

ClearCount 1.0 Technical Data Package Summary



Abstract: This document identifies and summarizes the documents that comprise the ClearCount Technical Data Package (TDP).

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ClearCount Technical Data Package Summary

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Document history

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Chapter 1. Abstract

This section defines the purpose of this document. It contains the following sections.

- About this document
- Intended audience

1.1 About this document

This Technical Data Package Summary provides information about the documents that make up the ClearCount TDP. It also summarizes the other documents that are included in the ClearCount package.

1.2 Intended audience

This document is intended for state election officials and their delegated Voting Systems Test Laboratory, as part of the TDP required to certify the ClearCount central-count optical scan voting system for use in their state.

Chapter 2. ClearCount System Overview

ClearCount System Overview (ClearCountVersion_SysOverview_Date.pdf) provides information about the functional and physical components of the ClearCount system, how the components are structured, and the interfaces between them. It also reviews system performance characteristics.

It contains the following sections.

2.1 Operational environment of the system

This section describes the operational environment of the ClearCount system during the phases of an election. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.2.1.

2.2 Identification of COTS components hardware, software, and communications services

This section identifies the COTS components (hardware, software, and communications services) used in the ClearCount system. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.2.1.

2.3 System interfaces

This section identifies interfaces among internal components and interfaces with external systems. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.2.1.

2.4 System performance

This section provides summary information on the performance of the components of the ClearCount system. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 3.2.2.

2.5 Quality attributes

This section identifies ClearCount quality attributes including safety, security, privacy, and continuity of operation. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.2.2.

Chapter 3. ClearCount System Functionality Description

ClearCount System Functionality Description (ClearCountVersion_FunctDesc_Date.pdf) contains an overview of ClearCount features and components. Overall, it corresponds to VVSG 2005, Volume 2, Section 2.3. Specific references to sections in VVSG 2005, Volume 1 are included below.

3.1 Overall system capabilities

Satisfies VVSG 2005, Volume 1, Sections 2.1.

System capabilities discussed in the following sections include:

- Security
- Accuracy
- Error recovery
- Integrity
- System audit
- Election management system
- Vote tabulating program
- Ballot counter
- Telecommunications
- Data retention

3.2 Pre-voting capabilities

Satisfies VVSG 2005, Volume 1, Sections 2.2.1 through 2.2.6.

Pre-voting capabilities discussed in the following sections include:

- Ballot preparation
- Election programming
- Ballot and program installation and control
- Readiness testing
- Verification at the polling place
- Verification at the central location

3.3 Voting capabilities

This section describes ClearCount's voting capabilities, the requirements for which are found in VVSG 2005, Volume 1, Sections 2.3.1 through 2.3.3:

- Opening the polls.
- Activating the ballot (DRE systems).
- Casting a ballot.

3.4 Post-voting capabilities

This section describes ClearCount's post-voting capabilities, the requirements for which are found in VVSG 2005, Volume 1, Sections 2.4.1 through 2.4.4:

- Closing the polls.
- Consolidating vote data.
- Producing reports.
- Broadcasting results.

3.5 Maintenance, transportation, and storage

This section describes ClearCount maintenance, transportation, and storage, the requirements for which are found in VVSG 2005, Volume 1, Section 2.5.

Chapter 4. ClearCount Hardware Specification

The ClearCount Hardware Specification (*ClearCountVersion_HWSpec_Date.pdf*) contains an overview of the hardware components of the ClearCount system. Overall, it corresponds to VVSG 2005, Volume 2, Section 2.4.



Because ClearCount is built on all COTS hardware, this specification also refers to third-party documentation and specifications..

4.1 Hardware requirements

This section describes the hardware requirements of the ClearCount COTS hardware. The requirements for this section are found in VVSG 2005, Volume 1, Section 4.

4.2 Performance requirements

This section describes the ClearCount system's performance requirements. The requirements for this section are found in VVSG 2005, Volume 1, Section 4.1.

4.3 Hardware

This section describes the physical requirements for the workstations.

4.4 Physical characteristics

This section describes the physical characteristics of the hardware components. It corresponds to VVSG 2005, Volume 1, Section 4.2.

4.5 Environmental requirements

This section describes shelter, space, furnishings and fixtures, electrical, and other environmental requirements of the system. The requirements for this section are found in VVSG 2005, Volume 1, Section 4.1.2.

4.6 Tabulation processing requirements

This section describes tabulation processing requirements. The requirements for this section are found in VVSG 2005, Volume 1, Section 4.1.6.

