

## **SECOND DECLARATION OF BENJAMIN R. COTTON**

I, Ben Cotton, being duly sworn, hereby depose and state as follows:

- 1) I am over the age of 18, and I understand and believe in the obligations of an oath. I make this affidavit of my own free will and based on first-hand information and my own personal observations.
- 2) This Second Declaration is an update to my declaration dated June 8, 2022 filed in the case of *Kari Lake et al. v. Katie Hobbs et al.* (2:22-cv-00677-JJT) filed in U.S. District Court for the District of Arizona (Doc. No. 35) ("First Declaration"). This Second Declaration details important new information which has come to my attention since November 2023.
- 3) I am the founder of CyFIR, LLC (CyFIR).
- 4) I have a master's degree in Information Technology Management from the University of Maryland University College. I have numerous technical certifications, including the Certified Information Systems Security Professional (CISSP), Microsoft Certified Professional (MCP), Network+, and Certified CyFIR Forensics and Incident Response Examiner.
- 5) I have over twenty-seven (27) years of experience performing computer forensics and other digital systems analysis.
- 6) I have over twenty (20) years of experience as an instructor of computer forensics and incident response. This experience includes thirteen (13) years of experience teaching students on the Guidance Software (now OpenText) EnCase Investigator and EnCase Enterprise software.
- 7) I have testified as an expert witness in state courts, federal courts and before the United States Congress.
- 8) I have testified before the Arizona State Senate in public hearings on 15 July 2021 and 24 September 2021 concerning the digital forensics findings connected to the Arizona State Senate

Maricopa County audit of the 2020 general elections. I fully stand behind those forensic findings.

- 9) I regularly lead engagements involving digital forensics, cyber security, and incident response for law firms, corporations, and government agencies and am experienced with the digital acquisition of evidence under the Federal Rules of Evidence.
- 10) In the course of my duties, I have forensically examined Dominion Voting Systems (DVS) components in Maricopa County Arizona, Antrim County Michigan, Fulton County Pennsylvania, Coffee County Georgia, Mesa County Colorado and Bibb County Georgia, hereinafter referred to as the “Analyzed Election County Components”.
- 11) In the course of my duties, I have reviewed the administrative manuals and documentation for the DVS Democracy Suite software and hardware components.
- 12) In the course of my duties, I have reviewed the public information from the Election Assistance Commission (“EAC”) and its certification process for election software.
- 13) I have reviewed and considered applicable Arizona law<sup>1</sup> concerning the certification and operation of electronic voting systems<sup>2</sup>.
- 14) I have reviewed and considered the Pro V&V report dated March 2, 2022 concerning the programmatic errors of the Dominion tabulator titled “ICP Modification to Reset Provisional Flag on each Ballot Scan”.
- 15) I have reviewed and considered the SLI Compliance report titled Forensic Audit Report, Report Number: MCA-21001-AR-01 dated February 23, 2021.
- 16) I have reviewed and considered the Pro V&V report titled Field Audit Report Dominion Voting Systems Democracy Suite (D-Suite) 5.5-B Voting System Maricopa Post-Election Field Audit dated February 23, 2021.
- 17) I have reviewed and considered the Maricopa Board of Supervisors’ Response to the Arizona

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<sup>1</sup> Arizona Revised Statutes Title 16. Elections and Electors

<sup>2</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

Senate dated 5-17-21 and named “2021.05.17 Response Letter to Senate President Fann - FINAL\_202105171430291332.pdf”.

- 18) I have reviewed Maricopa County tabulator logs from the 2020 and the 2022 elections.
- 19) Since the Arizona Senate Audit of 2020 I have gained more knowledge concerning these voting systems and how they work. I have incorporated that additional knowledge into this declaration.

### **EXECUTIVE SUMMARY**

- 20) I performed a thorough analysis of the Maricopa County Election Management System (“EMS”) used in the November 2020 election, the tabulator system log files used in November 2022 election, and additional artifacts. I make the following findings:
  - a) The tabulator logs from the Maricopa County 2020 and 2022 elections demonstrate clearly that the machine behavior settings (MBS) and the database versions that existed on the tabulators used in those elections were not approved by the EAC certification of Dominion Voting System (DVS) Democracy Suite version 5.5B. The MBS file and the database version could not have been produced by the DVS version 5.5B. The election software Maricopa County used in the November 2020 and November 2022 elections has been materially altered from the EAC and Arizona Secretary of State certified<sup>3</sup> DVD D-Suite 5.5B. Any representation that this is the same golden image that the EAC approved is false.
  - b) Comprehensive evidence was found that the EMS system contained other significant software alterations or deviations to the configurations approved and certified in the EAC Certification and Scope of Conformance.
  - c) The encryption keys used to secure the results, encrypt and decrypt the tabulator results and protect the integrity of the EMS operations are stored in plain text in an unencrypted SQL database that is accessible with a simple SQL query. This egregious security lapse provides anyone with access to the voting system with the tools to alter election results without likely

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<sup>3</sup> [https://azsos.gov/sites/default/files/2024-02/2024\\_0118\\_Official\\_Voting\\_Equipment\\_List.pdf](https://azsos.gov/sites/default/files/2024-02/2024_0118_Official_Voting_Equipment_List.pdf)

detection.

- d) The Maricopa EMS has a compiler installed that provides the ability to modify and create executable files and drivers on the fly that could be used to alter election results without detection. There is evidence new executable files were created at least three times during the active voting period in 2020.
- e) EAC authorized voting system auditors Pro V&V and SLI Compliance failed to detect material changes to the voting systems in their audits of February 2021.

## **DETAILED FINDINGS**

### **Evidence of Uncertified Configurations and Software**

- 21) I examined the Dominion Imagecast Precinct (ICP2) logs (slog.txt) files and images from the November 2020 and November 2022 elections in Maricopa County. In connection with that examination, I undertook an extensive examination and analysis of the EAC certification documentation for the Dominion Democracy Suite version 5.5B, slogs.txt files for the 2020 election, slogs.txt files produced under FOIA by Maricopa County for the 2022 election, slog.txt files produced by other jurisdictions for the 2020 and 2022 elections, election databases from Maricopa County for the 2020 election, and system artifacts derived from the Arizona Senate Audit of the 2020 election. My findings are as follows:
- a) The EAC website states that the DVS Democracy Suite version 5.5B was tested by Pro V&V and was certified on September 10, 2019.<sup>4</sup>
  - b) The EAC Certificate of Conformance contains a Scope of Certification that details the software versions that were certified. This document details that the certified ICE Machine Behavior Settings (MBS) are version 5.5.6.3 20190512 and the ICP2 Machine MBS are version 5.5.1.4 20190510<sup>5</sup>. Note that the first two numbers in each of these setting numbers

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<sup>4</sup> [Democracy Suite 5.5B \(Modification\) | U.S. Election Assistance Commission \(eac.gov\)](#) 3/7/2024.

<sup>5</sup> [DVS 5.5B Certificate Scope Conformance.pdf \(eac.gov\)](#) 3/7/2024



correspond to the Dominion Voting Software version of 5.5. The Dominion Democracy Suite Use Procedures manual defines Machine Behavior Settings (MBS) as “The settings that hold configuration parameters as defined by EMS applications and passed onto the ICE and ICP2. These settings define and determine the behavior of the ICE and ICP2”. The first two place numbers (separated by a period) in the MBS version number are derived from the version number of the Dominion Voting Systems Democracy Suite version. The Maricopa version of the DVS Democracy Suite is 5.5B, therefore the version number of the MBS files should be 5.5.

**Voting System Software Components:**

System Component	Software or Firmware Version	Operating System or COTS	Comments
EMS Election Event Designer (EED)	5.5.32.4	Windows 10 Pro	EMS
EMS Results Tally and Reporting (RTR)	5.5.32.4	Windows 10 Pro	EMS
EMS Application Server	5.5.32.4	Windows Server 2012 R2 Windows 10 Pro	EMS
EMS File System Service (FSS)	5.5.32.4	Window 10 Pro	EMS
EMS Audio Studio (AS)	5.5.32.4	Windows 10 Pro	EMS
EMS Data Center Manager (DCM)	5.5.32.4	Windows Server 2012 R2 Windows 10 Pro	EMS
EMS Election Data Translator (EDT)	5.5.32.4	Windows 10 Pro	EMS
ImageCast Voter Activation (ICVA)	5.5.32.4	Windows 10 Pro	EMS
EMS Adjudication (ADJ)	5.5.32.4	Windows 10 Pro	EMS
EMS Adjudication Services	5.5.32.4	Windows 10 Pro	EMS
Smart Card Helper Service (SCHS)	5.5.32.4	Windows 10 Pro	EMS
Election Firmware	5.5.31.1	uClinux	ICP
Firmware Updater	5.5.31.1	uClinux	ICP
Firmware Extractor	5.5.31.1	uClinux	ICP
Kernel (uClinux)	5.5.31.1	Modified COTS	ICP
Boot Loader (COLILO)	20040221	Modified COTS	ICP
Asymmetric Key Generator	5.5.31.1	uClinux	ICP
Asymmetric Key Exchange Utility	5.5.31.1	uClinux	ICP
Firmware Extractor (Technician Key)	5.5.31.1	uClinux	ICP
ICP2 Application	5.5.1.8	uClinux	ICP2
ICP2 Update Card	5.5.1.8	uClinux	ICP2
Voting Machine	5.5.6.5	Ubuntu Linux	ICE
Election Application	5.5.6.5	Ubuntu Linux	ICE
ImageCast Central Application	5.5.32.5	Windows 10 Pro	ICC
ICX Application	5.5.13.2	Android 5.1.1 (ICX Prime) Android 4.4.4 (ICX Classic)	ICX

Figure 1-Subset of Certified Software Versions for DVS 5.5B

- c) In the case of the slog.txt files that I examined, each ICP2 system recorded an error message concerning the MBS version. In all cases the error message read “Wrong MBS version:

5.10.9.4 Expecting: 5.10.3.4.” As evidenced by the first two place number sets in the version numbers, both of these MBS versions would have been created by the DVS Democracy Suite version 5.10. It is important to note that the ICP2 firmware was expecting to receive MBS version 5.10.3.4, but the version that was on the SD cards that was inserted into the ICP2 at the time the election was opened was 5.10.9.4. Neither of these MBS versions were approved, tested or certified by the EAC with the certification of Dominion Democracy Suite 5.5B. The MBS version approved by the EAC for the ICP2 is 5.5.1.4 20190510.

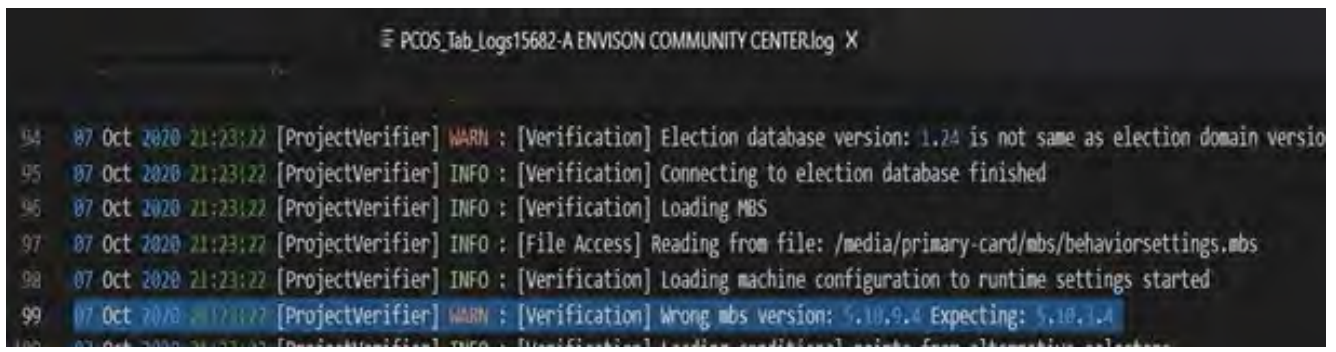
System Component	Version	Operating System or COTS	Comments
U-Boot	1.3.4	Modified COTS	ICE
Google Text-to-Speech Engine	3.11.12	Unmodified COTS	ICX SW
Kernel	4.9.11	Modified COTS	ICP2
U-Boot	2017.03	Modified COTS	ICP2
Zxing Barcode Scanner	4.7.5	Modified COTS	ICX SW
SoundTouch	1.9.2	Modified COTS	ICX SW
ICX Prime Android 5.1.1 Image	0405	Modified COTS	ICX SW
ICX Classic Android 4.4.4 Image	0.0.98	Modified COTS	ICX SW
OpenSSL FIPS Object Module	2.0.10 (Cert 2473)	Unmodified COTS	ICX SW Build Library
OpenSSL	1.0.2K	Unmodified COTS	ICC SW Build Library
OpenSSL FIPS Object Module	2.0.10 (Cert 1747)	Unmodified COTS	ICC SW Build Library
1-Wire Driver (x86)	4.05	Unmodified COTS	ICC Runtime SW
1-Wire Driver (x64)	4.05	Unmodified COTS	ICC Runtime SW
Canon DR-G1130 TWAIN Driver	1.2 SP6	Unmodified COTS	ICC Runtime SW
Canon DR-G160II TWAIN Driver	1.2 SP6	Unmodified COTS	ICC Runtime SW
Canon DR-M260 TWAIN Driver,	1.1 SP2	Unmodified COTS	ICC Runtime SW
InoTec HiPro 821 TWAIN Driver	1.2.3.17	Unmodified COTS	ICC Runtime SW
Visual C++ 2013 Redistributable (x86)	12.0.30501	Unmodified COTS	ICC Runtime SW
Machine Configuration File (MCF)	5.5.12.1_20190510	Proprietary	ICX Configuration File
Device Configuration File (DCF)	5.5.31_20190423	Proprietary	ICP and ICC Configuration File
ICE Machine Behavior Settings	5.5.6.3 20190512	Proprietary	ICE Configuration
ICP2 Machine Behavior Settings	5.5.1.4 20190510	Proprietary	ICP2 Configuration

Figure 2 - MBS Scope of Conformance Version Numbers

d) Given the static nature of an EAC certified voting system, the only explanation for the presence of a non-certified components and version numbers of the MBS is an intentional manipulation and usage of non-certified, external systems to produce the version of MBS that was used with or imported into the Maricopa County voting systems in 2020 and 2022.

