United States Election Assistance Commission

Certificate of Conformance

Smartmatic VSR1 2.1

The voting system identified on this certificate has been evaluated at an accredited voting system testing laboratory for conformance to the *Voluntary Voting System Guidelines Version 2.0 (VVSG 2.0)*. 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: VSR1

Model or Version: 2.1

Name of VSTL: Pro V&V

EAC Certification Number: SMT-VSR1-21

Date Issued: November 26, 2025

Brianna Schletz, Executive Director

Scope of Certification Attached

Scope of Certification

Manufacturer: *Smartmatic*
System Name: *VSR1 2.1*
Certificate: *SMT-VSR1-21*
Laboratory: *Pro V&V*
Standard: *VVSG 2.0*
Date: *November 26, 2025*

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Introduction

This document describes the scope of the validation and certification of the **Smartmatic VSR1 2.1**. 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 component of a certified system is certified for use outside the certified configuration.
- A determination that the system or any component of the system is deemed accessible under federal civil rights laws such as the American with Disabilities Act (ADA).

Representation of EAC Certification

Manufacturers may not represent or imply that a voting system is certified unless they have 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

Smartmatic VSR1 2.1 is a full-featured voting system comprised of four major components:

- Election Management Platform (EMP) - software used for election lifecycle management: election information import, ballot layout, audio, machine programming, results, and audit management.
    - Election Configuration System (ECS).
    - Results Management System (RMS).
- Ballot Marking Device (BMD-155) allows for in-person accessible ballot marking, verification, and casting.
- Precinct Count Optical Scanner (PCOS A4-800), allows for verification and casting of ballots that have been marked electronically or by hand, including accessible verification and cast processes.
- Central Count Optical Scan with - Scanner Model: Canon imageFORMULA DR-G2140.

Election Management Platform (EMP)

The Election Management Platform (EMP) is a system designed to support the Pre-Voting and Post-Voting phases of an electoral event. The platform aids election officials in properly designing, planning, and managing all the tasks regarding an election. The EMP is a complete platform that includes all the tools required to prepare, conduct, and manage the election event. It contains the following sub-components that encompass task lists according to the voting stage: Election Configuration System (ECS) and Results Management System (RMS). The EMP is located at the election data center.

Ballot Marking Device (BMD) - Model: BMD-155

The Ballot Marking Device (BMD) is an in-precinct voting machine offering usability and independent vote casting capabilities for all voters, including those with disabilities. The BMD allows voters to print a physical paper ballot. The BMD is located at the polling place.