4.7 Reporting requirements

This section describes reporting requirements for all devices in the ClearCount system. The requirements for this section are found in VVSG 2005, Volume 1, Section 4.1.7.

4.8 Vote data management requirements

This section describes vote data management, processing, and reporting in the ClearCount system. The requirements for this section are found in VVSG 2005, Volume 1, Section 4.1.8.

4.9 Accuracy requirements

This section describes the accuracy requirements for the ClearCount system. The requirements for this section are found in VVSG 2005, Volume 1, Section 4.1.1.

4.10 Design, construction, and maintenance characteristics

This section describes the physical characteristics of the ClearCount system. The requirements for this section are found in VVSG 2005, Volume 1, Section 4.3.

4.11 Appendices

ClearCount Hardware Specification contains the following appendices:

- *Appendix A: Evaluating marks on paper ballots*
This appendix describes how the ClearCount system evaluates the marks on a paper ballot.
- *Appendix B: List of registration failure messages*
This appendix provides a full list of registration failure messages.

Chapter 5. ClearCount Software Design and Specification

The ClearCount Software Design and Specification (ClearCountVersion_SWSpec_Date.pdf) contains an overview of ClearCount system software design. Overall, it corresponds to VVSG 2005, Volume 2, Section 2.5.

5.1 Security overview

This section describes how security is implemented in the ClearCount system.

5.2 Software overview

This section provides an overview of the ClearCount software. The requirements for this section are found in VVSG 2005, Volume 2, Section 2.5.3.

5.3 Software standards and conventions

This section provides information to support third-party software analysis and test design. The requirements for this section are found in VVSG 2005, Volume 2, Section 2.5.4.

5.4 Software operating environment

This section provides information on operating environment factors that influence the software design. The requirements for this section are found in VVSG 2005, Volume 2, Section 2.5.5.

5.5 Software functional specification

This section provides a description of the system's operating modes and software capabilities. The requirements for this section are found in VVSG 2005, Volume 2, Section 2.5.6.

5.6 Programming specifications

This section provides an overview of the ClearCount software design. The requirements for this section are found in VVSG 2005, Volume 2, Section 2.5.7.

5.7 System database

This section provides a description of the ClearCount system database. The requirements for this section are found in VVSG 2005, Volume 2, Section 2.5.8.

5.8 Interfaces

This section describes ClearCount internal and external interfaces. The requirements for this section are found in VVSG 2005, Volume 2, Section 2.5.9.

Chapter 6. ClearCount System Security Specification

ClearCount Software System Security Specification (ClearCountVersion_SecuritySpec_Date.pdf) contains an overview of ClearCount system software design. Overall, it corresponds to VVSG 2005, Volume 2, Section 2.6.

6.1 Brief product description

This section discusses the ClearCount components from a security perspective.

6.2 Access control background

This section discusses ClearCount user access levels; user roles; user accounts; election database states; authentication protocols; and access control mechanisms.

6.3 Security requirements

This section maps the ClearCount software to the security requirements in VVSG 2005, Volume 1, Section 7.

6.4 Protection against attack

This section describes how the ClearCount system can be protected against attack.

Chapter 7. ClearCount Test and Verification Specification

ClearCount Test and Verification Specification (ClearCountVersion_TestVerifSpec_Date.pdf) describes the testing specifications for ClearCount. Overall, it corresponds to VVSG 2005, Volume 2, Section 2.7.

7.1 Testing process

This section describes the testing process. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.7.1.

7.2 Test environment

This section describes the ClearCount test environment.

7.3 Test data

This section describes the sources of ClearCount test data.

7.4 Test artifacts

This section describes the test artifacts. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.7.1.

7.5 National certification considerations

This section describes the ClearCount operational features. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.7.2.

7.6 ClearCount Test and Verification Specification appendices

ClearCount Test and Verification Specification contains the following appendices:

- Appendix A: Test Plans and Test Case Reports
- Appendix B: Known Issues
- Appendix C: Test Reports

Chapter 8. ClearCount System Operations Procedures

8.1 Introduction

This section describes ClearCount operations at a high level. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.8.1.

8.2 Operational environment

This section provides a high-level description of the end-to-end ClearCount system. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.8.2.

8.3 System installation and test specification

This section contains links to ClearCount system installation and test procedures. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.8.3.

8.4 Operational features

This section describes the ClearCount operational features. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.8.4.

8.5 Operating procedures

This section contains links to ClearCount system operations procedures. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.8.5.