22) Dominion Voting Systems represents in their documentation that “Democracy Suite is an

Election Management System (EMS) that supports all ImageCast voting channels: early votes, vote by mail votes, Election Day votes from touchscreen ballot marking devices (ICX) and Scanner, and Uniformed and Overseas Citizens Absentee Voting Act (UOCAVA) votes, from a single comprehensive database.”<sup>6</sup> My examination of the slog.txt data also determined there was an issue with the verification of the election database that was resident on the ICP2 systems. That warning was once again on all slog.txt files that I examined. That warning stated that “[Verification] Election database version: 1.24 is not the same as election domain version.” The election database version that the ICP2 was programed to expect was 1.24. This indicates that the election was conducted with mismatched database versions, which would have increased the probability of errors in tabulation and reporting. Further analysis is required to determine if the mismatched databases could be leveraged to manipulate vote counts or modify tabulator behavior.



```
PCOS_Tab_Logs15682-A ENVISON COMMUNITY CENTER.log X
94 07 Oct 2020 21:23:22 [ProjectVerifier] WARN : [Verification] Election database version: 1.24 is not same as election domain versio
95 07 Oct 2020 21:23:22 [ProjectVerifier] INFO : [Verification] Connecting to election database finished
96 07 Oct 2020 21:23:22 [ProjectVerifier] INFO : [Verification] Loading MBS
97 07 Oct 2020 21:23:22 [ProjectVerifier] INFO : [File Access] Reading from file: /media/primary-card/mbs/behaviorsettings.mbs
98 07 Oct 2020 21:23:22 [ProjectVerifier] INFO : [Verification] Loading machine configuration to runtime settings started
99 07 Oct 2020 21:23:22 [ProjectVerifier] WARN : [Verification] Wrong mbs version: 5.10.9.4 Expecting: 5.10.1.4
```

Figure 3 - 2020 Slog.txt With Wrong mbs

<sup>6</sup> (A) AGREEMENT.pdf (fulton.pa.us) Page 26, Paragraph 3.5.1 – 3/7/2024



```
PCOS_Tab_Logs15682-A ENVISON COMMUNITY CENTER.log X
5553 08 Oct 2020 09:01:31 [CentralSupervisor] INFO : [Supervision] Motherboard temperature is 31 C
5554 08 Oct 2020 09:01:31 [CentralSupervisor] INFO : [Supervision] Temperature inside normal range
5555 08 Oct 2020 09:01:59 [ProjectVerifier] INFO : [Verification] Election domain version: 1.29
5556 08 Oct 2020 09:01:59 [ProjectVerifier] WARN : [Verification] Election database version: 1.24 is not same as election domain version
5557 08 Oct 2020 09:01:59 [ProjectVerifier] INFO : [Verification] Connecting to election database finished
5558 08 Oct 2020 09:01:59 [ProjectVerifier] INFO : [Verification] Loading MBS
```

Figure 4 - 2020 Election Database Mismatch

```
10248_A_SLOG.TXT X
runtime settings started
88 14 Oct 2022 11:37:30 [ProjectVerifier] WARN : [Verification] Wrong mbs version: 5.10.9.4
Expecting: 5.10.3.4
89 14 Oct 2022 11:37:30 [ProjectVerifier] INFO : [Verification] Loading conditional points from
alternative selectors
```

Figure 5 - 2022 Wrong MBS Version

```
10248_A_SLOG.TXT X
VerificationView
82 14 Oct 2022 11:37:30 [ProjectVerifier] INFO : [Verification] Election domain version: 1.29
83 14 Oct 2022 11:37:30 [ProjectVerifier] WARN : [Verification] Election database version: 1.24
is not same as election domain version
84 14 Oct 2022 11:37:30 [ProjectVerifier] INFO : [Verification] Connecting to election databas
finished
```

Figure 6 - 2022 Election Database Error

### Unprotected Encryption Keys

- 23) In the course of my analysis, I determined that there was a flagrant failure to protect the election encryption and decryption keys within the election databases in the Analyzed County Election Components. The DVS Democracy Suite utilizes a combination of a Rijndael Key, a Rijndael Vector, a Hash-based Message Authentication Code (HMAC) and a x509 security certificate to

encrypt, decrypt and authenticate data. This data includes code signing, data signing, communications, and tabulator results from ICC or ICP2 components. The protection of election encryption and decryption keys is prominently described by DVS within Democracy Suite Technical Data Package documents as the mitigation for the risk of a malicious actor tampering with the election database, election result files, scanned ballot images, device audit logs, device log reports, ballot definitions and other critical elements that could allow authorized or unauthorized parties, to alter the outcome of an election without detection. These keys have been left unprotected on the election database and are in plain text as shown below:



Figure 7 - Rijndael Key for Maricopa 2020 Election

- 24) The only barrier to access these keys is the Windows-log-in. This log in obviously would not prevent a malicious insider from changing results. A non-insider could easily bypass the Windows log-in feature in about 5 minutes with well-known hacking techniques available on the internet. Given the cyber security vulnerabilities, including the sharing of passwords between user accounts, access to all of these encryption elements is easily obtained. The encryption elements are stored in the MS SQL election database and are easily retrieved with a simple SQL query.
- 25) Simply put, this is like a bank having the most secure vault in the world, touting how secure it is to the public and then taping the combination in large font type on the wall next to the vault door. Anyone with local or remote access to the system, including authorized or unauthorized users, can obtain the certificates and keys and once obtained the entire election can be compromised. A simple example of the exploitation of these keys would be the modification of the results and

.dvd files that are transmitted or copied from the ICC scanners, HiPro scanners and the ICP2 tabulators prior to the ingestion of these files into the EMS for counting. By leveraging the decryption/encryption keys it is possible to script a program that would automatically change the contents of the ICP2 tabulator .dvd files, results.txt and cast vote records files prior to ingestion into the EMS. This altered vote count would not be logged as an intrusion or an error. Simply put, it would not be detected on the EMS.

### **The Maricopa County EMS Contains the Ability to Modify and Create Executable Files and Drivers on the Fly**

- 26) Contained on the Maricopa EMS are computer programs designed to create or modify executable files through a command line interface (CLI) by any user on the system. These programs are not found as part of approved and certified Voting System Platform software that is listed on the EAC's Scope of Certification posted on the EAC's website.<sup>7</sup>
- a) This document lists the following software packages as part of the certification:
- i) .Net Framework ver. 3.5
  - ii) Microsoft Visual J# ver 2.0
  - iii) Microsoft Visual C++ 2015 Redistributable
  - iv) Microsoft Visual C++ 2013 Redistributable
  - v) Java Runtime Environment ver 7u80
  - vi) Java Runtime Environment ver 8u144
- b) The Maricopa County EMS server program installations deviate from the EAC approved certification baseline and has the following programming software packages installed:
- i) Visual Studio 10
  - ii) Visual Studio 14

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<sup>7</sup> [https://www.eac.gov/sites/default/files/voting\\_system/files/DVS\\_5.5B\\_Certificate\\_Scope\\_Conformance.pdf](https://www.eac.gov/sites/default/files/voting_system/files/DVS_5.5B_Certificate_Scope_Conformance.pdf)

- iii) visual studio 2016 Prerequisites
  - iv) Microsoft Visual C++ 2013 x64 Debug Runtime - 12.0.21005
  - v) Microsoft Visual C++ Additional Runtime - 14.0.23026
  - vi) Microsoft Visual C++ 2015 x64 Debug Runtime - 14.0.23026
  - vii) Microsoft Visual J# 2.0 Redistributable Package - SE(x64)
  - viii) Microsoft Visual C++ 2013 x64 Minimum Runtime - 12.0.21005
  - ix) Microsoft Visual C++ 2013 x64 Additional Runtime - 12.0.21005
  - x) Microsoft Build Tools 14.0 (amd64)
  - xi) Microsoft Build Tools Language Resources 14.0 (amd64)
  - xii) Visual Studio 2015 Prerequisites - ENU Language Package
  - xiii) Microsoft Visual C++ 2010 x64 Redistributable - 10.0.40219
  - xiv) Microsoft Visual C++ 2015 x64 Minimum Runtime - 14.0.23026
  - xv) Microsoft Visual J# 2.0 Redistributable Package - SE (x64)
  - xvi) .Net Framework ver. 3.5
- c) Common to these software packages is the ability to compile code to create new executable files (.exe) or dynamic linked libraries (.dll) used to control the computer or the devices contained on the system. Within this list of unauthorized programs are two (2) Microsoft Build Tool packages. MSBuild is a build tool that helps automate the process of creating a software product, including compiling the source code, packaging, testing, deployment and creating documentations. Of particular interest is that the MSBuild utility can be executed with the command line interface (CLI), meaning that the compiling and creating functions of MSBuild can be automated and scripted. The MSBuild.exe file (SHA Hash: 1502e504e4f5e7d1abb96130f174a11c4aa59b2567cf9c0eda198132e39c4b37) is located on the Maricopa EMS in the C:\Windows\Microsoft.NET\Framework\v4.0.30319\MSBuild.exe file path.

27) To determine the scope of the presence of the MSBuild.exe compiler I examined the systems from

Antrim County Michigan, Fulton County Pennsylvania, and others. The complier was present on all of these jurisdiction's EMS. I have determined that twelve thousand five hundred and seven (12,507) executable files were created or modified after the August 6, 2019 installation date of the DVS Democracy Suite on the Maricopa voting systems. My findings also determined that there were three (3) of these files created during the actual voting process of the 2020 elections. These files are:

- a) AnalysisServer.bin created on 10/07/20 08:41:42 AM
- b) App\_Code.q2pxzik.dll created on 10/31/20 12:26:18 PM
- c) App\_global.asax.uf72y7eu.dll created on 10/31/20 12:26:20 PM

The creation and implementation of these files created after the installation date and certification date of the DVS Democracy Suite software violates and undermines the entire purpose for the EAC certification process.

### **EAC Accredited Voting System Test Labs Failed to Detect Material Changes to Maricopa County's Voting System Election Software**

- 28) Maricopa County engaged the two EAC accredited VSTLs to perform audits on the Dominion Voting Systems employed by the county in February of 2021. The SLI Compliance forensic report (the "SLI Report") was solicited by Maricopa County Elections Department after the 2020 election to among other things, "[v]erify that the software installed on the tabulation equipment is the same software certified by the EAC and the State of Arizona." The election software referred to in the SLI Report attachment contained a list of hash values purported to be the EAC certified software with hash values matching the DVS Democracy Suite version 5.5B certified system. The results of these audits were published on February 23, 2021 prior to the Arizona Senate commissioned audit. Neither of these audits reported the significant deviations found from my examination of Maricopa County's election software from the EAC Certification Scope of Conformance. Specifically:



a) The auditors only analyzed the hash values of a very small subset of the executable files on the systems. My analysis of the reports indicate that only files located in the file paths contained in the list of file hashes attached to the SLI Compliance report were evaluated by SLI Compliance. This report is included to this declaration as Exhibit A. Notably the auditor did not analyze or compare any files in the subdirectories of the Windows\.Net directory associated with the EMSApplicationServer functions or any other directory on the system.

b) The auditors did not perform a comparative analysis of the software listed in the EAC Scope of Conformance and note any deviations from the certified baseline. My analysis indicates significant differences between the installed files on the Maricopa EMS and the authorized software packages from the EAC Scope of Conformance. Had they done so they would have reported the software deviations discussed in Paragraphs 21, 22, 26 and 27.

c) I performed a comprehensive analysis of the hash values contained in the SLI Compliance report dated February 23, 2021. On every system that was produced to the Arizona Senate and had the respective package installed, the hash value for the following files deviated from the SHA256 hash value listed in the SLI compliance report:

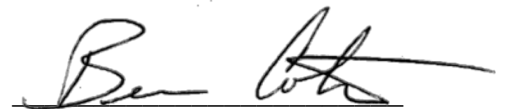
- i) AdjudicationClient.exe.config
- ii) DVS.Bridging.ImportAdapter.exe.Config
- iii) DVS.DemocracySuite.ElectionEventDesigner.exe.Config
- iv) DVS.DemocracySuite.ResultTally.exe.Config
- v) DVS.ICVA.GUI.exe.config
- vi) DefaultScanner.cfg

These deviations were not reported. It should be noted that all of these files which do not match the EAC certified file hashes are configuration files. These deviations from the approved EAC baseline are especially significant because changes to configuration files change how the election software acts and whether ballots have been accurately recorded and tabulated.

## CONCLUSION

29) It is clear, based on my findings, that unauthorized programs, databases, configuration settings and actions were present on the voting systems in Maricopa County for the elections in both 2020 and 2022. The election software Maricopa County used in the November 2020 and 2022 elections is not the Democracy Suite 5.5B software version approved by the EAC. The failure to maintain the EAC certification configuration should, among other things, immediately lead to the decertification of these systems. The placing of the master cryptographic keys on the election database in plain text and unprotected allows any actor with access to the voting system complete control over the election results. Any changes to the voting results leveraging these keys would likely not be detected. This is an egregious breach of basic security practices that must be remedied immediately. No election results provided by these voting machines can be trusted given the subjects identified and described in this report.

SIGNED UNDER THE PAINS AND PENALTIES OF PERJURY THIS 19th DAY OF March, 2024.



Benjamin R. Cotton

### Exhibits

Exhibit A - SLI Compliance report titled Forensic Audit Report, Report Number: MCA-21001-AR-01 dated February 23, 2021

Exhibit B - Pro V&V report titled Field Audit Report Dominion Voting Systems Democracy Suite (D-Suite) 5.5-B Voting System Maricopa Post-Election Field Audit dated February 23, 2021

# **Exhibit A**

# Forensic Audit Report

Report Number: MCA-21001-AR-01

## Dominion Voting Systems, Democracy Suite 5.5B

Report Rev 1.0

[February 23, 2021]

Prepared for: **Maricopa County Elections Department**

Prepared by:



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*SLI Compliance, a Division of Gaming Laboratories International LLC*



## Revision History

Date	Release	Author	Revision Summary
February 23, 2021	1.0	M. Santos	Initial release

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### Disclaimer

The observations and conclusions reported herein must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Results herein relate only to the items evaluated.

All evaluation conducted for this engagement has been done outside of the U.S. Election Assistance Commission's (EAC) Test and Certification Program. In no way does this report represent an EAC certification against the Voluntary Voting System Guidelines (VVSG) or any other standard.

The audit activities referenced in this document were performed in a controlled environment using specific systems and data sets, and results are related to the specific items evaluated. Actual results in other environments may vary.



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## 1 Introduction

SLI Compliance is submitting this report as a summary of forensic auditing efforts, solicited by Maricopa County Elections Department. The forensic audit conducted consisted of an analysis and review of the voting system equipment used in the November 3<sup>rd</sup>, 2020 presidential election and records from that election, to extract facts about the use of the Dominion Voting Systems Democracy Suite 5.5B voting system.

The Maricopa County forensic audit was conducted on the Dominion Democracy Suite (DS) 5.5B system and included examination of the following items per direction given by Maricopa County Elections Department:

- 100% (9) of the County's central count tabulators (ICC) (4 Hi-Pro high-speed scanners and 5 Cannon high-speed scanners), which are used for processing large quantities of ballots.
- 100% (4) workstations and (2) servers used to operate the election management system (EMS), which includes pre-election functions for creating the election definition for the specified election, as well as post-election activities including accumulating, tallying and reporting election results.
- 10% sample (35) of the County's 350 precinct-based tabulators (ICP2s) that were utilized in the election, at the polling centers.
- 20% sample (4) of 20 adjudication stations, which allow ballots with exceptions or outstack conditions such as over-votes, blank ballots, write-ins and marginal marks, to be resolved.

This effort included verification of the following items:

1. Verifying that the software installed on the tabulation equipment is the same as the software certified by the U.S. Election Assistance Commission and the Arizona Secretary of State.  

This item is applicable to ICP2 (precinct scanner), EMS (election management system – workstations and servers), ICC (central count system) and Adjudicator (ballot resolver).
2. Verifying that no malicious software is running on the component.  

This item is applicable to ICP2 (precinct scanner), EMS (election management system – workstations and servers), ICC (central count system) and Adjudicator (ballot resolver).
3. Verifying that the components are not connected to the internet and that they have not been connected to the internet during the period of July 6, 2020 through November 20, 2020.



This item is applicable to ICP2 (precinct scanner), EMS (election management system – workstations and servers), ICC (central count system) and Adjudicator (ballot resolver).

4. Performing a physical audit of the components to verify there is no unexpected hardware (a sample of 5 ICP2 precinct scanners).

This item is applicable to ICP2 (precinct scanner).

Below is a listing of when each item above was completed for each relevant component.

