

Engineering Change Orders

2023 - Anti-Virus & Windows Updates Engineering Change Orders 2023

Jan 1st, 2023- Dec 31st, 2023

Reviewed - Rick Weible 7/8/2024



NONE HAVE BEEN FILED OR CERTIFIED BY ANY VENDOR

There have been no antivirus updates or patches to any software to secure ensure that our elections would be secure during the primary or for the 2024 General Election.

Windows Updates	AntiVirus Update	ECO	Manufacturer	Testing Lab	Impacted Device/System	Date Approved	Notes
No	No	CBG-117	Clear Ballot Group, Inc.	Pro V&V	ClearVote 2.3 / Dell PowerEdge Server R440	5/5/2023	This ECO documents a minor change order request to ClearVote 2.3. The Dell R440 Server certified under this system has come to its end of production life, and CBG is seeking the EAC's approval for a de minimis upgrade to the newer generation Dell R450 Server. Clear Ballot Group requests de minimis engineering change order (ECO) approval to add alternate component for CBG clients affected in the following states: KS,OH,OR,PA,WA, and WI. CBG is requesting the Dell R450 Server be certified for use with the ClearVote 2.3 version release as a Design Server and/or as a Count Server (formerly known as ScanServer).
No	No	CBG-172	Clear Ballot Group, Inc.	Pro V&V	ClearVote 2.2 (ClearCast Go) ClearVote 2.3 (ClearCast Go & ClearAccess)	12/8/2023	This ECO was submitted to upgrade the casters currently used on ClearVote rolling cases in multiple ClearVote systems.
No	No	Clear Ballot SW13406	Clear Ballot Group, Inc.	Pro V&V	ClearCast Go Version 2.2.a and ClearCast Model D Version 2.2.9	3/10/2023	This software change mitigates freeze symptoms were reported during early voting for November 2022 election.
No	No	COTS-13	Clear Ballot Group, Inc.	Pro V&V	ClearVote 2.3 DesignStation, CountStation, and ScanStation	5/12/2023	Add Lenovo ThinkPad E14 device as a COTS DesignStation, CountStation, and ScanStation to ClearVote 2.3 due to the end of production life status for the current model (Dell Latitude 5521).
No	No	COTS-97	Clear Ballot Group, Inc.	Pro V&V	ScanServer on ClearVote 2.3 EMS Express Server	4/12/2023	Adding Dell PowerEdge R740 ScanServer be for use with the ClearVote 2.3 version release.
Partial	No	DVS-100891	Dominion Voting Systems Corp	Pro V&V	D-Suite: 5.5, 5.5-A, 5.5-B, 5.5-C, 5.5-D	1/13/2023	Added DELL Precision 3460 XE computer an EMS Express Server configuration due to the DELL Precision T3420, 3430, 3431, 3400 XE and 3450 XE computers becoming commercially unavailable for purchase. Partial Windows 10 Pro (21H2) 2021 Updated OS....
Partial	No	DVS-100903	Dominion Voting Systems Corp	Pro V&V	EMS Client Workstation and ADJ Client Workstation D-Suite: 5.5, 5.5-A, 5.5-B, 5.5-C, 5.5-D	1/13/2023	Added DELL Precision 3460 XE computer as an EMS and Adjudication Client configuration due to the DELL Precision T3420, 3430, 3431, 3440 XE and 3450 XE computers becoming commercially unavailable for purchase. Partial Windows 10 Pro (21H2) 2021 Updated OS....
Partial	No	DVS-100904	Dominion Voting Systems Corp	Pro V&V	ICC Canon Scanner Workstation D-Suite: 5.5, 5.5-A, 5.5-B, 5.5-C, 5.5-D	1/13/2023	Added DELL Precision 3460 XE computer as an ICC Canon Scanner Workstation configuration due to the DELL Optiplex 3050, 5270, 3440 XE and 3450 XE computers becoming commercially unavailable for purchase. Partial Windows 10 Pro (21H2) 2021 Updated OS....
No	No	DVS-100918	Dominion Voting Systems Corp	Pro V&V	ImageCast Central (ICC), HiPro workstation for Democracy Suite 5.5-B, 5.5-C, 5.5-D, and 5.17.	4/7/2023	This ECO includes the addition of the Dell OptiPlex XE4 computer due to the Dell OptiPlex 7050, 7060, 7070, and XE3 computers becoming commercially unavailable for purchase. Windows 10 version not defined.

