



SECRETARY OF STATE

2015 APR 14 AM 11:38

2310 Cousteau Court
 Vista, CA 92081, USA
 Telephone: 1 (760) 734-3233
 FAX: 1 (760) 598-0219
 www.unisynvoting.com

April 9, 2015

Kris Kingsmore
 Arizona Secretary of State's Office
 Election Services Division
 1700 West Washington Street, 7th Floor
 Phoenix, Arizona 85007

Dear Ms. Kingsmore,

Please accept this letter as Unisyn Voting Solutions requests to amend our State of Arizona OpenElect version 1.2 certification to the OpenElect Voting System version 1.3. This system modification to the 1.2 version received VVSG 2005 approval by the Election Assistance Commission (EAC) on January 12, 2015.

The system consists of the following components:

System Component	Software or Firmware Version	Hardware Version	Description
OVO	1.3	Rev. A	Precinct Ballot Scanner
OVO	1.3	Rev. E	Precinct Ballot Scanner
OVI – 7' Screen	1.3	Rev. F	Ballot Marking Device Early voting station Accessible voting station
OVI – 15' Screen	1.3	Rev. A	Ballot Marking Device Early voting station Accessible voting station
OVI – 15' Screen	1.3	Rev. B	Ballot Marking Device Early voting station Accessible voting station
OVCS	1.3	Hardware v. 1.3	Central Scanner
OVO Ballot Box 1	--	1.1	Plastic Rolling
OVO Ballot Box 2	--	1.2	Plastic Rolling
OVO Ballot Box 3	--	1.3	Plastic Rolling
OVO Ballot Box 4	--	1.3	Plastic Rolling
Ballot Layout Manager	1.3	--	EMS
Election Manager(EM)	1.3	--	EMS
Software Server(SS)	1.3	--	EMS
Election Server(ES)	1.3	--	EMS
Tabulator Client(TC)	1.3	--	EMS
Tabulator(Tab)	1.3	--	EMS
Tabulator Reports(TR)	1.3	--	EMS
Scripter	1.3	--	EMS
Validator	1.3	--	EMS

This table depicts the ECO's certified with the voting system:

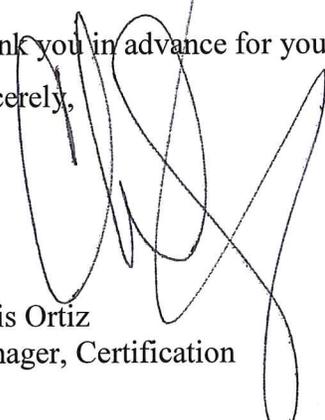
Change ID	Date	Component	Description	Inclusion
ECO 16922	12/19/2014	OVO	New power brick for the Citizen thermal printer	Mandatory
ECO 1016	12/19/2014	OVO	Added a new power brick for the PDI scanner	Mandatory
EAC 1017	12/19/2014	OVI, OVI-VC	Power supply change for start printer	Mandatory

This table depicts the ECO's approved by the EAC since January 1, 2014. The formal approvals on each of these ECO's can be found at the EAC Change Order Portal (<https://matrix.eac.gov>)

Change ID	Date	Component	Description	Inclusion
ECO 1018	01/05/15	OVO, OVI	New PC fan	Mandatory
IR000553	07/02/2014	OVI	New Hinge	Optional
EAC 1015	12/19/2014	OVI, OVI-VC	Flash Drive, Industrial 1 gig	Mandatory
ECO 16914	8/27/2014	OVI, OVI-VC	Manufacturing Change to Star Printer	Mandatory
ECO 16920	8/27/2014	OVI, OVI-VC	Alternate Supplier for OVI plastic	Mandatory
EAC 16921	8/27/2014	OVI, OVI-VC	New Power Cables	Mandatory

Thank you in advance for your assistance with this matter.

Sincerely,



Chris Ortiz
Manager, Certification

Attachments:

- EAC Approval Letter
- OpenElect 1.3 Certificate of Conformance
- 1.3 Enhancement List
- TDP
- NTS Report



STATE OF ARIZONA
VOTING EQUIPMENT CERTIFICATION
APPLICATION

SECRETARY OF STATE

2015 APR 14 AM 11:38

UNISYN VOTING SOLUTIONS, INC. Vendor Name		April 9, 2015 Date
2310 COUSTEAU COURT Address		
VISTA City	CALIFORNIA State	92081 Zip
760-734-3233 Phone	760-598-0219 Fax	

CHRIS ORTIZ Vendor Representative		Manager, Certification Title
2310 COUSTEAU COURT Address		
VISTA City	CALIFORNIA State	92081 Zip
760-734-3218 Phone	760-598-0219 Fax	cortiz@unisynvoting.com E-mail

Voting System		Complete form 1-A for Voting System Components
OpenElect Voting System Name	1.3 Version Number	04211950-1.3 EAC System Number

RECERTIFICATION ONLY
Date of previous Arizona Certification: June 24, 2014
Complete form 2-B for modifications since prior Arizona Certification

Self Certification

We (the Vendor) are qualified to do business in the State of Arizona and are capable of producing voting systems that meet federal and state requirements and are eligible for state certification. All hardware and software components of the system will perform as specified in literature and testing as well as conform to all applicable federal, state, and local statutes.

Signature of Vendor Representative

4/9/15

Date



STATE OF ARIZONA
VOTING EQUIPMENT CERTIFICATION
FORM 1-A Voting System Components

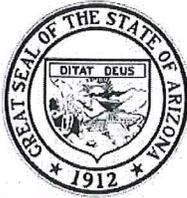
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Voting System		
OpenElect Voting System Name	1.3 Version Number	04211950-1.3 EAC System Number

Components

OVO Name	Software 1.3, Hardware Rev A & E Version Number	NTS VSTL Testing Authority
OVI-7 Name	Software 1.3, Hardware Rev F Version Number	NTS VSTL Testing Authority
OVI-VC Name	Software 1.3, Hardware Rev A & B Version Number	NTS VSTL Testing Authority
OVCS Name	Software 1.3, Hardware 1.3 Version Number	NTS VSTL Testing Authority
OVO Ballot Box - Plastic Name	1.1, 1.2 & 1.3 Version Number	NTS VSTL Testing Authority
OVO Ballot Box - Plastic Name	1.3 Version Number	NTS VSTL Testing Authority
Ballot Layout Manager Name	1.3 Version Number	NTS VSTL Testing Authority
Election Manager (EM) Name	1.3 Version Number	NTS VSTL Testing Authority
Software Server (SS) Name	1.3 Version Number	NTS VSTL Testing Authority
Election Server (ES) Name	1.3 Version Number	NTS VSTL Testing Authority
Tabulator Client (TC) Name	1.3 Version Number	NTS VSTL Testing Authority
Tabulator (Tab) Name	1.3 Version Number	NTS VSTL Testing Authority



