

AGENDA MATERIAL

DATE 10/4/22 ITEM NO. RA16



MEMORANDUM

Date: October 7, 2022

To: The Honorable Chair and Members
Pima County Board of Supervisors

From: Jan Lashar 
County Administrator

Re: **Board of Supervisors October 4, 2022 Meeting - Agenda Item 16. 2022 Primary Election After Action Report - Additional Information**

During discussion about the 2022 Primary Election After Action Report, questions were raised about the certification of the voting systems. Attached please find a Memorandum from Elections Director Constance Hargrove, which includes a copy of the Secretary of State's Certified Vote Tabulation Equipment list, a list of equipment certified by county, and the equipment list submitted to the Secretary of State by Pima County for the primary and general elections.

The equipment used by Pima County for the primary and general elections was certified for use by the Arizona Secretary of State.

JKL/anc

Attachment

c: Carmine DeBonis, Jr., Deputy County Administrator
Francisco García, MD, MPH, Deputy County Administrator and Chief Medical Officer
Steve Holmes, Deputy County Administrator
Constance Hargrove, Director, Elections

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ELECTIONS DEPARTMENT

PIMA COUNTY GOVERNMENT
6550 SOUTH COUNTRY CLUB RD., TUCSON, AZ 85756
(520) 724-6830 FAX (520) 724-6870

Date: October 6, 2022

TO: Jan Leshar
County Administrator

FROM: Constance Hargrove
Elections Director

RE: Update October 4 Board of Supervisors Meeting – Voting Equipment Certification

The Help America Vote Act (HAVA) of 2002 mandated the Election Assistance Commission (EAC) to provide certification, decertification, and recertification of voting systems and the accreditation of voting system testing laboratories¹. The Commission creates Voluntary Voting System Guidelines (VVSG) to test voting equipment.

In addition, the A.R.S. §16-442(B) requires the certification of all voting equipment according to state and federal law before use in any election for federal, state, or county office. The Secretary of State (SOS) reviews system documentation and/or conducts a demonstration and functionality test.² Any upgrades or modifications to an existing voting system require recertification. If the upgrade or modification is de minimis, no recertification is required. Arizona uses voting systems that have been certified by the EAC.

Pima County utilizes two types of voting equipment manufactured by Election Systems and Software (ES&S), the ExpressVote ballot marking device and the DS850 digital scanner. Both systems are certified by the Secretary of State. The County must submit the voting equipment model and firmware type to the SOS before each election.

I am attaching a copy of the Secretary of State's Certified Vote Tabulation Equipment list, a list of equipment certified by county, and the equipment list submitted to the SOS by Pima County for the primary and general elections.

Attachments

¹ The U.S. Elections Assistance Commission – Testing and Certification Program

² Arizona Secretary of State – Voting Equipment Certification



Arizona Secretary of State
Certified Vote Tabulating Equipment
Pursuant to A.R.S. § 16-442

Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
Diebold	GEMS 1-18-24 Voting System *See original certification 11/2005	EMP Model D software (4.6.2)	AccuVote-TSX DRE Model D (4.6.4) ExpressPoll 5000 Electronic Poll Book (CardWriter (1.0) component only) Election Media Processor (EMP) Model D software (4.6.2)	N-1-06-22-22-003 N-1-06-22-22-004 N-1-06-22-22-005	6/15/2007
Dominion	EMS 5.5.32.4	EMS-Election Event Designer (5.5.32.4) EMS- Results Tally & Reporting (5.5.32.4) EMS-Audio Studio (5.5.32.4) EMS-Data Center Manager (5.5.32.4) EMS-Application Server (5.5.32.4) EMS-Network Attached Storage (5.5.32.4) EMS-Database Server (5.5.32.4) EMS-Election Data Translator (5.5.32.4) EMS-Adjudication (5.5.32.1) ImageCast Voter Activation (ICVA) (5.5.32.4) ImageCast Central (ICC) (5.5.32.5) ImageCast Precinct2 (ICP2) (5.5.1.8) ImageCast X (ICX) (5.5.13.2)	ICVA Smart Card Reader (ACR39U) ICC Scanner (Canon Dr-G1130) ICC Scanner (InoTec HiPro 821) ICP2 Hardware (PCOS-330A) Ballot Box-Stacking (ICP2) (PCOS-350A) ICX Classic Hardware (Avalue SID-21V-Z37) ICX BMD Printer (HP M402dne) ICX BMD UPS (APC SMT1500C) Accessible Tactile Interface USB (ATI for ICP2 & ICX) (Rev.A)	<u>DVS-DemSuite5.5-B</u>	11/05/2019
ES&S	EVS 6.0.4.0	ElectionWare (5.0.4.0)	ExpressVote hardware version 1.0 (firmware version 1.5.2.0) ExpressVote hardware version 2.1 (firmware version 2.4.5.0) DS200 hardware versions 1.2 & 1.3, (firmware version 2.17.4.0) DS450 hardware version 1.0 (firmware version 3.1.1.0) DS850 hardware version 1.0 (firmware version 3.1.1.0)	<u>ESSEVS6040</u>	11/05/2019

This is a summary of the vote tabulating equipment certified by the Secretary of State since January 1, 2006.
Copies of the actual certifications can be obtained by contacting the Secretary of State's office.



Arizona Secretary of State
Certified Vote Tabulating Equipment
Pursuant to A.R.S. § 16-442

Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
ES&S	EVS 6.0.2.1.	ElectionWare (5.0.2.0)	ExpressVote hardware version 1.0 (firmware version 1.5.1.0) ExpressVote hardware version 2.1 (firmware version 2.4.3.0) DS200 hardware versions 1.2 & 1.3, (firmware version 2.17.0.0) DS450 hardware version 1.0 (firmware version 3.1.0.0) DS850 hardware version 1.0 (firmware version 3.1.0.0)	<u>ESSEVS6021</u>	05/01/2019
ES&S	EVS 5.2.2.0	ElectionWare (4.7.1.1) Election Reporting Manager (ERM) (8.12.1.1) Event Log Service (1.5.5.0) Removable Media Service (1.4.5.0) ExpressVote Previewer (1.4.1.2) VAT Previewer (1.8.6.1)	* ExpressVote hardware version 1.0 (firmware version 1.4.1.2) ExpressVote Kiosk hardware version 1.0 DS200 hardware versions 1.2.1, 1.2.3, & 1.3 (firmware version 2.12.2.0) AutoMARK A100 hardware version 1.0 (firmware version 1.8.6.1) AutoMARK A200 hardware version 1.1 (firmware version 1.8.6.1) AutoMARK A300 hardware version 1.3 (firmware version 1.8.6.1) DS850 hardware version 1.0 (firmware version 2.10.2.0) DS450 hardware version 1.0 (firmware version 3.0.0.0) Plastic Ballot Box hardware versions 1.2, 1.3 Metal Ballot Box with/without Diverter hardware versions 1.0, 1.1, 1.2	<u>ESSEVS5220</u>	01/08/2018 * ExpressVote hardware version 1.0 (firmware version 1.4.1.2) is conditionally certified through January 2020.

