

## Idaho Certified Voting Systems As of July 20, 2009

Vendor	Voting System/System Component	Software	Hardware/Firmware	System ID #/ Qualified to 1990 or 2002 Standards	NASED Final Report Date	Idaho Certification Date
ES&S	M650 Central and M100 Precinct Count Tabulators, AutoMARK Ballot Marking Device	N/A	Tested and de minimus Engineering Change Orders (ECOs).	N/A	N/A	July 20, 2009 Administrative certification of Engineering Change Orders (ECOs)
ES&S	M650 Central Count Tabulator	N/A	Hardware Revision 1.1 to 1.2	N/A	N/A	August 26, 2008 Administrative Certification of hardware changes independent from current certified firmware
ES&S	Unity 3.0.1.1	Audit Manger v. 7.3.0.0 Election Data Manager v.7.4.4.0 Ballot On Line 1.2.0.0 ES&S Image Manager v.7.4.2.0 iVotronic Image Manager v.2.0.1.0 Optech Image Manager v.4.0.0.0 Hardware Programming Manager v.5.2.4.0 Data Acquisition Manager v. 6.0.0.0 Election Reporting Manager v. 7.1.2.1 AutoMARK AIMS 1.2.18	iVotronic DRE Firmware v. 9.1.6.0 & 9.1.6.1 Model 100 Optical Scan Precinct Ballot Counter Firmware v. 5.2.1.0 Model 650 v. 2.1.0.0 AutoMARK Voter Assist Terminal (VAT) HW Rev 1.1 - Firmware v. 1.1.2258 AutoMARK Voter Assist Terminal (VAT) HW Rev 1.0 - Firmware v. 1.1.2258 Real-Time Audit Log Printer Compact Flash Multi-card Reader/Writer ***Model 150/550 v. 2.1.2.0 Optech IV-C v. 1.06a and 1.07a Eagle v. 1.50 APS, 1.28 HPS, 1.02 CPS Eagle v. 1.52 APS, 1.30 HPS, 1.08a CPS *** NOTE: while the components listed in red have been tested with the Unity 3.0.1.0, they represent 1990 qualified legacy systems and	N-2-02-22-22-006 (2002)	8/31/2006	April 1, 2008 Administrative Certification of Legacy Equipment with Unity 3.0.1.1

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		(All Modules 2002)	as such remain 1990 qualified. Use of these units should be based on state and local testing and state law.			
ES&S	AutoMARK 1.1 with Unity 3.0.1.1	Election Data Manager, (EDM) version 7.4.4.0. ES&S Image Manager, (ESSIM) version 7.4.2.0. Hardware Programming Manager, (HPM) version 5.2.4.0. Data Acquisition Manager (DAM), version 6.0.0.0. Election Reporting Manager (ERM), version 7.1.2.1. Audit Manager, version 7.3.0.0.	M100 version 5.2.1.0. Precinct optical scan tabulator M650 version 2.1.0.0. Green Light sensor Central count optical scan tabulator	N-2-02-22-22-006 (2002)	August 31, 2006	April 30, 2007
		AutoMark Information Management System, (AIMS) version 1.2.18. AutoMark Voter Assist Terminal, (VAT) version 1.1.2258	ES&S AutoMark Voting System Release 1.1.2258	N-2-16-22-22-002(2002)	August 31, 2006	
ES&S AutoMARK Technical Systems LLC	ES&S AutoMARK Voting System	ES&S Unity v. 2.5 AutoMARK AIMS 1.1.10	Model 100 Optical Scan Precinct Ballot Counter Firmware v. 5.1.0.0-Unity 2.5  Model 100 Optical Scan Precinct Ballot Counter. Firmware v. 5.2.0.0- Unity 2.5  Model 650 Red light sensor Optical Scan Central Counter v. 2.1.0.0	N-1-16-22-22-001 (2002)	10/24/2005	04/25/2006