Partial	No	DVS-100921	Dominion Voting Systems Corp	Pro V&V	ImageCast Voter Activation (ICVA) client workstation for Dominion Democracy Suite 5.5, 5.5-A, 5.5-B, 5.5-C, 5.5-D, and 5.17.	5/12/2023	New addition of the Dell Latitude 3340 laptop computer due to the Dell, Latitude 3420 and 3330 series computers becoming commercially unavailable for purchase. Also brings forward Windows 10 Pro (21H2) 2021 Updated OS...
No	No	DVS-100924	Dominion Voting Systems Corp	Pro V&V	Democracy Suite 5.17	10/13/2023	Updates to Security System Specification document to correct the version of the SCAP Security Checklist as well as updated installation documents. Included the steps to enable BitLocker encryption on Client machines.
No	No	DVS-100942	Dominion Voting Systems Corp	Pro V&V	All D-Suite Voting Systems EMS and ImageCast Central.	10/30/2023	Added Delkin Devices USB 3.0 Compact Flash (CF) and SD Memory Reader due to older readers becoming commercially unavailable for purchase.
No	No	ES&S-1148	Election Systems & Software, Inc (ES&S)	Pro V&V	EVS 6.0.6.0	1/11/2023	This ECO introduces document content updates pertaining to the YubiKey installation process for the Client Workstation Setup & Configuration Guide.
No	No	ESS-1151	Election Systems & Software, Inc (ES&S)	Pro V&V	DS950 EVS 6.0.6.0, EVS 6.2.0.0, EVS 6.3.0.0	3/7/2023	Update DATAWIN Transporter Board Firmware to version C60_20221215_0300. With this update, the output tray now starts to lower sooner so in the event of a possible ballot jam, it will now give a greater opportunity of the next incoming ballots to lay flat over the jammed ballots.
No	No	ESS 1153	Election Systems & Software, Inc (ES&S)	Pro V&V	ExpressTouch and ExpressVote XL using EVS 6.3.0.0	5/30/2023	Update to System Maintenance Manuals for ExpressTouch and ExpressVote XL.
No	No	ESS-1162	Election Systems & Software, Inc (ES&S)	Pro V&V	DS300 Ballot Bin Units; EVS 6.3.0.0, EVS 6.4.0.0.	12/5/2023	This ECO impacts fielded DS300 Ballot Bin Unit hardware for EVS 6.3.0.0 & 6.4.0.0. This minor hardware change does not alter the system's reliability, functionality, capability, or operation.
No	No	ESS ECO-1160	Election Systems & Software, Inc (ES&S)	Pro V&V	Delkin 3.0 USB Flash Drive (4GB, 8GB) models 6206 and 6207; EVS 5.2.0.3.	12/7/2023	This ECO added equivalent source USB devices due to the original USB devices end-of-life production. The new USB devices (Delkin 3.0 USB Flash Drive (4GB, 8GB) models 6206 and 6207) were previously tested during EAC certification test campaigns. This minor change does not alter the system's reliability, functionality, capability, or operation. Based on the information provided, it has been determined that no further testing is necessary.
No	No	HRT-01575	Hart InterCivic, Inc.	SLI Compliance, a Division of Gaming Laboratories International, LLC	Verity Count Verity Voting 2.6, Verity Voting 2.7	2/16/2023	The changes described in this ECO eliminate an anomaly in the Verity Count Write-In Assignment UI where only the first one hundred write-ins for a contest are shown. The changes were developed in response to the Verity Count: Only 100 Write-ins In Assignment UI, Verity Voting 2.6 Root Cause Analysis (RCA). This change is applied with a SQL patch that has been validated by Hart Quality Assurance to correct the anomaly in new and existing elections. This change affects Verity Count server products on the Verity Voting 2.6 and 2.7 systems only. There are no changes to other Verity devices or workstation software.
No	No	HRT-01583	Hart InterCivic, Inc.	SLI Compliance, a Division of Gaming Laboratories International, LLC	Touch Writer Duo and Touch Writer Duo Standalone devices Hart Verity 2.3, 2.3.3, 2.3.4, 2.4, 2.5, 2.6, and 2.7 Verity 2.3, 2.3.3, 2.3.4, 2.4, 2.5, 2.6, and 2.7	2/17/2023	This ECO is created to integrate and track a manufacturer's revision to the Brother PJ-723 thermal printer, used by Hart within the Verity Touch Writer Duo series devices. The revised thermal printer adds a newer manufacturer's firmware, and an internal mechanical feature is added that ensures constant firm paper contact with the thermal print head. The revision enhances print speed. The printer is otherwise form, fit, and function compatible to the
No	No	HRT-01587	Hart InterCivic, Inc.	SLI Compliance, a Division of Gaming Laboratories International, LLC	Verity Touch Writer Duo	3/15/2023	This ECO releases an optional paper guide for the Verity Touch Writer Duo series devices. The paper guide attaches to the existing paper feed tray.
No	No	HRT-01592	Hart InterCivic, Inc.	SLI Compliance, a Division of Gaming Laboratories International, LLC	All Verity Devices and Releases.	3/24/2023	This ECO change adds an additional equivalent source to three components and makes additional clerical corrections.

