

DOMINION  
VOTING



1201 18<sup>TH</sup> Street, Suite 210  
DENVER, CO, 80202  
1.866.654.8683  
[www.dominionvoting.com](http://www.dominionvoting.com)

Request for Information:  
Uniform Voting System for the State of  
Colorado



Prepared for: State of Colorado, Department of State

April 1, 2013

# Contents

Company Overview .....	4
The Dominion Difference .....	4
State Support Experience .....	5
Certification .....	5
Security, Accuracy and Accountability .....	6
Domestic Manufacturing .....	6
Dominion’s Product Offering .....	7
Core Technology .....	7
Dual Threshold Technology (Marginal Marks) .....	7
Dominion’s Exclusive Digital Ballot AuditMark® .....	8
Democracy Suite® Election Management System (EMS) .....	9
Election Event Designer .....	9
Results Tally and Reporting .....	10
Audio Files .....	10
Internet-based Graphical Results Report .....	11
ImageCast® Series of Tabulators .....	12
Electronic Safeguards and Security .....	12
Results Storage Media .....	13
Internal Battery .....	13
Media Storage Security .....	13
Tabulator Audit Trail .....	13
ImageCast® Evolution .....	15
Accessibility .....	16
Standard features .....	17
ImageCast® Precinct .....	18
Standard features .....	18
ImageCast® Product Features .....	18
Ballot Boxes .....	18
ImageCast® Central Count .....	20
Adjudication .....	21
Security .....	22
Overview .....	22
Maintaining Data Integrity .....	22
EMS Security .....	22
Role-based access controls .....	23

Hardware Access Controls.....	23
Communications .....	23
Effective Password Management.....	23
Secure Paper Ballot.....	24
VoteRemote.....	25
On-going development.....	26
Implementation and Training.....	27
Project management .....	27
Support.....	27
Implementation timelines .....	28
Training Methods.....	28
In-person training.....	28
eTraining.....	29
Our Election Partners.....	30
VoteC VoteSafe Electronic Poll book .....	30
Election Source .....	31
Conclusion .....	33

**List of Appendices:**

- Appendix 1 – Ballot with AuditMark and Adjudication

## Company Overview

Dominion Voting Systems, Inc. (“Dominion”) welcomes the opportunity to present our EAC VVSG 2005 certified voting system for consideration by the State of Colorado. Dominion is a company that has distinguished itself by pursuing excellence in customer service by implementing a technical culture focused on achieving the highest levels of accuracy, reliability and transparency. Founded in 2003, Dominion has grown to roughly 200 employees, consisting of a mix of seasoned election veterans with a solid grasp on technology and engineering experts that understand elections. Dominion works relentlessly to maintain and enhance its best assets: its people, technology and reputation.

Headquartered in Denver, CO, and offices in Toronto, ON, Jamestown, NY, Endicott, NY, McKinney, TX, and San Leandro, CA, Dominion is strategically positioned in all 4 U.S. continental time zones, currently servicing and supporting over 1,200 jurisdictions nationwide. As part of its national footprint, the company has deployed tens of thousands of voting devices and successfully conducted thousands of elections – large and small – with our Dominion, Premier, and Sequoia product lines. Dominion is dedicated to continued growth and product innovation, thus ensuring the long-term success of our customers.

Dominion’s commitment to producing the highest quality election products is reflected in our heavy investment in development and engineering – ensuring that customers have the product options they need. Developed from the ground up as an integrated system of digital scan components, Democracy Suite® was created specifically around present and future customer needs. It is not wrapped around a legacy platform nor an outdated software and hardware engineering effort. Instead, Dominion believes that election officials need something new and robust that can be adapted to market conditions and trends. As their requirements shift, or legislative and voter confidence requires changes in a mandate, so to can our systems evolve.

Election automation is a highly demanding and rapidly changing discipline – and customers making long-term investments need to know their future requirements will always be met. Therefore, Dominion’s commitment to producing the highest quality election products in the world is reflected in our response to this RFI and our interest in becoming the election systems provider for the State of Colorado.

## The Dominion Difference

What makes Dominion stand out and the best fit for the diverse group of small, medium and large counties of Colorado? We believe that there are several reasons. Dominion offers uniformity, technology, security, experience in implementing, training and continuous support for our voting solutions. Counties will be able to choose from several component options – all linked through the Democracy Suite system – making a complete election solution. A solution that provides the counties with a state-of-the art and efficient system that exceeds functionality required by election laws, rules and procedures required to run fair, accurate and transparent elections. This allows the State of Colorado to have the uniformity that is desired.

Additionally, Dominion offers multiple methods to acquire our solutions. Counties can purchase the equipment as they are currently accustomed to or via our Managed Service Agreement. The Managed Service Agreement packages all equipment, licensing, warranty, supplies, services

and support into an annual budgetary number paid over a multiple year term. The main advantage for customers is that they will not be stuck with legacy products that cannot be repaired and recertified. At the end of the term, the county can replace the system with a newly certified solution, and continue with a new Managed Service Agreement.

## State Support Experience

Dominion has extensive experience in servicing and implementing large state contracts. Dominion currently has contracts with the following states:

- Louisiana
- Nevada
- Ohio
- New York
- New Jersey
- Utah

Specifically in Louisiana, Dominion implemented a statewide system for the creation and processing of all mail, absentee and UOCAVA ballots. This system is used in conjunction with the Dominion owned and supported Sequoia equipment implemented in 2006. Part of the Dominion implementation included the creation and continued maintenance of a statewide data import system which allows the state officials to create election files for all 64 parishes (counties) for each voting platform. Below is a brief description of the Louisiana State environment for the Dominion system:

### State Information

- 64 Parishes comprised of three different departments (Clerk of Court, Registrar of Voters and Warehouse Operations)
- 4,258 Precincts
- 2.9 million Registered Voters

### Voting System Information

- 9,443 AVC Advantages (Precinct DRE)
- 569 Edges (Early Voting DRE)
- 110 ICC (Central Absentee Scanners)
- 128 Election Database files
- Over 300 workstations

### First Use Election

- 900 contests
- 154 Propositions
- Over 2000 candidates
- DRE, Paper and Audio Ballots
- 97% tally completed by 10:30 (polls close at 8:00), 100% by 12:00

## Certification

Democracy Suite is certified under the strict U.S. Election Assistance Commission 2005 Voluntary Voting System Guidelines (EAC VVSG 2005). The EAC VVSG 2005 guidelines significantly increase security requirements for voting systems and expand access, including opportunities to vote privately and independently, for individuals with disabilities. The EAC

VVSG 2005 was developed in response to the Help America Vote Act (HAVA), to ensure that the basic functionality, accessibility and security of the voting system maintains and operates a high standard of transparency, accuracy and reliability. These extensive requirements were exceeded by Dominion Voting Systems' Democracy Suite 4.6 platform in May 2012. Dominion is working on an enhanced version of Democracy Suite, 4.14, which is currently in testing for certification by the EAC. Democracy Suite 4.14 will be submitted to Colorado for certification by the second quarter of 2013. **Dominion's Democracy Suite is the only all-inclusive platform developed by a major elections solutions provider to have received this stringent certification to date.** The EAC certification number allowed Dominion to further certify Democracy Suite 4.6 in the following states: Ohio, Tennessee, Virginia, Illinois, and Missouri.