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ES&S	Unity 2.5	Audit Manager 7.3.0.0 Election Data Manager 7.3.0.0 ES&S Image Manager 7.3.0.0 Hardware Programming Manager 5.1.0.0 Data Acquisition Manager 6.0.0.0 Election Reporting Manager 7.0.0.0	Model 650 Central Ballot Scanner Firmware release 2.0.1.0  Model 100 Precinct Ballot Counter Firmware release 5.1.0.0	N-1-02-22-22-003 (2002)	10/19/2004 11/11/2004 1/9/2005	06/24/2005
ES&S. In partnership with AutoMARK Technical Systems LLC	ES&S AutoMARK Voting System Release 1.0	ES&S Unity v. 2.4.3 AutoMARK AIMS 1.09 (2002)	Model 100 Optical Scan Precinct Ballot Counter Firmware v. 5.0.0.0  Model 150/550 v. 2.1.1.0  Model 650 v. 1.2.0.0  Optech Eagle v. 1.50 APS, v. 1.28 HPS, CPS v. 1.02/C1.04  AutoMARK Voter Assist Terminal (VAT) v. 1.0 (2002)	N-2-14-22-12-001 (1990)	6/1/2005	06/24/2005
ES&S	Unity 2.4.3	<i>(changes from 2.4.2)</i> Program Manager v. 5.0.3.0 Data Acquisition Manager v. 5.0.3.1 Election Reporting Manager v. 6.4.3.0	Model 100 Optical Scan Precinct Ballot Counter Firmware v. 5.0.0.0 Model 150/550 v. 2.1.1.0 Model 650 v. 1.2.0.0 Optech IV-C v. 1.06a and 1.07a* Eagle v. 1.50 APS, v. 1.28 HPS, CPS v. 1.02/C1.04	N-1-02-21-21-002 (1990)	8-27-04	06/24/2005

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ES&S	Unity 2.4.2	Election Data Manager v. 7.2.1.0, Audit Manager v.7.0.2.0, Optech Image Manager 3.2.0.0, ESS Image Manager v. 7.2.0.0, Ballot On Line v. 1.0.0.0, Hardware, Programming Manager v. 5.0.2.0, Data Acquisition Manager v. 5.0.3.0, Election Reporting Manager v. 6.4.2.0	Model 100 Optical Scan Precinct Ballot Counter Firmware v. 5.0.0.0  Model 150/550 v. 2.1.0.0  Model 650 v. 1.2.0.0  Optech IV-C v. 1.06a and 1.07a*  Eagle v. 1.50  APS, v. 1.28 HPS, CPS v. 1.02/C1.04	N-1-02-12-11-001 (1990)	2/19/2004	06/24/2005
ES&S. Formerly AIS American Information Systems	AIS model 100 Vote Tally Visible light reader		Precinct count optical scan reader.			05/13/2002
ES&S. Formerly AIS American Information Systems	AIS 550 AIS 150	Unity 2.4.3 (1990)	Central count & Precinct count optical scan readers. Models 315 and 115 Originally certified in 1991 upgraded to models 150 and 550 – v. 2.1.1.0			04/13/1991
ES&S. Formerly Business Records Corporation (BRC)	Election Tabulation Program	E.T.P Election Tabulation Program				11/24/1986

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ES&S. Formerly Computer Election Systems. (BRC)	Votomatic Punch Card Ballot System					03/17/1971
Kenneth P. Hazlett	Punch Card Election Tabulation Network ETNet	ETNet	P.C., card reader and printer.			02/29/1988
Sequoia	EMS/AERO version 3.54.1	EMS/AERO version 3.54.1 Optech Ballot Wizard version 1.0 (2002) MPR version 2.15	Optech 3P Eagle APS.H1.52.980428.1040 CPS.H1.08A.980428.1150 HPS.D/H1.30.980428.1130  Optech Insight APX K2.06.021108.1600 CPX.J/K1.12.020412.1100 HPX.K/K1.40.021030.1110  Optech 400-C Ballot Counter WinETP 1.10.5 Memory Pack Receiver v. 2.15 (2002)	N-1-07-12-12-001 (1990)	2/1/2005	07/07/2005
Sequoia	WinEDS version 3.0.134	WinEDS version 3.0.134 (2002)	Sequoia 400C /WinETP 1.10.5 Sequoia AVC Edge Model II version 4.3.320 w. VeriVote Printer#  Sequoia AVC Edge Model I version 4.3.320 Card Activator v. 4.3.320	N-1-07-22-11-007 (1990)	5/19/2005	06/24/2005
Sequoia. Formerly BRC Business Records Corporation	OPTECH IV-C 200		Arrow optical scan reader			01/24/1992

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Vendor	Voting System/System Component	Software	Hardware/Firmware	System ID #/ Qualified to 1990 or 2002 Standards	NASED Final Report Date	Idaho Certification Date
Sequoia. Arrow Ballots. Formerly Business Records Corporation (BRC)	OPTECH IV-C 400  OPTECH III-P Eagle	Unity 2.4.3 (1990)	Central count & Precinct count Arrow optical scan readers. IV-C – v 1.06a/1.07a Eagle – v. 1.28/1.5			09/06/1990
			# Edge Version 4.3.320 includes a configuration in which the serial number of the voting machine has been removed from all hardcopy output generated by the VeriVote printer in order to ensure the secrecy of the ballot in jurisdictions where more than one machine is used. NASED.  The Optech systems tested and identified under this release are legacy systems/releases not independently qualified under ITA testing. Use of these units should be based on state and local testing. NASED.			