For Item #1, verifying **component hashes against EAC generated hashes**:

- Item #1 was complete for ICP on Day 1
- Item #1 was complete for EMS workstations on Day 3
- Item #1 was complete for EMS servers on Day 5
- Item #1 was complete for ICC on Day 3
- Item #1 was complete for Adjudicator on Day 3

For Item #2, verifying **that no malicious software is running on the component**:

- Item #2 was complete for ICP on Day 3
- Item #2 was complete for EMS workstations on Day 4
- Item #2 was complete for EMS servers on Day 4
- Item #2 was complete for ICC on Day 5
- Item #2 was complete for Adjudicator on Day 4

For Item #3, verifying components **are not connected to the internet**:

- Item #3 was complete for ICP on Day 3
- Item #3 was complete for EMS workstations on Day 4
- Item #3 was complete for EMS servers on Day 5
- Item #3 was complete for ICC on Day 5
- Item #3 was complete for Adjudicator on Day 4

For Item #4, verifying **physical audit of the ICP component**:

- Item #4 was complete for ICP on Day 1





This audit was performed at a Maricopa County Election Department facility, located at 510 South 3<sup>rd</sup> Avenue, Phoenix, Arizona, over a five day period, from February 8<sup>th</sup> to February 12<sup>th</sup>, 2021.

- Attachments included are as listed:
  - Attachment A – Hashes by Component
  - Attachment B – User Activity and Malicious Software Review
  - Attachment C – Networking Review Criteria

## 2 Process

SLI Compliance conducted the forensic audit in a way that maximized efficiencies in examining the election artifacts.

The process included creation of raw disk images that allowed the examiners to audit and analyze the systems without the risk of changing the original system environments. Once the system media was imaged using a bit-to-bit copy of each item of system media, the examiners were able to mount and use forensic tools to inspect the systems for indicators of internet connectivity, as well as indicators of malicious or unauthorized software present on the systems.

Due to the County's strict policies regarding maintenance of the election infrastructure air gap, where election related devices are not allowed to be connected to non-election devices, SLI Compliance had to demonstrate the ability to prevent write back to any election media or resources. To fulfill this requirement, SLI Compliance utilized the WriteProtect™-BAY technology to prevent contamination of any of the election media during the forensic audit.

The WriteProtect™-BAY technology provides read-only, write blocking technology at a hardware layer, preventing inadvertent modification of election media during the audit. The WriteProtect™-BAY provides multiple write protected ports that allow for a wide variety of storage media to be connected in a read only write protected manner.

Examination for Item #1, verification of hashes, included usage of

- Md5deep hashing application, resident on auditing workstation with a Win10 operating system, for hashing extracted files utilizing a Sha256deep algorithm
- MS Excel spreadsheet utilizing comparison formulas, for comparing and determining if files have matching hash codes



Examination for Item #2, checking for malicious software, included usage of

- ClamWin Antivirus checks for software threats including viruses and spyware (utilizing engine version 0.99.4)
- Malwarebytes protection against software threats like viruses, malware, and spyware (utilizing component package version 1.0.1157, update package version 1.0.1157)
- Microsoft Defender Antivirus protection against software threats like viruses, malware, and spyware (utilizing security intelligence version 1.331.708.0)
- ESET Endpoint Antivirus protection against software threats including malware, viruses, worms and spyware (ESET Antivirus 7.3.2044.0)
- OSForensics, a digital examination tool that extracts data, including hidden data, from a PC
- Manual review utilizing a malicious software review checklist
- For the EMS servers, due to their configuration, a different antivirus, Avast, was utilized for examination

Examination for Item #3, internet connectivity check, included usage of

- OSForensics, a digital examination tool that extracts data, including hidden data, from a PC
- Manual review utilizing an internet connectivity review checklist

Examination for Item #4

- Four ICP2 devices were opened to show the internal components resident within
- A fifth ICP2 device was opened and all components removed from the chassis for a full examination of each internal component

### **3 Examination**

This section details the proceedings of the examination, as conducted onsite at the Maricopa County Elections Department facilities.

#### **Day 1**

- Out of a pool of 315 available ICP2 precinct scanners (35 had been examined in a previous audit), SLI Compliance examined each and selected 35 ICP2s, based, in part, on any anomalies noticed on devices. This included missing labels or seals. Note: Due to defective batteries that would not attain the 10% minimal charge



needed to operate the device, five of the ICP2s originally selected would not power up, so they were replaced by five other ICP2s.

- Out of a pool 16 available Adjudication workstations (4 had been examined in a previous audit), SLI Compliance selected 4 Adjudication workstations.
- SLI Compliance auditors then recorded serial numbers of each of the 35 ICP2s, 4 adjudication workstations, all 9 of Maricopa County's ICC central count stations and all 4 Maricopa County EMS workstations, and 2 EMS servers. All labels and seals which had an associated serial number were recorded as well.
- To capture a full data set of the environments being examined, and to prevent contamination of the environments, SLI Compliance performed cloning operations on all workstations and all Administrator SD cards collected from the ICP2 devices.
- Dominion voting system files were extracted from the 35 ICP2s to validate against EAC generated hash codes, which are used to validate that each file's content has not been modified.
- The files were then hashed and compared to the EAC generated hash codes and verified to match. This verified **Item #1** for the 35 evaluated **ICP2** components.
- Cloning of the 4 Adjudicator workstations was initiated and completed.
- Cloning of the 9 ICC workstations was initiated.
- Physical audit of 5 ICP2s was conducted to verify no unexpected hardware was resident within the device. This verified **Item #4** for the **ICP2** components.
- The ICP2 contains an internal SD card that contains all information resident on the ICP2. That card was removed and examined to verify that no unexpected or malicious items were resident. Contents were also compared to artifacts that were extracted earlier as part of the Dominion file extraction process. All artifacts matched as expected.

## Day 2

- Cloning of the 9 ICC workstations was completed.
- It was determined that the audit log (needed for review for determination of any connections to the internet) was resident on both the Administrator SD card and the Pollworker SD card. As the Pollworker card is the card pulled during election activities for results determinations, SLI Compliance auditors utilized the Administrator SD card. These cards were pulled and cloned, and then the audit log was obtained.
  - Note that six of the sampled ICP2 devices did not have SD cards. Maricopa County personnel informed the auditors that when a device needs to be replaced, the cards are pulled and utilized in the replacement device. Documentation was provided by the County for five of the ICP2 devices as



being replaced in the field. These devices were replaced due to tabulators not powering on, or needing to be replaced due to ball point pens being used which smeared the mylar screen on the scanner. The County indicated that the sixth device was prepared as a spare unit, but was never utilized in the election, and thus never had SD cards inserted.

- Review of ICP2 logs for any internet connections was initiated.
- Review of ICP2 files for any unknown/malicious software was initiated.
- Review of Adjudicator workstation logs for any internet connections was initiated.
- Review of Adjudicator workstation files for any unknown/malicious software was initiated.

### Day 3

- Dominion voting system files were extracted from the four Adjudicator workstation cloned images to validate against EAC generated hash codes, which are used to validate that each file's content has not been modified.
- The Adjudicator workstation files were then hashed and compared to the EAC generated hash codes and verified to match. This verified **Item #1** for the 4 evaluated **Adjudicator** workstation components.
- Dominion voting system files were extracted from the nine ICC workstation cloned images to validate against EAC generated hash codes, which are used to validate that a files content has not been modified.
- The ICC workstation files were then hashed and compared to the EAC generated hash codes and verified to match. This verified **Item #1** for the 4 evaluated **ICC** workstation components.
- Review of ICP2 files for any unknown/malicious software was completed. This verified **Item #2** for the **ICP2** components.
- Review of ICP2 logs for any internet connections was completed. This verified **Item #3** for the **ICP2** components.
- Dominion voting system files were extracted from the four EMS workstation cloned images to validate against EAC generated hash codes, which are used to validate that each file's content has not been modified.
- The EMS workstation files were then hashed and compared to the EAC generated hash codes and verified to match. This verified **Item #1** for the 4 evaluated **EMS workstation** components.



## Day 4

- Review of EMS files for any unknown/malicious software was completed. This verified **Item #2** for the **EMS workstation** components.
- Review of EMS logs for any internet connections was completed. This verified **Item #3** for the **EMS workstation** components.
- Dominion voting system files were extracted from the two EMS servers to validate against EAC generated hash codes, which are used to validate that each file's content has not been modified.
- The EMS server files were then hashed and compared to the EAC generated hash codes and verified to match. This verified **Item #1** for the 2 evaluated **EMS server** components.
- Review of Adjudicator files for any unknown/malicious software was completed. This verified **Item #2** for the **Adjudicator** components.
- Review of Adjudicator logs for any internet connections was completed. This verified **Item #3** for the **Adjudicator** components.

## Day 5

- Review of EMS server files for any unknown/malicious software was completed. This verified **Item #2** for the **EMS server** components.
- Review of EMS server logs for any internet connections was completed. This verified **Item #3** for the **EMS server** components.
- Review of ICC files for any unknown/malicious software was completed. This verified **Item #2** for the **ICC** components.
- Review of ICC logs for any internet connections was completed. This verified **Item #3** for the **ICC** components.



## **4 Audit Findings Determinations**

This section identifies the determinations for each review criterion, covering the relevant DS 5.5B components.

**Item #1 Verifying that the software installed on the tabulation equipment is the same as the software that was certified by the U.S. Election Assistance Commission and the Arizona Secretary of State.**

### **ICP2 (precinct scanner)**

Each of the 35 ICP2s that were examined had the voting system files extracted following the Dominion prescribed procedure. Those files were then hashed, with the md5deep tool, and compared to the relevant EAC hash codes, which determined that the Dominion Voting Systems files remained unmodified from the certified files.

For the five ICP2s that were opened for Item #4, the internal SD cards were compared to the extracted files and were verified to match.

The Internal SD cards were bit-by-bit cloned, and then the image was restored onto duplicate SD cards for examination with Kali Linux 2020.4. This allowed the examiners to determine that the files contained on the internal SD storage cards matched those that were extracted using the Dominion defined hash verification methods.

### **EMS (election management system – workstations and servers)**

Each of the six EMSs that were examined had all voting system files extracted. Those files were then hashed with the md5deep tool and compared to the relevant EAC hash codes, which determined that the Dominion Voting Systems files remained unmodified from the certified files.

Each of the four EMS client systems were first bit-by-bit imaged, and then the images were mounted read-only for file extraction and verification. This allowed the examiners to maintain a clean snapshot of the EMS client systems under evaluation.

The EMS servers contained encrypted raid drives that didn't allow for bit-by-bit media imaging, so the EMS servers had to be examined under the close scrutiny of County officials, including maintaining strict air-gap policies for introduction of clean media into the environment. This included monitored use of brand-new USBs (witnessed to be removed from original packaging) to obtain election software for verification.

### **ICC (central count system)**

Each of the nine ICCs that were examined had all voting system files extracted. Those files were then hashed with the md5deep tool and compared to the relevant EAC hash codes, which determined that the Dominion Voting Systems files remained unmodified from the certified files.

Each of the nine ICC client systems were first bit-by bit-imaged, and then the images were mounted read-only for file extraction and verification. This allowed the examiners to maintain a



clean snapshot of the ICC client systems examined. It should be noted that additional hardware was required to process and image M.2 NVMe drive technology. All ICC systems were successfully imaged using the WriteProtect™-BAY technology.

### **Adjudicator (ballot resolver)**

Each of the four Adjudicators that were examined had all voting system files extracted. Those files were then hashed with the md5deep tool and compared to the relevant EAC hash codes, which determined that the Dominion Voting Systems files remained unmodified from the certified files.

Each of the four Adjudication client systems were first bit-by-bit imaged, and then the images were mounted read-only for file extraction and verification. This allowed the examiners to maintain a clean snapshot of the Adjudication client systems examined.

No modifications were found by SLI Compliance to the installed Dominion software from the EAC certified release.

### **Item #2: Verifying that no malicious software is running on the component.**

#### **ICP2 (precinct scanner)**

All files on each of the ICP2s were examined to determine if any malicious files were resident. Four different antivirus scanners were utilized (Windows Defender, ESET Endpoint Protection, ClamWin and Malwarebytes), as well OSForensics, a digital forensics tool, to examine the contents of each component.

No instance of malicious software was found on any of the devices.

In addition to using multiple forms of antivirus and malicious software detection software, the verification of all of the systems' software against trusted hash repositories stored by the Election Assistance Commission determined that no unexpected files or processes were present on the ICP2 Systems.

#### **EMS (election management system)**

All files on each of the EMSs were examined to determine if any malicious files were resident. On the four workstations, four different antivirus scanners were utilized (Windows Defender, ESET Endpoint Protection, ClamWin and Malwarebytes), as well OSForensics, a digital forensics tool, to examine the contents of each component.

In addition to using multiple forms of antivirus and malicious software detection software, manual examination of the systems was conducted to identify malicious or unauthorized software on the systems. These inspections included:

- 1) Inspection of the system registry. This included items such as Windows 'Run' entries, most recently used programs, recent documents, and Windows Explorer last visit.





- 2) Inspection of the system file system and installed programs: installed programs, autorun commands, shellbag entries, Windows userassist, download history, and USB history.
- 3) Inspection of the system audit logs. Includes Windows event logs, browser history, search terms, website logins, Windows timeline events, and host system antivirus logs.

On the two servers, Avast antivirus was utilized, as well OSForensics, a digital forensics tool, to examine the contents of each component. The examination of the EMS servers was performed manually, and all information for the EMS servers was pulled manually, for export and examination with the OSForensics tool on a separate system.

No instance of malicious software was found on any of the devices.

### **ICC (central count system)**

All files on each of the ICCs were examined to determine if any malicious files were resident. On the four workstations, four different antivirus scanners were utilized (Windows Defender, ESET Endpoint Protection, ClamWin and Malwarebytes), as well OSForensics, a digital forensics tool, to examine the contents of each component.

In addition to using multiple forms of antivirus and malicious software detection software, manual examination of the systems was conducted to identify malicious or unauthorized software on the systems. These inspections included:

- 1) Inspection of the system registry. This included items such as Windows 'Run' entries, most recently used programs, recent documents, and Windows Explorer last visit.
- 2) Inspection of the system file system and installed programs: installed programs, autorun commands, shellbag entries, Windows userassist, download history, and USB history.
- 3) Inspection of the system audit logs. Includes Windows event logs, browser history, search terms, website logins, Windows timeline events, and host system antivirus logs.

No instance of malicious software was found on any of the devices.

### **Adjudicator (ballot resolver)**

All files on each of the ICCs were examined to determine if any malicious files were resident. On the four workstations, four different antivirus scanners were utilized (Windows Defender, Endpoint, ClamWin and Malwarebytes), as well OSForensics, a digital forensics tool, to examine the contents of each component.

In addition to using multiple forms of antivirus and malicious software detection software, manual examination of the systems was conducted to identify malicious or unauthorized software on the systems. These inspections included:

- 1) Inspection of the system registry. This included items such as Windows 'Run' entries, most recently used programs, recent documents, and Windows explorer last visit.





- 2) Inspection of the system file system and installed programs: installed programs, autorun commands, shellbag entries, Windows userassist, download history, and USB history.
- 3) Inspection of the system audit logs. Includes Windows event logs, browser history, search terms, website logins, Windows timeline events, and host system antivirus logs.

No instance of malicious software was found on any of the devices.

SLI Compliance found no malicious software components on the installed software.

**Item #3: Verifying that the components are not connected to the internet and that they have not been connected to the internet during the period of July 6, 2020 through November 20, 2020.**

### **ICP2 (precinct scanner)**

Manual examination and usage of the tool OSForensics, a digital forensics tool, were used to examine the activities of each ICP2 component, looking to determine if any connections were made to the internet, with primary focus on the time period of July 6, 2020 through November 20, 2020.

Manual examination and the OSForensics software were used to inspect the systems to identify if there were any instances of the systems being connected to an internet routed network. These inspections included:

- 1) Manual examination of the ICP2's storage partitions including the "ICP2-Boot" and "ICP2-Data" for logfiles, connection strings, ethernet callouts.
- 2) Inspection of the system file system and installed programs, extraction and examination of the squashfs system files.
- 3) Inspection of the system audit logs including the election logs, system logs and the system's diagnostic logs.
- 4) Searched for ethernet, modem, and wireless connectivity settings.
- 5) Examination and research for WLAN, ethernet and modem connectivity, logs, configuration, and usage.