## Security, Accuracy and Accountability

Dominion understands that security from both external and internal threats to the voting system is of paramount importance. Democracy Suite's security protocols exceed EAC VVSG 2005 requirements. All electronic records are digitally signed, all election records and database files are encrypted, and the entire election database is hardware encrypted.

Democracy Suite® uses full image scanning and a patented AuditMark® technology. This technology not only images and stores a copy of every ballot scanned, but also records the voter's intent when the ballot is scanned in the precinct or centrally. With this process, software independent risk-limiting audits are easily performed by a range of election stakeholders: observers, supervisors, candidates, advocates, and auditors.

## Domestic Manufacturing

Controlling design, engineering, and manufacturing from concept to completion, is integral to the output and the finished product of all Dominion election products. It reduces risk for the company and our clients.

Dominion's primary manufacturing facilities meets rigorous certification and compliance standards in accordance with AS9100, IPC Class III, US ITAR, US FAR, ITC, ISO9001, ISO18001, ISO13485, ISO/TS 16949, ISO14001 as well as other requirements of highly regulated sectors. This ensures common procedures and practices such as additional assembly lines and/or shifts can be added as required to keep up with demand without sacrificing quality.

Thus, the election equipment that are purchased by and supplied to the State of Colorado from Dominion Voting Systems will have been built and assembled in the United States.

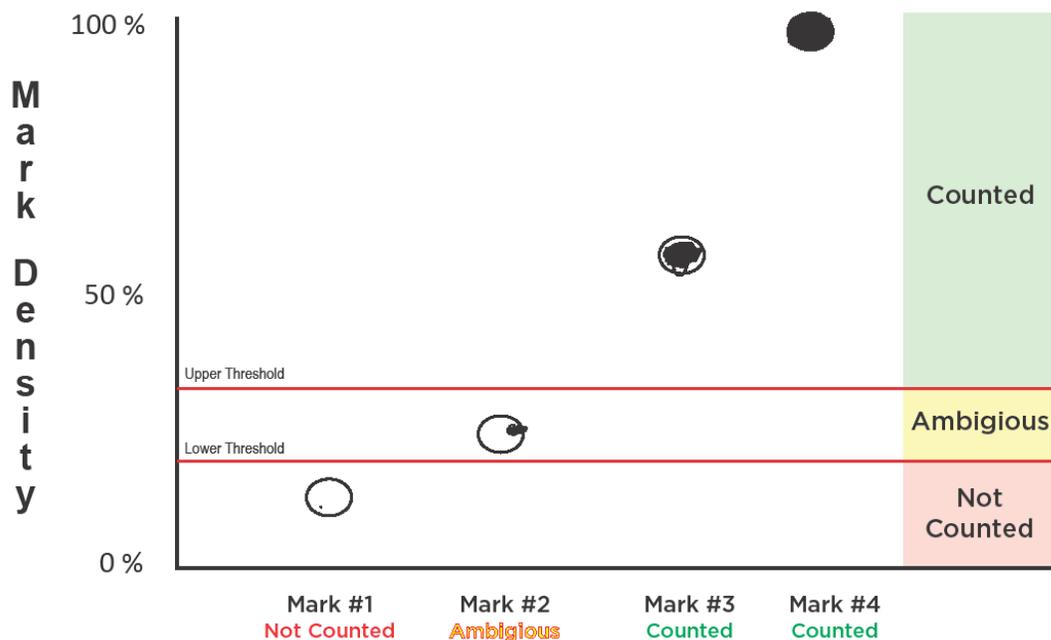
## Dominion's Product Offering

### Core Technology

Dominion Voting Systems has invested in the development of proprietary technology that truly sets its products apart from the competition. Focusing on two key aspects of the electoral process – risk-limiting auditing and voter intent – Dominion's technology improves the transparency and integrity of the election process.

### Dual Threshold Technology (Marginal Marks)

Dominion Voting pioneered the use of digital scanning in the automated election industry, and continues to set the standard in digital image acquisition and analysis in the tabulation of digitally scanned ballots. When a ballot is fed into the tabulator, precinct or centrally, a complete duplex image is created and then analyzed for tabulation by evaluating the pixel count of a voter mark. The pixel count of each mark is compared with two thresholds (which are defined through the Election Management System by the Election Official) to determine what constitutes a vote. If a mark falls above the upper threshold, it's a valid vote. If a mark falls below the lower threshold, it will not be counted as a vote. However, if a mark falls between the two thresholds (known as the "ambiguous zone"), it will be deemed as a marginal mark and the ballot will be returned to the voter for corrective action (please see diagram below). With this feature, the voter is given the ability to determine his or her intent, not an inspection or recount board after the fact, when it is too late.



**This patented feature ensures that all ballots clearly show voter intent and helps maintain the integrity of the voting process. The voter is given the ability to determine his or her intent at the voting location – and not an inspection or recount board after the fact.**

## Dominion's Exclusive Digital Ballot AuditMark®

Dominion's AuditMark® technology will allow the State of Colorado to provide greater transparency in the electoral process. The AuditMark can be used for visual inspection or in Risk Limiting Audits. Once the election is complete, all of the ballot images are in one location for the purpose of searching, reviewing and performing Risk Limited Audits. Dominion can provide tools to be able to efficiently perform these types of tasks.

### AuditMark®

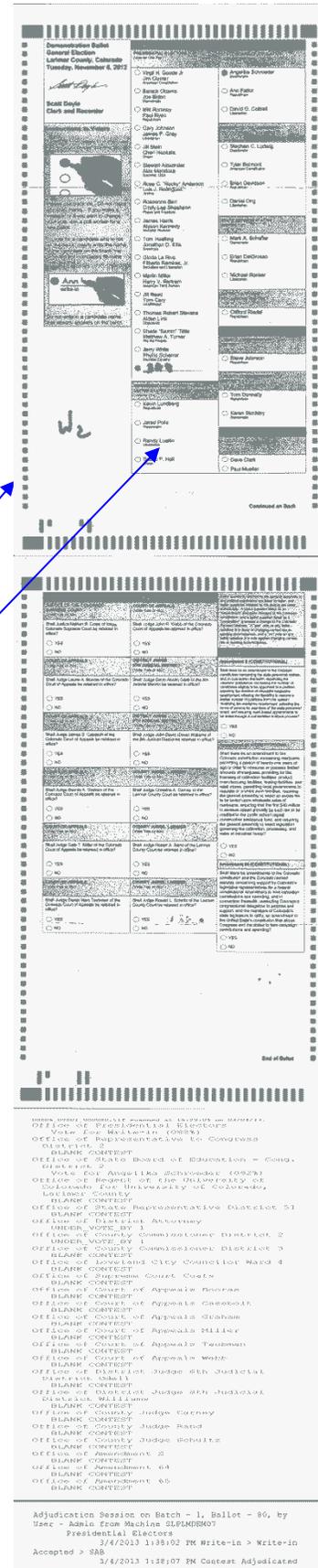
Dominion Voting has created a patented process that not only images and stores a copy of the ballot, but also records on that image how that ballot was counted by the scanner on Election Day (see Figure below). Using this process, the comparison can easily be made by any Election Official.

#### Ballot image with audit trail:

This is a sample ballot image for a ballot processed by the system. All ballots are imaged and stored for auditing purposes. The image contains:

1. Image of front side of ballot
2. Clear image of all text, ballot identifiers, candidates and voter markings.
3. If the reverse side of the ballot is used, the image is also captured
4. AuditMark: Ballot-level audit trail feature showing the results interpreted by the system for this ballot.
5. Adjudication AuditMark: clear and transparent log of how the ballot was adjudicated.

