



# 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 Clear Ballot Group		
Address 7 Water Street		
Address Suite 700		
City Boston	State MA	Zip Code 02109
Person to Contact Aaron Wilson		
Telephone 850.723.8274	Fax	E-mail Aaron.wilson@clearballot.com

Equipment Information	
Make Clear Ballot Group	Model(s) ClearVote 1.4.1
<b>Component    Model</b> <b>ClearDesign Components</b> Dell Latitude Laptop    5580 Dell PowerEdge Server    T630 Dell 24 inch Monitor    SE2416H Dell 22 inch Monitor    E2216HV Dell Mini Tower    T3620 TP-LINK VPN Router    TL-R600VPN Lenovo USB Portable DVD Burner LN-8A6NH11B Brother Printer    HL-L2340DW  <b>ClearAccess Components</b> Dell OptiPlex AIO    5250 Dell 15" Inspiron 7000 series Brother Laser Printer    HL-L2340DW Oki Data Laser Printer    B432dn Storm EZ Access Keypad    EZ08-222013 Origin Instruments Sip/Puff Breeze with Headset    AC-0313-H2 Hamilton Buhl Over-Ear Stereo Headphones HA7 ElectionSource Table Top Voting Booth (Privacy Screen)    VB-60B APC Smart-UPS    SMT2200 Ergotron Stand for Dell OptiPlex 5250 AIO (portrait mode)    Neo Flex  <b>ClearCount Components</b> Dell Latitude Laptop (multiple units)    5580 Dell PowerEdge Server    T330	



# COLORADO SECRETARY OF STATE

## Elections Division

Application for Certification or Modification of a Voting System

Dell OptiPlex AIO	7440
Dell Precision Workstation	T3620
Fujitsu Scanner	fi-7180
Fujitsu Scanner	fi-6800
Fujitsu Scanner	fi-6400
Lenovo USB Portable DVD Burner LN-8A6NH11B	
Dell 22 inch Monitor	E2216HV
Dell 22 inch Monitor	P2217
Dell 22 inch Monitor	S2240M
Dell 27 inch Monitor	P2717H
Cisco Catalyst Switch (1 Gigabit Router or Switch)	2960-X Series
TP-LINK Easy Smart Switch (1 Gigabit Router or Switch)	TL-SG108E
NetGear ProSafe VPN Firewall (1 Gigabit Router or Switch)	FVS318G
APC Smart-UPS SMT1500	
Western Digital External Hard Drive	WDBBGB0040HBK
EZ Scanning Shelf (fi-6400 or fi-6800)	Model: WorkeZ

### Software/Firmware Information

#### Software Overview

ClearDesign – election management software (required for ballot layout)

ClearCount – central count scanning, tabulation, and on-screen resolution/adjudication (required)

ClearAccess – in-person universal voting; includes precinct, UOCAVA, and accessibility voting (required)

#### Firmware/Software Version

##### ClearDesign Components, Version 1.4.3

Python webpy	0.38
Python MySQL DB	1.2.3
SQLAlchemy	1.0.15
Python Pillow	2.3.0
Python Flup	1.0.2
Python DBUtils	1.1
Python XLRD	0.9.4
Python FontTools library	3.0
Python RTF	0.2.1
OpenSSL (FIPS)	2.0.5
OpenSSL	1.0.1f
DataTable	1.10.5
DataTable-TableTools	2.2.3
DataTable-ColVis	1.1.1
DataTable-ColReorder	1.1.2
DataTablePlugins	1.10.10
bootstrap	3.0.0
jquery	1.10.2
jquery-impromptu	5.2.3
jquery-qrcode	1.0
jquery-splitter	0.14.0
jquery-ui	1.10.4
jscolor	1.4.2



# COLORADO SECRETARY OF STATE

## Elections Division

Application for Certification or Modification of a Voting System

tinymce 4.1.9  
fastclick 1.0.4  
libmp3lame 0.5.0  
jszip 3.1.2  
papaparse 4.1.2  
jsmin 12/4/2003

### ClearAccess Components, Version 1.4.1

Windows 10 Pro 1607  
Google Chrome 61.0.3163.100  
nsis 3.01  
PyInstaller 3.2  
Python 2.7.10  
webpy 0.38  
Python-future 0.15.2  
pefile 2016.3.28  
pywin 220  
jquery 1.10.5  
DataTables 1.10.5  
ColVis 1.1.1  
ColReorder 1.1.2  
jsmin 2003-12-04  
Brother printer driver 1.0.1.0  
Okidata printer driver 1.0.0.0

### ClearCount Components, Version 1.4.2

Windows 10 Pro 1607  
Google Chrome 55.0.2883.87  
Ubuntu 16.04.1 LTS  
Python(part of Ubuntu) 2.7.12  
Pillow (part of Ubuntu) 3.1.2  
MySQLdb (part of Ubuntu) 1.3.7  
PyInstaller 3.2.1  
PollyReports 1.7.6  
OpenSSL 1.0.2g  
OpenSSL FIPS Object Module 2.0.10  
JavaScript Bootstrap library 2.3.2  
JavaScript Chosen library 1.0.0  
JavaScript jQuery library 1.10.2  
JavaScript jQuery-migrate library 1.2.1  
JavaScript DataTables library 1.9.4  
ColVis 1.0.8  
JavaScript TableTools library 2.1.5  
ZeroClipboard 1.0.4-TableTools2  
JavaScript FixedHeader library 2.0.6  
JavaScript hotkeys library 1.0  
JavaScript tooltip library 1.3  
JavaScript pep library 1.0  
JavaScript LESS library 1.3.3  
Fujitsu fi-6400 PaperStream 1.30.0  
Fujitsu fi-6800 10.10.710  
Fujitsu fi-7180 PaperStream 1.4.0



# COLORADO SECRETARY OF STATE

## Elections Division

Application for Certification or Modification of a Voting System

### Federal Testing Information

NASED or EAC Qualification or Certification Number(s):  
In process at the EAC

### 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
- 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 – exists for ClearCount, add for ClearDesign
- 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



# COLORADO SECRETARY OF STATE

## Elections Division

Application for Certification or Modification of a 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 – remake, do not use the barcode
- 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

### 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



# COLORADO SECRETARY OF STATE

## Elections Division

Application for Certification or Modification of a Voting System

*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).

Aaron Wilson

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

Certification Manager

\_\_\_\_\_  
Title

February 19, 2016

Revised December 21, 2017

\_\_\_\_\_  
Date