STATE OF ARIZONA

VOTING EQUIPMENT CERTIFICATION 2015 APR 14 AM 11:38

FORM 1-A Voting System Components

Voting System		
OpenElect Voting System Name	1.3 Version Number	04211950-1.3 EAC System Number

Components

Tabulator Reports (TR) Name	1.3 Version Number	NTS VSTL Testing Authority
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Validator Name	1.3 Version Number	NTS VSTL Testing Authority
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Scripter Name	1.3 Version Number	NTS VSTL Testing Authority
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3 Baseline ECO's as indicated on EAC Scope of Certification Name	1.3 Version Number	NTS VSTL Testing Authority
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Name	Version Number	VSTL Testing Authority
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Name	Version Number	VSTL Testing Authority
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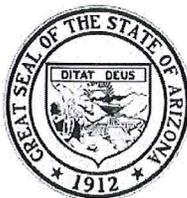
STATE OF ARIZONA
VOTING EQUIPMENT CERTIFICATION
FORM 2-B Modifications to Voting System
RECERTIFICATION ONLY

SECRETARY OF STATE

2015 APR 14 AM 11:38

Voting System	Date of Previous Certification: June 24, 2014	
OpenElect Voting System <small>Name</small>	1.3 <small>Version Number</small>	04211950-1.3 <small>EAC System Number</small>

Components		
OVO <small>Name</small>	1.3 <small>Version Number</small>	NTS <small>VSTL Testing Authority</small>
<small>Describe Modification or Attach Documentation</small>		
ECO 16922 - New power brick for the Citizen thermal printer		
OVO <small>Name</small>	1.3 <small>Version Number</small>	NTS <small>VSTL Testing Authority</small>
<small>Describe Modification or Attach Documentation</small>		
ECO 1016 - Added a new power brick for the PDI scanner		
OVI, OVI-VC <small>Name</small>	1.3 <small>Version Number</small>	NTS <small>VSTL Testing Authority</small>
<small>Describe Modification or Attach Documentation</small>		
EAC 1017 - Power supply change for start printer		



STATE OF ARIZONA
VOTING EQUIPMENT CERTIFICATION
FORM 2-B Modifications to Voting System
RECERTIFICATION ONLY

SECRETARY OF STATE

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Voting System	Date of Previous Certification: June 24, 2014	
OpenElect Voting System Name	1.3 Version Number	04211950-1.3 EAC System Number

Components		
OVO, OVI Name	1.3 Version Number	NTS VSTL Testing Authority
Describe Modification or Attach Documentation ECO 1018 - New PC fan		
OVI Name	1.3 Version Number	NTS VSTL Testing Authority
Describe Modification or Attach Documentation IR000553 - New Hinge		
OVI, OVI-VC Name	1.3 Version Number	NTS VSTL Testing Authority
Describe Modification or Attach Documentation EAC 1015 - Flash Drive, Industrial 1 gig		



STATE OF ARIZONA
VOTING EQUIPMENT CERTIFICATION
FORM 2-B Modifications to Voting System
RECERTIFICATION ONLY

SECRETARY OF STATE

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Voting System	Date of Previous Certification: June 24, 2014	
OpenElect Voting System Name	1.3 Version Number	04211950-1.3 EAC System Number

Components		
OVI, OVI-VC Name	1.3 Version Number	NTS VSTL Testing Authority
Describe Modification or Attach Documentation		
ECO 16914 - Manufacturing Change to Star Printer		
OVI, OVI-VC Name	1.3 Version Number	NTS VSTL Testing Authority
Describe Modification or Attach Documentation		
ECO 16920 - Alternate Supplier for OVI plastic		
OVI, OVI-VC Name	1.3 Version Number	NTS VSTL Testing Authority
Describe Modification or Attach Documentation		
EAC 16921 - New Power Cables		



STATE OF ARIZONA
VOTING EQUIPMENT CERTIFICATION
FORM 2-B Modifications to Voting System
RECERTIFICATION ONLY

SECRETARY OF STATE

2015 APR 14 AM 11:38

Voting System		Date of Previous Certification: June 24, 2014
OpenElect Voting System Name	1.3 Version Number	04211950-1.3 EAC System Number

Components		
OVO, OVI, OCS & OVCS Name	1.3 Version Number	NTS VSTL Testing Authority
Describe Modification or Attach Documentation		
See attached list, "OpenElect Release 1.3 Voting System Modifications" of all modifications made to the system since OpenElect 1.2 approval in the State of Arizona.		
Name	Version Number	VSTL Testing Authority
Describe Modification or Attach Documentation		
Name	Version Number	VSTL Testing Authority
Describe Modification or Attach Documentation		

OpenElect Release 1.3 Voting System Modifications

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Item Number	Module Affected	Modification
E-01	ALL	Cross Party Endorsement – All candidates to be assigned to more than one party affiliation. Straight ticket selection for any assigned party will select if all other conditions are met.
E-02	OCS, OVCS	Updated OS to CentOS 6.5 to support the new OCS hardware (Dell Latitude 5540 and Dell OptiPlex XE2)
E-03	BLM, OVO, OVCS, OVI	Increase number of digits in barcode for ballot style ID from 3 to 4. The 3 digit ballot style ID is no longer supported. This feature allows the system to support more ballot styles per election.
E-04	BLM, OVO, OVI, OVCS	Increase number of precinct ID digits from 4 to 5 on screen entry and in the barcode. The 4 digit precinct ID is no longer supported. This feature allows greater flexibility in precinct ID assignment.
E-05	EM	Add new options for OVI Font size selection (Large and Small) and OVO show percentages on tally. This modification allows the user to set the options in EM.
E-06	OVI	Use EM option of Large or Small Font for the top of the OVI ballot (See E-05)
E-07	OVO	Use EM option 'Show percentages' to know if percentage values should be shown on the tally reports (See E-05)
E-08	TC, OVCS	Added the ability to hide/re-enable sessions
E-09	OVI	Changed the write-in character entry limit from 40 to 30 characters
E-10	OVI	Change Write-In Information format on Top of OVI Ballot to be designated by ** symbols to help with write-in extraction (via OCR) for the OVO write-in report.
E-11	OVO	Change Recount session to be contest specific.
E-12	OVO	Change Write-In Report to show Write-Ins extracted from OVI ballots.
E-13	OVO	After printing the Zero Count report for Pre-Init Precincts, a screen displays allowing the user to print an additional copy of the Zero Count report.
E-14	OVO	If election title is more than 3 lines, the title lines will be concatenated and wrapped as needed to display.
E-15	OVO	Add Party Designation for Primary Contests in Write In Report
E-16	OVO	During OVO close process, display screen requiring a Yes/No response from the user to print the Write-In Report.