Please see full page demonstration ballot in Appendix 1



**Our system is the only one that stores a complete image of every ballot cast, along with the audit trail for that ballot visually affixed to the image.** The audit trail shows how the tabulator interpreted that ballot when it was cast. By viewing this image, an election official can easily verify that the tabulator has correctly interpreted the voter marks on the ballot.

Furthermore, by randomly opening a small number of image files and verifying that the audit trail displays the correct results, the election official can quickly develop a high level of confidence that all of the ballots have been interpreted correctly.

In practice, the AuditMark feature can be used as:

- a method to test machine integrity before an election
- a method of obtaining confidence that the equipment is functioning properly
- a method to completely audit the entire election
- a method to enhance re-counts

## Democracy Suite® Election Management System (EMS)

Dominion's Democracy Suite is a robust and secure Election Management System (EMS) that is used to design and set up an election, as well as tally and report the results of the election for any of Dominion's voting platforms. The system can be deployed in three different configurations according to jurisdiction size; Express or Standard. It includes all hardware, software and system prerequisites.

The Democracy Suite EMS consists of two major components:

- Election Event Designer Module (EED) - main application used for the definition and management of the election event
- Result, Tally and Reporting Module (RTR) client application – main application used for the acquisition, tally, reporting and publishing of election results

### Election Event Designer

The Election Event Designer module manages all of the information needed to define an election. Definition of an election is a complex task, and the event definition module allows the easy entry and tracking of numerous candidate names, ballot faces, polling locations, polling subdivisions, and different types of voting technologies and voting channels, all of which are inter-connected. In addition, the Election Event Designer allows jurisdictions to choose from a variety of language options for an election project.

Jurisdictions can program contests, candidates, propositions, offices, and other election data in order to generate both paper and electronic ballots. Election details are easily entered into the user interface of the Election Event Designer, making the definition process simple and efficient.

Dominion's Democracy Suite creates tabulator-ready PDF ballot artwork files. Ballot artwork files are created as complete ballot images, without trim lines or crop marks, and are designed to directly print on digital 4-colour sheet-fed xerographic or other electrophotographic printers (most B-sized laser printers). Ballot artwork is generated in industry-standard PDF format, PDF/X-1a:2001 (PDF Version 1.3) and CMYK color space. Ballot artwork files are full-sized press-ready ballots containing all required ballot elements and the unique ballot ID barcode that distinguishes each ballot style. Each file contains one or two ballot images: a front image (if the ballot is single-sided) or paired front and back ballot images. All fonts used in the ballot artwork are embedded in the PDF file. Ballot artwork files are digitally-signed (X.509) and tied to the

election project files produced by Election Event Designer, to allow for authentication and revision control.

All relevant details, such as Geographic Divisions, Voting Locations, Offices, Candidates, etc., are stored in the Election Event Designer, and ballot faces are automatically generated in PDF format for your confirmation before printing.

Additionally, Election Event Designer keeps a record of the polling locations in which the system is deployed. This includes address, telephone, contacts, optional accessibility information.

Election Event Designer will program tabulator memory cards for each tabulator in your election, so your tabulators arrive ready for your pre-election testing. Each tabulator is automatically configured to know which ballot faces to accept, whether the accessible voting functionality is operational, and how the unit should interact with voters.

## Results Tally and Reporting

The results tally and reporting module is installed on a client PC at the customer's location, to be used on election night upon close of polls.

The program allows for the upload of results from each tabulator to the PC computer running the results tally and reporting module, located at your election headquarters. This upload is usually achieved by the physical delivery of each tabulator's memory cards from the voting location to election headquarters as soon as polls close.

Under this process, once the memory cards arrive at election headquarters after close of polls, the card is inserted in a standard memory card reader attached to the workstation hosting the Results Tally and Reporting client application. The program automatically uploads the result files into the results tally module, and consolidated results are verified, tabulated, and published.

Once the vote data is uploaded into the result tally module, the flow of results to the public and media can be controlled. Many election officials like to review the results before releasing them, and the system provides a number of ways and reporting methods, including but not limited to a precinct-level electronics result report, number of provisional ballots cast, ballots cast during early voting, on election day, and by mail. Alternatively, the results can automatically be released for public view, bypassing the review stage entirely.

## Audio Files

There are several options for creating and maintaining audio files for use with the Dominion system. These options include:

- Using the built-in synthesized speech protocols.
- The Audio Studio client application may also be used to record audio files for a given election project. Its operation is based on the audio definition library file, which is exported from the EMS Election Event Designer in XML format. Audio Studio allows human voice audio files to be recorded in any language, attached to an election project, and includes playback functionality for revision purposes. Recorded files are then exported from the application in .spx or .wav format, and imported into Election Event Designer for implementation into the election project.
- Audio files created from an external source can be imported into the EMS system.

## Internet-based Graphical Results Report

The Internet-based graphical display of results provides an attractive and dynamic focus on election night. The report display runs in real-time on the Internet, updating as results are released from the results tally module by officials. It can be projected on public display screens, such as County Offices, fed to local television stations, and displayed on the county or state's website. Dominion has different report layouts available, and can configure the display with customer logos and colors. The report display can be interactive, allowing website users to click on contests and geographic areas of interest to them.

The Internet-based graphical display is completely automated and runs behind the scenes. Once election officials have released a set of results, XML files are created and transferred to a local FTP directory (either via a LAN (if permissible) or external memory device), and the graphical display is automatically updated. This XML file is in an internationally defined election format called EML (Election Markup Language). As such, the election results are transferred in a format that can be easily read by news media, if they wish to import the XML files into their own display program (or they can simply use your Dominion graphical report for broadcast).

In addition, the following modules are also available:

- Election Programming Station (EPS) client application – combination of software and COTS hardware for programming memory cards in batches
- Logic and Accuracy Test Studio (LATS) client application – utility application for the creation of test decks and managing the overall Logic & Accuracy test activity
- Mobile Ballot Printing client application – utility application for the on-demand ballot printing – official ballots, L&A test deck ballots, sample ballots.
- Network Attached Storage Server – repository of election project file based artifacts
- Election Database Server – RDBMS based repository for election projects and associated data.
- Real time results streaming – embedded Democracy Suite Enhanced Reports using the XML results files, whereby published results can be automatically uploaded to real-time public graphical displays, media organizations, etc.

Depending on the deployment scenario, the EMS system requirements can vary. As a result, EMS can be deployed in either of the following configurations:

1. Democracy Suite Express – this configuration deploys all application components on a single PC or laptop and is designed for jurisdictions with up to 250 precincts
2. Democracy Suite Standard – this configuration utilizes local network deployment of the application components, and can use one or more client PC or laptop computers for end-user applications and a single server hosting back-end applications. This configuration is designed for jurisdictions with more than 250 precincts.

## ImageCast® Series of Tabulators

The ImageCast Precinct-Level tabulators include the following components:

- ImageCast Precinct (ICP)
- ImageCast Evolution (ICE)

The following pages will describe the features and functionality of each ImageCast voting device, such as:

- AuditMark®: Patented unique visual audit trail features that allow results to be audited down to each individual ballot
- Integrated accessible voting solution
- Poll tabulators that feature fully digital read-head outputs, ensuring the highest level of repeatability, and no need to perform external analog-to-digital conversions or calibrations
- Configurable ballot that can accommodate multiple ballot designs, including different marking areas (oval, box, etc.) as well as a Rank Choice Voting option

By selecting Dominion and our solutions, the voters of Colorado will continue to vote on a paper ballot and offer the voters a uniform, accessible, secure and highly transparent voting system. Below are detailed descriptions of both of the ImageCast series of tabulators.