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Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
ES&S	EVS 5.2.1.0	ElectionWare (4.7.1.0) Election Reporting Manager (ERM) (8.12.1.0) Event Log Service (1.5.5.0) Removable Media Service (1.4.5.0) VAT Previewer (1.8.6.0)	ExpressVote hardware version 1.0 (firmware version 1.4.1.0) ExpressVote Kiosk hardware version 1.0 DS200 hardware versions 1.2.1, 1.2.3, & 1.3 (firmware version 2.12.1.0) AutoMARK A100 hardware version 1.0 (firmware version 1.8.6.0) AutoMARK A200 hardware versions 1.1, 1.3 (firmware version 1.8.6.0) AutoMARK A300 hardware version 1.3 (firmware version 1.8.6.0) DS850 hardware version 1.0 (firmware version 2.10.1.0) Plastic Ballot Box hardware versions 1.2, 1.3 Metal Ballot Box with/without Diverter hardware versions 1.0, 1.1, 1.2	<u>ESSEVS5210</u>	2/18/2016
ES&S	EVS 5.2.0.0	ElectionWare (4.6.0.0) Election Reporting Manager (ERM) (8.11.0.0) Event Log Service (1.5.5.0) Removable Media Service (1.4.5.0) VAT Previewer (1.8.6.0)	ExpressVote hardware version 1.0 (firmware version 1.4.0.0) DS200 hardware versions 1.2.1, 1.2.3, & 1.3 (firmware version 2.12.0.0) AutoMARK A100 hardware version 1.0 (firmware version 1.8.6.0) AutoMARK A200 hardware versions 1.1, 1.3 (firmware version 1.8.6.0) DS850 hardware version 1.0 (firmware version 2.10.0.0) Plastic Ballot Box hardware versions 1.2, 1.3 Metal Ballot Box with/without Diverter hardware versions 1.0, 1.1, 1.2	<u>ESSEVS5200</u>	12/17/2014

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Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
ES&S	EVS 5.0.0.0 Voting System	ElectionWare (4.1.0.0) Event Log Service (1.5.0.0) Election Reporting Manager (ERM) (8.6.0.0) Removable Media Service (1.4.0.0) VAT Previewer (1.8.1.0)	Paper Ballot (3.1.0.0) DS200 hardware version 1.2 (firmware version 2.7.0.0) DS850 hardware version 1.0 (firmware version 2.4.0.0) AutoMARK A100 hardware version 1.0 (firmware version 1.8.1.0) AutoMARK A200 hardware version 1.1 (firmware version 1.8.1.0) AutoMARK A200 hardware version 1.3 (firmware version 1.8.1.0) AutoMARK A300 hardware version 1.3 (firmware version 1.8.1.0) DS200 Plastic Ballot Box (hardware versions 1.2, 1.3) Metal Ballot Box with Diverter (hardware versions 1.0, 1.1, 1.2) Metal Ballot Box without Diverter (hardware versions 1.0, 1.1, 1.2)	<u>ESSEVS5000</u>	6/17/2013
ES&S	Model 650 with the Unity 3.0.1.1 Voting System *See original certification June 15, 2007	Unity 3.0.1.1	Model 650 (2.1.0.0) *Now included as part of the voting system suite previously certified on June 15, 2007	N-2-02-22-22-006 <u>ESSUnity3210</u>	10/19/2011
ES&S	Unity 3.0.1.1 / AutoMark 1.1 Voting System	Audit Manager (7.3.0.0) Election Data Manager (7.4.4.0) ES&S Image Manager (7.4.2.0) Hardware Programming Manager (5.2.4.0) Data Acquisition Manager (6.0.0.0) Election Reporting Manager (7.1.2.1) AutoMARK AIMS (1.2.18)	Model 100 Optical Scan Tabulator (5.2.1.0) AutoMARK Voter Assist Terminal (1.1.2258)	N-2-02-22-22-006 N- 2-02-22-22-007 <u>ESSUnity3210</u>	6/15/2007

