United States Election Assistance Commission

2002 VSS

EAC

CERTIFIED

Certificate of Conformance

Premier Assure 1.2
Premier Election Solutions

The voting system identified on this certificate has been evaluated at an accredited voting system testing laboratory for conformance to the *2002 Voting System Standards (2002 VSS)*. 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: Assure

Model or Version: Version 1.2

Name of VSTL: iBeta Quality Assurance

EAC Certification Number: PES-Assure1.2

Date Issued: August 6, 2009

Executive Director, U.S. Election Assistance Commission

Scope of Certification Attached

Scope of Certification

Manufacturer: **Premier Election Solutions**   *Product* : **Assure 1.2**

Laboratory: **iBeta Quality Assurance**   *Certificate*: **PES-Assure1.2**   *Standard*: **VSS 2002**   *Date*: **08/6/2009**

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.
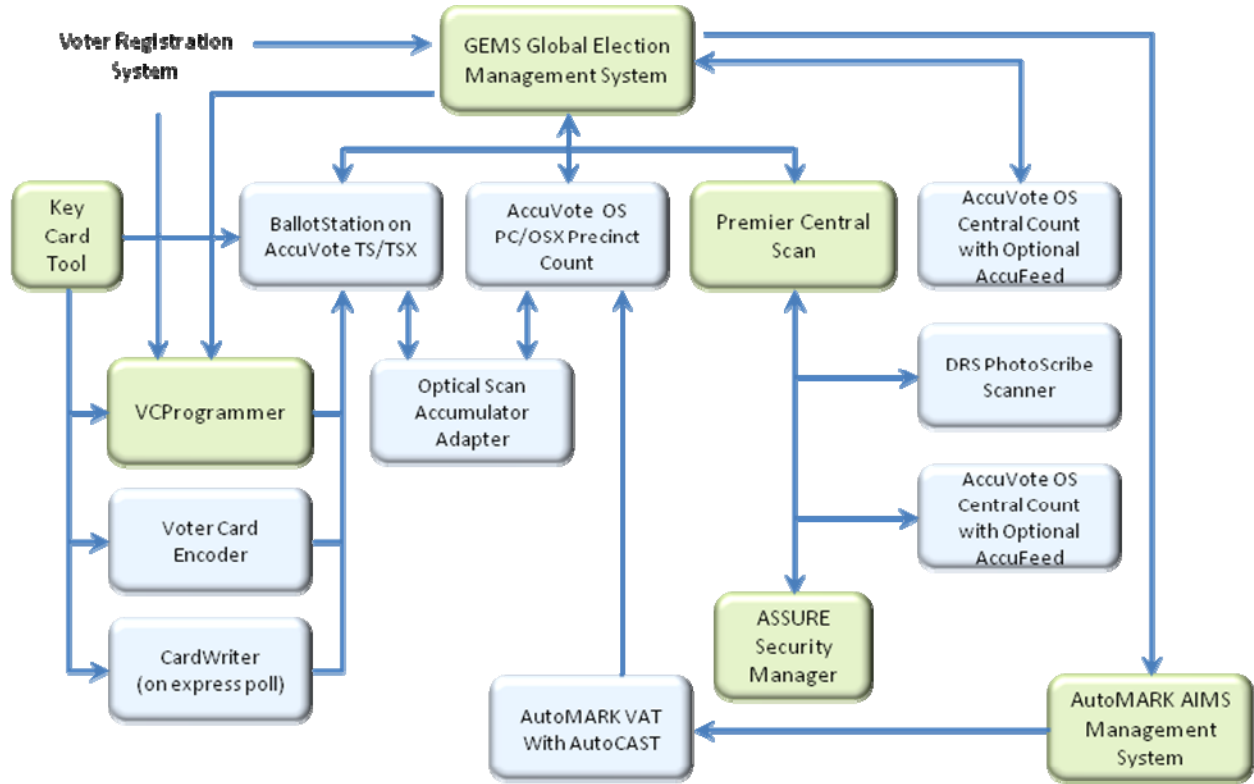
Representation of EAC Certification

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.

Language capability:

In addition to English, the voting system has the capability of presenting the ballot, ballot selections, review screens and instructions in Spanish, Chinese, Filipino, Japanese, Korean, Vietnamese, French and Haiti Creole. Other languages may be optionally created and installed.

Components Included:

This section provides information describing the components and revision level of the primary components included in this Validation. Green items in the diagram are software only products.

