



COLORADO SECRETARY OF STATE

Elections Division

Application for Certification or Modification of a Voting System

This application is for: (check one)

☒ Certification of a Voting System

☐ Temporary Approval/Use

☐ Modification of a Voting System

Vendor Contact Information

Name of Vendor

Dominion Voting Systems

Address

1201 18th Street

Address

Suite 210

City

Denver

State

CO

Zip Code

80202

Person to Contact

Jessica Bowers

Telephone

303-482-5668

Fax

E-mail

Redacted

Equipment Information

Make

Democracy Suite

Model(s)

5.2

Description of each major subsystem or component: (including if it is required or optional)

- EMS – REQUIRED - Election Management System software that operates on a COTS Server. It provides components for designing election databases, ballot artwork generation, programming ballot scanning workstations, tallying of results and reporting.

- ICC – REQUIRED - ImageCast Central workstation that operates on a COTS computer with a COTS high speed scanner (Canon DR-G1130, DR-X10C, DR-M160II) counting paper ballots.

- ICX – REQUIRED – ImageCast X is system software that operates on COTS equipment. It's composed of the ICX (ImageCast X) client with COTS tablets at Voting Service Centers (VSC) to allow voters to mark their ballots and produce scannable, machine, and human readable ballot records.

Software/Firmware Information

All applicable version, release, and firmware numbers

Democracy Suite 5.2 EMS Software Platform Components

Software	Software Version
EMS Election Event Designer (EED)	5.2
EMS Results Tally and Reporting (RTR)	5.2
EMS File System Service (FSS)	5.2
EMS Audio Studio (AS)	5.2
EMS Data Center Manager (DCM)	5.2
EMS Election Data Translator (EDT)	5.2
EMS Application Server (APPS)	5.2
EMS Adjudication Service	5.2
Adjudication Client	5.2
Adjudication Services	5.2



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Democracy Suite 5.2 EMS Client Application Software Components

Software
Microsoft Windows 10
Windows Server 2012 R2
Microsoft .NET Framework 4.0
Microsoft SQL Server 2016

Democracy Suite 5.2 ICC Software Components

Software	Software Version
ImageCast Central Application	5.2
Image-Analysis DLL	5.2
Windows 10	COTS

Democracy Suite 5.2 ICX Platform Components

Software	Software Version
ICX Client	5.2
ImageCast Voter Activation (ICVA)	5.2
Smart Card Helper Service	5.2

Democracy Suite 5.2 ICX Software Components

Software
Microsoft Windows 10
Android 4.4.2 KitKat
Android 5.0.2 Lollipop

Federal Testing Information

NASED or EAC Qualification or Certification Number(s):
EAC Certification #: **DVS-DemSuite5.0**

Rule 21.3.6– Trusted Build Documentation

☒ Trusted Build Installation Instructions

Rule 21.4.4 and 21.4.13(a) – External Test Documentation (*check all that apply*)

- ☒ An application penetration test conducted to analyze the system for potential vulnerabilities
- ☒ A source code evaluation conducted in accordance with Software Design and Coding Standards of the 2002 Voting System Standard



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- ☒ A complete report detailing all findings and recommended compensating controls for vulnerabilities and deficiencies
- ☒ VSTL test documentation
- ☒ Other State test documentation

Rule 21.4.6(b) - Physical and Design Characteristics Documentation

- ☒ Drawings, photographs and any related brochures or documents

Rule 21.4.10(c), 21.4.10(d)(1) and 21.4.13(r) - Database and Operating System Documentation (*check all that apply*)

- ☒ Database Hardening Procedure
- ☒ Operating System Hardening Procedure
- ☒ Minimum services and executables required to run the voting system application

Rule 21.4.13(b), (j), (l), (m), and (n) – General Documentation (*check all that apply*)

- ☒ Standard issue users/operator manual
- ☒ System administrator/application administration manual
- ☒ Training manual and related materials
- ☒ Election definition programming and diagnostics manuals
- ☒ Minimum services needed for the successful, secure and hardened operation of all components of the voting system
- ☒ Security measures for all systems, software, devices (upload, download, and other programming devices) that act as connectors and any additional recommended security measures
- ☒ Processing standards for each component of the voting system
- ☒ Detailed information as to the type of hardware required to execute the software
- ☒ A statement of all requirements and restrictions regarding environmental protection, electrical service, telecommunications service and any other facility or resource required for the installation, operation and storage of the voting system

Rules 21.4.12(c)(10), 21.4.12(d)(8), 21.4.13(c), (k), and (o) – DRE Documentation (*check all that apply*)

- ☐ Barcode type, protocol, and/or description of barcode and the method of reading the barcode as applicable to the voting system
- ☐ Procedures which describe how to investigate and resolve malfunctions
- ☐ The nature and sensitivity of the tactile device if the system uses touch screen technology
- ☐ The nature and sensitivity of any other technology used
- ☐ Procedures and documentation for the use of the VVPAT
- ☐ Any available data on problems caused for persons who experience epileptic seizures due to the DRE voting device's screen refresh rate



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Rules 21.4.12(c)(10), 21.4.12(d)(8), 21.4.13(c), (k), and (o) – Ballot Marking Device Documentation (*check all that apply*)

- ☒ Barcode type, protocol, and/or description of barcode and the method of reading the barcode as applicable to the voting system
- ☒ Procedures which describe how to investigate and resolve malfunctions
- ☒ The nature and sensitivity of the tactile device if the system uses touch screen technology
- ☒ The nature and sensitivity of any other technology used
- ☒ Procedures and documentation for the use of the VVPAT
- ☒ Any available data on problems caused for persons who experience epileptic seizures due to the refresh rate of the ballot marking device's screen, if any

Rule 21.4.13(e) – Battery Documentation (*check all that apply*)

- ☒ The steps and times required for charging batteries for each type of device submitted for certification
- ☒ Estimated time of battery operation for each type of device submitted for certification, assuming continuous use of the devices by voters during an interruption of normal electrical power

Rule 21.4.13(h) – Audit Documentation (*check all that apply*)

Documentation that includes the location and a description of the content of the audit trail information that applies to:

- ☒ Operating systems
- ☒ Election management system
- ☒ Election tabulation devices

Rule 21.4.13(i) - Voting System Security Documentation (*check all that apply*)

The documentation must contain configurations, properties and procedures to prevent, detect and log changes to system capabilities for:

- ☒ Defining ballot formats
- ☒ Casting and recording votes
- ☒ Calculating vote totals consistent with defined ballot formats
- ☒ Reporting vote totals
- ☒ Altering of voting system audit records
- ☒ Changing or preventing the recording of a vote
- ☒ Introducing data for a vote not cast by a registered voter
- ☒ Changing calculated vote totals
- ☒ Preventing access to vote data, including individual votes and vote totals, to unauthorized individuals
- ☒ Preventing access to voter identification data and data for votes cast by the voter

The applicant shall be responsible for providing confidential or other "trade secret" documentation in a separate binder and/or electronic media with the information clearly marked as "confidential" or "trade secret" pursuant to section 24-72-204(3)(IV), C.R.S.

In making application for certification of the voting system listed above, I assert that the system meets the requirements of the Colorado Secretary of State Election Rules (8 CCR 1505-1).

Jessica Bowers
Name

Manager, Certification Compliance
Title



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Signature Jessica Serrano

2/9/2017

Date