No evidence of internet connectivity was found.



### **EMS (election management system)(workstations and servers)**

OSForensics, a digital forensics tool, was used to examine the activities of each EMS component, looking to determine if any connections were made to the internet, with primary focus on the period of July 6, 2020 through November 20, 2020.

OSForensics software was used to inspect the systems to identify if there were any instances of the systems being connected to an internet routed network. These inspections included:

- 1) Inspection of the system registry. This included items such as Windows 'Run' entries, most recently used programs, recent documents, and Windows Explorer last visit.
- 2) Inspection of the system file system and installed programs: installed programs, autorun commands, shellbag entries, Windows userassist, and download history.
- 3) Inspection of the system audit logs; includes Windows event logs, browser history, search terms, website logins, and Windows timeline events.
- 4) USB history, to determine if there were any unauthorized wireless or USB ethernet devices plugged in and to determine if the systems were connected to an unauthorized network connection via a USB device.

In the case of the EMS server systems for which the OSForensics tools could not be utilized due to the air-gap policy, all of the information was manually examined.

- 1) Inspection of the system registry. This included items such as Windows 'Run' entries, most recently used programs, recent documents, and Windows Explorer last visit.
- 2) Inspection of the system file system and installed programs: installed programs, autorun commands, shellbag entries, Windows userassist, and download history.
- 3) Inspection of the system audit logs; includes Windows event logs, browser history, search terms, website logins, and Windows timeline events.
- 4) USB history, to determine if there were any unauthorized wireless or USB ethernet devices plugged in and to determine if the systems were connected to an unauthorized network connection via a USB device.
- 5) Examination and research for WLAN connectivity.
- 6) Verification of the server's ARP tables, routing lists, established connections, DNS server configurations, and netstat information.

No evidence of internet connectivity was found.

### **ICC (central count system)**

OSForensics, a digital forensics tool, was used to examine the activities of each ICC component, looking to determine if any connections were made to the internet, with primary focus on the time period of July 6, 2020 through November 20, 2020.

OSForensics software was used to inspect the systems to identify if there were any instances of the systems being connected to an internet routed network. These inspections included:



- 1) Inspection of the system registry. This included items such as Windows 'Run' entries, most recently used programs, recent documents, and Windows Explorer last visit.
- 2) Inspection of the system file system and installed programs: installed programs, autorun commands, shellbag entries, Windows userassist, and download history.
- 3) Inspection of the system audit logs; includes Windows event logs, browser history, search terms, website logins, and Windows timeline events.
- 4) USB history, to determine if there were any unauthorized wireless or USB ethernet devices plugged in and to determine if the systems were connected to an unauthorized network connection via a USB device.

One ICC had a log entry of a connection attempt, with no corresponding DNS failure message, on August 26, 2020. The connection attempt itself was a search for how to adjust screen brightness. Examination of all other log files on that machine did not provide evidence of a successful internet connection.

No evidence of internet connectivity was found. Such evidence would have been found if the system had been connected to the internet.

### **Adjudicator (ballot resolver)**

OSForensics, a digital forensics tool, was used to examine the activities of each Adjudicator component, looking to determine if any connections were made to the internet, with primary focus on the time period of July 6, 2020 through November 20, 2020.

OSForensics software was used to inspect the systems to identify if there were any instances of the systems being connected to an internet routed network. These inspections included:

- 1) Inspection of the system registry. This included items such as Windows 'Run' entries, most recently used programs, recent documents, and Windows Explorer last visit.
- 2) Inspection of the system file system and installed programs: installed programs, autorun commands, shellbag entries, Windows userassist, and download history.
- 3) Inspection of the system audit logs; includes Windows event logs, browser history, search terms, website logins, and Windows timeline events.
- 4) USB history, to determine if there were any unauthorized wireless or USB ethernet devices plugged in and to determine if the systems were connected to an unauthorized network connection via a USB device.

No evidence of internet connectivity was found.

SLI Compliance found there to be no internet connectivity occurring within the specified time period (July 6, 2020 through November 20, 2020) on any of the examined components.



**Item #4: Performing a physical audit of the components to verify there is no unexpected hardware (5 ICP2 precinct scanners).**

Physical examination of the ICP2 component included removal of the outer cover, as well an inner cover to expose the resident circuit boards and accompanying components on four ICP2s. A fifth ICP2 precinct scanner was taken even further, such that all components were completely removed from the chassis for examination.

The examination showed that there were no physical components resident that were not expected to be there.

SLI Compliance's findings indicate that the installed hardware is the hardware that was certified as part of the EAC certification and that none of the examined components contains any malicious or unexpected hardware components.

## **5 Summary Findings**

SLI Compliance has completed the audit of the Dominion Voting Systems Democracy Suite 5.5B voting system components as prescribed by the Maricopa County Elections Department.

SLI Compliance maintained the integrity of the audited system components by performing a bit-by-bit image of all systems examined by SLI Compliance, except for the two EMS servers that were live systems. Unused media from original packaging was used to remove or extract data from the live systems. In all instances when removing or examining system storage media, the County required that proof of write back protection be demonstrated, to protect the election infrastructure's air-gapped environment.

Physical examination of the County election infrastructure indicated that the physical setup of the systems is arranged so that all network connectivity is clearly marked and delineated. This means that, at any time, observers can examine and determine that the election systems are connected only to authorized networking. Separate cable runs are positioned to clearly identify all network cabling to and from election devices, and cables are color coded for easy identification. In addition, the entire election area is fully covered by cameras that may be used for observing the election process and maintaining a historic record of events on the election processing floor.

While the systems examined showed no malicious or networking related USB devices being connected, the systems examined didn't provide a physical or a digital method of preventing unauthorized USB devices to the systems. In this particular case, County policy drives control of USB connectivity.

For the four items being examined,

1. Verifying that the software installed on the tabulation equipment is the same as the software that was certified by the U.S. Election Assistance Commission and the Arizona Secretary of State.



This item is applicable to ICP2 (precinct scanner), EMS (election management system – workstations and servers), ICC (central count system) and Adjudicator (ballot resolver).

SLI Compliance’s findings indicate that the installed Dominion software remains unmodified from the EAC certified release.

2. Verifying that no malicious software is running on the component.

This item is applicable to ICP2 (precinct scanner), EMS (election management system – workstations and servers), ICC (central count system) and Adjudicator (ballot resolver).

SLI Compliance’s findings indicate that the installed software does not contain any malicious software components.

3. Verifying that the components are not connected to the internet and that they have not been connected to the internet during the period of July 6, 2020 through November 20, 2020.

This item is applicable to ICP2 (precinct scanner), EMS (election management system – workstations and servers), ICC (central count system) and Adjudicator (ballot resolver).

One ICC had a log entry of a connection attempt, with no corresponding DNS failure message, on August 26, 2020. Examination of all other log files on that machine did not provide evidence of a successful internet connection. No other component examined had any anomalies.

4. Performing a physical audit of the components to verify there is no unexpected hardware (5 ICP2 precinct scanners).

This item is applicable to ICP2 (precinct scanner).

SLI Compliance’s findings indicate that the installed hardware is only the hardware that was certified as part of the EAC certification and that none of the examined components contains any malicious or unexpected hardware components.

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**End of Forensic Audit Report**

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# SLI Compliance

## Adjudication

Version: 5.5.32.1	
Filename	SHA-256 Value
Program Files (x86)\Dominion Voting Systems\Adjudication Client\AdjudicationClient.exe	5b07834c5bb79c542df57fad9dc6ddd37159d2d9318a2be20edc0762a71d14a
Program Files (x86)\Dominion Voting Systems\Adjudication Client\AdjudicationClient.exe.config	ac104ab9b4f2c5921f8dd2ad8c2042c5c1313315bb94f31b770a3c932e26c484
Program Files (x86)\Dominion Voting Systems\Adjudication Client\BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fcd2bc08ded5cb71465
Program Files (x86)\Dominion Voting Systems\Adjudication Client\DVS.Common.dll	2350a09486f0bc62c96607b6ea70e1edf9731803a5ef622302144a9fe043bb00
Program Files (x86)\Dominion Voting Systems\Adjudication Client\DVS.EMS.Infrastructure.dll	08bff90e689c25cf3e4a23b91e11932e5d868c7ec12455ca6794937414116c91
Program Files (x86)\Dominion Voting Systems\Adjudication Client\DVS.EMS.Services.Common.dll	636fda238c8c9e2fd25a6d6af897558950c2694be398f8e8f681a3952bdbc
Program Files (x86)\Dominion Voting Systems\Adjudication Client\DVS.Utilities.Common.dll	d5fa1b91e9e915eaa2a3801bae98166c0fb3dd33353e9fde951b2409104f6b2a
Program Files (x86)\Dominion Voting Systems\Adjudication Client\DVS.Windows.dll	b3ecc7e75b0eef7c86e2faf4bab3485f97822a1ca48dd0b73905b78925a96839
Program Files (x86)\Dominion Voting Systems\Adjudication Client\logging.config	814817711f24e4b213db6cd3766f5ab8ecb402e7cf57c2c61f64653e1d284c69
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.EnterpriseLibrary.Common.dll	cb0153495092cab9bb80803c51b25f00a550deae28b35007c60888dbc1529673
Program Files (x86)\Dominion Voting Systems\Adjudication Client\libeay32.dll	d11e92f738e6f1ac5b8ba1393d2ae3378ba55757822a856da3a9cba9fe124723
Program Files (x86)\Dominion Voting Systems\Adjudication Client\itextsharp.dll	f6576c783a8db98c4a09919ea0a8b8bff70ac1729d3aa2935e07c6e639f25070
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.EnterpriseLibrary.Logging.dll	6f785c20eae305a430d1bfc358d8a54b3a218238fd3a444ca29aba1e77108fa8
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.Prism.dll	f1043059a9a6630d152bb6a56effb3f1e295546ab4cf791487762571866b740f
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.Prism.UnityExtensions.dll	01762c0060c3a080c3f99c6b7b8574643a904b360be2bd006484b3e00be0cbff
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.ServiceLocation.dll	2028dba77ffec0fb9f3cf5aba68868d6f706cb2599b1a67d5784d1cc411ccf7
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.Unity.Configuration.dll	d91f9863439bd849889105ecc3182eb1dc14e8e6bc7aa33b9058b5e837ea271
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.Unity.dll	201655cd2f641ac05e450fb03ce763afbc5e859d6ce1a25ae7fef3c27a2ee39a
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.Unity.Interception.dll	79ec0b9b9752fe63c0c37bc4217c2e7d9ea33016107e3870d5e61889eb8cc3e3
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\DVS.Adjudication.Clients.AdjudicationClient.Module.dll	6e51b3c847ce90e67314f2a0b691448f68b412bfc18a89cb7914792165b836c4
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\DVS.Adjudication.Domain.dll	27fb3194185ddcfe4814bff84e3a8c6c9394eb7937e632c0c573ded596851f10
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\DVS.Adjudication.Services.Data.Contract.dll	85c6fe8ba99309224162f47200209e7051a6082141c98291166a77586874cccc
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\DVS.Tabulation.Domain.dll	560e67fe10fb370119bcf3a43a22620b2d05699a93e5600c2782ca37eb5ecede
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\EntityFramework.dll	ed6ebd749052f9018f6699671ae5469adedf086cf8b1bd4256bbe9c4e7f6ff05
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\EntityFramework.SqlServer.dll	a1bf6c9e3820e83f43e9f20dd7d9b0a3362a93146f0afe0b1330185e2d51b0cb
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Controls.Reports.v13.1.dll	0b48851dd13827e8e823309de69903a5343f31c05f7d0e3dc73753ff7055b6ff
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Models.Data.v13.1.dll	4c8c0860c7adc2007fde5e242086df7f52807907dba5e21cfb9569f56e65e271
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Models.Presentation.v13.1.dll	f778ce2c251ffa7b029148b0cf126a71e30a1a16a98f23f8494bb40bb1bb1a07
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Reports.Client.v13.1.dll	a5bc22bda49b24597b3572be6c72b897c7b58765a836034042dcaddb6b217765

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Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\InfragisticsWPF4.Reports.Controls.Charts.XamDataChart.v13.1.dll	35e8f99e2c29ef2fe8c877eb1d55e83597b5bf9c51cccbfffebbaa02805ee6284
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\InfragisticsWPF4.Reports.Controls.Common.v13.1.dll	cc7b06a5d334d2bdb00318ce79a67e79f765d4ce9315b40fbb3a562c3a83a657
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\InfragisticsWPF4.Reports.Controls.DataVisualization.v13.1.dll	68305b8f0656ad80af0aa7518acb2f17f7d6fda1d8a0c364fd0ad9e4efc1aa98
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\InfragisticsWPF4.Reports.Excel.v13.1.dll	ee89a298f47ece1187244d347ba07589f16a850a0cead18c5524d7d1902aa3e3
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\InfragisticsWPF4.Reports.Pdf.v13.1.dll	c0c2596ebcd8b0ad5fbc657481e72789d9f4a03623bf73b738a08a73e6b24e9c
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\InfragisticsWPF4.Reports.v13.1.dll	770f62761c34ed3208f817436263d47b713eee79f0c6c833f913da2d8a14e57e
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Microsoft.Expression.Drawing.dll	c4f7b7d98db894d7b19d2dd25b0b1987d195778b35302152ed3d5e4f3e5901a4
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\ToggleSwitch.dll	e8d5bbabd2551547bdcf06dac30b4c9297a6f76f55ba2b8f382a5f8abf6ade43
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\TreeViewEx.dll	573a2f18cb21295a135a0eeb46cf632a0e8c3dc18ff0b40f1edac9d4af7f7a89
Program Files (x86)\Dominion Voting Systems\Adjudication Client\openssl.cnf	0414ea6e5553e4a0eecd1d78878efee4727e58e7d792c19f0b4521e98ac772df
Program Files (x86)\Dominion Voting Systems\Adjudication Client\openssl.exe	2634dd8cb1438d50dedb034ae6fff3fb1282dde84696f927b53b05b02f6484ca
Program Files (x86)\Dominion Voting Systems\Adjudication Client\SecurityKeyInstaller.exe	bf02bb8bc766c46694ec5ff4cbfbc39df1c7c57abadb8d0abdc3e85874c67a9a
Program Files (x86)\Dominion Voting Systems\Adjudication Client\SecurityKeyInstaller.exe.config	1d71ccb93cad99bb4873c4372bd6c9e997ce22d87b716b73f85d77b7cfa84e0
Program Files (x86)\Dominion Voting Systems\Adjudication Client\ssleay32.dll	28f2fe4d27b694023255f8dbfa6e30ff81d3155c12bd0060e30bd7c39e4ea19f
Table C.2 Adj Client 32bit	
<b>Version: 5.5.32.1 32-bit</b>	
<b>Filename</b>	<b>SHA-256 Value</b>
Program Files (x86)\Dominion Voting Systems\Adjudication Client\AdjudicationClient.exe	5b07834c5bb79c542df57fad9dc6ddd37159d2d9318a2be20edc0762a71d14a
Program Files (x86)\Dominion Voting Systems\Adjudication Client\AdjudicationClient.exe.config	ac104ab9b4f2c5921f8dd2ad8c2042c5c1313315bb94f31b770a3c932e26c484
Program Files (x86)\Dominion Voting Systems\Adjudication Client\BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fcd2bc08ded5cb71465
Program Files (x86)\Dominion Voting Systems\Adjudication Client\DVS.Common.dll	2350a09486f0bc62c96607b6ea70e1edf9731803a5ef622302144a9fe043bb00
Program Files (x86)\Dominion Voting Systems\Adjudication Client\DVS.EMS.Infrastructure.dll	08bff90e689c25cf3e4a23b91e11932e5d868c7ec12455ca6794937414116c91
Program Files (x86)\Dominion Voting Systems\Adjudication Client\DVS.EMS.Services.Common.dll	636fda238c8c96e2fd25a6d6af897558950c2694be398f8e8f681a3952bdbc
Program Files (x86)\Dominion Voting Systems\Adjudication Client\DVS.Utilities.Common.dll	d5fa1b91e9e915eaa2a3801bae98166c0fb3dd33353e9fde951b2409104f6b2a
Program Files (x86)\Dominion Voting Systems\Adjudication Client\DVS.Windows.dll	b3ecc7e75b0eef7c86e2faf4bab3485f97822a1ca48dd0b73905b78925a96839
Program Files (x86)\Dominion Voting Systems\Adjudication Client\itextsharp.dll	f6576c783a8db98c4a09919ea0a8b8bff70ac1729d3aa2935e07c6e639f25070
Program Files (x86)\Dominion Voting Systems\Adjudication Client\libeay32.dll	d11e92f738e6f1ac5b8ba1393d2ae3378ba55757822a856da3a9cba9fe124723
Program Files (x86)\Dominion Voting Systems\Adjudication Client\logging.config	814817711f24e4b213db6cd3766f5ab8ecb402e7cf57c2c61f64653e1d284c69