System Component	S/W or F/W Revision	H/W Revision	Evaluated Operating System or COTS	Comments
Ballot Preparation and Central Count				
GEMS	1.21.5		PowerEdge 2900 Display Adapter ATI ES1000 Windows XP SP3 Dimension 3100 Model DCSM Display Adapter Intel® 82915G/GV/910 Windows XP SP3 PowerEdge 1800 Display Adapter RADEON 7000 series Windows Server 2003 SP2	
ASSURE Security Manager	1.2.5		Dimension 3100 Model DCSM Display Adapter Intel® 82915G/GV/910 Windows XP SP3	

System Component	S/W or F/W Revision	H/W Revision	Evaluated Operating System or COTS	Comments
ABasic Report Files	2.2.4			Installed on AccuVote-OS/OSX and AccuVote-TS/TSX
AutoMARK AIMS	1.3 (MDE 1.3.572, Template 1.3.572)		PowerEdge 2900 Display Adapter ATI ES1000 Windows XP SP3	
Key Card Tool	4.7.8		Same as GEMS	
Premier Central Count Scan	2.2.5		PowerEdge 2900 Display Adapter ATI ES1000 Windows XP SP3	
Photoscribe PS900 iM2 and PS960			Windows XP SP3	COTS scanner from DRS
Polling Place				
VCProgrammer	4.7.8		Same as GEMS	
Voter Card Encoder	1.3.3			Spryus
ExpressPoll CardWriter	1.1.6	Model 4000 Model 5000		ADVANTECH
AccuVote-OS Precinct Count				
AccuVote-OS Models A, B, C, and D	1.96.13			Also Ballot Box
AccuVote-OS Central Count				
AccuVote-OS Models A, B, C, and D	2.0.15			
AccuFeed Model A		Rev E		
AccuVote-OSX				
AccuVote-OSX Model A	1.2.6		Windows CE 500.4.1 Boot loader 1.3.11	Also Ballot Box
BallotStation				
AccuVote-TS R6 Model A and B	4.7.8		Windows CE 300.3.5 Boot loader 1.3.11	
OSAA		Model A		Optional
UAID		Model A		Optional
AccuVote-TSX Model A, B, C, D	4.7.8		Windows CE 410.3.10 Boot loader 1.3.11	
AVPM	3.0.3	Model A		Optional
OSAA		Model A		Optional
UAID		Model A		Optional
Optical Scanner				

System Component	S/W or F/W Revision	H/W Revision	Evaluated Operating System or COTS	Comments
AutoMARK VAT Model A100, A200, A300	1.3 PAVR (Build 1.3.3460)		Windows CE 5.00.20	Firmware for the AutoMARK with optional AutoCast that supports Audio Only
AutoMARK VAT Model A100, A200, A300	1.3 PVR (Build 1.3.3460)		Windows CE 5.00.20	Firmware for the AutoMARK with optional AutoCast that supports Audio and Visual
Other				
Visually Impaired Ballot Station (VIBS) Keypad and Headset				
Universal ADA Interface Device (UAID) with ADA switch kit or Sip & Puff				
Privacy Filter		3M		
Smart Card Terminal		ST 100 ST 120		SecureTech
Finger Printer Reader U.are.U® 4000 and 4500				DigitalPersona
Dual Speed 160 Port hub				3Com
Transport Printer				DRS
Printer		LP440C		Ricoh

System Limitations

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

Characteristic	Limiting Component	Limit	Comment
Ballots			
Maximum Ballots or Cards1 in Election	AccuVote-OS/OSX	8,000	Typical 6,000
Maximum Ballot Cast per Machine		15,000	Typical 2,000
Precincts			
Maximum Precincts in Election	AccuVote-OS/OSX	5,000	Typical 1,000
Maximum Number of Races per Base unit		500	Typical 100
Races			
Maximum Races in Election		8,000	Typical 1,000
Maximum Candidates in a Race		400	Typical 20
Maximum Candidates/ Counters in Election		20,000	Typical 5,000

Characteristic	Limiting Component	Limit	Comment
Vote Centers			
Maximum Precincts per Vote Center		5,000	Typical 1,000
Maximum Number of Ballot Styles per Vote Center		8,000	Typical 4,000
Maximum Number of Vote Centers		10,000	Typical 2,000
Maximum Number of Memory Cards per Vote Center		50	Typical 20
Jurisdictional			
Maximum Number of Voter Group Categories		2	Typical 2
Maximum Number of Voter Groups per Category		50	Typical 10
GEMS Data Base File Size		2 GB	

AccuVote-OS Unique Limitations

#	Limitation
1	Maximum number of card styles per machine is approximately 50 but is dependent on content
2	Maximum number of precincts per machine is approximately 16 but is dependent on content
3	Maximum number of races baseunit per machine is approximately 100 but is dependent on content
4	Maximum number of races machine is approximately 250 but is dependent on content
5	Maximum number of candidates per machine is approximately 500 but is dependent on content.