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Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
Sequoia	AVC Edge 5.0/WinEDS 3.1.038	WinEDS (3.1.038) SPR Host (1.09)	AVC Edge II (5.0.24) VeriVote Printer (4.3) HAAT Model 50 Card Activator (1.0.79L) Optech Insight (APX K2.10, HPX K1.42) Optech Insight with Modem (APX K2.10, HPX K1.42, CPX K1.14) 400-C/WinETP (3.00P/1.12.4) Memory Pack Reader (MPR) (2.15)	N-1-07-22-22-003	8/1/2006
Sequoia	WinEDS 3.1.074 / AVC Edge 5.0 Voting System	WinEDS (3.1.074) SPR Host (1.0.10)	AVC Edge II (5.0.31) with VeriVote VVPAT (4.3) & Edge Audio Unit (5.0 Rev. C) HAAT Model 50 Card Activator (2.1.18) Optech Insight (APX K2.12, HPX K1.44) Optech Insight with Modem (APX K2.12, HPX K1.44, CPX K1.14) 400-C/WinETP (3.00P/1.14.3) Memory Pack Reader (MPR) (2.15)	N-1-07-22-22-004	6/15/2007
Sequoia	WinEDS 3.1.074 / AVC Edge 5.0 Voting System	WinEDS (3.1.074)	*WinEDS Election Reporting (1.1.7.0) *WinEDS Election Results (1.1.1.0) *EDGE2plus Model 300 DRE (1.2.33)	N-1-07-22-22-004	11/19/2007
*Additional components of the previously certified voting system					

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Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
Unisyn	OpenElect Voting System 2.1	Ballot Layout Manager (2.1) Election Manager (2.1) Tabulator Client (2.1) Tabulator (2.1) Tabulator Reports (2.1) Validator (2.1) Scripter (2.1) Common (2.1) OCS Installer (2.1) Regkey Builder (2.1) OVCS Application (2.1) Unisyn Secure Library (2.1) Logger (2.1) Auditor (2.1)	OVO hardware (version 2.1) OVI-VC (version 2.1) OVCS (version 2.1) OVCSmini (version 2.1) FVT (version 2.1)	UNS10121966-2.1	05/27/2020
Unisyn	OpenElect Voting System 2.0.A	Ballot Layout Manager (2.0.A) Election Manager (2.0.A) Tabulator Client (2.0.A) Tabulator (2.0.A) Tabulator Reports (2.0.A) Validator (2.0.A) Scripter (2.0.A)	OVO hardware revisions A and E (software version 2.0.A) OVI-VC hardware revisions A and B (software version 2.0.A) OVCS hardware revision ImageFORMULA DR-X10C & M160 (software version 1.3) OVCSmini (software version 2.0.A) FVT hardware revision A (software version 2.0.A)	UNS10121966-2.0.A	9/14/2018

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Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
Unisyn	OpenElect 1.3 Voting System	Ballot Layout Manager (1.3) Election Manager (EM) (1.3) Software Server (SS) (1.3) Election Server (ES) (1.3) Tabulator Client (TC) (1.3) Tabulator (Tab) (1.3) Tabulator Reports (TR) (1.3) Scripter (1.3) Validator (1.3)	OVO hardware revisions A and E (software version 1.3) OVI-7 hardware revision F (software version 1.3) OVI-VC hardware revisions A and B (software version 1.3) OVCS hardware revision v. 1.3 (software version 1.3) Ballot Box - Plastic (hardware version 1.1) Ballot Box - Portable (hardware version 1.2) Ballot Box - Plastic (hardware version 1.3)	04211950-1.3	7/2/2015
Unisyn	OpenElect 1.2 Voting System	Ballot Layout Manager (1.2) Election Manager (EM) (1.2) Software Server (SS) (1.2) Election Server (ES) (1.2) Tabulator Client (TC) (1.2) Tabulator (Tab) (1.2) Tabulator Reports (TR) (1.2) Scripter (1.2) Validator (1.2)	OVO hardware revision E (software version 1.2) OVI-7 hardware revision F (software version 1.2) OVI-VC hardware revisions A and B (software version 1.2) Ballot Box - Plastic (hardware version 1.1) Ballot Box - Portable (hardware version 1.2)	UNS10121966-OE-1.2	5/23/2014

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2022 Election Cycle / Voting Equipment*