### Descriptions of Certified Voting Systems:

July 20, 2009      Election Systems and Software M650 central count tabulator, M100 precinct count tabulator and AutoMARK ballot marking device Engineering Change Orders (ECOs).

**ES&S** made a formal request for an administrative certification of engineering change orders (ECOs) for the systems above. After review of the required documents on file with the Secretary of State including formal application for administrative certification, and Independent Testing Reports from SysTest Labs, and as the engineering change orders specified do not impair accuracy, efficiency or capacity of the systems and does not require a new NASED number, the engineering change orders (ECOs) specified below are certified for use in Idaho as of July 20, 2009.

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ES&S M650 Engineering Change Orders: #667, #669, #677, #827

ES&S M100 Engineering Change Orders: #672, #679, #683, #685, #721, #732, #775, #000042, #000063, #000068, #000057, #00083, #000151, #000154, #000155, #000156, #000157, #000158, #000159, #000160, #000164, #000182, #000185.

ES&S AutoMARK Engineering Change Orders: #790, #794, #799, #810, #823.

August 26, 2008      Election Systems and Software M650 central count tabulator Hardware Revision 1.1 to 1.2.

**ES&S** made a formal request for an administrative certification for the above hardware revision. After review of the required documents on file with the Secretary of State including formal application for administrative certification, Engineering Change Orders, and Independent Testing Reports from SysTest Labs, and as the hardware changes specified are independent from the current certified firmware for the state of Idaho and does not require a new NASED number, the above mentioned system is certified for use in Idaho as of August 26, 2008.

Modifications, Hardware Revision 1.2, made to the hardware on the ES&S Model 650 central tabulator (“M650”) are specified below:

- Change of compact flash memory card, due to end of life of SanDisk brand.
- Change of peripheral printer, due to end of life.
- Change of Pick Motor Solenoid board, to improve static discharge levels.
- Change of UPS, due to availability.
- Change of label to meet 2005 VVSG standards.

April 1, 2008      Election Systems and Software **Unity 3.0.1.1 with Legacy Equipment: M150 Tabulator, Eagle Tabulator, the Optech IVC Tabulator and the Optech Image Manager.**

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**ES&S** made a formal request for an administrative certification for the above listed legacy equipment with already certified Unity 3.0.1.1. This upgrade reduces the number of false positives encountered when the tabulators check for marginal marks. This upgrade also allows ballots and coding for the legacy equipment to utilize the same Unity version as all other optical scan counties in the state.

April 30, 2007            Election Systems and Software **Unity 3.0.1.1 with AutoMARK 1.1 optical scan voting system.**

The **ES&S M650 2.1** is a central count optical scan tabulator that utilizes paper optical scan ballots marked by filling in an oval to indicate the voter's choices. Mark detection capabilities have been improved on the M650 with the latest upgrades. The primary modification was a change to the type of light source that is used to illuminate the ballot during scanning. The new sensors in the M650 employ a green light. This new light source provides an improved response to various types of marking devices including ballpoint pen inks and pencils. The system also improves scanner performance and reduces errors that may be caused by voter hesitation marks on a ballot, folds, dirt smudges and other ballot anomalies. Totals are saved on a zip disk which is removed from the unit and inserted in a reader for import into a laptop computer where results are combined and reported utilizing the Unity Data Acquisition Manager (DAM), and the Election Reporting Manager (ERM).

The **ES&S M100 5.2.1.0** is a precinct based optical scan tabulator that utilizes paper optical scan ballots marked by filling in an oval to indicate the voter's choices. The voter is immediately notified by an electronic sound that they have over voted or under voted thus providing an opportunity to review and correct their ballot before tabulation. Precinct tabulation is accomplished by the M100 and saved on three redundant PCMCIA memory cards. One card is transported to the county counting center and precinct totals are combined with other precincts utilizing the Unity Data Acquisition Manager (DAM), and reported through the Election Reporting Manager (ERM).

The **AutoMARK 1.1** voter assist terminal is a ballot marking device, no votes are stored in the machine. The marking device is used to meet the accessibility requirements of the Help America Vote Act for the blind and visually impaired. The voter uses a touch screen or Braille keypad with an audio ballot to indicate their choices. A review screen provides the voter an opportunity to review their ballot before the ballot is marked. The AutoMARK utilizes optical scan ballots identical to ballots used in counties using optical scan paper based systems. AutoMARK ballots may be tabulated on any optical scan tabulator certified for use in the State of Idaho. AutoMARK ballots are hand counted in counties using paper ballots. Counties that use

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punch card ballots also count AutoMARK ballots by hand and add totals into their accumulation and results programs. The firmware upgrade included in this version of the AutoMARK relaxes scanner tolerances to minimize “print on one side” errors and improve scanner recognition if the ballot is skewed when inserted into the device.