FootNote 1) "Ballot" refers to an electronic ballot that can be displayed on an AccuVote-TS R6 or AccuVote-TSX touch screen device; "card" refers to a paper ballot that can be scanned on an AccuVote-OS, AccuVote-OSX or DRS PhotoScribe PS900 iM2/PS960 ballot scanner

Functionality

2002 VSS Supported Functionality Declaration Assure 1.2

Feature/Characteristic	Yes/No	Comment
Voter Verified Paper Audit Trails		
VVPAT	Yes	
Accessibility (vol. 1. sect. 2.2.7)		
Forward Approach	Yes	
Parallel (Side) Approach	Yes	
Closed Primary (vol. 1. sect. 2.2.8.2)		
Primary: Closed	Yes	
Open Primary (vol. 1. sect. 2.2.8.2)		
Primary: Open Standard (provide definition of how supported)	Yes	
Primary: Open Blanket (provide definition of how supported)	Yes	
Partisan & Non-Partisan: (vol. 1. sect. 2.2.8.2)		
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: (vol. 1. sect. 2.2.8.2)		
Write-in Voting: System default is a voting position identified for write-ins.	Yes	

Feature/Characteristic	Yes/No	Comment
Write-in Voting: Without selecting a write in position.		
Write-in: With No Declared Candidates	Yes	
Write-in: Identification of write-ins for resolution at central count		
Primary Presidential Delegation Nominations & Slates: (vol. 1. sect. 2.2.8.2)		
Primary Presidential Delegation Nominations: Displayed delegate slates for each presidential party	Yes	
Slate & Group Voting: one selection votes the slate.	Yes	
Ballot Rotation: (vol. 1. sect. 2.2.8.2)		
Rotation of Names within an Office; define all supported rotation methods for location on the ballot and vote tabulation/reporting	Yes	
Straight Party Voting: (vol. 1. sect. 2.2.8.2)		
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: (vol. 1. sect. 2.2.8.2)		
Cross party endorsements, multiple parties endorse one candidate.	Yes	
Split Precincts: (vol. 1. sect. 2.2.8.2)		
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.	Yes	
Split Precincts: Reporting of voter counts (# of voters) to the precinct split level; Reporting of vote totals is to the precinct level	Yes	Precinct Level Only
Vote N of M: (vol. 1. sect. 2.2.8.2)		
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: (vol. 1. sect. 2.2.8.2)		
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 2nd contest.)	Yes	
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 2nd contest.)	Yes	Overturned - US District Court 7/29/03: CA Election Code sect. 11383
Cumulative Voting (vol. 1. sect. 2.2.8.2)		

Feature/Characteristic	Yes/No	Comment
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.		
Ranked Order Voting (vol. 1. sect. 2.2.8.2)		
Ranked Order Voting: Voters can write in a ranked vote.		
Ranked Order Voting: A ballot stops being counting when all ranked choices have been eliminated		
Ranked Order Voting: A ballot with a skipped rank counts the vote for the next rank.		
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		
Ranked Order Voting: A ballot with two choices ranked the same, stops being counted at the point of two similarly ranked choices.		
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.		
Provisional or Challenged Ballots (vol. 1. sect. 2.2.8)		
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	Yes	
Provisional/Challenged Ballots: Provisional ballots maintain the secrecy of the ballot.	Yes	
Overvotes (vol. 1. sect. 4.4.4) Must support for specific type of voting system		
Overvotes: P & M: Overvote invalidates the vote. Define how overvotes are counted.	Yes	
Overvotes: DRE: Prevented from or requires correction of overvoting.	Yes	
Overvotes: If a system does not prevent overvotes, it must count them. Define how overvotes are counted.	Yes	
Overvotes: DRE systems that provide a method to data enter absentee votes must account for overvotes.		
Undervotes (vol. 1. sect. 4.4.4)		
Undervotes: System counts undervotes cast for accounting purposes	Yes	
Blank Ballots (vol. 1. sect. 2.4.3.3, 3.2.5.1.2, 3.2.5.1.3, & 4.4.4)		
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	

Feature/Characteristic	Yes/No	Comment
Display/Printing Multi-Lingual Ballots (vol. 1. sect. 2.3.1.3.1.a)		*Must support one*
Spanish	Yes	
Alaska Native (Other Group specified)		Optionally Created per Customer
Aleut		
Athabascan		
Eskimo		
Native (Other Group Specified)		
Chinese	Yes	
Filipino	Yes	
Japanese	Yes	
Korean	Yes	
Vietnamese	Yes	
Apache		Optionally Created per Customer
Cent/So American		
Cheyenne		
Chickasaw		
Choctaw		
Navajo		
Other Tribe-Specified		
Paiute		
Pueblo		
Seminole		
Shoshone		
Sioux		
Tohono O'Odham		
Tribe not specified		
Ute		
Yaqui		
Yuman		
French	Yes	
Haiti Creole	Yes	
Demonstrates the voting system capability to handle the designated language groups. (vol. 1. sect. 2.3.1.3.1.a)		
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		Optionally Created per Customer

Engineering Change Orders (ECO's) included in the Certified Products

Date	ECO	Manufacturer
May 22 2009	EC# A2322	Premier Election Systems
June 1 2009	EC# AD586	Premier Election Systems
July 9 2009	EC# AD813	Premier Election Systems
Mar 24 2008	EC# 0362	Premier Election Systems
July 20 2009	EC# AC285	Premier Election Systems