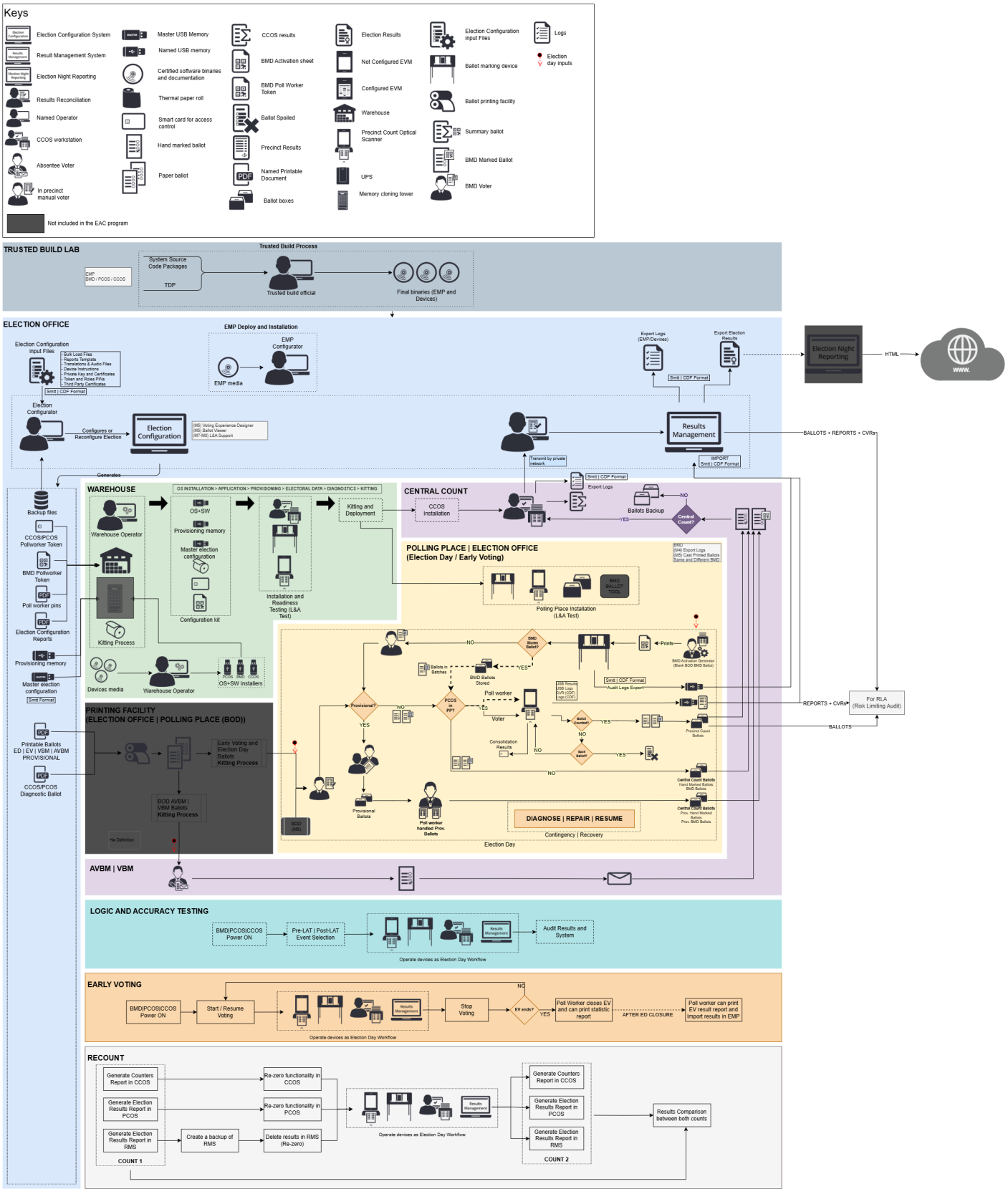
Precinct Count Optical Scanner (PCOS) - Model: A4-800

The Precinct Count Optical Scanner (PCOS) is an in-precinct voting machine designed to count voter-marked paper ballots. The PCOS offers usability and independent vote casting capabilities for all voters, including those with disabilities. It simultaneously scans both sides of the ballots that have been marked electronically or by hand. The PCOS is located at the polling place.

Central Count Optical Scanner (CCOS) - Scanner Model: Canon imageFORMULA DR-G2140

The Central Count Optical Scanner (CCOS) is a high-speed COTS scanner utilized to process physical ballots at a central location. It is configured with custom-made ballot processing software that permits processing and tabulation of large numbers of ballots. Batches of ballots processed by the CCOS are saved and sent to the EMP through a private network. Once the EMP sends confirmation that the batch was received successfully, a batch report is printed and stored physically with the scanned ballots. The CCOS is located at the central count location.