### Electronic Safeguards and Security

To access any of the administration functions of the ImageCast series of tabulators, an electronic iButton security key has to make contact with the iButton security key receptacle on the cover of the unit.

Access to the unit can be granted to two different levels of people:

- The Poll worker iButton security key is used by the Poll worker to access all poll worker functions.
- The Technician iButton security key is used by a Technician with authorized access to update and verify firmware.

In the power on sequence, the unit will not function until the poll official accesses the administrator access screen. The ImageCast tabulator units are unlocked by an iButton security key, which is used to:

- authenticate the software version (ensuring it is a certified version that has not been tampered with)
- decrypt election files while processing ballots during the election
- encrypt results files during the election
- provide access control to the unit

It is anticipated that the iButton security keys may get lost; therefore, any substitute key created for the same tabulator will allow the unit to work fully.

A valid iButton security key will grant access to the admin screen from which the following operational functions can be accessed:

- Diagnostics Test

- Provisional Voting/Ballot Test
- Opening Poll
- Accessible Voting
- Closing Poll
- Reports
- Election Statistics
- Re-Open Poll
- Re-Zero Poll
- Power Down
- Ballot Review

## Results Storage Media

The ImageCast tabulator units have sockets for two removable, non-volatile Compact Flash cards (Primary and Administration), both of which are accessible from the unit. The content of each card is encrypted and signed.

The system saves election and voting data simultaneously to both locations keeping the content of both memory cards in sync. The administrative memory card holds a copy of the election results and audit log from the primary card. The memory cards will retain data for over twenty-two months, as per EAC VVSG 2005 Volume I requirements.

## Internal Battery

In the event of a power failure, ImageCast tabulator units have an internal Lithium Ion rechargeable battery with a 2 hour life.

In the case of a power failure, including full power drain, restarting places the unit in “Interrupt” mode, in which the previously stored election data is reloaded when the unit resumes operation. If there is catastrophic electrical or mechanical damage, the memory cards are inserted into a spare unit. When powered on, the unit resumes operation using the previously stored election data.

## Media Storage Security

The entire set of data files supporting the election are contained on the Primary Compact Flash device. The files stored on these cards allow for recovery from external conditions that cause equipment to become inoperable. The election results, device logs and scanned ballot images are recoverable from the secondary memory card. Further, the AuditMark® functionality can be used to independently verify the total votes for any particular candidate or ballot issue.

## Tabulator Audit Trail

The tabulator Audit trail file is stored on the Compact Flash memory card, and contains a chronological list of all messages generated by tabulator software. All audit record entries include a time-and-date stamp. This file is encrypted and digitally signed to protect its integrity.

During the final results tally audit activity, the automated audit log of each optical scanner is input into the EMS Results Tally and Reporting system for a consolidated record.

This tabulator Audit trail file will include:

- System startup messages (recorded by Application Loader).
- System self-diagnostic messages (module initializations, security verifications).
- All administrator operations (messages include “security key” id names).

- All ballots cast, rejected and diverted.
- All voter notifications (undervotes, overvotes).
- All system errors (paper jams, power failures, hardware failures, data errors, etc.).
- Source and disposition of system interrupts resulting in entry into exception handling routines.
- All messages generated by exception handlers.
- Notification of system login or access errors, file access errors, and physical violations of security as they occur, and a summary record of these events after processing.
- Non-critical status messages that are generated by the machine's data quality monitor or by software and hardware condition monitors.

All audit logs are digitally signed. If there is tampering of the audit data or logs, this is detected by the operating unit. The unit reports 'Election file mismatch' and will not operate since modifying the audit files can only indicate malicious usage.

Every action, event, and operation that occurs on an ImageCast scanner is permanently logged to an audit log file that exists on both memory cards. Every event and operation that occurs on the election management system is kept on the election project audit within the EMS Database. This file is signed and encrypted.

Audit logs are available to operators at all times. On the optical scanners, these can be accessed from the Administration menu, and printed. In EMS, a directory of audit files is accessed in the graphical user interface, and can be printed. Operators with Administration privileges can access these files at any time.

Audit log records cannot be deleted nor modified. Users with proper authorization levels can generate and view the audit report. Audit reports cannot be deleted.

## ImageCast® Evolution

The ImageCast Evolution unit (ICE) is a precinct-level, digital scan, ballot marker and tabulator that is designed to perform three major functions:

- Ballot scanning and tabulation
- Ballot review and second chance voting
- Accessible voting and ballot marking



ImageCast Evolution is Dominion's most advanced and **simple to use** tabulator with full LCD interface that presents a unique, all in one digital ballot scanning and internal ballot marking solution. ImageCast Evolution was designed to exceed the EAC VVSG 2005.

The current ImageCast Evolution functionality includes scanning and ballot marking for all targets on ballots ranging from sizes of 8 ½ inches by 11 to 22 inches in length. The ImageCast Evolution provides several different options for certain ballot parameters. For example, a jurisdiction can configure the ImageCast Evolution to automatically accept, reject or divert a ballot under certain conditions. Additionally, it can be configured to alert the voter or operator of any errors that require further action to be taken.

Voters make their selections by filling in the voting targets next to their choices. The voter then inserts the ballot directly into the ImageCast Evolution, which performs the following functions:

- scans the ballot
- Alerts the voter of any errors on the ballot with or without full ballot review on.
- Interprets the digital image of the ballot, and appends to the bottom of the image a record of how that ballot was interpreted by the machine (the AuditMark® image).
- Redundantly stores and tallies the results
- prints cumulative totals of all votes cast after the polls have been closed

The ICE is also equipped with an ultra-sonic multi-feed detector that prevents the device from accepting more than one ballot a time. Dominion has developed secure ballot paper that if used, is detected by the unit. If the paper is a copy or not a valid ballot the unit will reject the ballot.

## Accessibility

The ImageCast Evolution is equipped with an integrated voting feature for voters needing additional assistance.

**It is the only optical scan tabulator using a single ballot path which does not require the voter to have to go to an additional unit to cast the vote.**

The ICE unit features a 19" display that allows voters to review and cast their marked paper ballot through a customizable visual interface. In addition, the ImageCast Evolution features **several accessible voting interfaces** that allow voters with various disabilities to effectively vote, review and cast a paper ballot in a private and independent manner. The ImageCast Evolution offers the following user interfaces:

- The touch screen interface for visual ballot review and ballot casting.
- The accessible ballot marking interface (both audio and visual)
- Assistive input devices for accessible ballot navigation and voting, including an ATI (Audio-Tactile Interface), sip & puff, and paddles.

The accessible voting session uses a hand-held controller called an ATI (Audio Tactile Interface) that connects to the ImageCast Evolution via the port located on the right side of the unit. A set of headphones connects directly to the ATI controller. Following the audio voting process using the ATI controller, the integrated inkjet printer produces a marked paper ballot which serves as the official ballot record.

Dominion uses a library of human hand marks and writing to mark a ballot via the accessible voting session. We provide this to avoid the ability for the public to tell a human marked ballot from a machine marked ballot.