County	System Type	Manufacturer	Maintenance	Model	Firmware Type	Software Type
Apache	Accessible Ballot Marking Device Central Count - Digital Scan Central Count - Digital Scan	ES&S	ES&S	ExpressVote (BMD) DS450 DS850	1.5.2.1 3.1.1.0 3.1.1.0	ElectionWare 6.0.4.0 ElectionWare 6.0.4.0 ElectionWare 6.0.4.0
Cochise	Accessible Ballot Marking Device Digital Scan Central Count - Digital Scan Central Count - Digital Scan	ES&S	ES&S	ExpressVote (BMD) DS200 DS450 DS850	1.5.2.1 2.17.4.0 3.1.1.0 3.1.1.0	ElectionWare 6.0.4.0 ElectionWare 6.0.4.0 ElectionWare 6.0.4.0 ElectionWare 6.0.4.0
Coconino	Accessible Ballot Marking Device Central Count - Digital Scan	ES&S	ES&S	ExpressVote (BMD) DS450	2.4.5.1 3.1.1.0	ElectionWare 6.0.4.0 ElectionWare 6.0.4.0
Gila	Accessible Ballot Marking Device Central Count - Digital Scan	ES&S	ES&S	ExpressVote (BMD) DS850	1.5.2.0 3.1.1.0	ElectionWare 5.0.4.0 ElectionWare 5.0.4.0
Graham	Accessible Ballot Marking Device Central Count - Digital Scan	ES&S	ES&S	ExpressVote (BMD) DS850	1.5.2.1 3.1.1.0	ElectionWare 5.0.4.0 ElectionWare 5.0.4.0
Greenlee	Accessible Ballot Marking Device Digital Scan Central Count - Digital Scan	ES&S	ES&S	ExpressVote (BMD) DS200 DS450	1.5.2.0 2.17.4.0 3.1.1.0	ElectionWare 5.0.4.0 ElectionWare 5.0.4.0 ElectionWare 5.0.4.0
La Paz	Accessible Ballot Marking Device Digital Scan Central Count - Digital Scan	ES&S	ES&S	ExpressVote (BMD) DS200 DS450	1.5.2.1 2.17.4.0 3.1.1.0	ElectionWare 6.0.4.0 ElectionWare 6.0.4.0 ElectionWare 6.0.4.0
Maricopa	Accessible Ballot Marking Device Accessible Ballot Marking Device Ballot Marking Device Printer Digital Scan Central Count - Digital Scan Central Count - Digital Scan	Dominion	Dominion	ImageCast X (BMD) ICX ATI Unit (BMD) HP LaserJet Pro M402dne Imagecast Precinct 2 ICC Cannon DR-G1130 ICC Interscan HiPro 821	5.5.13.2 181-000036 Rev. A Unmodified COTS 5.5.18 Unmodified COTS Unmodified COTS	Democracy Suite 5.5b Democracy Suite 5.5b Democracy Suite 5.5b Democracy Suite 5.5b Democracy Suite 5.5b Democracy Suite 5.5b
Mohave	Accessible Ballot Marking Device Central Count - Digital Scan	ES&S	ES&S	ExpressVote (BMD) DS850	2.4.5.1 3.1.1.0	ElectionWare 6.0.4.0 ElectionWare 6.0.4.0
Navajo	Accessible Ballot Marking Device Digital Scan Central Count - Digital Scan Central Count - Digital Scan	ES&S	ES&S	ExpressVote (BMD) DS200 DS450 DS850	2.4.5.1 / 1.5.2.1 2.17.4.0 3.1.1.0 3.1.1.0	ElectionWare 6.0.4.0 ElectionWare 6.0.4.0 ElectionWare 6.0.4.0 ElectionWare 6.0.4.0
Pima	Accessible Ballot Marking Device Central Count - Digital Scan	ES&S	ES&S	ExpressVote (BMD) DS850	2.4.5.1 2.4.0.0	ElectionWare 6.0.4.0 ElectionWare 6.0.4.0
Pinal	Accessible Ballot Marking Device Central Count - Digital Scan	ES&S	ES&S	ExpressVote (BMD) DS850	2.1.10.0 1.0.0.0	ElectionWare 5.0.4.0 ElectionWare 5.0.4.0
Santa Cruz	Accessible Ballot Marking Device Central Count - Digital Scan	ES&S	ES&S	ExpressVote (BMD) DS450	1.5.2.1 3.1.1.0	ElectionWare 6.0.4.0 ElectionWare 6.0.4.0
Yavapai	Accessible Ballot Marking Device Central Count - Digital Scan	Unisyn	Unisyn	FVT OVCS	OpenElect 2.2 1.55	OCS OpenElect 2.2 OCS OpenElect 2.2
Yuma	Accessible Ballot Marking Device Digital Scan Central Count - Digital Scan	ES&S	ES&S	ExpressVote (BMD) DS200 DS450	1.5.2.1 2.17.4.0 3.1.1.0	ElectionWare 6.0.4.0 ElectionWare 6.0.4.0 ElectionWare 6.0.4.0

