS5000_SSS01_JSP Template | |
| | | | | EVS5000_SSS002.08_AutoMARK Quick Hash Procedure | |
| | | | | EVS5000_SSS02.01_EMS_PC_SecScriptDesc | |
| | | | | EVS5000_SSS02.01_UbuntuLiveCD | |
| | | | | EVS5000_SSS02.05_EMSWorkstation Validation Guide | |
| | | | | EVS5000_SSS02.06_DS200Quick Hash Procedure | |
| | | | | EVS5000_SSS02.07_DS850Quick Hash Procedure | |
| | | | | EVS5000_SSS02_Hardening Procedures | |
| | | | | EVS5000_SSS03_Voting System Validation Guide01_File Listing_DS200 | |
| | | | | EVS5000_SSS03_Voting System Validation Guide02_File Listing_AutoMARK | |
| | | | | EVS5000_SSS03_Voting System Validation Guide04_File Listing_ElectionWare | TDP |
| | | | | EVS5000 SSS03 Voting System Validation Guide05 File Listing RMS | IDF |
| | | | | EVS5000_SSS03_Voting System Validation Guide06_File_Listing_ELS | |
| | | | | EVS5000_SSS03_Voting System Validation Guide07_File Listing_VATPreview | |
| | | | | EVS5000 SSS03 Voting System Validation Guide08 File Listing ERM | |
| | | | | EVS5000_SSS03_Voting System Validation Guide09_File Listing_DS850 | |
| | | | | EVS5000_SSS07_PhysEquipmentSecurityBestPract | |
| | | | | EVS5000_SSS09_WinOS_SECBaseSettings | |
| | | | | E \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | |
| | | | | EVS5000_SSS02.01_HardeningScripts [Folder] | |
| | | | | EVS5000_SSS02.01_HaddeningScripts [Folder] | |
| | | | | EVS5000_SSS02.07.01_D5850QuickHashScripts [Folder] EVS5000_SSS02.08.01_AutoMARKHashTools [Folder] | |
| | | | | EVS5000_S5502.08.01_AutomAkkriasn1oois [rolder] | |
| 749 | | | | | |
| | | System operations procedures | | EVS5000_SOP00_AMVAT | |
| | | | | EVS5000_SOP00_DS200 | |
| | 1 | | | EVS5000_SOP00_DS850 | |
| | | | | EVS5000_SOP00_ElectionWare01_Admin | |
| | | | | EVS5000_SOP00_ElectionWare02_Define | |
| | | | | EVS5000_SOP00_ElectionWare03_Design | |
| | | | | EVS5000_SOP00_ElectionWare04_Deliver | |
| | | | | EVS5000_SOP00_ElectionWare05_Results | |
| | | | | EVS5000_SOP00_ELS | TDP |
| | | | | EVS5000_SOP00_ERM | |
| | | | | EVS5000_SOP00_NetworkConfigGuide | |
| | | | | | |
| | | | | EVS5000_SOP00_AMVAT.01_VerficationElection [Folder] | |
| | | | | | |
| | | | | EVS5000_ORPT02_BallotProductionGuide [In Above Folder] | |
| 750 | 1 | | | | |
| 730 | - | System maintenance procedures | | EVS5000_SMM00_AMVAT | |
| | | System maintenance procedures | | EVS5000_SMM00_AMVA1 EVS5000_SMM00_DS200 | |
| | | | | EVS5000_SMM00_DS200 EVS5000_SMM00_DS850 | TDP |
| 751 | 1 | | | E x 3.5000_3ixlivito_D3050 | |
| 751 | | Description of the last of the | | ESSEVE T. D. 1000 Tarisia Parama | |
| 752 | | Personnel deployment and training requirements | | ESSSYS_T_D_1000_TrainingProgram | TDP |
| 752 | 1 | l . | | | |

| Configuration management place SSSTS_CAPP_ROUND_CAPPOR_INC_THYProgram PNSSSS_CAPPOR_ROUND_CAPPOR_INC_CAPPOR_ | A | В С | D | F | G |
|--|-----------|---|--|---|-----|
| ENSSOID_QAND_SHORE_From a Procedure ENSSOID_QAND_SHORE_From a Procedure ENSSOID_QAND_SHORE_From a Processor ENSSOID_QAND_SHORE_From a Processor ENSSOID_QAND_SHORE_From a Processor ENSSOID_GAND_SHORE_From a Processor ENSSOID_GAND_SHORE_From a Processor ENSSOID_GAND_SHORE_From a Processor ENSSOID_GAND_SHORE_FROM BROAD ENSSOID_GAND_SHORE | | Configuration management plan | D | ESSSYS_CM_P_1000_ESSCMProgram ESSSYS_DOC_P_1000_TDProgram EV\$5000_CMP10_BUILD DOCUMENTATION [Folder] EV\$5000_CMP10_BLD01_SEC01_EM\$BuildProcedure EV\$5000_CMP10_BLD01_SEC02_EM\$BuildEnvironment EV\$5000_CMP10_BLD01_SEC03_WindowsAndVirusProtectionUpdates EV\$5000_CMP10_BLD02_SEC01_AutoMARKBuildProcedure EV\$5000_CMP10_BLD02_SEC01_AutoMARKBuildProcedure EV\$5000_CMP10_BLD03_SEC01_D\$200AncillaryBuildProcedure EV\$5000_CMP10_BLD03_SEC02_D\$200AncillaryBuildEnvironment EV\$5000_CMP10_BLD05_SEC01_D\$850FirmwareBuildProcedure EV\$5000_CMP10_BLD05_SEC01_D\$850FirmwareBuildProcedure EV\$5000_CMP10_BLD07_SEC01_D\$200FirmwareBuildProcedure ESSSYS_M_1_0501_WhatRequriesEC0 ESSSYS_M_P_0500_ECOProcess ESSSYS_M_P_1000_MNFQualityAssurancePlan | |