Item Number	Module Affected	Modification
E-17	OVO	Add OVO Write-in report defaulting to compressed images.
E-18	BLM, OVO, OVCS	Add second barcode on the back side of two sided ballots. Added this feature to provide a validation that ballot style and page match.
E-19	BLM	Modified the "Keep Together" function which tries to keep all contests in a group in a single column to automatically move all contests in a group to the next column if necessary. This is a conditional column break, only moves to next column if necessary.
E-20	BLM, OVI	Allow multiple contests headers per contest.
E-21	OVO	Change shape of the blade on the back side of the gate to enhance return of ballots
E-22	OVCS	A stop command has been introduced for the OVCS which allows the user to halt the scanning of ballots based upon any combination of invalid, no selection, write-in, overvote, and undervote ballots.
E-23	OVO, OVCS, EM, Tabulator, TR	Added the capability to count the number of blank ballots by a precinct and add the total to the tally. This count may be optionally printed on the OVO summary and/or printed on all reports that display the ballot count value.
E-24	TR	Added columns to the Statement of Votes Cast Report to show overvote/undervote counts by precinct and by contest.
E-25	OVI	On the OVI Summary Screen, if a contest is under voted, the background of the box containing the word "Undervote" is colored red to provide a color visual indicator of an undervote.
E-26	OVO/OVI	Software and election version information has been added to the machine info tape/screen as a standard part of the Open and Close tapes.
E-27	BLM	In a primary election, if a party specific ballot style is the functional equivalent of the Non-Partisan ballot style (All partisan contests are "NO CANDIDATES FILED" for ballot style), the ballot style should not be created/saved for the election and the party not included for that precinct when parties are selected on the OVI.
E-28	TR	An option has been added to allow data exported by CSV to be exported by Split instead of consolidating the data by "parent" ballot style.
HW-01	OVI	Introduced a new hinge to the OVI-VC which allows for adjustment of the viewing angle of the OVI-VC display.

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Item Number	Module Affected	Modification
HW-02	OVO	Introduced a new motherboard for use on the OVO units to replace the current motherboard which has reached End of Life status.
HW-03	OVO	Introduced a new display for use on the OVO units to replace the current display which has reached End of Life status.
HW-04	OVO	A new plastic ballot box, the OpenElect Ballot Box Version 1.3 was introduced for use with the OVO units.
HW-05	OVO	New power supplies were introduced for the Citizen Printer and the PDI Scanner to replace parts which have reached End of Life Status.
HW-06	OVI-VC	New power supplies were introduced for the Star Printer and the GVision touch screen to replace parts which have reached End of Life Status.



United States Election Assistance Commission

Certificate of Conformance

**Unisyn OpenElect 1.3
(Modification)**



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: OpenElect

Model or Version: Version 1.3 (Modification)

Name of VSTL: NTS Huntsville

EAC Certification Number: 04211950-1.3

Date Issued: 01/12/2015

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

Scope of Certification Attached

Manufacturer: Unisyn Voting Solutions, Inc.
System Name: OpenElect Voting System 1.3
Certificate: 04211950-1.3

Laboratory: NTS Huntsville
Standard: VVSG 1.0 (2005)
Date: 01/12/2015



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 Unisyn OpenElect Voting System 1.3, herein referred to as OVS 1.3, is a modification to the certified OVS 1.2. The OVS 1.3 Voting System is a paper-ballot based optical scan voting system consisting of four major components:

1. OpenElect Central Suite (OCS)
2. OpenElect Voting Optical (OVO)
3. OpenElect Voting Interface (OVI-7 or OVI-VC)
4. OpenElect Voting Central Scan (OVCS)

The Unisyn OVS 1.3 voting system Technical Data Package (TDP) was the source for much of the information in this document.

OpenElect Central Suite (OCS)

The OCS consists of the eight components running as either a front-end/client application or as a back-end/server application: Ballot Layout Manager (BLM), Election Manager (EM), Election Server (ES), Tabulator Client (TC), Tabulator, Adjudicator, Tabulator Reports (TR) and Software Server (SS).

OpenElect Voting Optical (OVO)

The OVO device is a precinct-level optical scan ballot counter (tabulator) designed to perform the following major functions: ballot scanning, tabulation, and second chance voting.

The OVO is a full-page, dual-sided optical scan ballot system which scans and validates voter ballots and provides a summary of all ballots cast. The election is loaded from the OVS Election Server over a secure local network or via a USB thumb drive. On Election Day, an OVO at each polling location scans and validates voters' ballots, and provides precinct tabulation and reporting. The OVO unit is also paired with the OVI for early voting to scan and tabulate early voting ballots. OVO units can also be used at election headquarters to read absentee, provisional, or recount ballots in smaller jurisdictions.

OpenElect Voting Interface (OVI)

The OVI supports both ADA and Early Voting requirements. The OVI enables voters during early voting to cast regional ballots and voters with special needs to prepare their ballots independently and privately on Election Day. The OVI unit features a 7-inch or optional 15-inch full-color touch-screen display. The OVI will present each contest on the correct ballot to the voter in visual and (optionally) audio formats. The voter with limited vision navigates through the ballot using the audio ballot and the ADA keypad or touchscreen input to make their selections. The voter validates his or her selections by listening to the audio summary, printing the ballot, and inserting it into the OVO. Two OVI models are included in the OVS 1.3 voting system, the OVI-7 which has a 7" LCD screen and the OVI-VC which has a 15" LCD screen.

The OVI facilitates special needs voters through a variety of methods including wheelchair access, sip & puff, zoom-in ballot function, and audio assistance for the visually impaired. The OVI provides for write-in candidates when authorized by the jurisdiction. Voters input candidates' names via the ADA keypad, touchscreen or sip & puff device. Each OVI can support multiple languages for both visual and audio ballots, allowing the voter to choose their preferred language.

OpenElect Voting Central Scanner (OVCS)

The OVCS resides at election headquarters designated to read absentee, provisional, or recount ballots in large jurisdictions, or read the entire election's ballots at a central count location in smaller jurisdictions. The OVCS also captures write-in data images and produces a write-in

image report for manual processing upon request. The OVCS system consists of the following components: OVCS Workstation and Canon DR-X10C Scanner.