**Unity 3.0.1.1** is a suite of software products that integrates an election data base program (Election Data Manager, EDM), a graphics program for ballot design (ES&S Image Manager, ESSIM), an election coding program (Hardware Programming Manager, HPM), a program for accumulation (Data Acquisition Manger, DAM), a reporting program (Election Reporting Manager ERM), an audit program (Audit Manager), and a program that produces machine coding and audio ballot coding for the AutoMARK, (AutoMARK Information Management System AIMS). There were no upgrades to **Unity On-Line**, a limited on-line version of this suite of products.

April 25, 2006            Election Systems and Software in partnership with AutoMARK Technical Systems LLC.  
ES&S AutoMARK Voting System  
AutoMARK AIMS 1.1.10

AIMS v. 1.1.10, an upgrade from AIMS v. 1.09, provides for a seamless import interface in the election coding process from Unity suite 2.5.  
N-1-16-22-22-001 (2002).

June 24, 2005            Election Systems and Software.  
Unity 2.5

Software for use with the Model 650 central count tabulator and the Model 100 precinct ballot counter.

June 24, 2005            Election Systems and Software in partnership with AutoMARK Technical Systems LLC.  
AutoMARK Voting System.  
Unity v. 2.4.3 software.  
Aims 1.09 software.

The AutoMARK is a ballot marking device. Votes are not stored in the machine. The voter inserts an optical scan ballot into the device and makes selections on a touch screen. The device meets the requirement for a voter verifiable paper audit trail. The device is accessible to

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the persons with disabilities. Over voting is prevented. A review screen offers the voter the opportunity to change their vote before casting the ballot. When the voter casts the ballot, the AutoMARK marks the optical scan ballot. The voter may again review the ballot for correctness when it removed from the device.

The optical scan ballot can be counted by hand. On the precinct level ballots can be counted by a Model 100 tabulator, the older Model 150, a legacy machine, or the Optech Eagle, also a legacy machine. Ballots can be tabulated on the Model 650 central count tabulator or the older Model 550 central count tabulator, also a legacy device at this date. The precinct and central count tabulators can also be used for standard optical scan ballots.

**June 24, 2005**            **Election Systems and Software.**  
**Unity 2.4.3 software.**

Software for use with the Model 100 optical scan precinct counter and the Model 650 central count tabulator, the Optech IV-C central count tabulator and the Eagle III-P precinct count tabulator.

**June 24, 2005**            **Election Systems and Software.**  
**Unity 2.4.2 software.**

Software for use with the Model 100 and 150 precinct counters, the 550 and 650 central count tabulators, the Optech IV-C central count tabulator and the Eagle III-P precinct count tabulator.

**May 13, 2002**            **Election Systems and Software.**  
**AIS Model 100 Vote Tally System.** Formerly owned by American Information Systems (AIS).  
**Oval optical scan.**

The "AIS 100" is a precinct-based, voter-activated paper ballot counter and vote tabulator. Utilizing advanced Intelligent Mark Recognition (IMR) visible light scanning technology, the Model 100 is for jurisdictions utilizing precinct level voting and tabulation.

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**March 13, 1991**      **Election Systems and Software.**  
AIS 315 upgraded to the 550 Formerly owned by American Information Systems (AIS).  
AIS 115 upgraded to the 150  
**Oval optical Scan**

The "AIS-315" (upgraded to the "550") and the "AIS-115" (upgraded to the "150") are classified as Centralized voting systems using high-speed optical mark readers in counting centers to process paper ballots. The "550" weighs approximately 290 lb. and the "150" approximately 200 lb. The "550" overall dimensions are 54 inches long, 26 inches high, and 29 inches deep with the dimensions of the "150" being slightly smaller. Both the "550" and the "150" can be operated in a normal office environment with electrical services of 180 to 120 Volts AC power (10 amps per machine). An "electronic program board" is pre-programmed in accordance with specific parameters for each election. The program board is available only through A.I.S.

**November 24, 1986.**      **Election Systems and Software.**  
**E.T.P., Punch Card Election Tabulation Program.** Formerly owned by Business Records Corporation (BRC).