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Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.EnterpriseLibrary.Common.dll	cb0153495092cab9bb80803c51b25f00a550deae28b35007c60888dbc1529673
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.EnterpriseLibrary.Logging.dll	6f785c20eae305a430d1bfc358d8a54b3a218238fd3a444ca29aba1e77108fa8
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.Prism.dll	f1043059a9a6630d152bb6a56effb3f1e295546ab4cf791487762571866b740f
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.Prism.UnityExtensions.dll	01762c0060c3a080c3f99c6b7b8574643a904b360be2bd006484b3e00be0cbff
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.ServiceLocation.dll	2028dba77ffefc0fb9f3cf5aba68868d6f706cb2599b1a67d5784d1cc411ccf7
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.Unity.Configuration.dll	d91f9863439bd849889105ecc3182eb1dc14e8e6bcb7aa33b9058b5e837ea271
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.Unity.dll	201655cd2f641ac05e450fb03ce763afb5e859d6ce1a25ae7fef3c27a2ee39a
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Microsoft.Practices.Unity.Interception.dll	79ec0b9b9752fe63c0c37bc4217c2e7d9ea33016107e3870d5e61889eb8cc3e3
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\DVS.Adjudication.Clients.AdjudicationClient.Module.dll	6e51b3c847ce90e67314f2a0b691448f68b412bfc18a89cb7914792165b836c4
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\DVS.Adjudication.Domain.dll	27fb3194185ddcfe4814bff84e3a8c6c9394eb7937e632c0c573ded596851f10
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\DVS.Adjudication.Services.Data.Contract.dll	85c6fe8ba99309224162f47200209e7051a6082141c98291166a77586874cccc
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\DVS.Tabulation.Domain.dll	560e67fe10fb370119bcf3a43a22620b2d05699a93e5600c2782ca37eb5ecede
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\EntityFramework.dll	ed6ebd749052f9018f6699671ae5469adedf086cf8b1bd4256bbe9c4e7f6ff05
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\EntityFramework.SqlServer.dll	a1bf6c9e3820e83f43e9f20dd7d9b0a3362a93146f0afe0b1330185e2d51b0cb
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Controls.Reports.v13.1.dll	0b48851dd13827e8e823309de69903a5343f31c05f7d0e3dc73753ff7055b6ff
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Models.Data.v13.1.dll	4c8c0860c7adc2007fde5e242086df7f52807907dba5e21cfb9569f56e65e271
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Models.Presentation.v13.1.dll	f778ce2c251ffa7b029148b0cf126a71e30a1a16a98f23f8494bb40bb1bb1a07
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Reports.Client.v13.1.dll	a5bc22bda49b24597b3572be6c72b897c7b58765a836034042dcaddb6b217765
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Reports.Controls.Charts.XamDataChart.v13.1.dll	35e8f99e2c29ef2fe8c877eb1d55e83597b5bf9c51ccbcffebaa02805ee6284
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Reports.Controls.Common.v13.1.dll	cc7b06a5d334d2bdb00318ce79a67e79f765d4ce9315b40fbb3a562c3a83a657
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Reports.Controls.DataVisualization.v13.1.dll	68305b8f0656ad80af0aa7518acb2f17f7d6fda1d8a0c364fd0ad9e4efc1aa98
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Reports.Excel.v13.1.dll	ee89a298f47ece1187244d347ba07589f16a850a0cead18c5524d7d1902aa3e3
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Reports.Pdf.v13.1.dll	c0c2596ebed8b0ad5fbc657481e72789d9f4a03623bf73b738a08a73e6b24e9c
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Infragistics.WPF4.Reports.v13.1.dll	770f62761c34ed3208f817436263d47b713eee79f0c6c833f913da2d8a14e57e
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\Microsoft.Expression.Drawing.dll	c4f7b7d98db894d7b19d2dd25b0b1987d195778b35302152ed3d5e4f3e5901a4
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\ToggleSwitch.dll	e8d5bbabd2551547bdcf06dac30b4c9297a6f76f55ba2b8f382a5f8abf6ade43
Program Files (x86)\Dominion Voting Systems\Adjudication Client\Modules\TreeViewEx.dll	573a2f18cb21295a135a0eeb46cf632a0e8c3dc18ff0b40f1edac9d4af7f7a89
Program Files (x86)\Dominion Voting Systems\Adjudication Client\openssl.cnf	0414ea6e5553e4a0ecdc1d78878efee4727e58e7d792c19f0b4521e98ac772df
Program Files (x86)\Dominion Voting Systems\Adjudication Client\openssl.exe	2634dd8cb1438d50dedb034aeffff3fb1282dde84696f927b53b05b02f6484ca
Program Files (x86)\Dominion Voting Systems\Adjudication Client\SecurityKeyInstaller.exe	bf02bb8bc766c46694ec5ff4cbfbc39df1c7c57abadb8d0abdc3e85874c67a9a



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Program Files (x86)\Dominion Voting Systems\Adjudication Client\SecurityKeyInstaller.exe.config	1d71ccbf93cad99bb4873c4372bd6c9e997ce22d87b716b73f85d77b7cfa84e0
Program Files (x86)\Dominion Voting Systems\Adjudication Client\ssleay32.dll	28f2fe4d27b694023255f8dbfa6e30ff81d3155c12bd0060e30bd7c39e4ea19f
Table C.3 EMS Adj Services	
<b>Version: 5.5.32.1 32-bit</b>	
<b>Filename</b>	<b>SHA-256 Value</b>
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Domain.dll	9f8746c6a59c432843256bf3476400a82d46b759b1e6a5f74c0812d97b157dc9
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Infrastructure.dll	f8daea1ac561f05ec9340c9abbd45fcd4e72b849441f97eaa6218763f5e4022
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.AdjudicableBallots.exe	5fbaec17b94dbd920c9d13c3b1a8ff65fa00432f9594fe5da8bda0885ce6cf29
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.AdjudicableBallots.exe.config	337914861856c639b4c11f133d47056ebf4bc7871c52dc9fa8029c4e915728fc
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.BallotCompletion.exe	d95f52e744429c246df76c19ce3cfff375232ea2a236bba5703cdf36a3ab40f9d
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.BallotCompletion.exe.config	a8f9344258be97aa2ffc1f6388eb13d41613dd9836b5956d4d560b4f674d78dc
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.BallotPreparation.exe	1bd292025498c40ce8811f0158deb6fb3453c38c977bba9872b3f57dbb2356fd
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.BallotPreparation.exe.config	33ded77e4651b65a455002de767693d5ab5e571b28f9f842e0c9fdbd3b8829ad
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.BatchCompletion.exe	1237c952cedcd3598f0d4f95f448f0d4224f4aa34dda88d6abc3bd1afc6473cd
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.BatchCompletion.exe.config	95a9b4eac8ee586433b2a3950fad2b9f5a51c006a215a0e7f63ae23e47386a58
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Data.Contract.dll	3ed105b94c6e82b9088731a757b2ab33568da73d56eded52bcc999255238c5e5
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Data.Service.exe	74cec5b8f65130dd01425e7183eca1b3e9ceebffe2f01760ede39d3f037e72d2
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Data.Service.exe.config	eb6da607acefb4be4e7a3a1b8a4f9cd6aa9d1c029943956bb1346a267e22e3b2
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.ReportBuilder.exe	f0f13ae37b9c7b5bf1179ad362f517e7541aa00225bb57654a8aa2ec04eafefa
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.ReportBuilder.exe.config	1b0f7a3f57e6c441721b9ed2b63af97ae7d392412564a594103a964f7e1ba61e
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Reports.exe	f9c503f576eae620ed7d7b13df57dbb1ac192d9b536d7365d161b38afa039d27
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Reports.exe.config	7f450aed688cbdddfc85f99f4888624dbe771737734d90920d2457c2bb2d7751
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Statistics.exe	ef07b38e5277f9ec5913a283368af2edfa192d4bd6a5ab32d319b96ea2899dd4
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Statistics.exe.config	20d7febadf8a26344c46eba61aed888fea0198b5ad1726ef91d311ef396a5994
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Common.dll	48926474d56abcc45582d09a8f7adb1e904c427da1f01c6da8b785ec685a07dd
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.EMS.Infrastructure.dll	6fda6b66a32f9a1cb02358293d59e267bf5a1184b99d1fabb7e5b89b98408304
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.EMS.Services.Common.dll	813fd8806c900759522949e38d283bc6267ab3f4779c56f644a2e5dc15e42f9c
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.EMS.Services.ElectionData.Contract.dll	cee96e034d2a5de3ee4256a5e2044e85991f50f0b008e3951891326da124242e
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Tabulation.Domain.dll	88c1246b2abc73ef3778c2be61f8d9f6ffb0ac48505a332c0d6910fbef73f3ef
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Tabulation.Services.ElectionFileManager.Contract.dll	9fb89285eeaac64b842a08a92aaf32d33d29aaa4d8a1f56bea82ecc15082580
Program Files (x86)\Dominion Voting Systems\Adjudication Services\EntityFramework.dll	ed6ebd749052f9018f6699671ae5469adedf086cf8b1bd4256bbe9c4e7f6ff05
Program Files (x86)\Dominion Voting Systems\Adjudication Services\EntityFramework.SqlServer.dll	a1bf6c9e3820e83f43e9f20dd7d9b0a3362a93146f0afe0b1330185e2d51b0cb

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Program Files (x86)\Dominion Voting Systems\Adjudication Services\libeay32.dll	d11e92f738e6f1ac5b8ba1393d2ae3378ba55757822a856da3a9cba9fe124723
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.IdentityModel.dll	fd50c4488ab275dd892ca8ed1adb0d125c6c59381b59a1ae5d9f2a299781239b
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.Practices.EnterpriseLibrary.Common.dll	cb0153495092cab9bb80803c51b25f00a550deae28b35007c60888dbc1529673
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.Practices.EnterpriseLibrary.Logging.dll	6f785c20eae305a430d1bfc358d8a54b3a218238fd3a444ca29aba1e77108fa8
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.Practices.ServiceLocation.dll	2028dba77ffefc0fb9f3cf5aba68868d6f706cb2599b1a67d5784d1cc411ccf7
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.Practices.Unity.Configuration.dll	d91f9863439bd849889105ecc3182eb1dc14e8e6bcb7aa33b9058b5e837ea271
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.Practices.Unity.dll	201655cd2f641ac05e450fb03ce763afb5e859d6ce1a25ae7fef3c27a2ee39a
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.Practices.Unity.Interception.dll	79ec0b9b9752fe63c0c37bc4217c2e7d9ea33016107e3870d5e61889eb8cc3e3
Program Files (x86)\Dominion Voting Systems\Adjudication Services\openssl.cnf	0414ea6e5553e4a0ecdc1d78878efee4727e58e7d792c19f0b4521e98ac772df
Program Files (x86)\Dominion Voting Systems\Adjudication Services\openssl.exe	2634dd8cb1438d50dedb034ae6fff3fb1282dde84696f927b53b05b02f6484ca
Program Files (x86)\Dominion Voting Systems\Adjudication Services\ssleay32.dll	28f2fe4d27b694023255f8dbfa6e30ff81d3155c12bd0060e30bd7c39e4ea19f
<b>EMS Server Installed Files Hash Values</b>	
<b>Adjudication Client Application</b>	
<b>Version: 5.5.32.1</b>	
<b>Filename</b>	<b>SHA-256 Value</b>
Program Files (x86) \ Dominion Voting Systems\Adjudication Client\ AdjudicationClient.exe	5b07834c5bb79c542df57fad9dc6ddd37159d2d9318a2be20edc0762a71d14a
Program Files (x86) \ Dominion Voting Systems\Adjudication Client\ AdjudicationClient.exe.config	ac104ab9b4f2c5921f8dd2ad8c2042c5c1313315bb94f31b770a3c932e26c484
Program Files (x86) \ Dominion Voting Systems\Adjudication Client\ BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fcd2bc08ded5cb71465
Program Files (x86) \ Dominion Voting Systems\Adjudication Client\ DVS.Common.dll	2350a09486f0bc62c96607b6ea70e1edf9731803a5ef622302144a9fe043bb00
Program Files (x86) \ Dominion Voting Systems\Adjudication Client\ DVS.EMS.Infrastructure.dll	08bff90e689c25cf3e4a23b91e11932e5d868c7ec12455ca6794937414116c91
Program Files (x86) \ Dominion Voting Systems\Adjudication Client\ DVS.EMS.Services.Common.dll	636fda238c8c96e2fd25a6d6af897558950c2694be398f8e8f681a3952bddd
Program Files (x86) \ Dominion Voting Systems\Adjudication Client\ DVS.Utilities.Common.dll	d5fa1b91e9e915eaa2a3801bae98166c0fb3dd33353e9fde951b2409104f6b2a
Program Files (x86) \ Dominion Voting Systems\Adjudication Client\ DVS.Windows.dll	b3ecc7e75b0eef7c86e2faf4bab3485f97822a1ca48dd0b73905b78925a96839
Program Files (x86) \ Dominion Voting Systems\ Adjudication Client\ itextsharp.dll	f6576c783a8db98c4a09919ea0a8b8bff70ac1729d3aa2935e07c6e639f25070
Program Files (x86) \ Dominion Voting Systems\ Adjudication Client\ libeay32.dll	d11e92f738e6f1ac5b8ba1393d2ae3378ba55757822a856da3a9cba9fe124723
Program Files (x86) \ Dominion Voting Systems\ Adjudication Client\ logging.config	814817711f24e4b213db6cd3766f5ab8ecb402e7cf57c2c61f64653e1d284c69
Program Files (x86)\Dominion Voting Systems\AdjudicationClient\Microsoft.Practices.EnterpriseLibrary.Common.dll	cb0153495092cab9bb80803c51b25f00a550deae28b35007c60888dbc1529673
Program Files (x86)\Dominion Voting Systems\AdjudicationClient\Microsoft.Practices.EnterpriseLibrary.Logging.dll	6f785c20eae305a430d1bfc358d8a54b3a218238fd3a444ca29aba1e77108fa8
Program Files (x86) \ Dominion Voting Systems\Adjudication Client\ Microsoft.Practices.Prism.dll	f1043059a9a6630d152bb6a56effb3f1e295546ab4cf791487762571866b740f
Program Files (x86)\Dominion Voting Systems\AdjudicationClient\Microsoft.Practices.Prism.UnityExtensions.dll	01762c0060c3a080c3f99c6b7b8574643a904b360be2bd006484b3e00be0cbff