Certified System before Modification:

Unisyn Voting Solutions OpenElect 1.0
Certificate ID: UNS10121966-OE

Unisyn Voting Solutions OpenElect 1.0.1
Certificate ID: UNS10121966-OE-WI

Unisyn Voting Solutions OpenElect 1.1
Certificate ID: UNS10121966-OE-1.1

Unisyn Voting Solutions OpenElect 1.2
Certificate ID: UNS10121966-OE-1.2

Anomalies and/or Additions addressed in OpenElect 1.3:

The OVS 1.3 provides enhancements from the OVS 1.2 to the OVS 1.3 system. This update includes functional and hardware modifications to the EMS, OVO, OVI, and OVCS.

Mark definition:

The Unisyn Open Elect system will consistently recognize a 1mm wide line across the full length of the target area. Marks must be made with a marking device with sufficiently low reflectance in the visible red band and is of sufficient density/color such that the scanner registers it as black. Most blue, black and green ballpoint pens and markers also meet necessary reflectance requirements and may be used.

Tested Marking Devices:

- BIC Grip Roller
- EF Felt Tip Pen

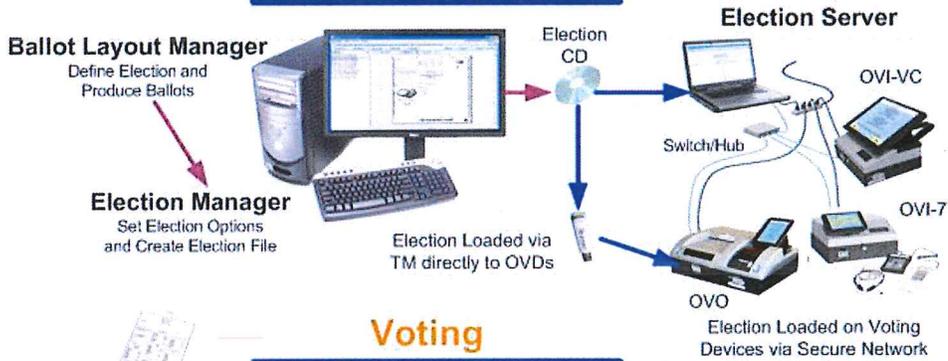
Language capability:

System supports Armenian, Cambodian, Chinese (Cantonese and Mandarin dialects), English, Japanese, Korean, Russian, Spanish, Tagalog, and Vietnamese.

Components Included:

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

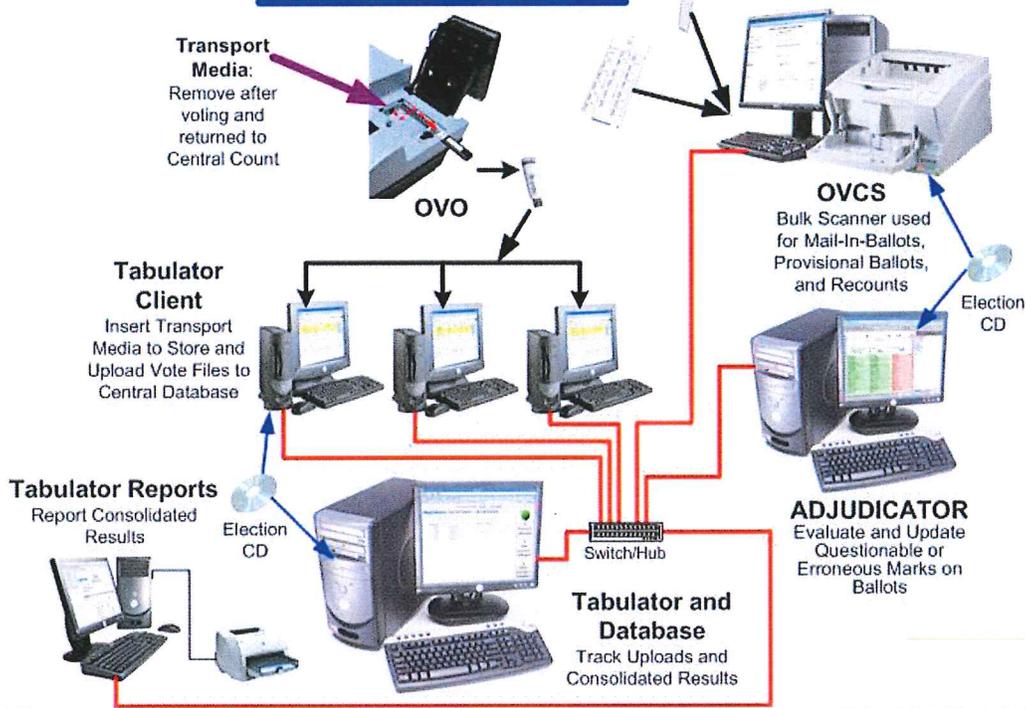
Pre-Voting



Voting



Post-Voting



System Component	Software or Firmware Version	Hardware Version	Operating System or COTS	Comments
OVO	1.3.0	Rev A, E	Linux CentOS 5.0, 6.3	
OVI-7	1.3.0	Rev F	Linux CentOS 5.0	

System Component	Software or Firmware Version	Hardware Version	Operating System or COTS	Comments
OVI-VC	1.3.0	Rev A, B	Linux CentOS 5.0, 6.3	
OVCS	1.3.0	ImageFORMULA DR-X10C	Linux CentOS 5.7, 6.5	
Adjudicator	1.3.0			
Ballot Layout Manager	1.3.0			
Common (Library)	1.3.0			
Election Manager	1.3.0			
Election Server	1.3.0			
OCS Installer	1.3.0			
Regkey Builder	1.3.0			
Software Server	1.3.0			
Tabulator	1.3.0			
Tabulator Client	1.3.0			
Tabulator Reports	1.3.0			
OVCS Application	1.3.0			
OVI Firmware	1.3.0			
OVO Firmware	1.3.0			
Scripter	1.3.0			
Validator	1.3.0			
Logger (Library)	1.3.0			
COTS Components				
CentOS Linux	5.0, 5.7, 6.3, 6.5			
Java JRE + Unlimited Cryptographic Extension	1.6.0_02			
Apache Tomcat Application Server	6.0.13			
MySQL Database	5.0.45-7, 5.1.71-1			
JasperReports	2.0.5			
Desktop for non-redundant solutions		Dell OptiPlex		
Desktop for redundant solutions		Dell Precision		
Canon Scanner		Canon DR-X10C		
Transport Media		STEC- Industrial Grade		

System Component	Software or Firmware Version	Hardware Version	Operating System or COTS	Comments
Laptop		Dell Latitude	COTS	