The ATI is a handheld device that is used by a voter during an Accessible Voting Session to navigate through and make selections to their ballot. The ATI:



- Has raised keys that are identifiable tactilely without activation (i.e. raised buttons of different shapes and colors, large or Braille numbers and letters)
- Can be operated with one hand
- Includes a 3.5 mm headphone jack
- Includes a T-Coil coupling
- Has a T4 rating for interference
- Uses light pressure switches
- Can be equipped with a pneumatic switch, also known as a Sip and Puff device, or a set of paddles.

The ATI is tethered to the ImageCast Evolution and can extend up to fifteen feet from the unit. No key or control has a repetitive effect as the result of being held in its active position.

The general procedure for voting using an audio and visual interface is as follows:

1. An audio ballot is initiated for the voter through the Administration menu.
2. The voter, or the appropriate election official, places a blank ballot into the unit.
3. The voter uses an ATI to mark their votes.
4. The voter can verify the correctness of choices using audio playback or/and visual review.
5. If the record is correct, the voter confirms its validity and the unit marks the paper ballot, which is then scanned and converted into an electronic format.
6. The voter is allowed to verify the electronic record of the paper record using audio playback and/or visual review.
7. If the electronic record is correct, the voter confirms the validity of it before the ballot is placed into the secure receptacle. If the ballot is incorrect, the ballot is marked as void and handled in the same manner as any other voided paper ballot. The voter may start a new accessible voting session.

Once the voter has completed their accessible voting session, the system records the vote selections made by the voter. The display can be adjusted using the zoom and contrast buttons. The contrast button allows the voter to display the screen image in high contrast (high contrast is a figure-to-ground ambient contrast ratio for text and informational graphics of at least 6:1). There are three different zoom levels in order to provide an enlarged ballot for voters with visual impairments. Every voter configurable option is automatically reset to its default value with the initiation of each new voting session.

## Standard features

- 200 dpi scanner
- Internal diverter
- 19-inch touchscreen display for an intuitive user experience.
- Ballot scanning and tabulation, ballot review and second chance voting, accessible voting and ballot marking functionality in one device allowing no-touch accessible voting
- Integrated printer for ballot marking
- Integrated hardware and software ballot security features
- Touch screen interface
- AuditMark® vote cast record of one.
- Easy on/off functionality - just raise or lower the screen
- Dual redundant compact flash memory cards
- Tabulator status signal pole, optional
- Three-inch thermal printer
- Multi-lingual audio-visual support for each voter
- Adjustable screen angles
- Integrated privacy shield and screen cover
- Security access doors and interface port security status indicators
- Functional and manufacturing diagnostics for integrated printer and LCD display.
- Integrated protective case.

## ImageCast® Precinct

The ImageCast Precinct tabulator is one of the main components of our automated paper ballot tabulation system. The ImageCast Precinct is designed to scan marked paper ballots, interpret voter marks on the paper ballot and safely store and tabulate each vote from each paper ballot. The ImageCast Precinct reads single and double sided ballots in 4 orientations, and accepts colored stock, striping and colored headers to distinguish ballots.

The ImageCast Precinct is the most widely used optical scanner technology ever developed, with major deployments including 82,000 units in the Philippines, 11,000 units in New York, and 2,500 units in Mongolia.

At the polling place, the voter makes their selections by filling in the voting targets next to their choices. The voter then inserts the ballot directly into the ICP, which performs the following functions:

- Scans the ballot
- Interprets the digital image of the ballot, and appends to the bottom of the image a record of how that ballot was counted on Election Day (known as the AuditMark® image).
- Redundantly stores and tallies the results
- Prints cumulative totals of all votes cast after the polls have been closed

### Standard features

- Internal diverter
- UV security sensors to detect for fraudulent ballots
- Dual removable memory cards
- Patented AuditMark® image technology
- Ultra-sonic multi-feed detector that prevents the device from accepting more than one ballot a time



## ImageCast® Product Features

### Ballot Boxes

Dominion offers two options for jurisdictions. A state of the art plastic ballot box with four swivel caster wheels and a simple and inexpensive Coroplast® collapsible ballot box

Dominion has designed an innovative, complementary ballot box of our precinct components. The Ballot Boxes are built of sturdy plastic to transport the units to and from the polling location in a secure container that can support Election Day supplies. The ballot box along with the tabulators were designed for easy set up by the poll worker, a feature that has always been

missed with legacy systems. When the poll worker arrives to set up, they will unlock the lid, plug the ballot box into the wall plug, lift the screen and the system is on and ready to print the zero tape. All other components will already be attached and therefore keeping the polling location issues to a minimum.



Plastic Ballot Box



Coroplast® collapsible ballot box

## ImageCast® Central Count

Dominion's ImageCast Central Count (ICC), like the ImageCast Evolution and ImageCast Precinct, stores the ballot image with the secured AuditMark. **The system's flexibility allows the jurisdiction to customize electronic outstacking conditions. From overvotes, undervotes, marginal marks, major contest to certified write in contest, the Image Cast Central has the tools Election officials are looking for.**



Canon DR-7550C or G1130



Canon DR-X10C

With the ImageCast Central Count solution, Dominion focused its efforts on how to create efficiency utilizing lower cost, off-the-shelf scanners which meet the VVSG 2005 standards and software that streamlines the process. It is **simple** - the operator loads the batch into the scanner; presses scan. When complete, the operator presses the accept button and moves on to the next batch. The ImageCast Central Count application interrupts the ballot via the scanned image and in seconds determines whether or not the ballot is valid or needs to be **electronically outstacked** for adjudication. The operator does nothing but process the ballots. The system's intelligence does the rest.

Along with the requisite COTS hardware, the ImageCast Central provides enough flexibility to meet the needs of small, medium and large jurisdictions. The ImageCast Central application allows jurisdictions to consolidate results in an efficient environment, in real time.

This use of less expensive and compact third-party devices enables the ImageCast Central Count solution to offer higher sustained throughputs in the face of hardware failures, flexible site layouts when space is at a premium, and access to a vast pool of readily available replacement parts and certified technicians. All of these factors translate to improved maintainability, and lower cost of ownership.

Central scanning is typically utilized to process absentee or mail-in ballots, but the ImageCast Central Count allows a jurisdiction to process their entire election if needed. The election definition is taken from EMS, using the same data and database that is utilized to program any precinct scanners for a given election.

Multiple ImageCast Central scanners can be programmed for use in an election. The ImageCast Central application is installed and later initialized on a computer attached to the central count scanner.

Ballots are processed through the central scanner(s) in batches based on jurisdictional preferences and requirements. The ImageCast Central stores ballot images by scanned batches. The scanned ballot images are migrated to the Election Management System (EMS) through computer networking or removable media. As with ballot images from any precinct scanners in use for an election, Results Tally and Reporting is the portion of EMS that processes the images to provide tabulation and operational reports to the jurisdiction. Batches can be appended, deleted, and processed in a number of ways to suit typical election workflows, intake of ballots before, during, and after Election Day, jurisdictional requirements surrounding absentee ballot tabulation, and canvassing needs. The ImageCast Central Count also features all of the technological advances present in the precinct-level tabulators – the AuditMark and the Dual Threshold technology.

The ImageCast Central is used for ballot image and election rules processing and results transferring to the EMS Datacenter. The ImageCast Central is available in two hardware configurations:

- ImageCast Central Workstation equipped with a PC and a Canon high-speed scanner, which provides electronic outstaging as described in the Adjudication section below.
  - Canon DR-X10C
  - Canon DR-7550C or G1130

It is not necessary to spend hundreds of thousands of dollars on large and expensive alternative scanners to create efficient ballot processing. Throughput tests on the Cannon-X10C ImageCast Central have shown a rate of **15” per second** for scanned ballots. To put that in to perspective, if a jurisdiction has 82,000 paper ballots to process, using the ImageCast Central count application and four Cannon -X10C, the job can be completed in 6 hours.