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Program Files (x86)\ Dominion Voting Systems\Adjudication Client\ Microsoft.Practices.ServiceLocation.dll	2028dba77ffefc0fb9f3cf5aba68868d6f706cb2599b1a67d5784d1cc411ccf7
Program Files (x86)\ Dominion Voting Systems\AdjudicationClient\Microsoft.Practices.Unity.Configuration.dll	d91f9863439bd849889105ecc3182eb1dc14e8e6bcb7aa33b9058b5e837ea271
<b>C.1 EMS Server Installed Files Hash Values</b>	
<b>C.1.1 Adjudication Client Application</b>	
<b>Version: 5.5.32.1</b>	
<b>Filename</b>	<b>SHA-256 Value</b>
Program Files (x86)\ Dominion Voting Systems\Adjudication Client\ AdjudicationClient.exe	5b07834c5bb79c542df57fad9dc6ddd37159d2d9318a2be20edc0762a71d14a
Program Files (x86)\ Dominion Voting Systems\Adjudication Client\ AdjudicationClient.exe.config	ac104ab9b4f2c5921f8dd2ad8c2042c5c1313315bb94f31b770a3c932e26c484
Program Files (x86)\ Dominion Voting Systems\Adjudication Client\ BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fcd2bc08ded5cb71465
Program Files (x86)\ Dominion Voting Systems\Adjudication Client\ DVS.Common.dll	2350a09486f0bc62c96607b6ea70e1edf9731803a5ef622302144a9fe043bb00
Program Files (x86)\ Dominion Voting Systems\Adjudication Client\ DVS.EMS.Infrastructure.dll	08bff90e689c25cf3e4a23b91e11932e5d868c7ec12455ca6794937414116c91
Program Files (x86)\ Dominion Voting Systems\Adjudication Client\ DVS.EMS.Services.Common.dll	636fda238c8c9e2fd25a6d6af897558950c2694be398f8e8f681a3952bdbc
Program Files (x86)\ Dominion Voting Systems\Adjudication Client\ DVS.Utilities.Common.dll	d5fa1b91e9e915eaa2a3801bae98166c0fb3dd33353e9fde951b2409104f6b2a
Program Files (x86)\ Dominion Voting Systems\Adjudication Client\ DVS.Windows.dll	b3ecc7e75b0eef7c86e2faf4bab3485f97822a1ca48dd0b73905b78925a96839
Program Files (x86)\ Dominion Voting Systems\ Adjudication Client\ itextsharp.dll	f6576c783a8db98c4a09919ea0a8b8bff70ac1729d3aa2935e07c6e639f25070
Program Files (x86)\ Dominion Voting Systems\ Adjudication Client\ libeay32.dll	d11e92f738e6f1ac5b8ba1393d2ae3378ba55757822a856da3a9cba9fe124723
Program Files (x86)\ Dominion Voting Systems\ Adjudication Client\ logging.config	814817711f24e4b213db6cd3766f5ab8ecb402e7cf57c2c61f64653e1d284c69
Program Files (x86)\ Dominion Voting Systems\AdjudicationClient\Microsoft.Practices.EnterpriseLibrary.Common.dll	cb0153495092cab9bb80803c51b25f00a550deae28b35007c60888dbc1529673
Program Files (x86)\ Dominion Voting Systems\AdjudicationClient\Microsoft.Practices.EnterpriseLibrary.Logging.dll	6f785c20eae305a430d1bfc358d8a54b3a218238fd3a444ca29aba1e77108fa8
Program Files (x86)\ Dominion Voting Systems\Adjudication Client\ Microsoft.Practices.Prism.dll	f1043059a9a6630d152bb6a56effb3f1e295546ab4cf791487762571866b740f
Program Files (x86)\ Dominion Voting Systems\AdjudicationClient\Microsoft.Practices.Prism.UnityExtensions.dll	01762c0060c3a080c3f99c6b7b8574643a904b360be2bd006484b3e00be0cbff
Program Files (x86)\ Dominion Voting Systems\Adjudication Client\ Microsoft.Practices.ServiceLocation.dll	2028dba77ffefc0fb9f3cf5aba68868d6f706cb2599b1a67d5784d1cc411ccf7
Program Files (x86)\ Dominion Voting Systems\AdjudicationClient\Microsoft.Practices.Unity.Configuration.dll	d91f9863439bd849889105ecc3182eb1dc14e8e6bcb7aa33b9058b5e837ea271
Program Files (x86)\ Dominion Voting Systems\AdjudicationClient\SecurityKeyInstaller.exe	bf02bb8bc766c46694ec5ff4cbfbc39df1c7c57abadb8d0abdc3e85874c67a9a
Program Files (x86)\ Dominion Voting Systems\AdjudicationClient\SecurityKeyInstaller.exe.config	1d71ccb93cad99bb4873c4372bd6c9e997ce22d87b716b73f85d77b7cfa84e0
Program Files (x86)\ Dominion Voting Systems\ Adjudication Client\ ssleay32.dll	28f2fe4d27b694023255f8dbfa6e30ff81d3155c12bd0060e30bd7c39e4ea19f



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EMS Adjudication Services	
Version: 5.5.32.1	
Filename	SHA-256 Value
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Infrastructure.dll	f8daea1ac561f05ec9340c9abbd45fcdf4e72b849441f97eaa6218763f5e4022
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.AdjudicableBallots.exe	5fbaec17b94dbd920c9d13c3b1a8ff65fa00432f9594fe5da8bda0885ce6cf29
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.AdjudicableBallots.exe.config	337914861856c639b4c11f133d47056ebf4bc7871c52dc9fa8029c4e915728fc
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.BallotCompletion.exe	d95f52e744429c246df76c19ce3c3ff375232ea2a236bba5703cdf36a3ab40f9d
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.BallotCompletion.exe.config	a8f9344258be97aa2ffc1f6388eb13d41613dd9836b5956d4d560b4f674d78dc
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.BallotPreparation.exe	1bd292025498c40ce8811f0158deb6fb3453c38c977bba9872b3f57dbb2356fd
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.BallotPreparation.exe.config	33ded77e4651b65a455002de767693d5ab5e571b28f9f842e0c9fddb3b8829ad
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.BatchCompletion.exe	1237c952cedcd3598f0d4f95f448f0d4224f4aa34dda88d6abc3bd1afc6473cd
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.BatchCompletion.exe.config	95a9b4eac8ee586433b2a3950fad2b9f5a51c006a215a0e7f63ae23e47386a58
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Data.Contract.dll	3ed105b94c6e82b9088731a757b2ab33568da73d56eded52bcc999255238c5e5
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Data.Service.exe	74cec5b8f65130dd01425e7183eca1b3e9cebbfe2f01760ede39d3f037e72d2
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Data.Service.exe.config	eb6da607acefb4be4e7a3a1b8a4f9cd6aa9d1c029943956bb1346a267e22e3b2
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.ReportBuilder.exe	f0f13ae37b9c7b5bf1179ad362f517e7541aa00225bb57654a8aa2ec04eafefa
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.ReportBuilder.exe.config	1b0f7a3f57e6c441721b9ed2b63af97ae7d392412564a594103a9647e1ba61e
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Reports.exe	f9c503f576eae620ed7d7b13df57dbb1ac192d9b536d7365d161b38afa039d27
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Reports.exe.config	7f450aed688cbdddfc85f99f4888624dbe77173734d90920d2457c2bb2d7751
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Statistics.exe	ef07b38e5277f9ec5913a283368af2edfa192d4bd6a5ab32d319b96ea2899dd4
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Adjudication.Services.Statistics.exe.config	20d7febadf8a26344c46eba61aed888fea0198b5ad1726ef91d311ef396a5994
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Common.dll	48926474d56abcc45582d09a8f7adb1e904c427da1f01c6da8b785ec685a07dd

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Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.EMS.Infrastructure.dll	6fda6b66a32f9a1cb02358293d59e267bf5a1184b99d1fabb7e5b89b98408304
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.EMS.Services.Common.dll	813fd8806c900759522949e38d283bc6267ab3f4779c56f644a2e5dc15e42f9c
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.EMS.Services.ElectionData.Contract.dll	cee96e034d2a5de3ee4256a5e2044e85991f50f0b008e3951891326da124242e
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Tabulation.Domain.dll	88c1246b2abc73ef3778c2be61f8d9f6ffb0ac48505a332c0d6910fbef73f3ef
Program Files (x86)\Dominion Voting Systems\Adjudication Services\DVS.Tabulation.Services.ElectionFileManager.Contract.dll	9fb89285eeaaec64b842a08a92aaf32d33d29aaa4d8a1f56bea82ecc15082580
Program Files (x86)\Dominion Voting Systems\Adjudication Services\EntityFramework.dll	ed6ebd749052f9018f6699671ae5469adedf086cf8b1bd4256bbe9c4e7f6ff05
Program Files (x86)\Dominion Voting Systems\Adjudication Services\EntityFramework.SqlServer.dll	a1bf6c9e3820e83f43e9f20dd7d9b0a3362a93146f0afe0b1330185e2d51b0cb
Program Files (x86)\Dominion Voting Systems\Adjudication Services\libeay32.dll	d11e92f738e6f1ac5b8ba1393d2ae3378ba55757822a856da3a9cba9fe124723
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.IdentityModel.dll	fd50c4488ab275dd892ca8ed1adb0d125c6c59381b59a1ae5d9f2a299781239b
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.Practices.EnterpriseLibrary.Common.dll	cb0153495092cab9bb80803c51b25f00a550deae28b35007c60888dbc1529673
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.Practices.EnterpriseLibrary.Logging.dll	6f785c20eae305a430d1bfc358d8a54b3a218238fd3a444ca29aba1e77108fa8
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.Practices.ServiceLocation.dll	2028dba77ffefc0fb9f3cf5aba68868d6f706cb2599b1a67d5784d1cc411ccf7
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.Practices.Unity.Configuration.dll	d91f9863439bd849889105ecc3182eb1dc14e8e6bcb7aa33b9058b5e837ea271
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.Practices.Unity.dll	201655cd2f641ac05e450fb03ce763afbc5e859d6ce1a25ae7fef3c27a2ee39a
Program Files (x86)\Dominion Voting Systems\Adjudication Services\Microsoft.Practices.Unity.Interception.dll	79ec0b9b9752fe63c0c37bc4217c2e7d9ea33016107e3870d5e61889eb8cc3e3
Program Files (x86)\Dominion Voting Systems\Adjudication Services\openssl.cnf	0414ea6e5553e4a0eccdc1d78878efee4727e58e7d792c19f0b4521e98ac772df
Program Files (x86)\Dominion Voting Systems\Adjudication Services\openssl.exe	2634dd8cb1438d50dedb034ae6fff3fb1282dde84696f927b53b05b02f6484ca
Program Files (x86)\Dominion Voting Systems\Adjudication Services\ssleay32.dll	28f2fe4d27b694023255f8dbfa6e30ff81d3155c12bd0060e30bd7c39e4ea19f

# SLI Compliance

## EMS

### Election data Service

Version: 5.5.32.4 32-bit	
Filename	SHA-256 Value
Program Files (x86)\Dominion Voting Systems\Election Data Service\BallotCoordinates.dll	9bccd581ded96a7d99ed0000e774a656a0c0e490531ab6cc99d4ea9b01e584b0
Program Files (x86)\Dominion Voting Systems\Election Data Service\BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fcd2bc08ded5cb71465
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.Common.dll	cc85e6593e7636d52935ded776e42fe68ef07f3c120bb8e12ce07f95cf45f195
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.DemSuite.Services.Common.dll	370bce8c8b93bc5ac2b253f19b5da371121a3f17e9a0758b63beabf4996b36cb
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.EMS.Infrastructure.dll	b17d171c2289fa26ac9983ea920dfd8e9005b9c4f044a3759cc0c7db97362546
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.EMS.Services.Common.dll	e803c7a31d18e64bac815e3a83ecb55ff3d64d505ad7b03fee2299f913b1cf8b
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.EMS.Services.ElectionData.Contract.dll	8b0ab5f0ada036fa7a925c8a664f22404eefdc6cc0077467ab5883f62d316914
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.EMS.Services.ElectionData.ElectionDataService.Domain.dll	ffe93d06a31ba0abaf99df4c03bef751aedc431471704124539cef5ecf39d63d
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.EMS.Services.ElectionData.ElectionDataService.exe	555c84ff6bf35897f646d88cc117e00a4df6f2d0dcbf8f50a66ed18936cbc01d
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.EMS.Services.ElectionData.ElectionDataService.exe.config	98a15ba31fde5fa654323c75f831d052f46ae9575071b661972a643ad84de383
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.EMS.Services.ElectionService.Contract.dll	38eb4c6f93f463d19d36531172b41cfe9a5633f14314853d76c184ce553c4532
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.Utilities.Common.dll	d5fa1b91e9e915eaa2a3801bae98166c0fb3dd33353e9fde951b2409104f6b2a
Program Files (x86)\Dominion Voting Systems\Election Data Service\itextsharp.dll	f6576c783a8db98c4a09919ea0a8b8bff70ac1729d3aa2935e07c6e639f25070
Program Files (x86)\Dominion Voting Systems\Election Data Service\Microsoft.IdentityModel.dll	fd50c4488ab275dd892ca8ed1adb0d125c6c59381b59a1ae5d9f2a299781239b
Program Files (x86)\Dominion Voting Systems\Election Data Service\Microsoft.Practices.EnterpriseLibrary.Common.dll	cb0153495092cab9bb80803c51b25f00a550deae28b35007c60888dbc1529673
Program Files (x86)\Dominion Voting Systems\Election Data Service\Microsoft.Practices.EnterpriseLibrary.Data.dll	ab6cfbf4865f164e2fba93d8187293f24927e267ca9960e51b3df63461bdfdb
Program Files (x86)\Dominion Voting Systems\Election Data Service\Microsoft.Practices.EnterpriseLibrary.Logging.dll	6f785c20eae305a430d1bfc358d8a54b3a218238fd3a444ca29aba1e77108fa8
Program Files (x86)\Dominion Voting Systems\Election Data Service\Microsoft.Practices.ServiceLocation.dll	2028dba77ffec0fb9f3cf5aba68868d6f706cb2599b1a67d5784d1cc411ccf7
Program Files (x86)\Dominion Voting Systems\Election Data Service\Microsoft.Practices.Unity.Configuration.dll	d91f9863439bd849889105ecc3182eb1dc14e8e6bcb7aa33b9058b5e837ea271
Program Files (x86)\Dominion Voting Systems\Election Data Service\Microsoft.Practices.Unity.dll	201655cd2f641ac05e450fb03ce763afbc5e859d6ce1a25ae7fef3c27a2ee39a

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Program Files (x86)\Dominion Voting Systems\Election Data Service\Microsoft.Practices.Unity.Interception.dll	79ec0b9b9752fe63c0c37bc4217c2e7d9ea33016107e3870d5e61889eb8cc3e3
Program Files (x86)\Dominion Voting Systems\Election Data Service\NLog.dll	e17aac589bd48a623857de7f8113bcae6f72e4fe4652ca615ffa1028353b246d