| System change notes None None TDP Tolination Management Requirements See Vol. II, 2.11 TDP, Configuration Management Plan This section contains specific requirements for configuration management of voting systems. Vendors are required to submit these procedures as part of the Technical Data Package for system certification. TIP VI, 9.1.1 Configuration Management Requirements Configuration management addresses a broad set of record keeping, auditing, and reporting activities that contribute to full knowledge and control of a system and its components. These activities include: Identifying discrete system components. ESSSYS_CM_P_1000_ESSCMProgram, Section 1.1, Identify Discrete System Components TDP | | | | EVS5000_QAP00_SWF01_Software_Firmware_Acceptance EVS5000_QAP01_ISO cert Pivot EVS5000_QAP01_ISO cert Pivot EVS5000_QAP03_QA manual Pivot EVS5000_QAP03_DataWin Quality Assurance Manual EVS5000_QAP08_DATAWIN ISO Certification Certificate ESSSYS_M_FM_AcceptanceChecklists {folder} 850_AccptChklst_revA 850_AccptChklst_revA 850_DemoChklst_revA 850_DemoChklst_revB AutoMark_AccptChklst_001_Rev.A AutoMark_AccptChklst_001Rev.A DS200_AccptChklst_001Rev.A Carrying Case QC sheet rev 1.0 EVS5000_QAP00_MN01.01_AcceptanceTestProcedure_DS200 EVS5000_QAP00_MN01_AcceptanceTestProcedure_DS850 EVS5000_QAP00_MN01_AcceptanceTesting [folder] 850_AccptChklst_revA.pdf 850_OAccptChklst_revA.pdf AutoMark_AccptChklst_001_Rev.A.pdf DS200_AccptChklst_001_Rev.A.pdf DS200_AccptChklst_001_Rev.A.pdf EVS5000_QAP00_MN01.01_AcceptanceTestProcedure_DS200_EVSCRIBER_EVA.pdf DS200_AccptChklst_001_Rev.A.pdf DS200_AccptChklst_001_Rev.A.pdf EVS5000_QAP00_MN01.01_AcceptanceTestProcedure_DS200.pdf | TDP |
| VI, Sec. 9 Configuration Management Requirements Sec Vol. II, 2.11 TDP, Configuration Management Plan VI, 9.1 Scope This section contains specific requirements for configuration management of voting systems. Vendors are required to submit these procedures as part of the Technical Data Package for system certification. VI, 9.1.1 Configuration Management Requirements Configuration Management Requirements Configuration Management addresses a broad set of record keeping, auditing, and reporting activities that contribute to full knowledge and control of a system and its components. These activities include: Identifying discrete system components. ESSSYS_CM_P_1000_ESSCMProgram, Section 1.1, Identify Discrete System Components TDP | | System change notes | | None | TDP |
| VI, 9.1 Scope This section contains specific requirements for configuration management of voting systems. Vendors are required to submit these procedures as part of the Technical Data Package for system certification. VI, 9.1.1 Configuration Management Requirements Configuration management addresses a broad set of record keeping, auditing, and reporting activities that contribute to full knowledge and control of a system and its components. These activities include: Identifying discrete system components. ESSSYS_CM_P_1000_ESSCMProgram, Section 1.1, Identify Discrete System Components TDP | VI, Sec | c. 9 Configuration Management Requirements | | | |
| management of voting systems. Vendors are required to submit these procedures as part of the Technical Data Package for system certification. VI, 9.1.1 Configuration Management Requirements Configuration management addresses a broad set of record keeping, auditing, and reporting activities that contribute to full knowledge and control of a system and its components. These activities include: Identifying discrete system components. ESSSYS_CM_P_1000_ESSCMProgram, Section 1.1, Identify Discrete System Components TDP | 7 VI, 9.1 | Scope | | | |
| Configuration management addresses a broad set of record keeping, auditing, and reporting activities that contribute to full knowledge and control of a system and its components. These activities include: Identifying discrete system components. ESSSYS_CM_P_1000_ESSCMProgram, Section 1.1, Identify Discrete System Components TDP | | management of voting systems. Vendors are required to submit these procedures as part of the Technical Data Package for system certification. | | | |