System Limitations

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

Characteristic	Limiting Component	Limit	Comment
Maximum Elections	BLM	8	
Maximum Precincts	BLM	2000	
Maximum Splits per Precinct	BLM	9	
Maximum Districts	BLM	400	
Maximum Contests per District	BLM	20	
Maximum Parties	BLM	24	
Maximum Parties in primary	BLM	12	
Maximum Parties w/ Straight Ticket	BLM	12	
Maximum District types	BLM	25	
Maximum Languages	BLM	15	
Maximum Ballot styles per Election	BLM	400	
Maximum Contests per Election	BLM	150	
Maximum Measures per Election	BLM	30	
Maximum Instruction Blocks per Election	BLM	5	
Maximum Headers per Election	BLM	50	
Maximum Candidates per Contest	BLM	120	
Maximum Ballot Pages	BLM	3	
Maximum Votes for N of M	BLM	25	
Maximum Ballot sheets per OVO	BLM	5000	
Maximum Units simultaneously loading	BLM	20	
Maximum Precincts initialized per OVO on Election Day	BLM	30	
Maximum Precincts initialized per OVI-7/OVI-VC on Election Day	BLM	2000	
Maximum Precincts initialized per OVO/OVI-7/OVI-VC in early voting	BLM	2000	
Maximum 11" Ballot positions	BLM	38 x 3	Limit
Maximum 14" Ballot positions	BLM	50 x 3	Limit
Maximum 17" Ballot positions	BLM	62 x 3	Limit
Maximum 19" Ballot positions	BLM	70 x 3	Limit

Functionality

2005 VVSG Supported Functionality Declaration

Feature/Characteristic	Yes/No	Comment
Voter Verified Paper Audit Trails		
VVPAT	No	Not applicable
Accessibility		
Forward Approach	No	
Parallel (Side) Approach	No	
Closed Primary		
Primary: Closed	Yes	
Open Primary		
Primary: Open Standard (provide definition of how supported)	Yes	A registered voter may vote in any <i>party primary</i> regardless of his own party affiliation
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.	No	
Ballot Rotation:		
Rotation of Names within an Office; define all supported rotation methods for location on the ballot and vote tabulation/reporting	Yes	Top to Bottom By Precinct grouping
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	

Feature/Characteristic	Yes/No	Comment
Straight Party: Excludes a partisan contest from the straight party selection	Yes	
Cross-Party Endorsement:		
Cross party endorsements, multiple parties endorse one candidate.	No	
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.	No	
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)	Yes	
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.	Yes	
Ranked Order Voting: A ballot stops being counting when all ranked choices have been eliminated	Yes	
Ranked Order Voting: A ballot with a skipped rank counts the vote for the next rank.	Yes	

Feature/Characteristic	Yes/No	Comment
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	Yes	
Ranked Order Voting: A ballot with two choices ranked the same, stops being counted at the point of two similarly ranked choices.	Yes	
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.	Yes	
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	Supported. Overvotes are tabulated for each office as an Over / Under Vote report in Vote Tabulation
Overvotes: DRE: Prevented from or requires correction of overvoting.	No	
Overvotes: If a system does not prevent overvotes, it must count them. Define how overvotes are counted.	No	
Overvotes: DRE systems that provide a method to data enter absentee votes must account for overvotes.	No	
Undervotes		
Undervotes: System counts undervotes cast for accounting purposes	Yes	Supported. Undervotes are tabulated for each office as an Over / Under Vote report in Vote Tabulation

Feature/Characteristic	Yes/No	Comment
Blank Ballots		
Totally Blank Ballots: Any blank ballot alert is tested.	Yes	
Totally Blank Ballots: If blank ballots are not immediately processed, there must be a provision to recognize and accept them	Yes	
Totally Blank Ballots: If operators can access a blank ballot, there must be a provision for resolution.	Yes	
Display/Printing Multi-Lingual Ballots		
Spanish	Yes	
Alaska Native (Other Group specified)	No	
Aleut	No	
Athabascan	No	
Eskimo	No	
Native (Other Group Specified)	No	
Chinese	Yes	
Filipino	Yes	
Japanese	Yes	
Korean	Yes	
Vietnamese	Yes	
Apache	No	
Cent/So American	No	
Cheyenne	No	
Chickasaw	No	
Choctaw	No	
Navajo	No	
Other Tribe-Specified	No	
Paiute	No	
Pueblo	No	
Seminole	No	
Shoshone	No	
Sioux	No	
Tohono O'Odham	No	
Tribe not specified	No	
Ute	No	
Yaqui	No	
Yuman	No	
Demonstrates the voting system capability to handle the designated language groups		
Default language (English)	Yes	
Secondary language using a Western European font	Yes	
Ideographic language (such as Chinese or Korean),	Yes	
Non-written languages requiring audio support	Yes	

Baseline Certification Engineering Change Order's (ECO)

This table depicts the ECO's certified with the voting system:

Change ID	Date	Component	Description	Inclusion
ECO 16922	12/19/2014	OVO	New power brick for the Citizen thermal printer	Mandatory
ECO 1016	12/19/2014	OVO	Added a new power brick for the PDI scanner	Mandatory
EAC 1017	12/19/2014	OVI, OVI-VC	Power supply change for start printer	Mandatory

World-Class Service

Commitment to
Excellence

Professional Support

Leading Innovation in the Election Industry

Unisyn OpenElect® Voting Optical Scan (OVO) is a comprehensive and secure paper-based digital optical scan voting system that both validates and tabulates ballots at each precinct.

Supports Ranked Choice Voting (RCV)

- Familiar runoff process done in a single election
- Works equally well when there are multiple seats to fill
- Combines two elections into one, so voters only have to make one trip to the poll

Integrity, Confidence and Flexibility

- 2005 Certification of the Voluntary Voting System Guidelines (VVSG) from the United States Election Assistance Commission (EAC)
- Hardened Linux and Java platform provides multiple layers of security and flexibility



High levels of Physical and Software Security

Physical measures, coupled with comprehensive procedures, ensure proper and effective security and integrity during equipment preparation, testing, repair and use.

Transparent System that Supports Accountability

- Reviewed by an EAC-accredited Voting System Testing Laboratory (VSTL)
- Lab reports are made public as part of our transparent process
- Software code is disclosed as part of a procurement process with a jurisdiction

OVO Features and Benefits

- Self contained ballot counter includes a full color touch screen display, ballot scanner, and precinct report printer
- Provides the voter easy to follow onscreen instructions for all valid operations
- Scans ballots quickly
- Records and deposits ballots into a locked ballot box
- Prints reports and receipts
- Modular design and compact size provides easy transport and set-up



2005 VVSG Certified

Java and Hardened
Linux Platform

Questions?

