

Minutes
State Election Commission Meeting
October 14, 2013

The State Election Commission meeting was called to order by Acting - Chairman Kent Younce at 12:30 p.m., Central Standard Time October 14, 2013. The following members and staff were present: Commissioners Blackburn, DuBois, Head and Wheeler; Coordinator of Elections Mark Goins; Cara Harr, HAVA Attorney, Wayne Pruett, HAVA Coordinator and Kathy Summers, Elections Specialist.

Motion was made, seconded and unanimously approved to adopt the minutes from August 12, 2013.

Pursuant to T.C.A. § § 2-12-101 and 2-12-106, motion was made, seconded and unanimously approved to accept the nominations for county election commission appointments as submitted by commission members and to remain open until the close of business (4:30 p.m. Central Standard Time). **(See attached list for appointments made.)**

Old Business

- **None**

New Business

- **Dominion Voting** - Presentation of the Democracy Suite 4.14 was given by Mark Beckstrand, Cathy Smothers and Paul Terwilliger. The original certification of Dominion's Democracy Suite 4.0 was given approval on August 13, 2012. Handout information provided by Dominion Voting is attached to the minutes.

Coordinator Goins had requested Dominion to come before the State Election Commission to seek certification because the changes to Democracy Suite 4.14 were not de minimis. The State Election Commission policy requires viewing of the upgrade in another state or in lieu of viewing in another state, at the discretion of the State Election Commission, letters of recommendation from users in other jurisdictions may be used as support for approval. Coordinator Goins has also asked Dominion to provide updated financial information.

Motion was made, seconded and unanimously approved to view the Democracy Suite 4.14 on November 5, 2013, in Virginia and for Dominion to provide their financial information as requested.

Coordinator Update

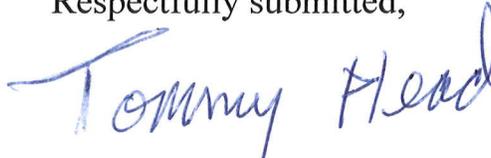
- Coordinator Goins reviewed a letter, drafted at the request of Chairman Jimmy Wallace, to RBM and Unisyn declining the review of their machines' in Jackson County, Missouri. Elections staff spoke with officials in Jackson County and confirmed the OVI VC would not be used on Election Day but would be used during the walk-in period for absentee voting. Subsequent letters from RBM and Unisyn indicated their machines would only be used for walk-in absentee voters and not on Election Day. (Letter to RBM and Unisyn is attached.)

Motion was made, seconded and unanimously approved to send the letter as drafted to RBM and Unisyn representatives.

The next meeting is January 13, 2014. The meeting will be held in the William R. Snodgrass – Tennessee Tower, Nashville Room - 3rd at 12:00 Noon Central Standard Time.

Motion was made to adjourn, and there being no further business to come before the commission at this time, the meeting was adjourned.

Respectfully submitted,



Tommy Head, Acting - Secretary
State Election Commission

Vacant Status

14-Oct-13

Bedford

D Tommy Head
R Tom DuBois

R

Grundy

D Tommy Head
R Tom DuBois

R

Haywood

D Greg Duckett
R Jimmy Wallace

D

Houston

D Greg Duckett
R Tom DuBois

R

Marshall

D Tommy Head
R Tom DuBois

D

Moore

D Tommy Head
R Tom DuBois

D

Total Vacancies: 6

Holdover Status

14-Oct-13

		Appointment	Reappointment	
Benton				
D	Greg Duckett			
R	Jimmy Wallace			
	D	Ronnie Pruiett	6/17/2008	4/11/2011
	D	Dinah S. (Diane) Latimer	10/8/2012	10/8/2012
Gibson				
D	Greg Duckett			
R	Jimmy Wallace			
	D	Kathleen Smith	6/22/2007	5/27/2009
	D	Robert S. Phelan	4/3/1995	5/27/2009
Obion				
D	Greg Duckett			
R	Jimmy Wallace			
	D	Dave Frankum	10/19/2004	8/8/2011
	D	John Algee	2/19/2003	8/8/2011
Weakley				
D	Greg Duckett			
R	Jimmy Wallace			
	D	Raymond Stevenson	12/5/2011	12/5/2011
	D	Beau Pemberton	5/28/2009	8/8/2011
Total Holdovers: 8				

New Appointment Status

14-Oct-13

		Appointment
Bedford	D Tommy Head / R Tom DuBois	
	R Bob Wayne York	10/14/2013
Grundy	D Tommy Head / R Tom DuBois	
	R Darander Kaye Hargis	10/14/2013
Total New Commissioners: 2		

Tre Hargett, Secretary of State
State of Tennessee



Division of Elections
312 Rosa L. Parks Avenue, 7th Floor
Nashville, Tennessee 37243-0305

Mark Goins
Coordinator

615-741-7956
Mark.Goins@tn.gov

December 23, 2013

Mr. Barry Herron
Director of Sales
Unisyn Voting Solutions, Inc.
2310 Cousteau Court
Vista, CA 92081

Dear Mr. Herron,

Thank you for the invitation to observe the use of the OVI VC voting system in Jackson County, Missouri. Because the Tennessee State Election Commission's policies for observing an election would not be met, we must respectfully decline your invitation.

Additionally, at the meeting during which the State Election Commission discussed the possibility of observing the Missouri election, commissioners indicated their interest in seeing the machines in use on Election Day, but your letter and subsequent conversations with Jackson County election officials have shown that these machines would instead be used only during the walk-in absentee voting period.

If another future election would meet the State Election Commission's criteria, please let us know so that we may discuss the possibility of arranging to view it in order for the certification process to proceed. Please let us know if we may answer any further questions regarding this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Jimmy Wallace".

Jimmy Wallace
Chairman, State Election Commission

A handwritten signature in black ink, appearing to read "Mark Goins".

Mark Goins
Coordinator of Elections

Tre Hargett, Secretary of State

State of Tennessee



Division of Elections
312 Rosa L. Parks Avenue, 7th Floor
Nashville, Tennessee 37243-0305

Mark Goins
Coordinator

615-741-7956
Mark.Goins@tn.gov

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Sincerely,

Jimmy Wallace
Chairman, State Election Commission

Mark Goins
Coordinator of Elections



U.S. ELECTION ASSISTANCE COMMISSION

Voting System Testing and Certification Program

1201 New York Avenue, NW, Suite 300

Washington, DC. 20005

July 18, 2013

Mr. Ed Smith, Certification Manager
Dominion Voting Systems
2841 Hartwick Circle
Longmont, CO 80503

Sent via mail and e-mail

Re: Agency Decision – Grant of Certification

Dear Mr. Smith,

As required under §5.9 of the EAC's Voting System Testing and Certification Program Manual, Dominion Voting Systems (DVS) and Wyle Laboratories have provided the necessary documentation for the Democracy Suite 4.14 voting system verifying that 1) the trusted build has been performed, 2) software has been deposited in an approved repository, 3) system identification tools are available to election officials, and 4) signed a letter stating, under penalty of law, that you have:

1. Performed a trusted build consistent with the requirements of §5.6 of the EAC's Certification Manual;
2. Deposited software consistent with §5.7 of the EAC's Certification Manual;
3. Created and made available system identification tools consistent with §5.8 of the EAC's Certification Manual (a copy and description of the system identification tool developed must be provided with the letter); and
4. Upon a final decision to grant certification, the manufacturer accepts the certification and all conditions placed on the certification.