| | | Configuration management addresses a broad set of record keeping, auditing, and reporting activities that contribute to full knowledge and control of a system and its components. These activities include: | Vol. II, 2.11 TDP, Configuration Management Plan | ESSSYS CM D 1000 ESSCMDpouram Section 1.1. Identify Discrete System Components | |
| | 1 | identifying discrete system components. | | ESSS 15_UNLT_1000_ESSUMPTOGRAM, Section 1.1, Identity Discrete System Components | TDP |

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| | Creating records of a formal baseline and later versions of components. | | ESSSYS_CM_P_1000_ESSCMProgram, Section 1.2, Creating Records of a Formal Baseline and Later Version of Components | TDP |
| | Controlling changes made to the system and its components. | | ESSSYS_CM_P_1000_ESSCMProgram, Section 1.3, Controlling Changes Made to the System and Its Components | TDP |
| | Releasing new versions of the system. | | ESSSYS_CM_P_1000_ESSCMProgram, Section 1.4, Releasing New Versions of the System | TDP |
| | Auditing the system, including its documentation, against configuration management records. | | ESSSYS_CM_P_1000_ESSCMProgram, Section 1.5, Auditing the System Against Configuration Management Records | TDP |
| | Controlling interfaces to other systems. | | ESSSYS_CM_P_1000_ESSCMProgram, Section 1.6, Controlling Interfaces to Other Systems | TDP |
| | Identifying tools used to build and maintain the system. | | ESSSYS_CM_P_1000_ESSCMProgram, Section 1.7, Identifying Tools Used to Build and Maintain the System | TDP |
| VI, 9.1.3 | Application of Configuration Management Requirements | | | |
| | Requirements for configuration management apply to all components of voting systems regardless of the specific technologies employed. These components include: | Vol. II, 2.11 TDP, Configuration Management Plan | | |
| | Software | | ESSSYS_CM_P_1000_ESSCMProgram, Section 2.1.7.1, System Software/Firmware | TDP |
| | Hardware | | ESSSYS_CM_P_1000_ESSCMProgram, Section 2.1.7.2, System Hardware | TDP |
| | Communications | | ESSSYS_CM_P_1000_ESSCMProgram, Section 2.1.3, Communications | TDP |
| | Documentation | | ESSSYS_DOC_P_1000_TDProgram, 2.1.4, Documentation | TDP |
| | Identification and naming and conventions (including changes to these conventions) for software programs and data files; | | ESSSYS_CM_P_1000_ESSCMProgram, Section 4 Configuration Identification | TDP |
| | Development and testing artifacts such as test data and scripts | | ESSSYS_CM_P_1000_ESSCMProgram, Section 2.1.6 Development and Testing Artifacts | TDP |
| | File archiving and data repositories. | | ESSSYS_CM_P_1000_ESSCMProgram, Section 2.1.7, File Archiving and Data Repositories | TDP |
| VI, 9.2 | Configuration Management Policy | | | |
| | The vendor shall describe its policies for configuration management in the Technical Data Package. This description shall address the following elements: | Vol. II, 2.11.1 TDP, Configuration Management Plan, Configuration Management Policy; Vol. II, 7.4.1 Configuration Management Policy | | |
| | | | ESSSYS_CM_P_1000_ESSCMProgram, Section I.1.1, Scope | TDP |
| | Scope and nature of configuration management program activities | | | |
| | Scope and nature of configuration management program activities Breadth of application of the vendor's policies and practices to the voting system, i.e., extent to which policies and practices apply to the total system, and extent to which policies and practices of suppliers apply to particular components, subsystem or other defined system elements | | ESSSYS_CM_P_1000_ESSCMProgram, Section 3.1, Breadth and Application | TDP |
| VI 0.2 | Breadth of application of the vendor's policies and practices to the voting system, i.e., extent to which policies and practices apply to the total system, and extent to which policies and practices of suppliers apply to particular components, subsystem or other defined system elements | | ESSSYS_CM_P_1000_ESSCMProgram, Section 3.1, Breadth and Application | TDP |