Please visit: www.unisynvoting.com

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Scalability • Transparency Flexibility

- Pre Election Support
- Results Reporting
- Media Support
- Voter Education
- Administration Management
- Technical Support
- Maintenance
- Printing
- Supplies

OpenElect Voting Optical Scan
(OVO)

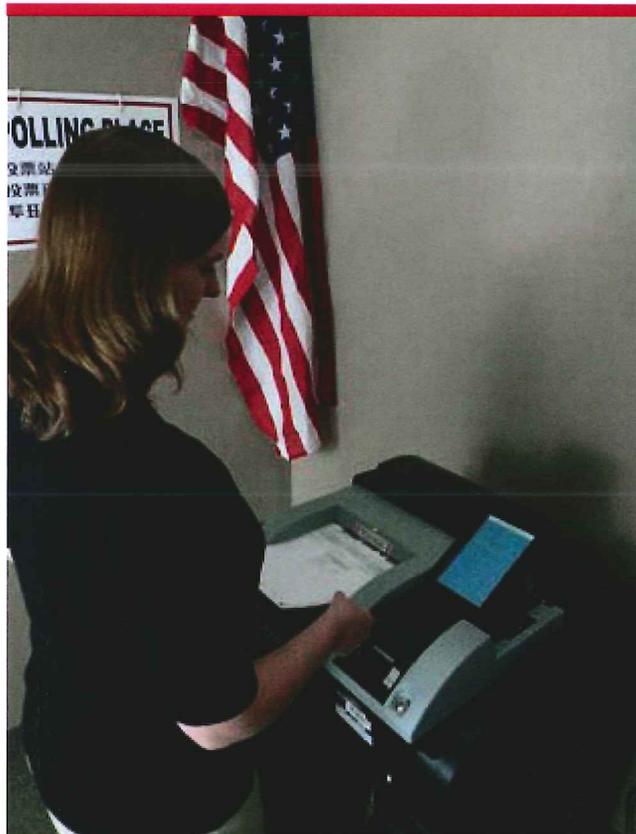
OpenElect Voting Interface (OVI)

OpenElect Voting Central Scan
(OVCS)

OpenElect Central Suite (OCS)

Flexibility in Program Design and Support Services

Resources, best practices and leading-edge technology provides our clients with the skills and tools needed to revolutionize local elections.



*“Four letters describe Unisyn Voting Solutions - **SAFE: Secure, Accurate, Flexible and Easy** ... No wonder that they’re causing such a stir in the election community. The Unisyn OVO will change the way elections are managed in both the public and private sectors.”*

Unisyn Voting Solutions® is a different kind of company! Embracing the standards set forth by the voting community, we are the *first* Company to offer a digital optical scanning system certified to the 2005 Voluntary Voting System Guidelines set forth by the U.S. Election Assistance Commission (EAC).

Our products provide a wide array of choices in selecting a voting system. Contact our Election Specialists today to learn more!

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OpenElect® Voting Interface™ Vote Center (OVI-VC™)

Innovative and Versatile

2005 VVSG Certified

ADA

Early Voting

Ranked Choice Voting

Java and Hardened Linux
Platform

OpenElect® Voting Interface™ Vote Center (OVI-VC™) provides touch screen voting to accommodate voters in an early vote center and multiple precinct vote locations. Fully HAVA compliant; each OVI-VC prints on demand a ballot which may be reviewed by the voter prior to being scanned. Secure tabulation is then completed using the OpenElect® Voting Optical Scan (OVO®) or the OpenElect® Voting Central Scan (OVCS®).



Americans with Disabilities Act (ADA) Features

- HAVA compliant keypad, sip-n-puff, zoom-in ballot and multi-lingual audio functionality
- Allows voters to prepare ballots independently and privately
- Allows voters to correct mistakes (second chance voting)

Early Voting/Vote Centers

- Contains all ballot styles to accommodate non-geographical use at early voting locations
- May be used for write-in candidates when required
- Ballots are printed in easy to read format for review by Voter before tabulation

Transparent System that Supports Accountability

- Fully reviewed and certified by an EAC-accredited Laboratory
- Lab Reports are public as part of our transparent process
- Software code is disclosed for review as part of a procurement process with a jurisdiction



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Scalability • Transparency Flexibility

- Pre Election Support
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- Printing
- Supplies

OpenElect Voting Optical Scan (OVO)
OpenElect Voting Interface (OVI)
OpenElect Voting Interface (OVI-VC)
OpenElect Voting Central Scan (OVCS)
OpenElect Central Suite (OCS)

High Levels of Physical and Software Security

Physical measures, coupled with comprehensive procedures, ensure proper and effective security and integrity of equipment during preparation, testing, repair and use.

Flexibility in Program Design and Support Services

Resources, best practices and leading-edge technology provides our clients with the skills and tools needed to efficiently conduct elections.

OVI-VC™ Features and Benefits

- Supports multiple languages
- Rank Choice Voting (RCV)
- Modular design provides easy transport and set up for poll workers
- Ballots are printed in easy to read format for review
- Produces complete precinct audit logs and reports
- OVI-VC™ produced ballots can be easily scanned into the OpenElect® Voting Optical Scan (OVO®) or the OpenElect® Voting Central Scan (OVCS®)



"Unisyn's products are easy to use and their ability to customize a program that is good for our jurisdiction is exceptional. The entire company is focused on making sure our elections are successful."

Unisyn Voting Solutions® is the *first* Company to offer a digital optical scanning system certified to the 2005 Voluntary Voting System Guidelines set forth by the U.S. Election Assistance Commission (EAC).



Our OpenElect® suite of products provides a wide array of equipment choices which allows us to provide the perfect match for the way you want to conduct your elections. Contact our Election Specialists today to learn more!

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OpenElect® Voting Interface (OVI)

Innovative and Versatile

2005 VVSG Certified

ADA

Early Voting

Ranked Choice Voting

Java and Hardened Linux
Platform



Americans with Disabilities Act (ADA) Features

- HAVA compliant keypad, sip-and-puff, zoom-in ballot and headphone functionality
- Allows voters to prepare ballots independently and privately
- Allows voters to correct mistakes (second chance voting)

Early Voting

- Contains all ballot styles for non-geographical use at early voting locations
- Can be used for write-in candidates when authorized
- Ballots can be printed in easy to read format for review

Ranked Choice Voting (RCV)

- Familiar runoff process done in a single election
- Works equally well when there are multiple seats to fill
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OpenElect Voting Optical Scan (OVO)
OpenElect Voting Interface (OVI)
OpenElect Voting Central Scan (OVCS)
OpenElect Central Suite (OCS)