Based on the review of the documentation above and the fact that DVS Democracy Suite 4.14 successfully completed conformance testing to the 2005 Voluntary Voting System Guidelines (2005 VVSG), the Voting System Testing & Certification Program Director has recommended EAC certification of this system.

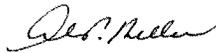
I have reviewed all of the documentation and concur with the Program Director's recommendation. As such, I hereby grant EAC Certification to DVS Democracy Suite 4.14 to the 2005 Voluntary Voting System Guidelines.

The EAC certification number issued for this system is: **DemSuite-4-14**. In addition, a Certificate of Conformance shall be provided to DVS as evidence of the EAC certification of the Democracy Suite 4.14. The Certificate of Conformance shall be provided to DVS no later than five business day from the date of this letter, and it shall be posted on the EAC's Web site.

As stated in §5.11 of the EAC's Certification Manual, the EAC certification and certificate apply only to the specific voting system configuration(s) identified, submitted, and evaluated under the Certification Program. Any modification to the system not authorized by the EAC shall void the certificate.

If you have any questions or need further information, please do not hesitate to contact Brian Hancock or Jessica Myers at your earliest convenience. I thank you in advance for your time and attention to this matter and congratulate on this achievement.

Sincerely,



Alice Miller
Chief Operating Officer and Acting Executive Director
Decision Authority

Cc: Brian Hancock, U.S. Election Assistance Commission
Frank Padilla, Wyle Laboratories



**DEDICATED TO SUPERIOR CUSTOMER
SUPPORT WITH EVERY ELECTION.
DOMINION IS MORE THAN JUST A
TRUSTED PROVIDER FOR ELECTIONS.**



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Our customers come first.

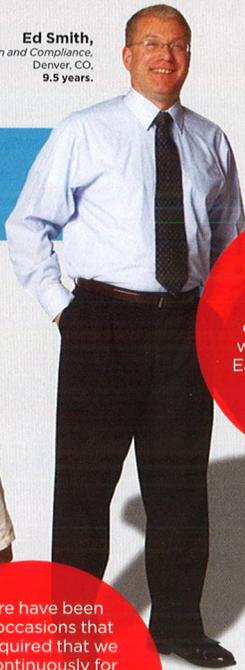
DOMINION IS COMMITTED TO FOSTERING AND MAINTAINING SUCCESSFUL PARTNERSHIPS WITH OUR CUSTOMERS.

With over
1270 years
total elections experience

Dedicated to over
1200 worldwide clients

Our employees won't rest until you're completely satisfied. *Our commitment to our customers – in our employees' words.*

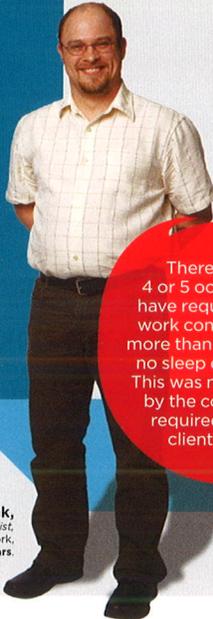
Ed Smith,
VP, Certification and Compliance,
Denver, CO,
9.5 years.



I've stayed up all night. I've driven hundreds of miles to train people, to fix equipment and get it where it needed to be. Each was necessary for the client to hold a successful election.



I went 47 straight hours without sleep during our first Chicago Election – just to make sure our customer was satisfied.



There have been 4 or 5 occasions that have required that we work continuously for more than 24 hours with no sleep or real break. This was not mandated by the company but required to ensure client success.



I can't really think of any one thing that would be "beyond the call of duty". I've worked holidays, weekends, provided 24/7 support to ensure our customers are satisfied.

Jason Frank,
Product Specialist,
Clymer, New York,
7 years.

Irene Shaw,
Product Specialist,
East Wenatchee, Washington,
24 years.

Eric Coomer,
Director of Product Development,
Denver, CO,
6 years.



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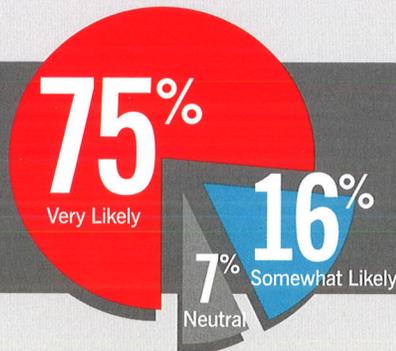
WE BELIEVE THAT THERE SHOULD BE NO LIMIT TO PROVIDING THE BEST SERVICE.

At Dominion, our customers come first. And they come back.

Here's what our customers say about our services.

- I like having a customer relations person that is knowledgeable, I can contact at any time, and is familiar with our county's specific needs.
- Dominion's techs and account managers go above and beyond.
- Dominion has a large and capable staff - which allows for better support.
- We have been very fortunate to have had great election support and fast responses to trouble shooting issues.
- We can count on one-on-one customer service when we need it.
- A knowledgeable staff that's interested in hearing customers concerns.
- Dominion has a "we can make this work" attitude even when there are issues or difficulties.

How likely would you recommend our services to another colleague?



What word would you use to describe Dominion?

Responsive
Reliable **Knowledgeable** Friendly
Excellent Leader
Great **Trustworthy** Accurate
Dedicated Responsible
Professional

DOMINION VOTING

Our customers come first.



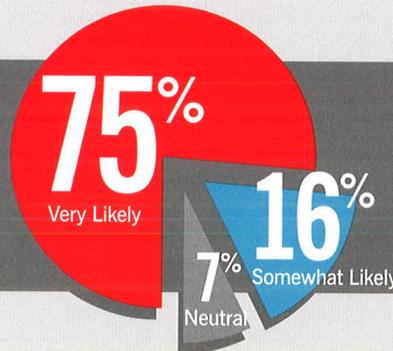
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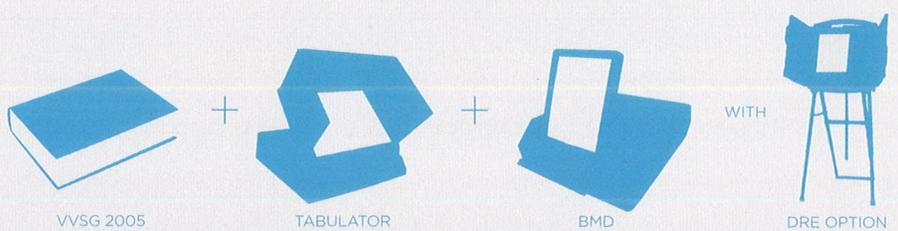


**YOU ASKED AND WE LISTENED:
THE WORLD'S FIRST AND BEST ALL-IN-ONE
PAPER BASED VOTING TERMINAL.**

The innovative ImageCast Evolution provides both accessible ballot scanning and accessible ballot marking solutions in one exceptional integrated device.