8.6 Operations support

This section contains links to information about ClearCount operational support. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.8.6.

Chapter 9. ClearCount System Maintenance Manual

ClearCount System Maintenance Manual (ClearCountVersion_SysMaint_Date.pdf) provides information about maintaining the ClearCount system in the field.

9.1 Introduction

This section provides a concept of operations for the ClearCount system. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.9.1.

9.2 Maintenance procedures

This section describes ClearCount maintenance procedures. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.9.2.

9.3 Maintenance equipment

This section describes the ClearCount requirements for maintenance equipment. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.9.3.

9.4 Parts and materials

This section describes the parts and materials needed to maintain the ClearCount system. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.9.4.

9.5 Maintenance facilities and support

This section describes everything required for ClearCount system maintenance. It corresponds to requirements listed in VVSG 2005, Volume 2, Section 2.9.5.

9.6 Appendices

ClearCount System Maintenance Manual contains the following appendices:

- Error messages requiring operator intervention
- Fujitsu supplies
- ClearCount troubleshooting checklist

Chapter 10. ClearCount Quality Assurance Program

ClearCount Quality Assurance Program (ClearVoteVersion_QualityAssurance_Date.pdf) provides information about the scope and nature of the quality program followed by Clear Ballot. Overall, it corresponds to VVSG 2005, Volume 2, Section 2.12.

It contains the following sections.

10.1 ClearCount System

This section describes ClearCount requirements, documentation of quality procedures, responsibilities, test plans and special tests, and feedback and process review.

10.2 COTS Hardware: Laptops and Scanners

This section describes the hardware specification review, responsibilities, test plans and special tests, and future development and COTS integration.

10.3 Integration with third-party voting systems Election Management Systems

This section describes PDF review and creation of the BDF; the BDF and election creation; BDF testing and validation; and responsibilities.

10.4 ClearCount Quality Assurance Plan appendices

ClearCount Quality Assurance Plan contains the following appendices:

- List of test plans
- List of test case reports

Chapter 11. ClearCount Configuration Management Plan

ClearCount Configuration Management Plan (ClearCountVersion_ConfigMgmt_Date.pdf) provides information about the configuration management program followed by Clear Ballot, makers of the ClearCount software. Overall, it corresponds to VVSG 2005, Volume 1, Section 9 and the VVSG 2005, Volume 2, Section 2.11.

11.1 Configuration management policy

This section describes the Clear Ballot configuration management policy, as specified in VVSG 2005, Volume 2, Section 2.11.1 and VVSG 2005, Volume 1, Section 9.2.

11.2 Configuration identification

This section describes the Clear Ballot practice for identifying, classifying, versioning, and naming items, as specified in VVSG 2005, Volume 1, Section 9.3.

11.3 Baseline and promotional procedures

This section describes the Clear Ballot component baseline and promotion procedures, as specified in VVSG 2005, Volume 1, Section 9.4.

11.4 Configuration control procedures

This section describes the configuration control procedures followed by Clear Ballot, as specified in VVSG 2005, Volume 1, Section 9.5.

11.5 Release process

This section describes the Clear Ballot release process, as specified in VVSG 2005, Volume 1, Section 9.6.

11.6 Configuration audits

This section outlines the ClearCount Physical Configuration Audit (PCA) and Functional Configuration Audit (FCA), as specified in VVSG 2005, Volume 1, Section 9.7.

11.7 Configuration management resources

This section describes the Clear Ballot configuration management resources, as specified in VVSG 2005, Volume 1, Section 9.8.

Chapter 12. ClearCount Personnel Deployment and Training Plan

ClearCount Personnel Deployment and Training Plan (ClearCountVersion_PersonnelDeployTrain_Date.pdf) provides information about the staff needed to run the ClearCount system, as well as the training required for various roles.

12.1 Personnel

This section describes the ClearCount personnel and skill level requirements, as specified in VVSG 2005, Volume 2, Section 2.10.1.

12.2 Training

This section describes the ClearCount orientation and training requirements, as specified in VVSG 2005, Volume 2, Section 2.10.2.

Chapter 13. ClearCount Technical Data Package Summary

ClearCount Technical Data Package Summary (this document) ((*ClearCountVersion_tdp_Summary_Date.pdf*) identifies and summarizes the documents that comprise the ClearCount TDP, along with other supporting ClearCount and third-party documents.

Chapter 14. Other ClearCount documents

This section includes summaries of the other documents provided by Clear Ballot.