| VI, 9.3 | Breadth of application of the vendor's policies and practices to the voting system, i.e., extent to which policies and practices apply to the total system, and extent to which policies and practices of suppliers apply to particular components, subsystem or other defined system elements Configuration Identification Configuration identification is the process of identifying, naming and acquiring configuration items. Configuration identification | | ESSSYS_CM_P_1000_ESSCMProgram, Section 3.1, Breadth and Application | TDP |
| VI, 9.3 | Breadth of application of the vendor's policies and practices to the voting system, i.e., extent to which policies and practices apply to the total system, and extent to which policies and practices of suppliers apply to particular components, subsystem or other defined system elements Configuration Identification Configuration identification is the process of identifying, naming and acquiring configuration items. Configuration identification encompasses all system components. | | ESSSYS_CM_P_1000_ESSCMProgram, Section 3.1, Breadth and Application | TDP |
| | Breadth of application of the vendor's policies and practices to the voting system, i.e., extent to which policies and practices apply to the total system, and extent to which policies and practices of suppliers apply to particular components, subsystem or other defined system elements Configuration Identification Configuration identification is the process of identifying, naming and acquiring configuration items. Configuration identification encompasses all system components. Structuring and Naming Configuration Items The vendor shall describe the procedures and conventions used to classify configuration items into categories and subcategories, uniquely number or otherwise identify items and name | Vol. II, 2.11.2 TDP, Configuration Identification; Vol. II, 7.4.2 Configuration Identification | ESSSYS_CM_P_1000_ESSCMProgram, Section 3.1, Breadth and Application ESSSYS_CM_P_1000_ESSCMProgram, Section 4.1.1, Classification and Naming Conventions | TDP |
| VI, 9.3.1 | Breadth of application of the vendor's policies and practices to the voting system, i.e., extent to which policies and practices apply to the total system, and extent to which policies and practices of suppliers apply to particular components, subsystem or other defined system elements Configuration Identification Configuration identification is the process of identifying, naming and acquiring configuration items. Configuration identification encompasses all system components. Structuring and Naming Configuration Items The vendor shall describe the procedures and conventions used to classify configuration items into categories and subcategories, uniquely number or otherwise identify items and name configuration items. | | | |
| | Breadth of application of the vendor's policies and practices to the voting system, i.e., extent to which policies and practices apply to the total system, and extent to which policies and practices of suppliers apply to particular components, subsystem or other defined system elements Configuration Identification Configuration identification is the process of identifying, naming and acquiring configuration items. Configuration identification encompasses all system components. Structuring and Naming Configuration Items The vendor shall describe the procedures and conventions used to classify configuration items into categories and subcategories, uniquely number or otherwise identify items and name configuration items. Version Conventions When a system component is part of a higher level system element such as a subsystem, the vendor shall describe the | | | |