No	No	HRT-01598	Hart InterCivic, Inc.	SLI Compliance, a Division of Gaming Laboratories International, LLC	The ECO impacts Verity 2.7 Voting systems.	6/28/2023	This ECO corrects a borderline scenario bug in Verity Data that presents when printing or exporting ballots from Verity Build. Currently Verity 2.7 is not fielded in any jurisdictions that use straight part functionality.
No	No	HRT-01599	Hart InterCivic, Inc.	SLI Compliance, a Division of Gaming Laboratories International, LLC	This ECO affects Data/Build, Central, Scan, and Reader software in the Verity Voting 2.7 system.	7/21/2023	This ECO makes enhancements to Printed Vote Records (PVRs) to maximize the number of voter selections on each sheet and to improve usability. These enhancements include a new condensed PVR template that increases the number of choices per PVR sheet by displaying two sets of columns, relocation of header fields on PVR sheets, and automatic PVR short names refresh in Verity Data.
No	No	HRT-01605	Hart InterCivic, Inc.	SLI Compliance, a Division of Gaming Laboratories International, LLC	This ECO affects Verity Transmit Receiving Station within the Verity Voting 2.7 system.	6/30/2023	This ECO corrects an anomaly in the Verity Transmit Receiving Station workstation in which backup (recovery) vDrives are not being automatically streamed during receipt of data within the Receiving Dashboard.
No	No	HRT-01619	Hart InterCivic, Inc.	SLI Compliance, a Division of Gaming Laboratories International, LLC	Impacted Systems: Verity 2.7 Impacted Devices: Verity Central Verity Scan Verity Scan with Relay MicroVote EMS (Infinity and WVPAT components)	9/29/2023	This ECO introduces a modification that adjusts the tolerances of landmark detection on Verity ballots. The change alters how the landmark detection algorithm detects the landmark's initial (left) outbound black line.
No	No	MVT-136	MicroVote General Corp.	Pro V&V	MicroVote EMS 4.0, 4.0B, 4.1, 4.2, 4.3-A, 4.4, and 4.41 systems	3/30/2023	The current Infinity (Rev E) display and smart card reader and VVPAT (Rev A) internal serial connector and capacitor on the port switching PCB are end-of-life with suppliers. MicroVote has submitted a modification to replace components with equivalent parts. Per MicroVote, the modification is compatible with all system hardware and software. MicroVote executed a test case to confirm no form, fit, or function change.
No	No	MVT-137	MicroVote General Corp.	Pro V&V	MicroVote EMS (All-In-One Voting Station booth) MicroVote EMS 4.0, 4.0B, 4.1, 4.2, 4.3-A, 4.4, and 4.41 systems	3/30/2023	This engineering change notice is to replace the metal ADA RJ45 coupler housing mounted on the All-In-One Voting Station booth with a shielded plastic RJ45 coupler housing (Part Number RJ45M25Z0-6A) to eliminate susceptibility to electrostatic disruption. The coupler and molded mounting plate will be attached to the booth using three machine screws with Loctite on the threads to secure the plate during transport and storage. The coupler provides a convenient way to attach a DoubleTalk text-to-speech reader or tally tape printer to the VVPAT or Infinity panel. Per MicroVote, the modification is compatible with all system hardware and
No	No	MVT-138	MicroVote General Corp.	Pro V&V	Dell Latitude 3520, Dell Latitude 3540 Impacted System: MicroVote EMS V4.41 FVS	11/22/2023	Previously certified EMS V4.41 laptops, including Dell Latitude 3520, are end-of-life. The Dell Latitude 3540 will replace these end-of-life models as the next model.
No	No	UNS-1028	Unisyn Voting Solutions (a division of International Lottery and Totalizator, Inc)	Pro V&V	OpenElect 2.2 OpenElect 2.2.3	7/6/2023	An adaption to mount an FVS atop of an OVO ballot box. The new lid was designed so current OVO customers with ballot boxes can upgrade to new FVS precinct scanner.