**STATE OF
THE ART
INNOVATION
AND
INTEGRATION**



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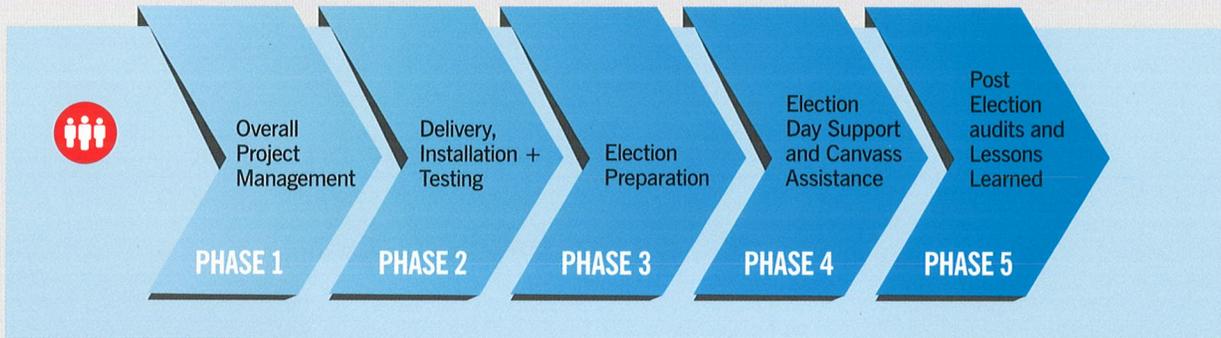
Our customers come first.

DEDICATED TO MAKING YOUR ELECTION A SUCCESS.

Our knowledgeable experts are as valuable as the technology we provide you.

- We will provide service that's timely, professional, experienced and helpful
- We will do whatever you need, whenever you need it - to ensure you are satisfied

Dominion's industry leading project management services – from Pre-planning to Post election auditing



ImageCast Evolution

*Designed to meet the needs of our customers and their voters.
Backed by our dedicated Dominion support team.*



SUPPORT

SPECIFICALLY DESIGNED TO PROVIDE THE IDEAL VOTING EXPERIENCE FOR ALL USERS (VOTERS AND VOTING PROFESSIONALS ALIKE)

Highly configurable and customizable interface and behaviour settings.

AuditCast™ ballot image auditing capability

Developed against VVSG 2007 NI (next iteration).

Multi-lingual audio-visual support for each voter.

Dual redundant compact flash memory cards

Optional tabulator status signal poll

Three-inch thermal printer.

Adjustable screen angles.

Accessible to all voters, with Audio Tactile Interface (ATI) and off-the-shelf headphones



SIMPLE

SIMPLE AND POWERFUL; IT JUST WORKS

A single voting terminal that provides all that voters need to cast their vote

An intuitive and precinct-level tabulation solution

2 machines in one, offers both optical ballot scanning and ballot marking solutions.

Provides Ballot review, second chance voting and accessible voting, all at one terminal



SECURE

STATE OF THE ART SECURITY FOR ADDED PEACE OF MIND

Integrated hardware and software ballot security features

Access port security indicators

Security access door intrusion switches and interface port security status indicators

Integrated privacy shield and screen cover



THE PLATFORM THAT INVENTED AND DEFINES THE ALL-IN-ONE OPTICAL SCAN VOTING SYSTEM.

The world's first optical scan unit with built-in accessibility, Dominion's ImageCast Precinct ADA enables more voters to have their voice heard.




**PROVEN,
PRACTICAL
AND
SIMPLE**

USED IN OVER
100
JURISDICTIONS

8 YEARS
of all-in-one
optical scan
accessible
voting
experience

DEPLOYED
IN OVER
25,000
PRECINCT
ELECTIONS

**MOST RELIABLE
AND ACCURATE
TABULATOR
IN THE WORLD**



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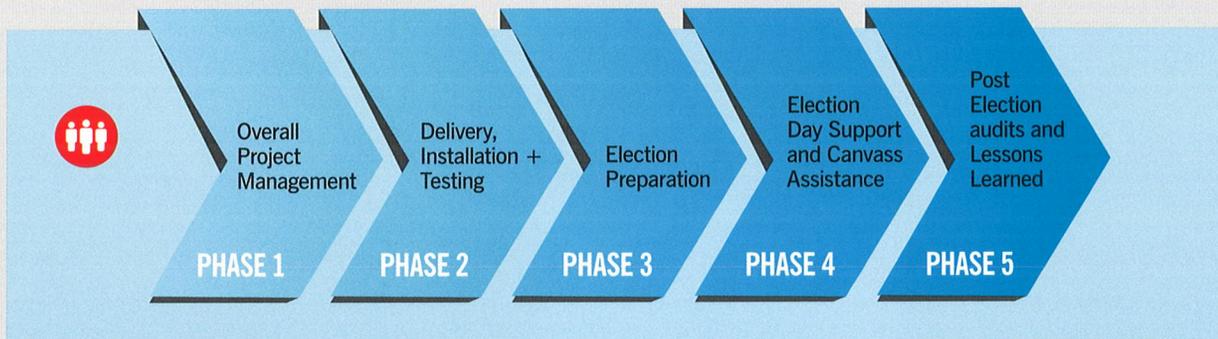


DEDICATED TO MAKING YOUR ELECTION **A SUCCESS.**

Our knowledgeable experts are as valuable as the technology we provide you.

- We will provide service that's timely, professional, experienced and helpful
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Dominion's industry leading project management services – from Pre-planning to Post election auditing



ImageCast Precinct ADA

*Designed to meet the needs of our customers and their voters.
Backed by our dedicated Dominion support team.*



SIMPLE

SIMPLE AND POWERFUL; IT JUST WORKS

Provides voters with varying abilities the opportunity to navigate, complete, and cast a private ballot using audio, and tactile interfaces.

Easy to program, easy to test

Simple to setup, with one off/on switch and one security key

Lightweight, durable and highly reliable

Completely verifiable voting capabilities

Reliability coupled with unprecedented configuration

Minimizes risk of human error

Size and simplicity makes it ideal for any environment

From tropical jungles to concrete jungles to arctic tundra - the ImageCast Precinct has proven reliable under any condition, time and time again

Independent accessible ballot review

LCD touchscreen interface communicates clearly



SECURE

UNRIVALLED SECURITY TO PROVIDE YOU WITH PEACE OF MIND

Integrated ballot security features

Tabulation and central databases encryption is future-proof and compliant with the VVSG next iteration

Provides extensive internal security monitoring to ensure data integrity and maintain public confidence



SUPPORT

SPECIFICALLY DESIGNED TO HELP YOUR ELECTION RUN SUCCESSFULLY

Software and Hardware provides everything from voter lists and tabulation technologies to election management tools and reporting systems.