| VI, 9.3.1 | Breadth of application of the vendor's policies and practices to the voting system, i.e., extent to which policies and practices apply to the total system, and extent to which policies and practices of suppliers apply to particular components, subsystem or other defined system elements Configuration Identification Configuration identification is the process of identifying, naming and acquiring configuration items. Configuration identification encompasses all system components. Structuring and Naming Configuration Items The vendor shall describe the procedures and conventions used to classify configuration items in categories and subcategories, uniquely number or otherwise identify items and name configuration items. Version Conventions When a system component is part of a higher level system element such as a subsystem, the vendor shall describe the conventions used to: Identify the specific versions of individual configuration items and sets of items that are used by the vendor to identify higher | Vol. II, 7.4.2 Configuration Identification Vol. II, 2.11.2 TDP, Configuration Identification; | | |
| VI, 9.3.1 | Breadth of application of the vendor's policies and practices to the voting system, i.e., extent to which policies and practices apply to the total system, and extent to which policies and practices of suppliers apply to particular components, subsystem or other defined system elements Configuration Identification Configuration identification is the process of identifying, naming and acquiring configuration items. Configuration identification encompasses all system components. Structuring and Naming Configuration Items The vendor shall describe the procedures and conventions used to classify configuration items into categories and subcategories, uniquely number or otherwise identify items and name configuration items. Version Conventions When a system component is part of a higher level system element such as a subsystem, the vendor shall describe the conventions used to: Identify the specific versions of individual configuration items | Vol. II, 7.4.2 Configuration Identification Vol. II, 2.11.2 TDP, Configuration Identification; | ESSSYS_CM_P_1000_ESSCMProgram, Section 4.1.1, Classification and Naming Conventions | TDP |

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| | c. | Name versions. | | ESSSYS_CM_P_1000_ESSCMProgram, Section 4.1.2.2, Version Naming Conventions | TDP |
| 789 790 | VI 0.4 | Baseline and Promotion Procedures | | | 121 |
| 790 | VI, 9.4 | The vendor shall establish formal procedures and conventions for | Vol. II. 2.11.2 TDD. Configuration Management | | |
| | | establishing and providing a complete description of the | Plan, Baseline and Promotion; Vol. II, 7.4.3 | | |
| | | procedures and related conventions used to: | Baseline, Promotion, and Demotion Procedures | | |
| 791 | | | | | |
| | a. | Establish a particular instance of a component as the starting | | ESSSYS_CM_P_1000_ESSCMProgram, Section 5.4, Establishing Project Baselines | TDP |
| 792 | | baseline; | | | 1101 |
| | b. | Promote subsequent instances of a component to baseline status as development progresses through to completion of the initial | | ESSSYS_CM_P_1000_ESSCMProgram, Section 5.4.1, Baseline Promotion to VSTL Testing | |
| | | completed version released to accredited test lab for qualification | | | TDP |
| 793 | | testing; and | | | |
| | c. | Promote subsequent instances of a component to baseline status | | ESSSYS_CM_P_1000_ESSCMProgram, Section 5.4.2, Component Maintenance until Retirement | |
| | | as the component is maintained throughout its life cycle until | | | TDP |
| 794 | | system retirement (i.e., the system is no longer sold or maintained by the vendor). | | | |
| 795 | VI. 9.5 | Configuration Control Procedures | | | |
| 700 | 11, 7.5 | Configuration control is the process of approving and | Vol. II, 2.11.4 TDP, Configuration Management | | |
| | | implementing changes to a configuration item to prevent | Plan, Configuration Control Procedures; | | |
| | | unauthorized additions, changes or deletions. The vendor shall | Vol. II, 7.4.4 Configuration Control Procedures | | |
| | | establish such procedures and related conventions, providing a | | | |
| 706 | | complete description of those procedures used to: | | | |
| 796 | 9 | Develop and maintain internally developed items; | | ESSSYS_CM_P_1000_ESSCMProgram, Section 6.4, Development and Maintenance of Internally Developed Items | |