High Levels of Physical and Software Security

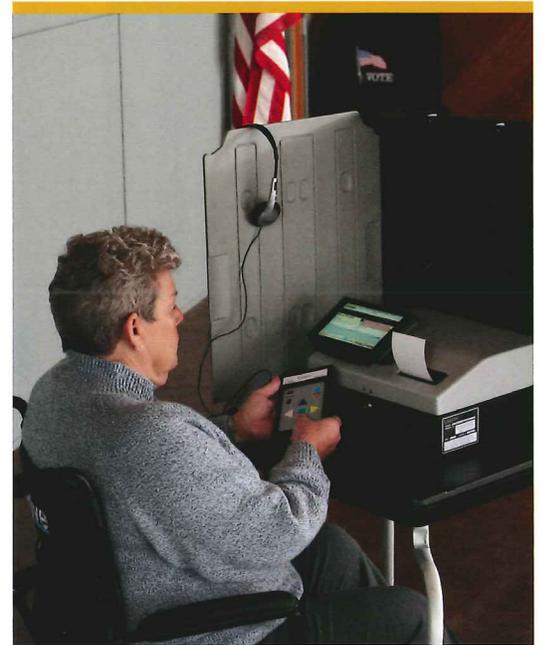
Physical measures, coupled with comprehensive procedures, ensure proper and effective security and integrity during equipment preparation, testing, repair and use.

Flexibility in Program Design and Support Services

Resources, best practices and leading-edge technology provides our clients with the skills and tools needed to revolutionize local elections.

OVI Features and Benefits

- Supports multiple languages
- Modular design provides easy transport and set up for poll workers
- Ballots can be printed in easy to read format for review
- Produces a variety of precinct logs and reports
- Ballots can be scanned into the OpenElect® Voting Optical Scan (OVO) or the OpenElect® Voting Central Scan (OVCS)



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OpenElect® Voting Central Scan (OVCS)

Innovative and Versatile

2005 VVSG Certified

ADA

Early Voting

Ranked Choice Voting

Java and Hardened Linux Platform

The OpenElect® Voting Central Scan (OVCS) resides at election headquarters. It is a bulk scanner designated to read absentee and provisional ballots, and to perform recounts. The OVCS also captures Write-In data images and produces a Write-In image report for manual processing upon request.

Enhanced Speed and Security

- Hardened Linux/Java multi-tiered platform provides enhanced security
- Transparent source code – available for review as part of a jurisdiction's procurement process
- Capable of uploading results directly to the tabulator without intermediate steps

Multifaceted, Flexible and Comprehensive

- Accommodates Ranked Choice Voting (RCV)
- Provides a permanent record of voter choices
- Captures full ballot images
- Extracts write-in entries from ballots and presents consolidated reports for each contest by precinct
- Can be used for central tabulation and recounts

High levels of physical and software security

Physical measures, coupled with comprehensive procedures ensure proper and effective security, and integrity during equipment preparation, testing, repair and use.



Questions?

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"When It Came To Innovation, Unisyn invested to retool the traditional election technology; adopting a new business model and nurturing a support network of peer-reviewed trusted third parties, industry authorities and skilled workers. The change, led to the renaissance of an entire industry."

Scalability • Transparency

Flexibility

- Pre Election Support
- Results Reporting
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- Maintenance
- Printing
- Supplies

Adjudication

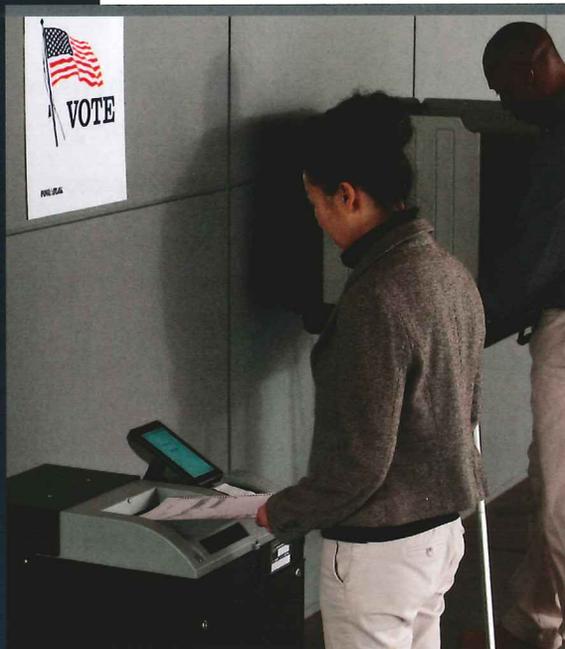
Provides adjudication whereby a qualified group is allowed to review error conditions on a ballot and adjust the ballot record according to the voter's perceived intent.

The OVCS allows for:

- Casting of ballots that cannot be read through system due to defacement of ballot
- Resolution of overvote/undervote conditions on a ballot
- Provides all-electronic handling of write-ins (without manual sorting)
- Provides method for visual validation of system function

Flexibility in Program Design and Support Services

Resources, best practices and leading-edge technology provides our clients with the skills and tools needed to efficiently conduct local elections.



Features and Benefits

- Units can be scaled, depending on number of ballots
- Flexibility to read various ballot sizes and two-sided ballots
- Capable of uploading results directly to tabulation without the need for intermediate steps

OpenElect Voting Optical Scan (OVO)

OpenElect Voting Interface (OVI)

OpenElect Voting Central Scan (OVCS)

OpenElect Central Suite (OCS)

Unisyn Voting Solutions® is a different kind of company!

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OpenElect® Central Suite (OCS)

Unisyn OpenElect® Central Suite (OCS) is a Linux-based suite of software applications that works together to define and configure an election:

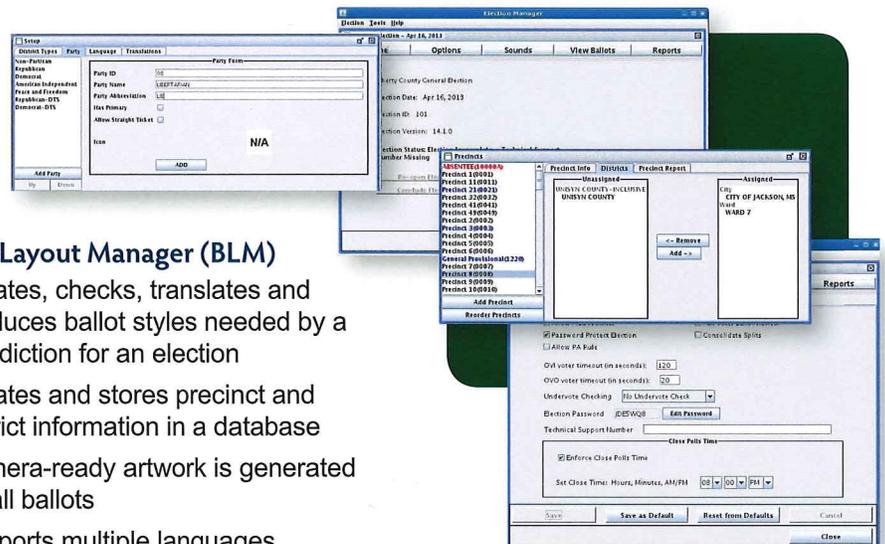
Complete Control over Your Election Process