## Election File Manager

Version: 5.5.32.4 32-bit	
Filename	SHA-256 Value
Program Files (x86)\Dominion Voting Systems\Election File Manager\BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fdb2bc08ded5cb71465
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Common.dll	7ccfb7b1b409b50a07ac04a6c6b31c22a76bfe71b2f6532d0bafbe25a5897c9f
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.DemocracySuite.ResultInterfaces.dll	ee3f87f31b4607bbed3a1c5361453b21fca3de70350fe0b7572e7d85b54da628
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.DemocracySuite.ResultsDomain.dll	0e32ff2ebb5e082ab894c7087665a263d16fc10f6a7f894aace68859cb4055df
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.DemSuite.Services.Common.dll	186a106e2540e0a9460344678bc7affd273fead2c3741fd5fa90ff91ca2d5911
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.EMS.Infrastructure.dll	7bd39e7940c08514279b1a64c6bdc9403814c7978bdfbfa62acf9564eb44588d
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.EMS.Services.Common.dll	61942a0914e1cde3c6b4574e86ed435ca5c666899d5f20bbfce591ebc52dc3e5
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.EMS.Services.ElectionData.Contract.dll	f5dcf4b91bdd8002b1ce624146537c64b98d640a55096c66dd3b150c4fa113ff
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Tabulation.Domain.dll	d958a068983f8393360ad345043048d3815ff81a497dd53ba5fdaba5166432f3
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Tabulation.IO.dll	28745b1debfa21f05dd0dddbd7a123c0b5c755b052777dd0e0cd6f96f03a49
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Tabulation.Services.ElectionFileManager.Contract.dll	4b4b12b0690356880a4540bdf7aeb13dc9d3223ecfd735e8c7506ca1b4811db6
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Tabulation.Services.ElectionFileManager.exe	c352a6ef2717cb3f1d840ec090788f11c64b95eb9ac0787de182af9846de18ec
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Tabulation.Services.ElectionFileManager.exe.config	05aa7da5e438d96eccdfc6f61e8c6fa4dcc8fc8adde9cad367cae93995cfe0a5
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Utilities.Common.dll	d5fa1b91e9e915eaa2a3801bae98166c0fb3dd33353e9fde951b2409104f6b2a
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Utilities.RemoteInterfaces.dll	b379429abaced02e1bbc199e3ef79984f6e94b43fc655a8228c7dd9ced53a2bc
Program Files (x86)\Dominion Voting Systems\Election File Manager\EntityFramework.dll	ed6ebd749052f9018f6699671ae5469adedf086cf8b1bd4256bbe9c4e7f6ff05
Program Files (x86)\Dominion Voting Systems\Election File Manager\EntityFramework.SqlServer.dll	a1bf6c9e3820e83f43e9f20dd7d9b0a3362a93146f0afe0b1330185e2d51b0cb



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Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.IdentityModel.dll	fd50c4488ab275dd892ca8ed1adb0d125c6c59381b59a1ae5d9f2a299781239b
Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.Practices.EnterpriseLibrary.Common.dll	cb0153495092cab9bb80803c51b25f00a550deae28b35007c60888dbc1529673
Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.Practices.EnterpriseLibrary.Logging.dll	6f785c20eae305a430d1bfc358d8a54b3a218238fd3a444ca29aba1e77108fa8
Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.Practices.ServiceLocation.dll	2028dba77ffefc0fb9f3cf5aba68868d6f706cb2599b1a67d5784d1cc411ccf7
Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.Practices.Unity.Configuration.dll	d91f9863439bd849889105ecc3182eb1dc14e8e6bcb7aa33b9058b5e837ea271
Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.Practices.Unity.dll	201655cd2f641ac05e450fb03ce763afbc5e859d6ce1a25ae7fef3c27a2ee39a
Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.Practices.Unity.Interception.dll	79ec0b9b9752fe63c0c37bc4217c2e7d9ea33016107e3870d5e61889eb8cc3e3

### EMS Logger

<b>Version: 5.5.32.4 32-bit</b>	
<b>Filename</b>	<b>SHA-256 Value</b>
Program Files (x86)\Dominion Voting Systems\EMS Logger\EMSLogger.exe	031f812ea18dc0ddb81ec0512f7c57e47d9e5a29aa33814e7f39a49ff26829af

### EMS File System Service

<b>Version: 5.5.32.4 32-bit</b>	
<b>Filename</b>	<b>SHA-256 Value</b>
Program Files (x86)\Dominion Voting Systems\File System Service\BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fcd2bc08ded5cb71465
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.BinaryFileAccess2007.dll	0b4ac965c5e6ebfb50c1d048ea6d8495f282d721588260be7202372349bd69f3
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.Common.dll	74a63eb1d4802a541fba87d81156bd883f03eaa37324b2478b8b21734162d7df
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.FileSystemService.exe	31fdaa78195ead39a18346f07b47054dab113b2a2e515eba4703df76d5fa7d82
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.FileSystemService.exe.config	f55c5126aeefaf4d3df8a2c372bf849e90779198e02fe6e3ab8d228950b5fee1
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.MSWinManager.dll	604e9d6d334dfe102085efb422e33e4f408b7b3610665485ee45ad5a5a89d110
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.RemoteInterfaces.dll	8793db0a0539383ea5d09680ea15ed2c6fe2b4710072129f647ac7e41443e8d3
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.UsbFileSystem.dll	c7cc73eb9ea756bcb22c4eb1119366fd34c22033276b43e01e5b71203d2206d0
Program Files (x86)\Dominion Voting Systems\File System Service\EMSFSSCustomAction.CA.dll	e571ca8afcd92f14b49f70e816a7fd0ec427a8d6ebcdc120fc6de0f12b98497c



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Program Files (x86)\Dominion Voting Systems\File System Service\EMSFSSCustomAction.dll	19dc28faaff20c6999af6c4bc0d987c2e087c5ded10545d11115b42ec2a76c0b6
Program Files (x86)\Dominion Voting Systems\File System Service\itextsharp.dll	beb5c25eb5f659cbb2574f3eaddda35c5b18e860558daac4533b4ed98e29bd55
Program Files (x86)\Dominion Voting Systems\File System Service\Log\Error.log	935fa21033735ad183aba3845b45105ccae03f5b3436d00ef4d1a302db71c238
Program Files (x86)\Dominion Voting Systems\File System Service\Log\Info.log	f5b7407d443d1c2e7a4282b2f4cf93fa9acda38c19930b08dc404be2a45ce867
Program Files (x86)\Dominion Voting Systems\File System Service\Log\Trace.log	e520a1bb61d55112c50d11c866d6616705ca022956f0b85ae67fa965a88c56aa
Program Files (x86)\Dominion Voting Systems\File System Service\Microsoft.Deployment.WindowsInstaller.dll	9aebc76cb8c864593e0419162b2bf40b81bd52b3ff12edac1d032828df83dcfa
Program Files (x86)\Dominion Voting Systems\File System Service\Microsoft.Web.Administration.dll	5b28ceefb320c6a808cb352385ae4523fbec676af1cb091ceb1789b3b83aefc
Program Files (x86)\Dominion Voting Systems\File System Service\NLog.config	e50f1d10b846dbecdd44dba2f54a858e38427858cb1d0038a63a0a4b4c9bdd28
Program Files (x86)\Dominion Voting Systems\File System Service\NLog.dll	e17aac589bd48a623857de7f8113bcae6f72e4fe4652ca615ffa1028353b246d
Program Files (x86)\Dominion Voting Systems\File System Service\nlogError.txt	1c3ca32f1ec3c92572309b6f4ea5270e8290b34ffdbcd83b811a2eaa3b94d1b7
Program Files (x86)\Dominion Voting Systems\File System Service\Renci.SshNet.dll	451ba700ecb5e77bea05160fda3ee6fb706839d831c925279634614d610ab8d9

### EMS Election Data Translator

Version: 5.5.32.4 64-bit	
Filename	SHA-256 Value
Program Files\Dominion Voting Systems\Election Data Translator\AllowedCharacters.txt	07aea6da557bf0df384a329ffabcb120d84f0791b34327b91d1009d9139ab29d
Program Files\Dominion Voting Systems\Election Data Translator\BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fcd2bc08ded5cb71465
Program Files\Dominion Voting Systems\Election Data Translator\Democracy Suite EMS EDT Users Guide.pdf	572fea08f08c60d0fe02d676b7549cfc689702238df6ad26a87b771844e8e8e2
Program Files\Dominion Voting Systems\Election Data Translator\DocumentFormat.OpenXml.dll	bb18c540d6c1ec80d7d3ae9a538f3205e6e3e695c6788e406d793c53d50ed415
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Bridging.CommonAdaptation.dll	8ee3ce12bd8dbbaa67d70bbbf7ee99bb2b9fc4cf91175a4af6d71edc9742120b
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Bridging.ExcelAdapter.dll	1197331cceed7318c768d2363fd7ad782f2f6bfc4eeb71015940eef8a2e49cfc
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Bridging.ImportAdapter.exe	650b792dfdef3d74bb7d63cc7eae6d12d91d3601bf95aa6248ecd569d1662e87
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Bridging.ImportAdapter.exe.config	0c44cf91aaa7dea7baa431b30adaab1b79268d6cdb949599d9637d9c8864aa3b
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Bridging.Mapping.dll	ac9bb057329f58b3edcb0b9d94ab1e920d43dbd49ce16cda8d3cd56f2bbe343d
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Bridging.SimpleExcelImportAdapter.dll	6ca9786489abaa236a95ae576bd550ccaa4ddfe0b22bdcae5b8c24013ca933a0
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.AuthenticationService.dll	88bc90a5ad334f8c16afee6860b2a0265083d298fcc0a5befc6a6a445105a1f5

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Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.BehaviorSettings.dll	280bf6290e21000c6aaa730b9d7d451336f722ac173c5e034f9c9ea5a8906fcf
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.ClientCommunicationObject.dll	9ebb9ef22e197ad6ede73a8cccb3e1d9b5ff6d34f9017ce4b004bd4d60cec842
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.Common.dll	19ab686922d33c42f235ba0ab7823bcb36e958b0f3f006201bf3c30935958c42
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.ConfigurationService.dll	12deeff716767a3b85ac203dc7d3fa21191ac300fd5173a85e405f6058552758
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.CryptoService.dll	c59c3511bb793318ae59bdac3fc5cc6710b2bc55a59b981e406be7da7b0d012b
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.DatabaseService.dll	a07ade3ec1e7c5a2b9111f0650f7b1dc1fe38a989acdb56c9104a989a6589e5e
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.ExportImport.Default.dll	0edbe7fb5b1f8f28cae0378b32d7e270962beb26615ae70086748e824f166960
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.ExportImport.dll	bddf5bac672d378de8c8b76fba93f60458abf54e10c8544c121dce0fd8502bde
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.ExportImport.Formats.dll	111c7f4f246f3391f5ed9d65979bc7a88fbcdbde8ac95818d2f9f7f29d2edd78
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.PermissionManager.dll	ef2031ea02f9bfd59d8beeb6abcaa42e0051c7db5cb15b71d97f98f600790a47
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.RemoteServerProvider.dll	0251ffd7bc3724d5508f260114eb0c2434a8c06e4d20ed30ccb8f6f397d079db
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.ReportServiceBase.dll	288dd1781cd06731a84f19dbe2a2c39befaf28302497abf65e9d01d9e5a8349c
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.ResultsDomain.dll	ec900d6bce6794f01dab5b25122613d3b34d45e5ac13f58159686ddd6f51773e
Program Files\Dominion Voting Systems\Election Data Translator\DVS.DemocracySuite.USElectionsDomain.dll	3114e5004ac2754ca797540d55ea53edac2c8ea6bb3959b511ccb95a52ca800d
Program Files\Dominion Voting Systems\Election Data Translator\DVS.ElectionEvent.RtfInterpreter.dll	d6629cfbf3f4c77d3e8c21e2e21c7091d984004b90fea32451fbd6e3499de4b5
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Framework.Commands.dll	8f35e5d5dfcc10d6133e6c3410745ae3641af1e05b7d1c5a589c11449dff0a3
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Framework.DbMaker.dll	5a49b19d2d3573f3ee262e326653d23e3213273871c1730eb7fec6cbbf47a4e8
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Framework.Domains.Logging.dll	346fa5e49326531dfb80c21a679d83d1eabc111cc31dc2df52ef6873be6475a7
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Framework.Domains.Parametrization.dll	c8b3afe4264b2ed8534c3a87943197151f3fd8f63642e4366d81c03b2981fb93
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Framework.Domains.PermissionManagement.dll	95bde5decf9f3dd23e2cb31a43c513d30d4e1e1621a25e187e0e4babd8c6ec77
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Framework.Domains.SystemVariables.dll	02b3d46a0a7894d1df81f81b4d3c97ea5db53cd4db0124157e97661a830f0f70

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Program Files\Dominion Voting Systems\Election Data Translator\DVS.Framework.GUIConfiguration.dll	49c7b6519979bbcadcab477805490a01ef26f86a71247e24ab21d9004d051d20
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Framework.GUICore.dll	202ca5b9cb6b45497ec4961b260d91865b9e73eaae057ba8deaba9d7c0d77315
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Framework.MemoryCore.dll	881156b603e934ad2214d646c9092681327165475a6d3704a96687969785b154
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Framework.RemotingAdo.dll	1a3a046f5d1c4105b314df1dc8247507038df8e977f205381c3a4584cfdbb960
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Framework.ResourceTranslator.dll	7da87ea3eebbd092f978fedb2907cd1c894a250e35b48b9206b14a829d3b26b0
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Framework.Serializer.dll	61f8adaa24f5c1a5f23c3ec2dc0386d4a807ec5673ffd38b2a010fe7b9b863e2
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Utilities.Common.dll	c86bdc20064e3a748fff15524d144f927551fb3c7f15d994e307b594c51f7047
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Utilities.MSWinManager.dll	f380e4ccbe5c552ad2bb6917c56b81b3240a993da2b55bbe4d82df5edcb46507
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Utilities.ProjectMangementFacade.dll	7e1d47dcc5c5316e519033bd5d97a6dd50cd7358c10916853d188b5a5db2c78f
Program Files\Dominion Voting Systems\Election Data Translator\DVS.Utilities.RemoteInterfaces.dll	0c620f5819af7265b1b60a18bdf7609aabdd62e7920c42416f8cbd0216ccf08
Program Files\Dominion Voting Systems\Election Data Translator\EDTCustomAction.CA.dll	31454d4c60f60717032242e8181d010e068bc795746327078ffc1792c9ab29a6
Program Files\Dominion Voting Systems\Election Data Translator\EDTCustomAction.dll	3de8a4f1633fc9c5d422a35879fc6a8e8f94715494c2effb7921a7707d856720
Program Files\Dominion Voting Systems\Election Data Translator\EdtMapper\EdtFormat.xml	dd84945d4b8c3a7bbe9ff32e2c144063ce462016165141b65593db6bd4c0976f
Program Files\Dominion Voting Systems\Election Data Translator\EntityFramework.dll	ed6ebd749052f9018f6699671ae5469adedf086cf8b1bd4256bbe9c4e7f6ff05
Program Files\Dominion Voting Systems\Election Data Translator\EntityFrameworkUtil.dll	62bb37cf68aa0732bc3462fa9b6e490efd5ef0db12ab5ad153878c263015809a
Program Files\Dominion Voting Systems\Election Data Translator\GemsImport\GemsImportFormat 1.3.xml	6ff57f77c4c13a113a94729641b9e971c5f44f9fcb1c5cc41eb0285423a51149
Program Files\Dominion Voting Systems\Election Data Translator\itextsharp.dll	beb5c25eb5f659cbb2574f3eadda35c5b18e860558daac4533b4ed98e29bd55
Program Files\Dominion Voting Systems\Election Data Translator\Microsoft.Deployment.WindowsInstaller.dll	9aebc76cb8c864593e0419162b2bf40b81bd52b3ff12edac1d032828df83dcfa
Program Files\Dominion Voting Systems\Election Data Translator\Microsoft.Web.Administration.dll	5b28ceefb320c6a808cb352385ae4523fbecc676af1cb091ceb1789b3b83aefc
Program Files\Dominion Voting Systems\Election Data Translator\NLog.config	9ce2c7a089aaa8a3fc72e50d918210402dae2e04712980c5f9278c992c4a662e
Program Files\Dominion Voting Systems\Election Data Translator\NLog.dll	e17aac589bd48a623857de7f8113bcae6f72e4fe4652ca615ffa1028353b246d