| 797 | a. | bevelop and mannam memany developed terms, | | ESSS 15_CM_1_1000_ESSC M Togram, Section 6.4, Development and Maintenance of Internanty Developed Icins | TDP |
| | b. | Acquire and maintain third-party items; | | ESSSYS_CM_P_1000_ESSCMProgram, Section 6.5, Acquisition and Maintenance of Third Party Items | TDP |
| 798 | | | | | IDF |
| 799 | c. | Resolve internally identified defects for items regardless of their | | ESSSYS_CM_P_1000_ESSCMProgram, Section 6.6, Resolving Internally Identified Defects | TDP |
| 799 | d | origin; and Resolve externally identified and reported defects (i.e., by | | ESSSYS_CM_P_1000_ESSCMProgram, Section 6.7, Resolving Externally Identified and Reported Defects | |
| 800 | d. | customers and accredited test labs). | | ESSS 15_CM_1_1000_ESSCM1 Togram, Section 6.7, Resolving Externally Identified and Reported Section | TDP |
| 801 | VI, 9.6 | Release Process | | | |
| | | The release process is the means by which the vendor installs, | Vol. II, 2.11.5 TDP, Configuration Management | | |
| | | transfers, or migrates the system to the accredited test lab and, eventually, to its customers. The vendor shall establish such | Plan, Release Process; Vol. II, 7.4.5 Release Process | | |
| | | procedures and related conventions, providing a complete | Vol. 11, 7.4.3 Release Process | | |
| 802 | | description of those used to: | | | |
| | a. | Perform a first release of the system to an accredited test lab; | | ESSSYS_CM_P_1000_ESSCMProgram, Section 7.1, First Release to an Accredited Test Lab | TDP |
| 803 | | | | | IDF |
| | b. | Perform a subsequent maintenance or upgrade release of the | | ESSSYS_CM_P_1000_ESSCMProgram, Section 7.2, Maintenance or Upgrade Release to an Accredited Test Lab | mp p |
| 804 | | system, or a particular components, to an accredited test lab; | | | TDP |
| 004 | c. | Perform the initial delivery and installation of the system to a | | ESSSYS_CM_P_1000_ESSCMProgram, Section 7.3, Initial Installation and Deliver to a Customer | |
| | | customer, including confirmation that the installed version of the | | | TDP |
| 805 | | system matches exactly the certified version | | | |
| | d. | Perform a subsequent maintenance or upgrade release of the | | ESSSYS_CM_P_1000_ESSCMProgram, Section 7.4, Maintenance or Upgrade Release to a Customer | |
| | | system, or a particular component, to a customer, including confirmation that the installed version of the system matches | | | TDP |
| 806 | | exactly the qualified system version. | | | |
| 807 | VI, 9.7 | Configuration Audits | | | |
| 808 | VI, 9.7.1 | Configuration Audits, Physical Configuration Audit | | | |
| | | The Physical Configuration Audit is conducted by the accredited | Vol. II, 2.11.6 TDP, Configuration Management | | |
| | | test lab to compare the voting system components submitted for certification to the vendor's technical documentation. For the | Plan, Configuration Audits; Vol. II, 6.6 System Integration Testing, Physical | | |
| | | PCA, a vendor shall provide: | Configuration Audit; | | |
| 809 | | | Vol. II, 7.4.6 Configuration Audits | | |
| | a. | Identification of all items that are to be a part of the software | | ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.1, Identification of Items Included in the System | TDP |
| 810 | | release | | | 1101 |
| Q11 | b. | Specification of compiler (or choice of compilers) to be used to generate executable programs | see Vol. II, 2.5.5.2 Software Environment | ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.2, Specification of Compilers | TDP |
| 011 | | generate executable programs | <u>l</u> | I | 1 |

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| 812 | c. | Identification of all hardware that interfaces with the software | | ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.3, Identification of All Hardware Interfaces | TDP |
| 813 | d. | Configuration baseline data for all hardware that is unique to the system | | ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.4, Baseline Configuration Data for All Unique Hardware | TDP |