- The product suite provides maximum flexibility and customization while guiding the user through every step of the process
- User friendly graphical interface, with familiar interface conventions
- Consistent screen formats that make them easy to learn and easy to use
- Compiles and tabulates vote results
- Provides reports by precinct, by district, by county and statewide



World-Class Service
 Commitment to
 Excellence
 Professional Support
 Java and Hardened
 Linux Platform

The Unisyn OpenElect Central Suite (OCS) works in conjunction with our 2005 VVSG Certified Linux-platform digital scan products:



Ballot Layout Manager (BLM)

- Creates, checks, translates and produces ballot styles needed by a jurisdiction for an election
- Creates and stores precinct and district information in a database
- Camera-ready artwork is generated for all ballots
- Supports multiple languages
- Supports Ranked Choice Voting (RCV)

Election Manager (EM)

- Converts the Unisyn election definition file to a Unisyn-specific encrypted XML format
- Allows the jurisdiction to add voting device specific options
- Flexibility to check contests for undervotes, whether to allow or disallow certain features and other options
- Creates and manages Supervisor and Maintenance Technician logins and passwords
- Produces a CD containing encrypted compressed files that are loaded onto the voting devices
- CD is also used by post-election OVS components for election day vote processing

Questions?

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Scalability • Transparency

Flexibility

- Pre Election Support
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- Technical Support
- Maintenance
- Printing
- Supplies

Election Server (ES)

- Sets the correct system time on the voting devices
- Uses the Election CD created by the Election Manager component to download new election data (via a closed and secure network) to OVO and OVI voting devices

Tabulator Client (TC)

- Following an election, transport media (Flash memory) from each poll location are delivered to a central count location, uploaded and converted to a database format that the jurisdiction can use for Unofficial and Official Canvass Reporting
- Retrieves, decrypts and transfers the vote files from the transport media to the Tabulator
- Resides on the same PC as the Tabulator or on a PC that communicates with the Tabulator

Tabulator

- Unisyn's Tabulator receives and validates uploaded voting data and provides a status of uploaded files
- Provides Ranked Choice Voting (RCV) functionality
- Uses the Tabulator database to store results from all precincts

Tabulator Reports (TR)

- Accesses data from the Tabulator Database to generate the necessary Unofficial and Official reports
- As precinct results are uploaded, the vote tabulator generates and updates a number of reports including:
 - Status reports
 - Consolidated Election Report, summarized by precinct
 - Voter Turnout report and other reports such as providing election results to the media
- The vote files maintain both an administrative audit trail and a voter audit trail that provide capability to retrieve ballot images

Transparent Source Code that Supports Accountability

- Reviewed by EAC-accredited Laboratory
- Lab Reports are made public as part of our transparent process
- Software code is disclosed as part of a procedure process with a jurisdiction

*"In an industry challenged with old technology - One Company has stepped up to the plate. That company is **Unisyn Voting Solutions**."*

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Unisyn
Voting
Solutions

Services, Training and Resources

World-Class Service

Commitment to Excellence

Professional Support

Java and Hardened Linux Platform



Unisyn Voting Solutions®...Integrity and Passion in Everything We Do!

Unisyn understands that the successful implementation of any new voting system relies on the team that operates it. That is why we work closely with election management, poll workers, technicians and warehouse personnel to help your election run smoothly and efficiently. This includes:

- Partnership that provides security, transparency, flexibility and scalability
- Leading-edge technology that makes reporting easy to manage and secure
- Customized design and delivery of support services and resources
- Highly qualified personalized and interactive staff training
- Nationwide service – we are available to come to you

Public and Private Election Services

- Tabulation System Reports
- Ongoing Maintenance
- Service Bureau Ballot Layout
- Early Voting and Absentee Ballots

Headquarters Election Staff

- Layout and design of ballots
- Candidate entry
- Tabulation
- Identification and resolution of potential problems

Poll Workers

Unisyn offers a “Train the Trainers” program by providing hands-on, classroom and video instruction so that trainers can easily and effectively instruct the numerous polling place workers in all functions of the Unisyn system used in their precinct.

Technicians and Warehouse Staff

We provide training for:

- Technical service (Unisyn-qualified voting machine repair technician)
- Functionality and maintenance of machines
- All hardware components including repair and replacement of parts
- Warehouse operations, and in the proper preparation, delivery and return of voting units
- “How to troubleshoot problems on Election Day”

Questions?

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“Unisyn provides a comprehensive and customized program that helps jurisdictions of all sizes obtain fast and accurate results. The entire company is focused on making sure that every vote will actually be counted.”

Scalability • Transparency
Flexibility



- Pre Election Support
- Results Reporting
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- Supplies

OpenElect Voting Optical Scan
(OVO)
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(OVCS)
OpenElect Central Suite (OCS)

Media/Public Information Services

- A media specialist to help with public education, establishing an image of transparency with local media and providing pertinent information to enhance a positive image of the Election Office
 - Hosted news conference to introduce and demonstrate the ease of use of the new voting machines
 - Literature distribution regarding the new system, including sample ballots
 - Press release to announce the contract signing
 - “Open House” with voting units at the Election Office for people to practice how to operate the machine and how to cast their ballot
 - Staff training on how to demonstrate the voting system to others, such as the public and media

Maintenance Services

- Unisyn Voting Solutions provides a full complement of services for your election requirements, these include:
 - Service and maintenance of all voting unit components
 - Warehouse services, including storage, and set up

Printing Services

Unisyn provides jurisdiction printing services which include:

- Early Voting, Absentee and Election Day Ballots
- Poll worker manuals
- Precinct kits
- Test decks

We also provide assistance for Ballot Management programs. This includes the coordination between the election staff and the Printer that is designated to print all required ballots in all ballot formats.

Election Supplies

Unisyn offers all election supplies required to conduct a successful election. Whether you require ballots of any type, voting booths, ballot boxes, vote-here signs, sample ballots, precinct kits, security seals and miscellaneous expendable supplies, we can accommodate any need.

Unisyn is a Different Kind of Company!

We understand that there are many dynamics involved in running a successful election. For instance, ballots that violate basic design principles can cause votes to be lost. That is why we partner with you to collaboratively design and deliver printed materials, along with staff training and support materials that are tailored to achieve success. Using our expertise and leading-edge technology, we help clients to instill voter confidence, while delivering optimal service and enhancing security. Contact our Election Specialists today to learn more!