*This list may be updated prior to the next election.
Revised August 2022

Arizona Secretary of State

ADDITIONAL REPORTING FORMS

Equipment, Software, Firmware, and Hash Code Certification Statement

I, Constance Hargrove certify by affixing my signature to this document that all election equipment and firmware, as well as all election management system software to be used in the Primary Election to be held on August 2, 2022 IN Pima County has been certified for use by the Arizona Secretary of State and that I have compared the hash code on file with the National Institute of Science and Technology (NIST) or the Arizona Secretary of State's Office to the hash code of the election management system software to be used in this election and certify that the numbers are identical. The following is a list of the equipment, firmware, and election management system software to be used in the aforementioned election:

VOTING UNITS

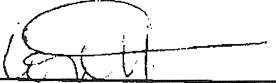
Manufacturer	Model	Firmware Version
<u>Election Systems & Software</u>	<u>ExpressVote</u>	<u>2.4.5.1</u>
<u></u>	<u></u>	<u>1.5.2.1</u>
<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>

CENTRAL COUNT UNITS

Manufacturer	Model	Firmware Version
<u>Election Systems & Software</u>	<u>DS850 Version 1.0</u>	<u>2.4.0.0</u>
<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>

ELECTION MANAGEMENT SOFTWARE

Manufacturer	Product Name	Version
<u>Election Systems & Software</u>	<u>Election Systems & Software Voting System</u>	<u>6.0.4.0</u>
<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>



Officer in Charge of Elections Signature

5/27/22

Date

Revised

ADDITIONAL REPORTING FORMS

Equipment, Software, Firmware, and Hash Code Certification Statement

I, Constance Hargrove certify by affixing my signature to this document that all election equipment and firmware, as well as all election management system software to be used in the General Election to be held on November 8, 2022 IN Pima County has been certified for use by the Arizona Secretary of State and that I have compared the hash code on file with the National Institute of Science and Technology (NIST) or the Arizona Secretary of State's Office to the hash code of the election management system software to be used in this election and certify that the numbers are identical. The following is a list of the equipment, firmware, and election management system software to be used in the aforementioned election:

VOTING UNITS

Manufacturer	Model	Firmware Version
<u>Election Systems & Software</u>	<u>ExpressVote</u>	<u>2.4.5.1</u>
<u></u>	<u></u>	<u>1.5.2.1</u>
<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>

CENTRAL COUNT UNITS

Manufacturer	Model	Firmware Version
<u>Election Systems & Software</u>	<u>DS850 Version 1.0</u>	<u>2.4.0.0</u>
<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>

ELECTION MANAGEMENT SOFTWARE

Manufacturer	Product Name	Version
<u>Election Systems & Software</u>	<u>Election Systems & Software Voting System</u>	<u>6.0.4.0</u>
<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>



Officer in Charge of Elections Signature

09/22/2022

Date