Absentee scanners are normally sold in a pair for redundancy and backup purposes. This doubles the efficiency. If using four units and one goes down, you are still operating at 75%. If using two large and expensive alternatives and one goes down, you are operating at 50% the difference is efficiency and dollars. If only one large alternative scanner goes down, you are now at 0%.

## Adjudication

The Adjudication Application is a stand-alone module that allows for the efficient processing of ballots that require resolution of voter intent on a ballot-by-ballot basis during the post-voting stage of an election. The Application has been developed to accept ballot files for the ImageCast Central application, and after analysis and correction sends them to the EMS Results Tally & Reporting application for tally and reporting.

The primary function of the Adjudication Application is to create an automated process that allows ballots with exceptions or “outstack” conditions – such as overvotes, undervotes, blank ballots, marginal marks, major contests and certified write-ins,– to be resolved on-screen and sent to tally. This eliminates the need for additional costs, time and resources spent on duplicating and re-scanning ballots.

The Adjudication application can be utilized real time as the Jurisdiction see fit. The Adjudication Application adds to the efficiency of Dominion's ImageCast Central Count system by making it scalable to as many reviewing teams as needed for the jurisdiction. The outstacked ballots will appear on the screen for the team to review as they come available. This creates efficiencies that have never been seen in elections. This application is completely auditable! The system logs each adjudication team's activities for review and to assure that activities are to specification. Additionally, when a ballot is adjudicated, the ballot image with the existing AuditMark receives an Adjudication AuditMark so the all can see how the voter marked intent, how the system interrupted the intent and how the ballot was adjudicated. (See appendix A for sample of AuditMark with and Adjudication AuditMark). These adjudicated ballots are then sent to Democracy Suite for tally and reporting.

## Security

### Overview

Dominion implements security protocols that meet or exceed EAC VVSG 2005 requirements. All of Dominion's security protocols are designed and implemented to stay current with the rapidly evolving EAC security requirements set forth by various iterations of the VVSG.

Dominion's security technology is unprecedented insofar as it takes into account every aspect and every component of the Democracy Suite® platform. This includes – but is not limited to – the full encryption of election projects, iButton security keys, Compact flash cards, election data, software applications, elections results files, and data transmission.

### Maintaining Data Integrity

Data generated by the Democracy Suite platform is protected by the deployment of FIPS-approved symmetric AES and asymmetric RSA encryption. The Democracy Suite Election Management System uses these techniques to encrypt election files prior to their use on ImageCast tabulators. Once the polls have been closed, the ImageCast tabulators encrypt all of the results files prior to transmitting them back to EMS.

SHA-256 hashes are used for all data integrity and verification. Should an intrusive process or altering of any file occur, hash values will be, in turn, altered as well. With that said, any presence of an intrusive process will be detected, as the hashes of any altered data will not match the value initially determined expected values.

### EMS Security

To protect from modification of software by malicious users, the Democracy Suite Election Management System integrates the Microsoft .NET Framework code signing process, within which, Dominion Voting digitally signs every executable and library (DLL) during the software build procedure. After the installation of Election Management software, only successfully verified EMS software components will be available for use. Digital signature verification is performed by the .NET Framework runtime binaries. If a malicious user tries to replace or modify any EMS executables or library files, the digital signature verification will fail and the user will not be able to start the EMS application.

## Role-based access controls

The Dominion Democracy Suite system integrates a role-based access control system for all software and hardware components. Users can belong to only one role, where each role has a set of clearly defined permissions within the system. This access control approach provides authentication and authorization services and can be granular according to jurisdiction's needs and organization. Complete user and role membership management is integrated within the Democracy Suite EMS Election Event Designer client application.

The Democracy Suite EMS platform implements role-based user management for provisioning access control mechanisms on each election project. Each user accessing the system is the member of one of the predefined or custom-made roles. Each role has its own set of permissions, or actions that users of that role are allowed to perform. Managing access control policies is integrated within the User Management activity of the EMS EED client application. This activity is permitted only for users with administrative privileges.

## Hardware Access Controls

Democracy Suite utilizes hardware-based security tokens (iButton security keys) in the process of access control for ImageCast Precinct and ImageCast Evolution tabulators. These password paired hardware tokens contain data encryption information used in process of voting process (encryption and signing keys). Without a valid security token, and paired access password, the administrative functions of election tabulators are effectively locked

## Communications

For communication channels (as well as data storage) a combination of security techniques for data integrity, authenticity and confidentiality is implemented. By utilizing FIPS-140 level 2 approved algorithms, these requirements are met. The Dominion Democracy Suite integrates AES or RSA encryption algorithms for data confidentiality, along with SHA-256 and HMAC digital signatures for data signing (data authenticity and integrity). The system does not require external Internet connections.

## Effective Password Management

Proper password management requires multiple activities and controls, namely:

- Input data validation
- Data quality
- Utilization of one-way (hash) cryptography
- Computer generated passwords for greater entropy and protection from dictionary attacks
- Different password strength profiles for different user levels
- Utilization of hardware tokens for storing user credentials (two-level authentication security: something you know and something you have)
- User state machine (initial, active, inactive)

All of these activities and controls are integrated within the Democracy Suite platform.

Dominion utilizes authentication and authorization protocols that meet EAC VVSG 2005 standards. In addition, Dominion's solution relies on industry-standard security features to ensure that the correct users based on a user role or group are granted the correct privileges. Finally, each jurisdiction is responsible for ensuring that only authorized personnel have access to both the system and tools used for installation and configuration purposes. All back end

system, and tabulator operations are continuously and completely logged at all times to maintain a complete record of all election-related processes.

		Mode 1- Symmetric Crypto		Mode 2 and 3 - Asymmetric Crypto
File Type	Storage Place	Confidentiality	Integrity	Digital Signature Option
Election files (ICP) and election database (ICE), DCF (ICP) and MBS (ICE), result files (ICP/ICE)	NAS and Compact Flash	AES-128/256	HMAC (SHA-256)	Yes (RSA and AES)
Reports and Logs	NAS and Compact Flash	AES-128/256	HMAC (SHA-256)	Yes (RSA and AES)
Ballot Images	NAS and Compact Flash	-	HMAC (SHA-256)	Yes (RSA)
Ballot Layout Definition (XML)	NAS and Compact Flash	-	HMAC (SHA-256)	yes (RSA)
Official Ballots	NAS	X.509 Digital Certificate		-
User Credentials	iButton	HMAC (SHA-256)	HMAC (SHA-256)	No

**File Type to Security Algorithmic Mappings**

## Secure Paper Ballot

Dominion developed a custom ballot authentication system built around a secure ballot paper stock and in-tabulator authenticators.

- Custom ballot stock that incorporate an invisible IR-reactive agent, built into the paper as it is manufactured.
- Matching non-contact paper sensor/authenticator for the ImageCast Precinct and ImageCast Evolution.
- Secure ballots that cannot be counterfeited or duplicated, and yet can be simply printed by our certified printers and by our customers.
- An ecologically-sound paper product that will put us in the vanguard of responsible paper users.