14.1 ClearCount Release Notes

ClearCount Release Notes (ClearCountVersion__ReleaseNotesSummary_Date.pdf) summarizes the tickets verified and testing performed for each build, based on build date.

14.2 ClearCount Election Preparation and Installation Guide

ClearCount Election Preparation and Installation Guide (ClearCountVersion_ElectionPrepInstall_Date.pdf) describes how to install and configure the ClearCount software and prepare for an election. It contains the following sections.

- Installing the ClearCount software
- Configuring ScanStations
- Configuring Election Administration Stations
- Hardening the system
- Setting up the scanning locations
- About Ballot Definition Files
- About target cards and box labels
- Creating elections and users
- ClearCount readiness testing
- ClearCount Logic and Accuracy testing
- Uninstalling ClearCount
- Breakdown and storage

14.3 ClearCount test plans

The ClearCount test plans describe the testing processes followed by ClearCount. The set consists of the following test plans:

- *Laptop Acceptance Test Plan*
(ClearCountVersion_LaptopAcceptanceTestPlan_Date.pdf)
- *Scanner Acceptance Test Plan*
(ClearCountVersion_ScannerAcceptanceTestPlan_Date.pdf)
- *Installation and Hardening Test Plan*
(ClearCountVersion_InstallHardenTestPlan_Date.pdf)
- *Performance and Stress Test Plan*
(ClearCountVersion_PerfStressTestPlan_Date.pdf)
- *System Error Handling Test Plan*
(ClearCountVersion_SysErrorHandlingTestPlan_Date.pdf)
- *System Test Plan*
(ClearCountVersion_SysTestPlan_Date.pdf)
- *Tabulator Functional Test Plan*
(ClearCountVersion_TabFunctTestPlan_Date.pdf)
- *UI Reports Test Plan*
(ClearCountVersion_UIReportTestPlan_Date.pdf)
- *Ballot Adjudication and Resolution Test Plan*
(ClearCountVersion_BallotAdjResTestPlan_Date.pdf)
- *User Access and Election Administration Test Plan*
(ClearCountVersion_UserAccessElectAdminTestPlan_Date.pdf)

14.4 ClearCount test case reports

The following test case reports correspond to the collection of ClearCount Test Plans. They are contained in the archive file named clearvote_test_case_reports.zip.

- Test Case Report Scanner Behavior
- Test Case Report Installation and Hardening
- Test Case Report Performance and Stress Testing
- Test Case Report System and Tabulation Regression
- Test Case Report System Error Handling
- Test Case Report Tabulator Regression Tests
- Test Case Report Tabulator Error Handling
- Test Case Report Users Election Admin and Access Levels

- Test Case Report Ballot Adjudication and Resolution
- Test Case Report – UI 1001 – Dashboard
- Test Case Report – UI 1002—Statement of Ballots Cast
- Test Case Report – UI 1003—Statement of Votes Cast
- Test Case Report – UI 1004—Contests Report
- Test Case Report – UI 1005—Statement of Votes Cast with Precincts
- Test Case Report – UI 1006—Vote Visualization
- Test Case Report – UI 1008—Election Activity Log
- Test Case Report – UI 1009—Causes of Unreadable Ballots
- Test Case Report – UI 1010—Ballot Images
- Test Case Report – UI 1011—Scan Station Report
- Test Case Report – UI 1012—Ballot Information Page
- Test Case Report – UI 1013—Annotated Ballot Page
- Test Case Report – UI 1014—Box Report
- Test Case Report – UI 1015—Precinct report
- Test Case Report – UI 1016—Ballot Locator
- Test Case Report – UI 1017—Human Resolutions
- Test Case Report – UI 1018—Ballot Styles
- Test Case Report – UI 1019—Counter Group – Statement of Ballots Cast with Counter Groups

14.5 ClearCount Election Database Specification

Satisfies VVSG 2005, Volume 2, Section 2.5.8.

File electionDbSpec.xls supplements *ClearCount Software Design and Specification* by describing the several levels of database design. *General Concepts* provides a conceptual description of the most important objects contained in the database. Other sections of the document describe the implementation and schema for the data tables and fields.

14.6 ClearCount module and functional interfaces

The ModuleAndFunctionalInterfaces.zip archive file supplements *ClearCount Software Design and Specification*. It contains HTML files that address the requirement in VVSG 2005, Volume 2, Section 2.5.7.2.