Combined ballot scanning and accessible voting

AuditCast™ ballot image auditing capability retains a secure digital image of every ballot cast in your election

Eliminates ambiguous vote markings

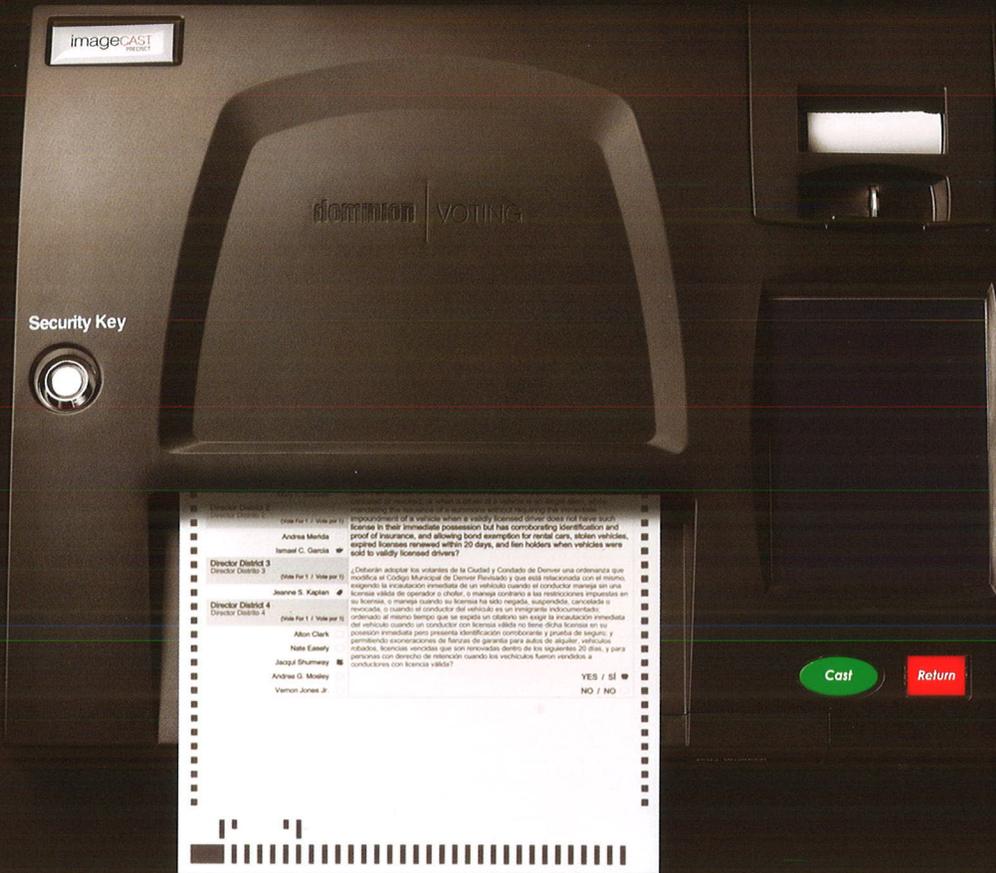
AuditCast™ ensures a 100% accurate count, every time

Superior Accessibility to all voters, with Audio Tactile Interface (ATI) and off-the-shelf headphones



IMAGECAST PRECINCT: THE GREATEST NUMBER OF DEPLOYED OPTICAL SCAN SYSTEMS IN THE WORLD.

Dominion's ImageCast Precinct is a leader in simplicity and security, while providing the support that you expect when you need it most.



**SO SIMPLE.
IT JUST
WORKS:**

OVER
100,000
MACHINES
IN USE

OVER
60,000,000
BALLOTS
ACCURATELY
READ

**SUCCESSFUL
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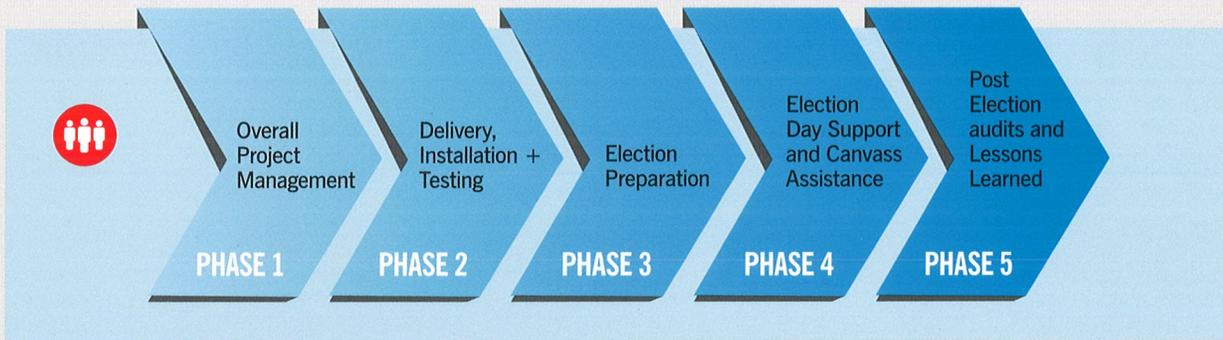
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ImageCast Precinct

Designed to meet the needs of our customers and the voters that use it.

The most tried and proven tabulation equipment in the industry, backed by our dedicated Dominion service team.



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Simple to setup, with one off/on switch and one security key

Lightweight, durable and highly reliable

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Eliminates ambiguous vote markings

AuditCast™ ensures a 100% accurate count, every time

Accessible to all voters, with Audio Tactile Interface (ATI) and off-the-shelf headphones

A COST-EFFICIENT HIGH SPEED TABULATION SOLUTION THAT'S RELIABLE, SCALABLE AND EASY TO MAINTAIN.

Dominion's ImageCast Central is a simple and powerful solution that meets the demands of elections of any size.




**PROVEN IN
ELECTIONS
BIG AND
SMALL**

COST-EFFICIENT

**ADDRESSES
ABSENTEE
COUNTING**

**READILY AVAILABLE
SERVICE PARTS AND
TECHNICIANS**



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Dominion's industry leading project management services – from Pre-planning to Post election auditing



ImageCast Central

A tried and proven tabulator that's designed around the feedback of our customers and backed by our dedicated Dominion team.