The E.T.P. is designed to count punch card ballots utilizing various formats including the 228 position votomatic card used in Idaho. The system consists of the IBM personal computer AT, XT or PC, a monitor, a card reader, a printer and ballot tabulation software. Since initial certification, Business Records Corporation's own GS/2 product offering has also been approved for use with the system instead of the IBM variables.

**March 17, 1971.**      **Election Systems and Software.**  
**"Votomatic" Punch Card Ballot System.** Formerly owned by Computer Election Systems (CES) and (BRC).

Complete self-contained voting station – utilizes standard IBM computer card as ballot. Ballot slides into slot at top of unit. Voting is accomplished by punching through the ballot card with an attached stylus. Candidates' names and issues are printed on a book ballot assembly in center of unit.

Ballot cards can be counted by any standard computing equipment or a small portable computer called the Ballot Tab, which can count all precinct ballots at one central location. A small version of the Ballot Tab is the Precinct Ballot Tab.

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February 29, 1988.      Kenneth P. Hazlett  
Punch Card Ballot Election Tabulation Network (ETNet).

The election Tabulation Network and stand alone PC is a system of Microsoft Windows applications that work together to allow the user to create the election database, count punch card ballots, and report results in printed, displayed, and Internet form. At the heart of the ETNet system is a spreadsheet that allows election data to be entered in a way that is both intuitive and visual.

The simplest ETNet system consists of one PC, one card reader, and a printer. More complex systems employ a network of PCs to support multiple card readers and/or results viewing stations. ETNet provides support for the Documentation compatible card reader using a proprietary, standard bus, adapter card and cable. ETNet supports the PDI card reader using the PDI serial cable.

June 24, 2005              Sequoia Voting Systems.  
Complete the Arrow Optical Scan Voting System  
EMS/AERO 3.54.1 software  
Optech 400-C central count tabulator/ WinETP v. 1.10.5 software  
Optech Insight precinct tabulator  
MPR v. 2.15 Memory Pack Receiver

An arrow optical scan system for use in the 5 counties using Arrow style ballots. The software is compatible with the older Optech III-P Eagle precinct tabulator, which uses infrared scanning technology, and the Optech Insight precinct tabulator and the Optech 400-C central count tabulator, which utilize visible light scanning technology.

June 24, 2005              Sequoia Voting Systems.  
Direct Recording Electronic Voting System  
AVC "EDGE" DRE v. 4.3.320  
WinEDS v. 3.0.134 software  
VeriVote printer  
Card Activator v 4.3.320

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The AVC "EDGE" DRE is a direct recording electronic voting system and votes are stored in the machine on 3 PCMCIA memory cards. The voter activates the device with an activation card provided by the poll worker and enters their votes on a touch screen. The system includes the "VeriVote" printer attached to the side of the DRE and meets the voter verified paper audit trail requirement. The device is accessible to persons with disabilities. Over voting is prevented. The voter may review their selections on a review screen before casting their ballot. After casting their ballot, the voter's selections are printed by the VeriVote printer under a clear plastic screen. The voter may again review and change their selections if they wish to. When the voter finally approves of their selections and casts their ballot the printed record of their selections rolls into the printer and is hidden from view.

Tabulation is accomplished by removing one of three memory cards from the device and inserting the memory card into a laptop computer running the EMS/AERO v 3.54.1 Election Management Software.

- January 24, 1992**      **Sequoia Voting Systems.**  
OPTECH IV-C 200. Formerly owned by Business Records Corporation (BRC).  
**Arrow Optical Scan Central Count Tabulator.**
- September 6, 1990**      **Sequoia Voting Systems.**  
OPTECH IV-C 400. Formerly owned by Business Records Corporation (BRC).  
**Arrow Optical Scan Central Count Tabulator**
- OPTECH III-P "Eagle"  
**Arrow Optical Scan Precinct Count Tabulator**

The Optech IV-C 400 & 200 is a personal computer based machine, which uses a DOS operating system and BRC's Election Tabulation System software to count and record the votes. Election Management System (EMS) application software is used to interface with ETP enabling the operator to create the election, define precincts, specify candidates and issues, and create ballot styles. With personal computer knowledge and with the aid of the EMS User's Guide programming an election should not be difficult.

The OPTECH IV-C 400 & 200 are for a central count. The OPTECH III-P Eagle is for use on the precinct level.

**Note:**              Computer Election Systems (CES) became Business Records Corporation, (BRC) in 1971.

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BRC & American Information Systems (AIS) merged into a new company, Election Systems & Software, (ES&S) November 20, 1997. ES&S or Sequoia Voting Systems can provide Arrow optical scan ballots, for the 5 counties currently using them, as well as voting devices, precinct tabulators and central count tabulators.

**Vendor Contact Information:**

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