| 814 | e. | Copies of all software documentation intended for distribution to users, including program listings, specifications, operations manual, voter manual, and maintenance manual | | ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.5, End User Documentation | TDP |
| 815 | f. | User acceptance test procedures and acceptance criteria | | ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.6, User Acceptance Test Procedures and Criteria | TDP |
| | g. | Identification of any changes between the physical configuration of the system submitted for the PCA and that submitted for the FCA, with a certification that any differences do not degrade the | | ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.7, Identification of Physical Changes Made Between PCA and FCA Systems | TDP |
| 816 817 | h. | functional characteristics Complete descriptions of its procedures and related conventions used to support this audit by: | | | |
| 818 | | i. Establishing a configuration baseline of the software and hardware to be tested | | ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.8.1, Establishing a Configuration Baseline of the Software and Hardware | TDP |
| 819 | | Confirming whether the system documentation matches the corresponding system components | | ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.8.2, Confirming that Documentation Matches System Components | TDP |
| 820 821 | VI, 9.7.2 | Configuration Audits, Functional Configuration Audit The Functional Configuration Audit is conducted by the accredited test lab to verify that the system performs all the functions described in the system documentation. The vendor shall: | Vol. II, 2.11.6 TDP, Configuration Management Plan, Configuration Audits; Vol. II, 6.7 System Integration Testing, Functional Configuration Audit; Vol. II, 7.4.6 Configuration Audits | | |
| 822 | a. | Completely describe its procedures and related conventions used to support this audit for all system components | | ESSSYS_CM_P_1000_ESSCMProgram, Section 8.2.1, FCA Procedures and Conventions | TDP |
| 823 824 | b. | Provide the following information to support this audit: i. Copies of all procedures used for module or unit testing, integration testing, and system testing | | ESSSYS_CM_P_1000_ESSCMProgram, Section 8.2.1, FCA Procedures and Conventions | TDP |
| 825 | | ii. Copies of all test cases generated for each module and integration test, and sample ballot formats or other test cases used for system tests | Ġ | ESSSYS_CM_P_1000_ESSCMProgram, Section 8.2.1, FCA Procedures and Conventions | TDP |
| 826 | | Records of all tests performed by the procedures listed above including error corrections and retests | | ESSSYS_CM_P_1000_ESSCMProgram, Section 8.2.1, FCA Procedures and Conventions | TDP |
| 827 | VI, 9.8 | Configuration Management Resources Vendors may choose the specific [automated] tools they use to perform the record keeping, auditing, and reporting activities of the configuration management standards. The resources documentation requirements focus on assuring that procedures are in place to record information about the tools to help ensure that they, and the data they contain, can be transferred effectively and promptly to a third party should the need arise. Within this context, a vendor is required to develop and proved a complete description of procedures and related practices to maintaining information about: | Vol. II, 2.11.7 TDP, Configuration Management Plan, Configuration Management Resources; VII 7.4.7 Configuration Management Resources | | |
| 829 | a. | Specific tools used, current version, and operating environment; | | ESSSYS_CM_P_1000_ESSCMProgram, Section 9.1, Tools Used | TDP |
| 830 | b. | Physical location of the tools, including designation of computer directories and files; and | | ESSSYS_CM_P_1000_ESSCMProgram, Section 9.2, Tool Location | TDP |
| | c. | Procedures and training materials for using the tools. | | ESSSYS_CM_P_1000_ESSCMProgram, Section 9.2. Tool Location | TDP |
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