SIMPLE

SIMPLE AND POWERFUL; IT JUST WORKS

Modular, customizable and scalable to any size

Flexible with site layouts when space is at a premium

Highly reliable and portable

Seamless integration with Dominion's Democracy Suite



SECURE

STATE OF THE ART SECURITY FOR ADDED PEACE OF MIND

AuditMark technology makes a digital cast-vote record (CVR) of the voter's choices

Market leading security with Dominion's Election Management System (EMS)



SUPPORT

SPECIFICALLY DESIGNED TO PROVIDE THE IDEAL VOTING EXPERIENCE FOR ALL USERS (VOTERS AND VOTING PROFESSIONALS ALIKE)

Improves maintainability and lowers the cost of ownership

Uses compact third-party devices to offer higher sustained throughputs in the face of hardware failures and worldwide access to a vast pool of readily available replacement parts and certified technicians

AuditCast™ ballot image auditing capability





United States Election Assistance Commission



Certificate of Conformance

Dominion Voting Democracy Suite 4.14

The voting system identified on this certificate has been evaluated at an accredited voting system testing laboratory for conformance to the *2005 Voluntary Voting System Guidelines (2005 VVSG)*. Components evaluated for this certification are detailed in the attached Scope of Certification document. This certificate applies only to the specific version and release of the product in its evaluated configuration. The evaluation has been verified by the EAC in accordance with the provisions of the *EAC Voting System Testing and Certification Program Manual* and the conclusions of the testing laboratory in the test report are consistent with the evidence adduced. This certificate is not an endorsement of the product by any agency of the U.S. Government and no warranty of the product is either expressed or implied.

Product Name: Democracy Suite

Model or Version: 4.14

Name of VSTL: Wyle Laboratories

EAC Certification Number: DemSuite-4-14

Date Issued: July 18, 2013

Chief Operating Officer & Acting Executive Director
U.S. Election Assistance Commission

Scope of Certification Attached

Manufacturer: Dominion Voting
System Name: Democracy Suite 4.14
Certificate: DemSuite-4-14

Laboratory: Wyle Laboratories
Standard: VVSG 1.0 (2005)
Date: July 16, 2013



Scope of Certification

This document describes the scope of the validation and certification of the system defined above. Any use, configuration changes, revision changes, additions or subtractions from the described system are not included in this evaluation.

Significance of EAC Certification

An EAC certification is an official recognition that a voting system (in a specific configuration or configurations) has been tested to and has met an identified set of Federal voting system standards. An EAC certification is **not**:

- An endorsement of a Manufacturer, voting system, or any of the system's components.
- A Federal warranty of the voting system or any of its components.
- A determination that a voting system, when fielded, will be operated in a manner that meets all HAVA requirements.
- A substitute for State or local certification and testing.
- A determination that the system is ready for use in an election.
- A determination that any particular component of a certified system is itself certified for use outside the certified configuration.

Representation of EAC Certification

Manufacturers may not represent or imply that a voting system is certified unless it has received a Certificate of Conformance for that system. Statements regarding EAC certification in brochures, on Web sites, on displays, and in advertising/sales literature must be made solely in reference to specific systems. Any action by a Manufacturer to suggest EAC endorsement of its product or organization is strictly prohibited and may result in a Manufacturer's suspension or other action pursuant to Federal civil and criminal law.

System Overview:

The Dominion Democracy Suite 4.14 Voting System is a modification to the certified Democracy Suite 4.0 Voting System. The full Dominion Democracy Suite 4.0 Voting System description can be found in the EAC Certificate of Conformance, dated May 10, 2012. The Dominion Democracy Suite 4.14 Voting System includes modifications to all components listed below. The Dominion Voting Systems Democracy Suite Version 4.14 Voting System is a paper-ballot based, optical scan voting system. The Democracy Suite Version 4.14 Voting System hardware consists of four major components:

1. The Election Management System (EMS)
2. ImageCast Evolution (ICE) precinct scanner with optional ballot marking capabilities

3. ImageCast Precinct (ICP) precinct scanner
4. ImageCast Central (ICC) central count scanner

The Dominion Voting System Technical Data Package was the source for much of the summary information that follows in this section.

Election Management System

The Dominion Voting Systems Democracy Suite 4.14 EMS consists of eight components running as either a front-end/client application or as a back-end/server application. Below is a list and brief description of each.

- Democracy Suite 4.14 EMS Election Event Designer client application - integrates election definition functionality and represents a main pre-voting phase end-user application.
- Democracy Suite 4.14 EMS Results Tally and Reporting client application – integrates election results acquisition, validation, tabulation, reporting and publishing capabilities and represents a main post-voting phase end-user application.
- Democracy Suite 4.14 EMS Audio Studio client application - represents an end-user helper application used to record audio files for a given election project. As such, it is utilized during the pre-voting phase of the election cycle.
- Democracy Suite 4.14 EMS Data Center Manager client application - represents a system level configuration application used in EMS back-end data center configuration.
- Democracy Suite 4.14 EMS Application Server application - represents a server side application responsible for executing long running processes, such as rendering ballots, generating audio files and election files.
- Democracy Suite 4.14 EMS Network Attached Storage (NAS) Server application – represents a server side file repository for election project file based artifacts, such as ballots, audio files, reports, log files, and election files.
- Democracy Suite 4.14 EMS Database Server application - represents a server side RDBMS repository of the election project database which holds all the election project data, such as districts, precincts, candidates, contests, ballot layouts, tabulators, vote totals, and poll status.
- Democracy Suite 4.14 EMS Election Data Translator (EDT) – Exports and Imports data in a format suitable for rapid interaction with Election Event Designer (EED)

The EMS platform was tested in two deployable physical hardware configurations:

EMS Express hardware configuration - all EMS software components were installed on a single physical PC or laptop. This is a stand-alone configuration.

EMS Standard hardware configuration - the EMS server components were installed on a single physical server, in addition to the Local Area Network (LAN) switch devices, while the EMS client components were installed on one or more physical PCs or laptops.

All system components were interconnected in a client-server local LAN environment.

- ImageCast Evolution (ICE) precinct scanner with optional ballot marking capabilities. The Dominion Democracy Suite ImageCast Evolution system employs a precinct-level optical

scan ballot counter (tabulator) in conjunction with an external ballot box. This tabulator is designed to mark and/or scan paper ballots, interpret voting marks, communicate these interpretations back to the voter (either visually through the integrated LCD display or audibly via integrated headphones), and upon the voter's acceptance, deposit the ballots into the secure ballot box. The unit also features an Audio Tactile Interface (ATI) which permits voters who cannot negotiate a paper ballot to generate a synchronously human and machine-readable ballot from elector-input vote selections. The ATI can also accept input from sip and puff and other personal assistive technologies. In this sense, the ImageCast Evolution acts as a ballot marking device.