14.7 ClearCount Approved Parts List

ClearCount Approved Parts List (ClearCountVersion_PartsList_Date.pdf) describes the ClearCount minimum system requirements.

14.8 Additional PCA documents

The following additional documents are provided to support the PCA review of the TDP in the Additional PCA Docs folder. The files were created using a template provided by SLI Global Solutions:

- PCA Doc - Personnel Deployment & Training
- PCA Doc - Quality Assurance
- PCA Doc - Software Design & Spec
- PCA Doc - System Functionality Desc
- PCA Doc - System Hardware Spec
- PCA Doc - System Maintenance Procs
- PCA Doc - System Operations Procs
- PCA Doc - System Overview
- PCA Doc - System Security Spec
- PCA Doc - System Test & Verification Spec
- PCA Doc - Configuration Management Plan

Chapter 15. Third-party documents

Because ClearCount uses all COTS hardware, the ClearCount TDP includes relevant third-party documentation.

15.1 Fujitsu scanner documentation

The following table lists the Fujitsu scanner documentation that is included with the ClearCount TDP. Customers receive this documentation with the scanner and may also download the documentation from the Fujitsu website.

Document title	Description	File name
fi-6800		
<i>fi-6800 Color Duplex High-Volume Production Scanner</i>	Technical specifications.	fi-6800_datasheet.pdf
<i>fi-6800 Image Scanner Getting Started</i>	Instructions for unpacking and installing the scanner.	fi-6800_get-started-guide.pdf
<i>fi-6800 Image Scanner Operator's Guide</i>	Instructions for using the scanner, maintaining it, and troubleshooting errors.	fi-6800_ops-guide.pdf
<i>fi-6800 Image Scanner Error Recovery Guide V3.2.3.2</i>	Real-time troubleshooting and debugging, presented as online help.	FER3232X2y.exe
<i>fi-Series Image Scanner Safety Precautions</i>	Provides scanner warning and safety information.	fi-6800 Safety.pdf
fi-6670		
<i>fi-6670/fi-6770 Color Duplex Document Scanners</i>	Technical specifications.	fi-6x70_datasheet.pdf
<i>fi-6670(A)/fi-6770(A)/fi-6750S Image Scanner Getting Started</i>	Instructions for unpacking and installing the scanner.	fi-6x70_get-started-guide.pdf
<i>fi-6670(A)/fi-6770(A)/fi-6750S Image Scanner Operator's Guide</i>	Instructions for using the scanner, maintaining it, and troubleshooting errors.	fi-6x70_ops-guide.pdf
<i>Error Recovery Guide for fi-6670(A)/fi-6770(A)/fi-6750S V3.1.3.2</i>	Real-time troubleshooting and debugging, presented as online help.	FER3132X31.exe
<i>fi-Series Image Scanner Safety Precautions</i>	Provides scanner warning and safety information.	fi-6670 Safety.pdf
fi-7180		
<i>fi-7180 & fi-7280 High Performance Color Duplex Scanner</i>	Technical specifications.	fi-7x80_datasheet.pdf
<i>fi-7160/fi-7260/fi-7180/fi-7280 Image Scanner Getting Started</i>	Instructions for unpacking and installing the scanner.	7000-models_get-started-guide.pdf

<i>fi-7160/fi-7260/fi-7180/fi-7280 Image Scanner Operator's Guide</i>	Instructions for using the scanner, maintaining it, and troubleshooting errors.	7000-models_og.pdf
<i>Error Recovery Guide Version 4.3.0.2</i>	Real-time troubleshooting and debugging, presented as online help.	FER4302X3.exe
<i>fi-Series Image Scanner Safety Precautions</i>	Provides scanner warning and safety information.	fi-7180 Safety.pdf

15.2 Fujitsu software documentation

The following table lists the documentation for the required Fujitsu software that supports the use of Fujitsu scanners. Copies of this software are included with the ClearCount TDP. Customers receive this documentation with the software and may also download the documentation from the Fujitsu website.

Document title	Description	File name
ScandAll PRO 2.0		
<i>Fujitsu ScandAll PRO V2.0.7 README</i>	System requirements plus instructions for installing and uninstalling ScandAll PRO.	pro-v2-readme.pdf
<i>ScandAll PRO V2.0 User's Guide</i>	Instructions for using ScandAll PRO.	p2ww-2860-03enzo.pdf
TWAIN driver		
<i>Fujitsu TWAIN 32 Scanner Driver User's Guide</i>	Instructions for installing and using the driver.	drvguide_919_921_1010_1021.pdf