### Additional Features:

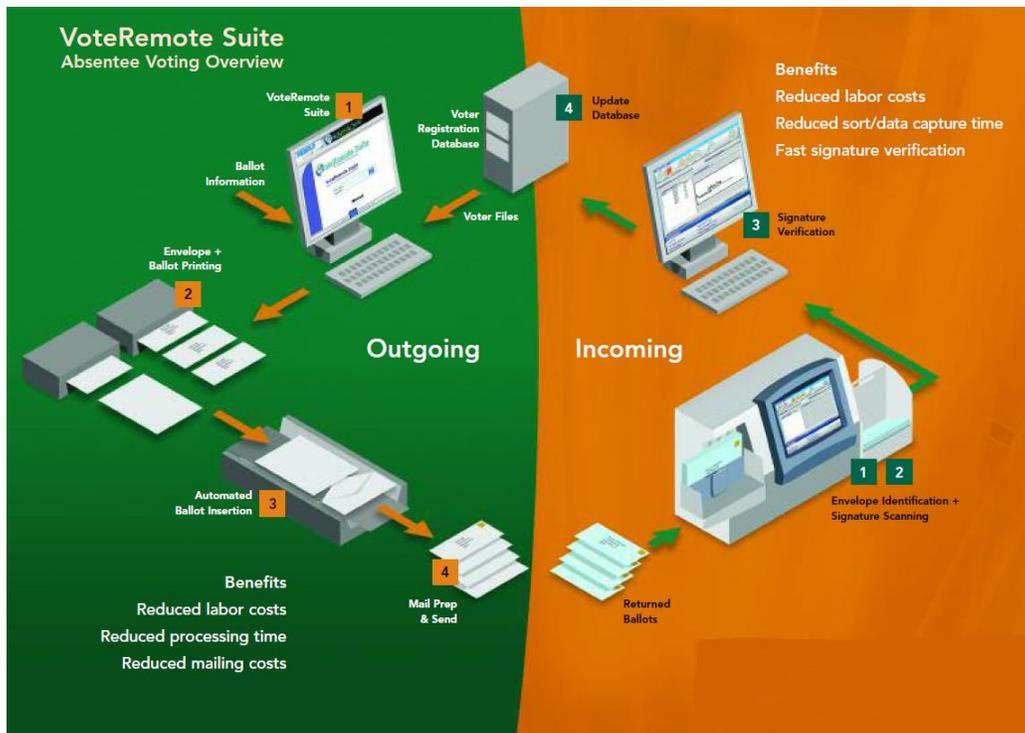
- Special coating to improve toner adhesion.
- Reduced porosity to limit pen bleed-through.
- Binders to limit curl induced by xerographic printers.
- Improving fold tear strength.
- Improving ballot stacking.
- Minimizing dirt and imageable defects.
- Minimizing hygroexpansivity.

## VoteRemote

Dominion can provide the State of Colorado with a tabletop, scalable solution to manage the incoming absentee process. This solution scans and stores both the barcode and the signature for every envelope. Each envelope is also imprinted with a date & time stamp along with other customizable fields including tray number, sequence number within the tray, and voter identification data.

Signature verification occurs both in an automated manor using adjustable threshold signature verification software and side by side verification software. Side by side verification can be used instead of the automated solution or as a second level of verification, focusing only on signatures still needing verification after automated verification has been completed for a given tray.

Additionally, the Dominion solution includes Colorado specific export software designed to retrieve voided envelopes that exist within the SCORE voter registration system and can remove those envelopes from the audit trail prior to sending incoming envelope data to SCORE if the county so choses.



## On-going development

Dominion's commitment to producing the highest quality election products is reflected in our heavy investment in development and engineering. Dominion employs over 75 engineers singularly dedicated to developing elections technology. We have a commitment to our customers and the market to continue to develop improvements, additional modules and products that the market is looking for. We have a number of relevant projects in the pipeline, and are able to develop a state specific project for the State of Colorado, yet keep the uniformity that exist in the current architecture. Dominion would welcome the opportunity to further discuss current and new projects with the State of Colorado.

## Implementation and Training

### Project management

The Dominion Project Management Methodology has been developed through a number of years of experience, implementing both large and small voting system implementations by individuals who know elections. Best practices and lessons learned from each project have refined our approach and been incorporated at each stage of this methodology to avoid any potential pitfalls associated with implementation. Our Project Management Methodology utilizes the core principles of the Project Management Institute's PMBOK and is highly scalable.

Bringing a wide spectrum of experiences of implementations acquired within Dominion, Sequoia as well as Premier/Diebold to bear, Dominion team members are leaders in the industry in project management services and support for voting system implementations. This cornerstone in project management has been the key to the success of voting system implementations ranging in scale from large statewide projects to small scale projects. It guides our delivery of turnkey solutions.

Services provided by the Dominion Project Management Team include:

- Planning and Scheduling
- Overall Change Control Process
- Project Scope Management
- Resource Planning
- Quality Control
- Risk Management
- Management of Resources
- Equipment Procurement and Deployment
- Customer Interface / Communications
- Management of Training

Our experienced project managers and knowledgeable support personnel understand the critical factors in voting system implementations. Our company works with the customer to implement the most effective team for the project. Given the high exposure of voting system implementation, as well as the increased scrutiny of voting systems themselves, a structured project management environment is crucial to a successful outcome.

### Support

Dominion recognizes that the resources and capabilities of individual customers vary. As a result, customers are offered a range of services to ensure a smooth transition to our products.

Dominion employs a Statewide Customer Relation Manager (CRM) for the State of Colorado. The CRM is responsible for providing services and support to each and every customer in the state. Through the CRM, Dominion is able to provide a single source for all ongoing service and support. From ordering consumables to training needs and add-ons, the CRM is tasked with organizing, scheduling, and delivering the highest level of service to achieve the highest level of customer satisfaction.

In counties with limited access to IT professionals, Dominion staff can be contracted to complete installation and testing of our equipment under the supervision of county staff. In these counties, Dominion trainers will work directly with designated county officials to pass on operations and maintenance skills required for the day to day use of the election system. In addition, Dominion can provide experienced staff to complete poll worker training. Dominion's call center is always available to provide support during business hours - these hours are extended as election events approach.

In jurisdictions where experienced IT professionals feel confident to complete the installation using Dominion's clear step-by-step instructions, direct contact with our Customer Relations and Technical Service Representatives is always highly encouraged and available to support your teams during regular working hours. During election periods, our teams are always on call to meet the needs of individual counties. In these counties, Dominion combines train the trainer courses with clear, comprehensive training materials to allow county officials to implement training in their jurisdictions.

In addition to these standard approaches Dominion will work with individual counties to help design and implement the level of support necessary to meet their needs. Dominion staff remain ready to respond in person on short notice to ensure election success.

## Implementation timelines

Dominion Voting always attempts to work with clients to implement a project according to a timeliness that meets their needs. Typically, a minimum of eight months is suggested from the date a contract is signed to full implementation of an election system in order to fully insure that all county processes and procedures are incorporated. In addition, this allows ample opportunity for the county to conduct any voter outreach prior to first election use to properly prepare voters for the change.

## Training Methods

### **In-person training**

Choosing the right voting system is only part of running a successful Election Day. If your staff can't properly use the equipment, then even the best voting system will fail. At Dominion Voting Systems our training platforms focus on providing poll workers and election administration staff with the necessary knowledge to implement a voting system that will process voters quickly, smoothly, and efficiently.