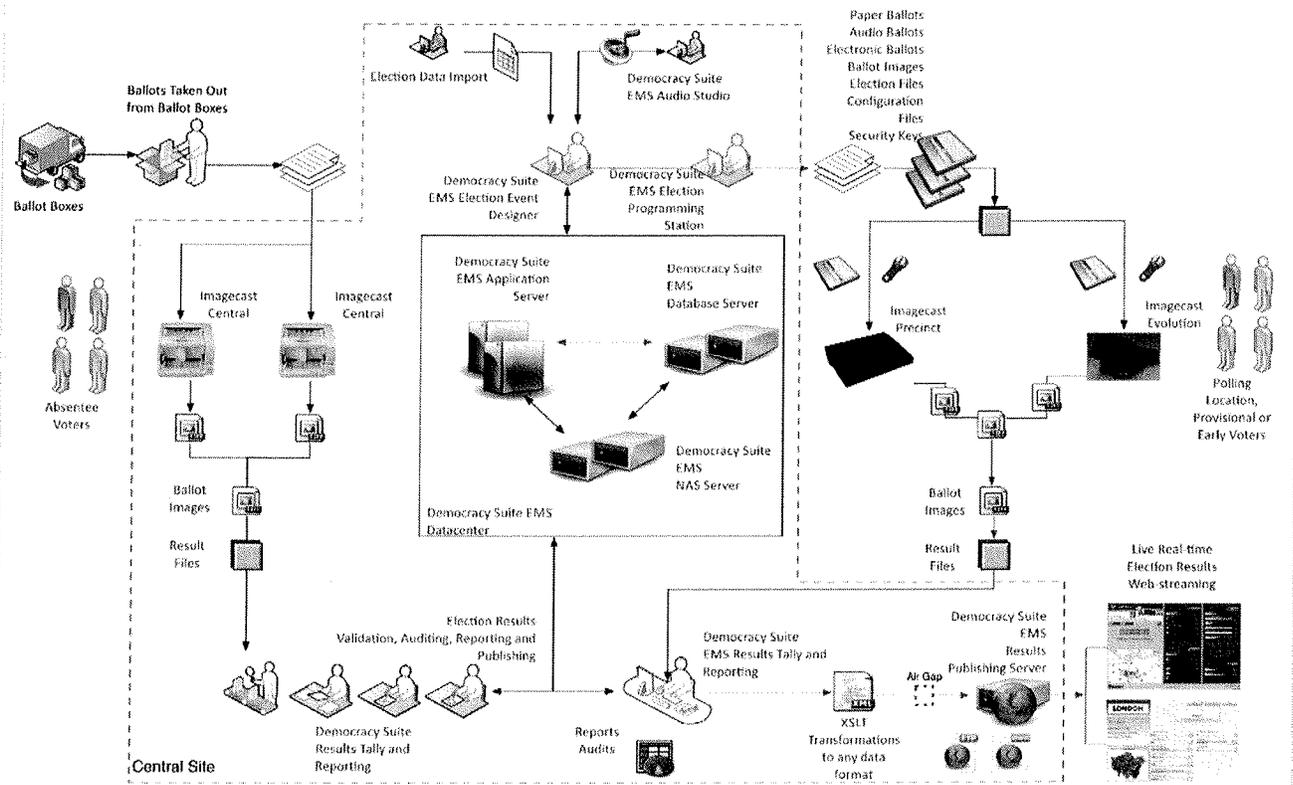
- ImageCast Precinct (ICP) precinct scanner. The ImageCast Precinct Ballot Counter is a precinct-based optical scan ballot tabulator that is used in conjunction with ImageCast compatible external ballot boxes. The system is designed to scan marked paper ballots, interpret voter marks on the paper ballot and safely store and tabulate each vote from each paper ballot. In addition, the ImageCast Precinct supports enhanced accessibility voting which may be accomplished via an Audio Tactile Interface (ATI) connected to the ImageCast unit. The ATI can also accept input from sip and puff and other personal assistive technologies.
- ImageCast Central (ICC) central count scanner. The Dominion Democracy Suite ICC Ballot Counter system is a high-speed, central ballot scan tabulator based on Commercial off the Shelf (COTS) hardware, coupled with the custom-made ballot processing application software. It is used for high speed scanning and counting of paper ballots. Central scanning system hardware consists of a combination of two COTS devices used together to provide the required ballot scanning processing functionality:
 - Canon DR-X10C Scanner: used to provide ballot scanning and image transfers to the local ImageCast Central Workstation.
 - ImageCast Central Workstation: a COTS computer used for ballot image and election rules processing and results transfer to the EMS Datacenter. The ImageCast Central Workstation is COTS hardware which executes software for both image processing and election rules application.

Mark definition: 50% or more of the target area marked consistently provides mark recognition. The manufacturer recommends black ink for marking ballot selections.

Tested Marking Devices: Sharpie brand markers, black ink

Language capability: This voting system supports: Alaska Native, Aleut, Athabaskan, Chinese, English, Eskimo, Filipino, French, Japanese, Korean, Spanish, and Vietnamese. Additionally, the following Native American languages are supported: Apache, Jicarilla, Keres, Navajo, Seminole, Towa, Ute, and Yuman.

Democracy Suite™ – System High-level Block Diagram



Components Included:

This section provides information describing the components and revision level of the primary components included in this Certification.

System Component	Software or Firmware Version	Hardware Version	Operating System or COTS	Comments
ImageCast Precinct	4.14.5	320A	uClinux	
ImageCast Precinct	4.14.5	320C	uClinux	
ImageCast Evolution	4.14.10	410A	Ubuntu linux	
ImageCast Central	4.14.4	Canon DR-X10C	COTS	Windows 7
Democracy Suite election management system	4.14.23	N/A (application software)	Windows Server 2008 R2	

System Component	Software or Firmware Version	Hardware Version	Operating System or COTS	Comments
Server Hardware		Dell PowerEdge R610 or T610	Windows Server 2008 R2	Processor: Intel Xeon E5-2620 2.4 GHz, Memory: 8x 4GB 1333MHz DDR3, Hard Drive Capacity: 2x 500GB
Server Hardware		Dell PowerEdge R620 or T620	Windows Server 2008 R2	Processor: Intel Xeon E5-2620 2.0 GHz, Memory: 2x 4GB 1333MHz DDR3, Hard Drive Capacity: 2x 500GB
Server Hardware		Dell PowerEdge R720 or T720	Windows Server 2008 R2	Processor: Intel Xeon E5-2620 2.0 GHz, Memory: 2x 4GB 1333MHz DDR3, Hard Drive Capacity: 2x 500GB
Client Hardware		Dell Precision T1500	Windows 7 Professional	Processor: Intel Core i7-860 2.8 GHz, Memory: 4x 1GB 1333MHz DDR3, Hard Drive Capacity: 500 GB
Client Hardware		DELL Inspiron 2305	Windows 7 Professional x64	Processor: AMD Athlon II X2 240e 2.8 GHz, Memory: 8GB Dual Channel 1333MHz DDR3, Hard Drive Capacity: 1 TB
Client Hardware		DELL Latitude e6530	Windows 7 Professional x64	Processor: Intel Core i5-3210M 2.5 GHz, Memory: 8GB 16000MHz DDR3, Hard Drive Capacity: 500GB
ICC Workstation Hardware		DELL Optiplex 9010 All in One	Windows 7 Professional x64	Processor: Intel Core i7-3770 3.9 GHz, Memory: 8GB 16000MHz DDR3, Hard Drive Capacity: 500GB
ICC Workstation Hardware		DELL Optiplex 9010 All in One	Windows 7 Professional x64	Processor: Intel Core i7-3220 3.39 GHz, Memory: 4x 1GB 1333MHz DDR3, Hard Drive Capacity: 500GB
NAS disk array		Rocstor Guardian 4RM	COTS	4TB or 8TB size
Additional data storage		Rocstor Commander 2UE	COTS	500GB or 1TB