System Diagram



Proprietary Software

System Component	Software or Firmware Version
EMP Application Version	8.9.51.4
CCOS Application Version	1.40.0
CCOS Operating System. Base OS: Ubuntu 24.04.2 LTS	7.3.0 en_US.UTF-8 (default language)
BMD Application Version	1.4.5
BMD Operating System. Base OS: Ubuntu 24.04.2 LTS	7.3.0 en_US.UTF-8 (default language)
PCOS Application Version	1.40.0
PCOS Operating System. Base OS: Ubuntu 24.04.2 LTS	7.3.0 en_US.UTF-8 (default language)

Proprietary Hardware

Description	Version
BMD	
BMD Main Unit	BMD-155 (RC5)
Ballot Box	BBX-151
Leg Stand	BLS-155
Privacy Flaps	BPF-155
Power Adapter and Cable	24DC V @ 6.25 Amp
Audio Tactile Interface (ATI) device	KPB-200
PCOS	
PCOS	A4-800
Ballot Box	BBX-800
Power Adapter and Cable	100-240 V AC - 50/60Hz
Privacy Flaps	PPF-800
Audio Tactile Interface (ATI) device	KPB-200

COTS Software and Firmware

Manufacturer	Description	Version
EMP		
Canonical	Ubuntu OS	20.04.6 LTS AMD64
Docker	OS-level virtualization	27.5.1
Ubuntu	Auditd, Apparmor, rsyslog Audit log data visualization tools	-
Elastic	Kibana/Elastic-Search Audit log data visualization tools	-
Oracle	Oracle Database	18.4-xe

COTS Hardware

Description	Component Type
EMP	
Dell PowerEdge T550 (with cable and adapter)	EMP Server
Dell PowerEdge T550 Parallax Security Bezel, Two Layer Door	EMP Server
Dell Latitude 5520	EMP Election Official Laptop
Fortinet FortiGate 40F	Firewall Appliance
Cisco CBS350-8P-E-2G	Network switch
APC Smart-UPS (SMT1500C)	UPS
SanDisk 2TB Extreme Portable SSD	External Hard Drive
ACS ACR39U	Smartcard reader
Dell 24 E2422H	Monitor
Dell Business Multimedia Keyboard - KB522	Keyboard
Dell Optical Mouse- MS116	Mouse
HP LaserJet Pro 4001n	Printer
Dell Generic VGA to VGA Cable 6 Feet	VGA to VGA Cable
Lindy 40452 Blue USB Lock	USB Lock with key
Lindy 40470 RJ45 Port blocker	RJ45 Port blocker with key
32GB Ultra USB 3.0 Flash Drive - SDCZ48-032G	USB Drives
Kensington N17 Laptop T-bar – Keyed	Security Lock

CCOS	
Canon imageFORMULA DR-G2140	Scanner
Dell OptiPlex 3000 micro	Device
Elo M-Series 1502L 15-inch	Display
HP Laser Jet Pro 4001n	Printer
ACS ACR39U	Smart card Reader
APC Smart-UPS (SMT1500C)	UPS
Anker Hub	USB hub
CAT6 Ethernet Patch Cable	Ethernet Patch Cable
BMD	
APC UPS (BR1500MS2)	UPS
Origin instrument Sip-and-Puff AC-0304-V2	Accessibility Devices
Origin instrument Buddy Buttons SWP1	Accessibility Devices
Yoga Electronics CD-46 Over-Ear Stereo Headphones	Accessibility Devices
Zerone Stylus – B07WRQYQFF	Accessibility Devices
SW-0100-X Orby Switch	Accessibility Devices
AC-0309-AD	Mono-to-stereo adapter
PCOS	
Origin instrument Sip-and-Puff AC-0304-V2	Accessibility Devices
Origin instrument Buddy Buttons SWP1	Accessibility Devices
Yoga Electronics CD-46 Over-Ear Stereo Headphones	Accessibility Devices
Zerone Stylus – B07WRQYQFF	Accessibility Devices
SW-0100-X Orby Switch	Accessibility Devices
AC-0309-AD	Mono-to-stereo adapter
BT-RRC2040-00	Internal backup battery

Language Capability:

Smartmatic VSR1 2.1 supports the following languages:

- English
- Spanish
- Chinese
- Russian

System Limitations

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

Description	Definition	Component	System Limit
Max. Subdivisions levels	The subdivisions represent the jurisdiction configuration of the system as State, county, etc.	EMP	47
Max. Precincts per election	Subdivision of an electoral district, typically a contiguous area within which all electors go to a single polling place to cast their ballots.	Performance Reports (EMP)	1000
Max. Splits Precincts per election	A subdivision of a precinct which arises when a precinct is split by two or more election districts that may require different ballot styles. Synonyms: split, split precinct, sub-precinct	Performance Reports (EMP)	400
Max. Districts per election	A territorial subdivision for electing members to a legislative body. Generally, only voters (constituents) who reside within the district are permitted to vote in an election held there.	Reports (EMP)	1500
Max. Polling places per election	Location at which voters may cast in-person ballots under the supervision of election workers during one or more specific time periods. Synonyms: poll, polling station	Reports (EMP)	220
Max. Parties (General Election)	Number of parties defined for a General Election	Ballot size EMP Performance Reports Voting experience	20

Max. Contests per election	Number of contests in the election. The contests depend on the voting variations.	Ballot size EMP Performance Reports Voting experience	200
Max. Choices (candidates + yes/no) per contest	Number of candidates defined for an election	Ballot size EMP Performance Reports Voting experience	2140
Max Offices per election	A position established by law with certain associated rights and duties.	Ballot size EMP Performance Reports Voting experience	200
Max. Devices per election	Number of devices associated in a polling place	---	821
Max. Devices per election Election Day	Number of devices associated in a polling place	---	PCOS: 400 BMD: 400
Max. Devices per election Early Voting/Voting Center	Number of devices associated in a polling place	---	PCOS: 8 BMD: 8
Max. Devices per election Absentee	Number of devices associated in a polling place	---	CCOS: 4
Max. Write-ins per contest	Number of write-ins options defined for a single contest	Ballot Reports	22 certified write- ins
Min. "Vote for" per contest	Definition of N - M values for a specific contest	Ballot	1
Max. "Vote for" per contest	Definition of N - M values for a specific contest	Ballot	22
Max. Languages per election	Languages that can be used in the election, including text and audio	Performance (EMP) Ballot Device Idle Screen (BMD, PCOS)	4
Max. Events per election (Pre-LAT, Official)	Events supported in a specific election	---	2
Central Count max cards per batch	Ballots scan per batch	---	1700 ballots

Ballot width	Ballot width that can be used in the election	---	8.5”
Ballot lengths	Ballot lengths that can be used in the election	---	PCOS and CCOS: Minimum: 11” Maximum: 21” BMD: Minimum: 11” Maximum: 13”
Scanner Document Feeder Maximum Capacity	Maximum number of ballots that should be stacked on the scanner document feeder	---	11" ballots: 200 ballots 14" and 17" ballots: 120 ballots 19" and 21" ballots: 100 ballots
Max choices per contest	Number of choices available per contest	Hand-marked ballots BMD reports Voter experience	208
Max contests in a ballot	Number of contests in a ballot	Ballots Reports	56
Max Ballot Styles supported by EMP	Ballot styles managed by the EMP	---	1000

Functionality

VVSG 2.0 Supported Functionality Declaration

Feature/Characteristic	Yes/No	Comment
System Functionality		
General Election	Yes	
Closed primary	Yes	
Open primary	No	
N-of-M contest	Yes	
Issue Contest	Yes	Related Terms: Measure, Proposition, Referendum, Question.
Precinct splits	Yes	
Ballot rotation	Yes	
Straight-party contest	No	
Cumulative contest	No	
Ranked choice contest	No	
Party preference contest	No	
Top 2 primary contest	No	
Presidential delegate contest	No	
Proportional voting contest	No	
Group voting contest	No	
Recall contest	No	
Top 2 IRV contest	No	
Cross-party endorsement	No	
Write-In voting	Yes	
Tabulation		
Provisional or Challenged Ballots	Yes	
Overvotes	Yes	
Undervotes	Yes	
Blank Ballots	Yes	
Devices Supported		
Ballot marking device	Yes	
Precinct Scanner	Yes	
Central count scanner	Yes	
All-in-one device	Yes	