Our training courses cover both hardware and software, and we create custom programs to fit your specific needs. We partner with the best trainers and developers in the election business to ensure the right balance of technical and procedural training. We all want a smooth and successful day at the polls, and Dominion has the plan to get you there.

We base our training on the main principles of adult learning. Adults learn best when material is presented in a variety of ways. To this end, our trainers utilize auditory, visual, and hands-on training techniques. Our classes follow the "Explain, Demonstrate, Do" method. Students hear an explanation of their responsibilities, see it demonstrated, and then have a chance to practice it themselves.

Training classes that are not properly divided and paced often mean poor retention among the students. In our case, poor retention means an unsuccessful Election Day, which is unacceptable. Our source material is divided into small, manageable pieces that enable our instructors to cover material without exhausting a student's attention span. Each section of our training lasts no longer than ninety minutes, and then a student's knowledge is thoroughly checked through hands on exercises and progress checks.

We must engage each and every student. If we do not focus on them, then what value are we really offering? We make every effort to utilize the most recent and prevalent adult learning theories in the design, execution, and review of our training. Through our rigorous development and research we are able to offer a superior training product that educates the student and ensures their success, which in turn lays the foundation for a successful Election Day.

## **eTraining**

Our online training courses provide step-by-step explanations of the needed information. We use the best eLearning tools such as Captivate and Articulate to create interactive and engaging training. At the end of a course, a student is required to pass an assessment in order to receive a certificate of completion.

We can host the training on our own Learning Management System and provide logins for all of the required students. Or, if the county already has a system like this in place, we can make our courses compatible with your system.

## Our Election Partners

Dominion has many strategic election partnerships that put the process of purchasing accessories for the voting process under one roof and easier to acquire at competitive prices. We are open to working with other election vendors as the state requests. Here are a few of our partners

### Votec VoteSafe Electronic Poll book

The VoteSafe poll book computer is called the **Field System**. It is designed for the front end of the election personnel spectrum – the one where the voters interact with the poll workers. With extensive poll worker training experience under our belts, we demanded that the Field System be programmed for simplicity. VoteSafe poll worker software should present simple screens at all times. Text and controls should be easy to read. Choices should be very limited since voter data and status truly restrict the voter options when voters appear at the polls.

The VoteSafe central office system is called the **Management System**. This is where election data intake is performed. This is where Field Systems are registered for safety and security, so rogue systems cannot connect or interfere. This is where managers set up the communication protocols for the election by deciding on message groups and assigning them to office staff.

The Management System offers the necessary reports for proofing election setup, generating test data for the election, and reporting in real time and after the fact on the statistics and the details of the check-in process. Ultimately, voting history is exported post-election, to conclude the Election Day experience.

The Management System also archives all transactions for each election in its own database schema to facilitate access and meet Federal retention requirements.

As a complete operating system, VoteSafe manages real time messaging between the polls and the central office. Messages from poll workers are queued by time of arrival. No prioritization is offered as most messages will relate to an individual voter and should receive the same priority. Management can assign priority queues to incoming messages based on subject but the poll workers will not be aware of this function and thus won't have to make a stressful decision.

As a **complete operating system**, VoteSafe also provides for updating voter qualification information on a computerized basis. This is the number one or number two most complimented feature by large county Election Directors.

### VoteSafe Functional Specifications

VoteSafe provides the following functionality where compatible with the laws and regulations of the state of operation:

#### Voter Check-in

- Lookup by name, state ID#, Driver's License #
- Limit check-in to eligible status codes
- Print labels identifying voter precinct and ballot style
- Reprint spoiled label (where used)
- Same site, same day check-in removal to correct mistaken check-in
- Correction of check-in's on Management System at any time
- Track provisional voters
- Review list of checked-in voters on screen
- Copy check-ins to all Internet connected Field Systems for Early Voting and Super Precincts / Vote Centers

### **Precincting by address**

- Lookup addresses in a street index to determine precinct and poll place.
- Print poll place information for any poll place in the election

### **Live Help**

- Field System initiated instant message style communications with central office Management System
- Automatic reference of voter record currently on screen
- Tracking of messages by site and user
- Management initiated messages to individuals
- Management initiated messages to all Field Systems at a site
- Archiving of all messages

### **Election Setup**

- Import voter, polling place, ballot style, precinct, poll worker data state system
- Key enter data not available from Voter Registration system
- Verify consistency of data
- Produce unique VoteSafe single file for Field Systems installation

### **Reports**

- Check-in statistics by site, Field System, date, and party
- Voter check-in lists by site, Field System, date, and party
- Separate reports for provisional voters
- Reports can be exported as delimited files
- Logon record by site and user

### **Exports**

- Field Systems can export their check-in list and audit log if they were not running in connected mode. Management System can import these files
- Management System provides daily and final exports for state voter system
- Management System will export data to VEMACS where available

### **Archiving**

- Archiving is automatic through separate schema per election.

## **Election Source**

ElectionSource has been providing election services and products to municipalities for over 35 years. With over 2,000 customers across the world ElectionSource is a leader in the election industry; providing turnkey election products. Their experienced staff has over 100 years of combined experience in conducting elections, and they have a history of providing excellent support.

ElectionSource takes pride in working with customers in servicing their election needs. They offer thousands of products designed to make the election process efficient and cost effective. Product offering includes signs, voting booths, voting bags and containers, precinct storage carts, accessibility products, crowd control and consumables to support voter needs at polling locations. Furthermore, they also stock the supplies necessary to keep voting equipment running from election to election.

Dominion recommends the following voting booths from ElectionSource to meet the needs of the State of Colorado.

**Voting Booth Select Duo Voting Booth w/o light**

Made from recycled materials in the US, this booth comes in its own high impact, heavy duty, plastic case that when folded up measures a mere 23.5" wide x 27.5" deep x 3.5" thick, saving you up to 50% in storage space. The Select Duo Voting Booth comes with two corrugated plastic side panels. This booth weighs approximately 22 pounds and the writing surface sits at 39.75". Includes eight sturdy aluminum legs that easily snap together and is accompanied by a two year warranty.



Only 3 1/2 " Thick



## Conclusion

The State of Colorado is seeking a Uniform Voting System and Dominion is able to fulfill this objective with its industry-leading, EAC VVSG 2005 certified Democracy Suite solution. This solution of hardware and software is well-suited to meet the varying and diverse needs of Colorado counties. Dominion's solution is:

- **Extremely Uniform** – provides counties with flexible options on hardware, yet maintains the same level of transparency from county to county.
- **Highly integrated** – allows counties to define their entire election in Democracy Suite, and use a combination of hardware and/or software to meet voters' needs: precinct-level optical scanners, central count, and remote voting.
- **Scalable** – Dominion has implemented elections large and small across North America, and understands the needs of customers of all sizes. As such, each county in Colorado can expect the same level of technology, expertise, knowledge and quality of customer service, all the while knowing that their election partner fully grasps the intricacies of their election requirements.
- **Reliable** – Election officials must have full confidence that the system they use meets the highest, most exacting standards in security, transparency and accountability. Dominion delivers this. The system presented in this RFI is the only system on the market that can meet and exceed the EAC's requirements for end-to-end security features, including secure encryption of all election data, from creation to reporting.

Dominion thanks the State of Colorado for allowing us participate in the process. For questions or any other dialog regarding Dominion and this RFI, please contact your Regional Sales Manager, Mr. Steven Bennett at (909) 362-1715 or via e-mail at [steven.bennett@dominionvoting.com](mailto:steven.bennett@dominionvoting.com).