System Component	Software or Firmware Version	Hardware Version	Operating System or COTS	Comments
		or Hawker HX		
iButton (SHA-1) with USB Reader/Writer		USB R/W: DS9490R# with DS1402-RP8+ iButton: DS1963S	COTS	MAXIM/Dallas Semiconductor
LCD monitor		DELL 1909W or DELL N445N or DELL 2007PF or DELL E1713S	COTS	
Audio Adapter		Soundwave 7.1 USB Audio Adapter	COTS	
PCI Software	Soundwave 7.1		COTS	
USB software	Soundwave 7.1 USB		COTS	For audio adapter
Network switch		5-Port Switch: D-Link DES-1105 or D-Link DGS-105 8-Port Switch: D-Link DGS-2208 or D-Link DGS-108	COTS	Also can use DGS-108 if 8-port needed
Mouse		Dell or Microsoft	COTS	With rollerball
Keyboard		Kensington, Microsoft, or IBM	COTS	USB enabled
Compact Flash Reader/Writer		SanDisk or GGI Gear	COTS	
Accessible Tactile Interface (ATI)		1.1.0		
Headphones		Sony, Cyber Acoustics, or Radio Shack	COTS	Sony MDR-G45LP; Cyber Acoustics ACM-70; Radio Shack 33-276-01
eSATA PCI card		SIIG, Inc	COTS	eSATA II PCIe Pro Card
Sip and Puff		Origin Instruments or Enabling Devices	COTS	Origin Instruments AirVoter or Enabling Devices #972
Disposable Sip and Puff Mouthpieces		Origin Instruments or Enabling Devices	COTS	Origin Instruments AC-310 or Enabling Devices #970K
Footswitch Pair		Enabling Devices	COTS	#971
Compact Flash cards		SanDisk	COTS	SanDisk SDCFAA or SDCFAB
Machine Tape rolls			COTS	Available from Dominion Voting
Tamper Evident Seals			COTS	Available from Dominion Voting
Ballot Privacy Sleeves		Various lengths to fit the ballot		Available from Dominion Voting
Machine cleaning kit		For ImageCast Precinct, Evolution, and Central		Available from Dominion Voting

System Limitations

This table depicts the limits the system has been tested and certified to meet.

Characteristic	Limiting Component	Limit	Comment
Ballot positions	The ballot	462	Standard Configuration
Precincts in an election	EMS	1000	Standard Configuration
Contests in an election	EMS	4000	Standard Configuration
Candidates/Counters in an election	EMS	40000	Standard Configuration
Candidates/Counters in a precinct	Tabulator	462	Standard Configuration
Candidates/Counters in a tabulator	Tabulator	10000	Standard Configuration
Ballot Styles in an election	Tabulator	4000	Standard Configuration
Contests in a ballot style	Tabulator	156	Standard Configuration
Candidates in a contest	EMS	462	Standard Configuration
Ballot styles in a precinct	Tabulator	5	Standard Configuration
Number of political parties	Tabulator	30	Standard Configuration
"vote for" in a contest	Tabulator	30	Standard Configuration
Supported languages in an election	Tabulator	5	Standard Configuration
Number of write-ins	The ballot	462	Standard Configuration
Ballot positions	The ballot	462	Express Configuration
Precincts in an election	EMS	250	Express Configuration
Contests in an election	EMS	250	Express Configuration
Candidates/Counters in an election	EMS	2500	Express Configuration
Candidates/Counters in a precinct	Tabulator	462	Express Configuration
Candidates/Counters in a tabulator	EMS	2500	Express Configuration
Ballot Styles in an election	EMS	750	Express Configuration
Contests in a ballot style	Tabulator	156	Express Configuration
Candidates in a contest	EMS	231	Express Configuration
Ballot styles in a precinct	Tabulator	5	Express Configuration
Number of political parties	Tabulator	30	Express Configuration
"vote for" in a contest	Tabulator	30	Express Configuration
Supported languages in an election	Tabulator	5	Express Configuration
Number of write-ins	The ballot	462	Express Configuration

Functionality

2005 VVSG Supported Functionality Declaration

Feature/Characteristic	Yes/No	Comment
Voter Verified Paper Audit Trails		
VVPAT	N/A	
Accessibility		
Forward Approach	YES	
Parallel (Side) Approach	YES	
Closed Primary		
Primary: Closed	YES	
Open Primary		
Primary: Open Standard (provide definition of how supported)	NO	

Feature/Characteristic	Yes/No	Comment
Primary: Open Blanket (provide definition of how supported)	NO	
Partisan & Non-Partisan:		
Partisan & Non-Partisan: Vote for 1 of N race	YES	
Partisan & Non-Partisan: Multi-member ("vote for N of M") board races	YES	
Partisan & Non-Partisan: "vote for 1" race with a single candidate and write-in voting	YES	
Partisan & Non-Partisan "vote for 1" race with no declared candidates and write-in voting	YES	
Write-In Voting:		
Write-in Voting: System default is a voting position identified for write-ins.	YES	
Write-in Voting: Without selecting a write in position.	NO	
Write-in: With No Declared Candidates	YES	
Write-in: Identification of write-ins for resolution at central count	YES	
Primary Presidential Delegation Nominations & Slates:		
Primary Presidential Delegation Nominations: Displayed delegate slates for each presidential party	YES	
Slate & Group Voting: one selection votes the slate.	YES	
Ballot Rotation:		
Rotation of Names within an Office; define all supported rotation methods for location on the ballot and vote tabulation/reporting	YES	Equal time rotation only in this version
Straight Party Voting:		
Straight Party: A single selection for partisan races in a general election	YES	
Straight Party: Vote for each candidate individually	YES	
Straight Party: Modify straight party selections with crossover votes	YES	
Straight Party: A race without a candidate for one party	YES	
Straight Party: "N of M race (where "N">1)	YES	
Straight Party: Excludes a partisan contest from the straight party selection	YES	
Cross-Party Endorsement:		
Cross party endorsements, multiple parties endorse one candidate.	YES	
Split Precincts:		
Split Precincts: Multiple ballot styles	YES	
Split Precincts: P & M system support splits with correct contests and ballot identification of each split	YES	
Split Precincts: DRE matches voter to all applicable races.	N/A	
Split Precincts: Reporting of voter counts (# of voters) to the precinct split level; Reporting of vote totals is to the precinct level	YES	
Vote N of M:		
Vote for N of M: Counts each selected candidate, if the maximum is not exceeded.	YES	
Vote for N of M: Invalidates all candidates in an overvote (paper)	YES	
Recall Issues, with options:		
Recall Issues with Options: Simple Yes/No with separate race/election. (Vote Yes or No Question)	YES	
Recall Issues with Options: Retain is the first option, Replacement candidate for the second or more options (Vote 1 of M)	NO	