No	No	UNS 1029	Unisyn Voting Solutions (a division of International Lottery and Totalizator, Inc)	Pro V&V	FreedomVote Scan (FVS) using OpenElect 2.2 and 2.3	7/20/2023	A modification of the carry handle of the FVS. The handle will be changed to a Nylon to provide additional strength and flexibility, with a longer screw, washer and nut.
No	No	UNS 1030	Unisyn Voting Solutions (a division of International Lottery and Totalizator, Inc)	Pro V&V	FreedomVote Scan with OpenElect 2.2. and 2.3	9/26/2023	Add a new USB retention bracket to the PC subassembly and a cable tie to the lower FVS to secure the USB cable.
No, but a CentOS Linux Update to 7.9	No	UNS-2301	Unisyn Voting Solutions (a division of International Lottery and Totalizator, Inc)	Pro V&V	OpenElect 2.1 OpenElect 2.2 OpenElect 2.2.3	8/24/2023	Addition of a Dell Latitude 5540 laptop computer and supporting OS to OpenElect product line supporting 2.X OCS/OVCS applications. UpdatesLinux CentOS from 6.5, 6.8, 7.6 to 7.9

Source: https://www.eac.gov/voting-equipment/engineering-change-orders?title=&field_date_approved_by_eac=2023-01-01&field_date_approved_by_eac_1=2023-12-31

- Dashboard
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New malware this year

59,541,205

In 2024

New malware in the last 14 days

3,520,549

In the last 14 days.

Total Malware

1,400,891,311

Since 1984

Latest detection

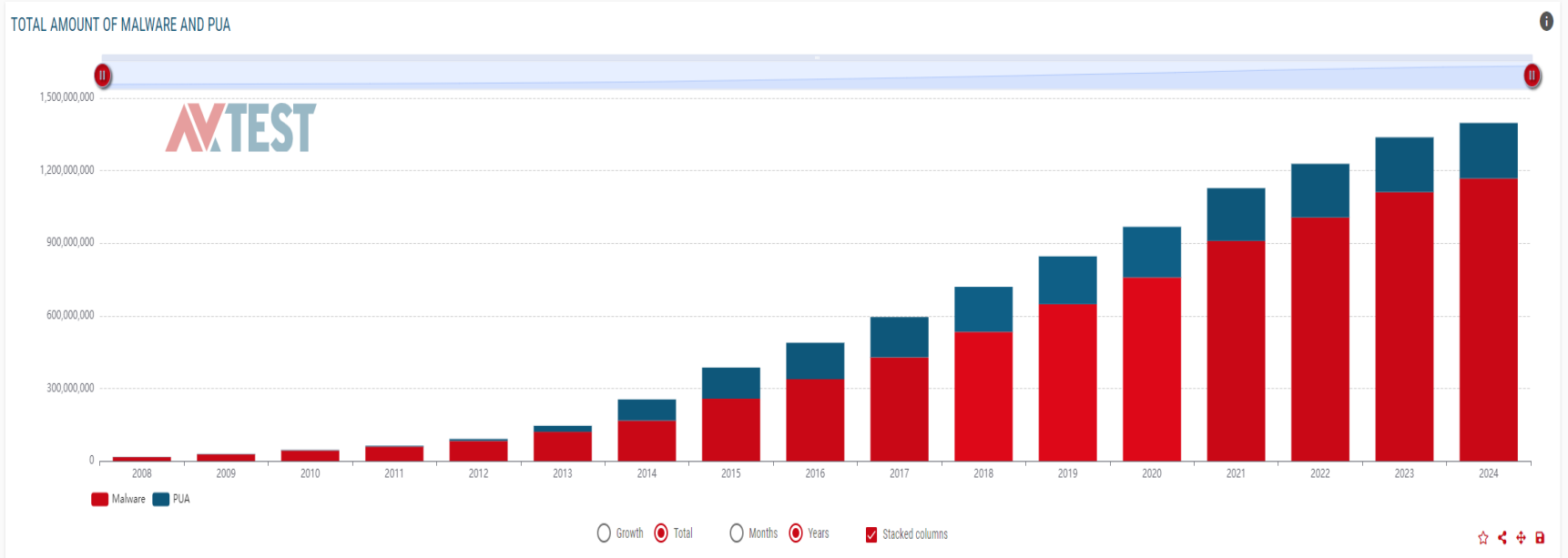
Expiro

a minute ago

ABOUT MALWARE AND PUA

With Malware and PUA, the AV-TEST Institute provides an overview of the overall situation regarding malware and potentially malicious software. The samples are categorized according to operating system, malware name or historical development.

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NEED MORE DATA?

Source: <https://portal.av-atlas.org/malware>

7.4.2 of the Voluntary Voting System Guide 1.0 (2005) states:

"Voting systems shall deploy protection against the many forms of threats to which they may be exposed such as file and macro viruses, worms, Trojan horses, and logic bombs.

Vendors shall develop and document the procedures to be followed to ensure that such protection is maintained in a current status."

https://www.eac.gov/sites/default/files/eac_assets/1/28/VVSG.1.0_Volume_1.PDF