Feature/Characteristic	Yes/No	Comment
Recall Issues with Options: Two contests with access to a second contest conditional upon a specific vote in contest one. (Must vote Yes to vote in 2 nd contest.)	NO	
Recall Issues with Options: Two contests with access to a second contest conditional upon any vote in contest one. (Must vote Yes to vote in 2 nd contest.)	NO	
Cumulative Voting		
Cumulative Voting: Voters are permitted to cast, as many votes as there are seats to be filled for one or more candidates. Voters are not limited to giving only one vote to a candidate. Instead, they can put multiple votes on one or more candidate.	NO	
Ranked Order Voting		
Ranked Order Voting: Voters can write in a ranked vote.	NO	
Ranked Order Voting: A ballot stops being counting when all ranked choices have been eliminated	NO	
Ranked Order Voting: A ballot with a skipped rank counts the vote for the next rank.	NO	
Ranked Order Voting: Voters rank candidates in a contest in order of choice. A candidate receiving a majority of the first choice votes wins. If no candidate receives a majority of first choice votes, the last place candidate is deleted, each ballot cast for the deleted candidate counts for the second choice candidate listed on the ballot. The process of eliminating the last place candidate and recounting the ballots continues until one candidate receives a majority of the vote	NO	
Ranked Order Voting: A ballot with two choices ranked the same, stops being counted at the point of two similarly ranked choices.	NO	
Ranked Order Voting: The total number of votes for two or more candidates with the least votes is less than the votes of the candidate with the next highest number of votes, the candidates with the least votes are eliminated simultaneously and their votes transferred to the next-ranked continuing candidate.	NO	
Provisional or Challenged Ballots		
Provisional/Challenged Ballots: A voted provisional ballots is identified but not included in the tabulation, but can be added in the central count.	YES	
Provisional/Challenged Ballots: A voted provisional ballots is included in the tabulation, but is identified and can be subtracted in the central count	NO	
Provisional/Challenged Ballots: Provisional ballots maintain the secrecy of the ballot.	YES	
Overvotes (must support for specific type of voting system)		
Overvotes: P & M: Overvote invalidates the vote. Define how overvotes are counted.	YES	Overvotes cause a warning to the voter and can be configured to allow voter to override.
Overvotes: DRE: Prevented from or requires correction of overvoting.	N/A	

Feature/Characteristic	Yes/No	Comment
Overvotes: If a system does not prevent overvotes, it must count them. Define how overvotes are counted.	YES	If allowed via voter override, overvotes are tallied separately.
Overvotes: DRE systems that provide a method to data enter absentee votes must account for overvotes.	N/A	
Undervotes		
Undervotes: System counts undervotes cast for accounting purposes	YES	
Blank Ballots		
Totally Blank Ballots: Any blank ballot alert is tested.	YES	Precinct voters receive a warning; both precinct and central scanners will warn on blank ballots.
Totally Blank Ballots: If blank ballots are not immediately processed, there must be a provision to recognize and accept them	YES	Blank ballots are flagged. These ballots can be manually examined and then be scanned and accepted as blank; or precinct voter can override and accept.
Totally Blank Ballots: If operators can access a blank ballot, there must be a provision for resolution.	YES	Operators can examine a blank ballot, re-mark if needed and allowed, and then re-scan it.
Networking		
Wide Area Network – Use of Modems	NO	
Wide Area Network – Use of Wireless	NO	
Local Area Network – Use of TCP/IP	YES	Client/server only
Local Area Network – Use of Infrared	NO	
Local Area Network – Use of Wireless	NO	
FIPS 140-2 validated cryptographic module	YES	
Used as (if applicable):		
Precinct counting device	YES	ImageCast Precinct and Evolution
Central counting device	YES	ImageCast Central

PROCEDURES FOR CERTIFYING VOTING MACHINES BY THE TENNESSEE STATE ELECTION COMMISSION

All voting machines/vendors must receive certification from the state election commission and the coordinator of elections before any voting machines or systems may be sold in the State of Tennessee.

First Step:

Any interested vendor should submit a written request to the coordinator of elections and the state election commission requesting certification of your company together with the EAC certification number, a financial report and a list of all states that have already bought your voting machines or systems. If you would like to demonstrate your product at a meeting of the state election commission, please make that request in your letter. You will be notified of the date, time, and place of the meeting where you may make your presentation.

Second Step:

A. Voting Machine Procedure

Following verification of EAC certification and an initial presentation of your product and/or services, you would need to arrange for at least two (2) State Election Commissioners (of opposite parties) and the coordinator of elections (or designee) to view your machines or system in use in an election of a substantial size in another state. An election of a substantial size involves at the minimum the following characteristics:

- The jurisdiction has a population of at least 25,000 persons;
- The jurisdiction has at least two (2) or more district races on the ballots; and
- There are at least two (2) contested races involving both at large and district races on the ballot.

B. Voting Machine Software Systems Upgrade

- EAC Certification;
- Presentation of software upgrade before State Election Commission at a monthly meeting; and
- Viewing of upgrade in another state (In lieu of viewing machine in another state, at the discretion of the State Election Commission, letters of recommendation from users in other jurisdiction may be used as support for approval.)

Third Step:

The State Election Commission must vote to certify the machine in order for the machines to be used in an election in Tennessee.

You may send any correspondence for both the state election commission and the coordinator of elections to the following address:

312 Rosa L.Parks Avenue, 7th Floor
William R. Snodgrass Tower
Nashville, Tennessee 37243
(615) 741-7956

If you have any further questions regarding certification of your company, please feel free to contact the office of the state election coordinator at the phone number listed above.



Date: October 14, 2013

To: The Tennessee State Election Commission, the Tennessee State Election Coordinator and Staff.

From: Dominion Voting Systems, Inc.

RE: Democracy Suite 4.14 Certification Upgrade

We sincerely appreciate the opportunity to present our 2005 EAC Certified Democracy Suite of products, namely D-Suite EMS, the ImageCast Evolution Digital Optical Scanner, the Image Cast Precinct-ADigital Optical Scanner, and the ImageCast Central Count Digital Optical Scanner for your review, inspection, and approval. These devices are used by all voters, standard and accessible, to count, process, and tabulate votes.

It is our hope that following the presentation, you will see why over 1,200 customers across the United States and Canada have placed their trust and confidence in Dominion provided products and services.

Our products are designed, engineered, and manufactured in North America by a team of election professionals whose cumulative experience is unmatched and far exceeds any other election systems provider.

Our company credo is "Our Customers Come First", a statement that reflects our around the clock availability, our dedication to product life cycle management across multiple product lines, and our willingness to listen, learn, and apply practical election related knowledge to every situation.

In addition to your participation in today's presentation, we hope you will further acquaint yourself with our company and our many exceptional offerings by reading the materials included in this courtesy packet, to see for yourself why our prospects choose us and our customers remain loyal to us.

Dominion Voting Systems welcomes the opportunity to provide a world class voting system for the voters and election officials throughout the State of Tennessee.

Mark W. Beckstrand
Regional Sales Manager
Dominion Voting Systems, Inc.