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Program Files\Dominion Voting Systems\Election Data Translator\Renci.SshNet.dll	451ba700ecb5e77bea05160fda3ee6fb706839d831c925279634614d610ab8d9
Program Files\Dominion Voting Systems\Election Data Translator\ReydiImport\ReydiFormat 1 0.xml	2a9268310560697b01d871d7ad637f0a79c6726d92ce347a8372dbf52d4c9972
Program Files\Dominion Voting Systems\Election Data Translator\RtfCompatibility.dll	365d06ce941350482201bc9f3fc54a746e7d476d9ac0f862a125716ec2be38ac
Program Files\Dominion Voting Systems\Election Data Translator\RTFReader.dll	cda525e3eec917d1f097af0381a0d2d0611be7ede12be80068f0af1516181f3c
Program Files\Dominion Voting Systems\Election Data Translator\Simple Excel Import Adapter.ico	b7f0dccc49c4e2a6704ee72d5c901bdfad849ff05ba5fb207570e9829af07cf5
Program Files\Dominion Voting Systems\Election Data Translator\SimpleExcelMapping.xml	4060b976497e673c67e6031508ed873c455dea7e7cd51bb5c2c8b94071f3d23d
Program Files\Dominion Voting Systems\Election Data Translator\SpreadsheetLight.dll	3f367b84ae2f149ac8e53d790c3aa1160b1915c3e558c366b527a87cb53ffcd
Program Files\Dominion Voting Systems\Election Data Translator\System.Data.SQLite.dll	907d947ec9f35e0b49bab8df1d3791117eec2cc45a4ef968755df0e656d9d08
Program Files\Dominion Voting Systems\Election Data Translator\TabulatorMapping.xml	aa2348b7c3397e0b5cf3668a7176ba0c1eae380485ecdebe9d1a23470119a752
Program Files\Dominion Voting Systems\Election Data Translator\TextDocumentCommon.dll	6342dd68e5058f53ec35f758787befcb6a66e6ddd7453d927d00bbb3260b4f61
Program Files\Dominion Voting Systems\Election Data Translator\TextGraphicalEditorCore.dll	1d103cfec2b2a580b24a74740022a5e7a52ca1d7a630996bddb55f065ef6cc01
Program Files\Dominion Voting Systems\Election Data Translator\TextualContent.dll	70aae862f55b68dddea94e0dca62b112c4ce813834c6bafc9ded1c03a24446df
Program Files\Dominion Voting Systems\Election Data Translator\TranslationMapping.xml	dbfa9d606deb52aa8612444503e25fb96401bfb5ecf384bd11cb479113c7acf7
Program Files\Dominion Voting Systems\Election Data Translator\tx16 bmp.ftt	7bec71af7be3bcf76f8b34c6d7cc7d87c6c612507cdaa57a97b9fa7637a8724f
Program Files\Dominion Voting Systems\Election Data Translator\tx16 css.dll	e61ce98925f96cb59bc9f6261f4eeed6e7921b1c4dcb7a2fe5b34d61be1324d8
Program Files\Dominion Voting Systems\Election Data Translator\tx16 doc.dll	b1bae7700444c71bbceb1cbbb488bab11cd4b8a3102aab3861aba22042b9424
Program Files\Dominion Voting Systems\Election Data Translator\tx16 dox.dll	67b19985f4ba96e040c1b0f58ea68e7ae1d8a62814ed0ae9dabb59b11886a03c
Program Files\Dominion Voting Systems\Election Data Translator\tx16 gif.ftt	f5871adae67e25836272700d3b02cf082fa444f0537420da14ec702ccb80718b
Program Files\Dominion Voting Systems\Election Data Translator\tx16 htm.dll	0672fc52f7f2172783365f526204e3f1cff0636dc21c65eb70230177b8451c23
Program Files\Dominion Voting Systems\Election Data Translator\tx16 ic.ini	3754f3454fce6c40f55f7f3cced671d8828e034ab89bc0a450ab3a88b496a2d2
Program Files\Dominion Voting Systems\Election Data Translator\tx16 jpg.ftt	27644d1a94c5fece37c71da8a21fde52e35b6fd910f3e7fb4a64459f2454ee5d
Program Files\Dominion Voting Systems\Election Data Translator\tx16 pdf.dll	90110a3b0bc84be25cf23c10d6a2bb63898a357820971ea339f6f6474461761c



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Program Files\Dominion Voting Systems\Election Data Translator\tx16.png.ftl	fe7e0d8d261d15cc438eb4f712d1c27396fef1e11d7b2c09e5fbf672fb147a4a
Program Files\Dominion Voting Systems\Election Data Translator\tx16.rtf.dll	bcf88d31ea94d43b69a2d79f4b4ce91770ec740a7ff8b8197980004be8cc224f
Program Files\Dominion Voting Systems\Election Data Translator\tx16.tif.ftl	7eb2f067c31e078cb3416f52a325b83c58b4815720741a3f34d1a80fa93ca2d6
Program Files\Dominion Voting Systems\Election Data Translator\tx16.wmf.ftl	c479eaf41f32809076e1926bb1ca308cb8c22b08874b3621e9da80e2c45c7ac3
Program Files\Dominion Voting Systems\Election Data Translator\tx16.xml.dll	dd3a5458256211dd537a8b0ea7d86648f3b6857d39d853344d7b820bc411c5c7
Program Files\Dominion Voting Systems\Election Data Translator\txic.dll	e8ed7a1e2735c463c856dc7cd1738fc39200137727d295f769aff57aa292683d
Program Files\Dominion Voting Systems\Election Data Translator\txkernel.dll	1af40648e4dbf252cc179b0d9f482b29ed786493ef5c2135bd079e51f878237b
Program Files\Dominion Voting Systems\Election Data Translator\txpdf.dll	10344d82c1555451953e1bb7dcfbec23714f3c492541ff1eb05517d0a16623a0
Program Files\Dominion Voting Systems\Election Data Translator\TXTextControl.dll	8172aed7c82846bee5328a781c3bdce359cf8b6a6406d85a807dc7302d1f20b0
Program Files\Dominion Voting Systems\Election Data Translator\TXTextControl.Server.dll	fb584b4e7da2bdb79e58af06a2be393a0fedd0b2136d80ffc970a626e66235f7
Program Files\Dominion Voting Systems\Election Data Translator\TXTextControl.Windows.Forms.dll	77610ff1d3e44e259da659271262ce9c2250e5a3224d74fd05e962ecc3c2cb4d
Program Files\Dominion Voting Systems\Election Data Translator\txtools.dll	f8893f9f889d38c81e1e60e19ec1f24366020925419fd5f78d4eb7bfc5578846
Program Files\Dominion Voting Systems\Election Data Translator\USElectionsDomain.dll	8d42c066d30408975c21f7d2be6523e9efddb84b2c6d33c7cb94a9978f05e3c
Program Files\Dominion Voting Systems\Election Data Translator\ValidationData\UpdateExcelStructure.xml	b82e8f4bbd2853e6c2c0900ad45a55a2ce185f24420cb324c52c3fc29190c70b
Program Files\Dominion Voting Systems\Election Data Translator\ValidationData\ValidationExcelStructure.xml	ac316fd5833833be82ecfce97cf2e1e8e04210d50e8ca83fac237f3bb128187b
Program Files\Dominion Voting Systems\Election Data Translator\ValidationData\ValidationRules.xml	df0148a84afeee8b8e96e44e0d6d7f8199042ae9a39331f14e960696bf2abb65
Program Files\Dominion Voting Systems\Election Data Translator\WinEdsImport\WinEdsFormat.xml	0ebd138435a1f0b8d7cd027c519ac774a9e4e38a893cc255e8cddc7e21e9c66

### EMS Election Event Designer

Version: 5.5.32.4 64-bit	
Filename	SHA-256 Value
Program Files\Dominion Voting Systems\Election Event Designer\ App.config	2e1d0ff29fcd686afb30268376659c604fc16b16a748b6d23db30dac4d109901
Program Files\Dominion Voting Systems\Election Event Designer\BallotGeneration.dll	26669d4dd7f8d39c219c17500e5df6316a15f5224f9080cc85e25cb9dc5a54fd
Program Files\Dominion Voting Systems\Election Event Designer\BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fcd2bc08ded5cb71465
Program Files\Dominion Voting Systems\Election Event Designer\ConfigurationControls.dll	6d2e0e30ce73e7aac4aea6a01cc782b2bb07495f683d4f6e456e109f30285a03
Program Files\Dominion Voting Systems\Election Event Designer\DefModifier.dll	a0974d8ed5e55d7ee19430fb692da9d0a591fa3f73ba04a19d48baf17cc7aa63
Program Files\Dominion Voting Systems\Election Event Designer\Democracy Suite EMS EED Users Guide.pdf	3940666b054a6ba139062b4c172ee5a3164e56925962065d242c291e9b5700f9

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Program Files\Dominion Voting Systems\Election Event Designer\Documents\Democracy Suite EMS CADSCS.rtf	1a2a75b533c777268ac010043526960412383b72f9b4a1d24d74a9d003ba1583
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.AudioLibrary.dll	7b968cea82caf5eef58f4c40f864c4b392846a781c7c9af1e226b5da6729fc01
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.AuthenticationService.dll	e8a0a2832955f0c39dfce599457756647518b84886a5d962577618532f523874
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.BehaviorSettings.dll	6ca20ef4de4a037c28c34780d28a5d63cd733f99789cbf83b141701fe70158d8
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.BehaviourSettingsManager.dll	9a94370c089122e6931cad66371baa17105d9083dc9c63ca54e406bd5daee109
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.ClientCommunicationObject.dll	2b5976ecbd0201d9018b5a911609949cc250ecc4451779d3ed442770b48b4396
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.Common.dll	836d0836b63b9720b46c409599806fc92725d0698f6f34c80274e00026442427
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.ConfigurationService.dll	ec4c38b32ff668bdfceafa480a35c3cc9be870908aa2b90aad030a18408d3249
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.CryptoService.dll	78e6b5c8ebcf7f4a1c3318c2c897a6d14240d3beef6376a2e3917876a01cfe5
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.DatabaseService.dll	db1908a24ce490d6003d1347a9434b612f26d67d2c06d8b7f38f0a8a26c98bc0
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.DCFFiller.dll	24cd610a0c0c4105a2f283d9f265dc0e7757cec043c29d7b86be348afde558c4
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.DCFFiller.Serialization.dll	4592729f0a09b014b416072149b03a0ace287b335fd60139cb4e064db9373f01
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.FedAppsCommon.dll	c86e7a4629ddc77c3fedf420a050a6fc4ceaed4d5859a1114be4678149d9462f
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.EEDCustomAction x64.CA.dll	927462d401f6997322fb267ad133e5b6b0b2aa3429a49375ae1af60dee51a18b
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.EEDCustomAction x64.dll	07fa8e70029cd7df55dc2d1165b67ebf768531c294c64283d60b32fb4bf3ad96
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.ElectionEventDesigner.exe	aac19abe37fe892aeab99749212e83812f11feb6b260fe13ec3d01e580aadec8
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.ElectionEventDesigner.exe.Config	abc370f0c0658d724e93030726d42d7fdc39c9ae6060f178e1e1c7d8ab58e569
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.ExportImport.Default.dll	6002c14a71e02d2807d7560b758f0c70c8cf997b44003240e371e3ac8d8e46b
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.ExportImport.dll	0b658c82642a7db72cfd206c68b7a8fefdc9a91591a22a884ab55abb01e7cf02
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.ExportImport.Formats.dll	a9207a272dc50d60e3ceb81ed041fa79bdcd3c48ec1f975cba78362fa9f67188

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Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.ExportService.BaseExportService.dll	9c0a6e2a1f74c9da5e7b012e5bc9a74ebdbd155c296155b1fea0edf8e428376e
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.ExportService.EMLEExportService.dll	09bb8e4be7cab75bf20ad8ef4cad76f22c9f624f36469e87b7a2f8916a59de80
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.GenericDrawing.dll	d9ae83a7e9d4a29315d1d97a2ee8a207e041dd80c707aaa273573a626df9a6fc
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.LibraryCollector.EED FED CERT.dll	6156ad73d117a0b2c97fe59cb37ef36f80ad053042288058513c465af61048c6
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.PermissionExportService.dll	fbcd8d9f5e73d8dec917703b3dd3106afdd075f8d4982f28004ada9ae51a0b6ff
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.PermissionManager.dll	cf73b73c3659cb2865a93f17597aefbff99f56edd9675ab1dcf7aa8f77eb439c
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.PermissionManager.Gui.dll	89051f6795d96bb9704e403a69c69a83ace68e0f69bdafaeab77f486b16ec00c
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.RemoteServerProvider.dll	53d3d1789fc51d863a37b128824a5d92ec0b9933caa9e506378491d89c1d337f
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.ReportService.dll	dc464a0b672cd86c13b5b305e395d9d8f425dd75e7315bc3533dd5764334385e
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.ReportServiceBase.dll	694c01ebde1105aeab7fa15be3a7b8a0ebf3f44d2f4898a8ae926635676284ce

Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.ResultsDomain.dll	6b04912d85020ff5242d5c4938164e75dd84277dd51b93eac5cd4d622105ab7f
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.ResultsParsing.dll	7af5c1f453d0cdd819dee10d71010d6eb442e92e2b001065cc1be04440947ced
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.TabulatorGDomain.dll	fb30a872bf7f69a5024e5878c7b5524b95170f6d54a2554fc70f5c47eed1c66e
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.USElectionsDomain.BallotGeneration.BallotStyle.dll	0dd0ab741717a45d2a60d4d4f817bb4a78060982097b4a859f6f88fa1874e293
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.USElectionsDomain.BallotGeneration.dll	4804469de88b94f09faed9111c63d6bf9512cb3721caf7f8c4d76dcceb4a4727
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.USElectionsDomain.BallotGeneration.Florida.dll	c234426c63c564e94ec3f52b2894979a21c10c6350f0265abc1b5aacbf10478
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.USElectionsDomain.BallotGeneration.NYGeneral.dll	5e2e40089be786e9e49dc00497801dde4011509030bf9035f379802a3f606346
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.USElectionsDomain.BallotGeneration.RankChoice.dll	7f63a6cf51761c4e37df3e5f0cd7ad23da8ac7b69e52a0a4a0cbaed226989b49
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.USElectionsDomain.dll	c7a53428992aed9c0eeddb97c755598ccd49933b0e6722c28d2ab491fbcc745a



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Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.USElectionsDomain.ElectionFiles.dll	26894ef04cd04535026bfa386c5297bb351e8d549951cd45bf4e2bfab53708af
Program Files\Dominion Voting Systems\Election Event Designer\DVS.DemocracySuite.USElectionsDomain.GUI.dll	b95ee5f5c86c6fbd88288e34b5ea83c93c7ffcd5ed730ab124f0c73870862c7
Program Files\Dominion Voting Systems\Election Event Designer\DVS.ElectionEvent.BallotRenderer.dll	99d2ffdd38b03b2ff834666180e8d1947cdf913da007b3f74805847865b731da
Program Files\Dominion Voting Systems\Election Event Designer\DVS.ElectionEvent.BallotRendererSupport.dll	70d80500f3119471bc2561ad87fc9484bb377e3a7e273631fd18c09cd443f1cd
Program Files\Dominion Voting Systems\Election Event Designer\DVS.ElectionEvent.Layouting.dll	929854af1a8839e13916cf10d9396d8e8933058fee90339a343e576ba27b4105
Program Files\Dominion Voting Systems\Election Event Designer\DVS.ElectionEvent.RtfInterpreter.dll	6afcea8de1f47d4602092e3a5a780fed95b7a98c61928758f51bb42eb2b558c9
Program Files\Dominion Voting Systems\Election Event Designer\DVS.ElectionEvent.SVG.dll	497a2a659ab659c48ebec2ac4c3afafd10d0bf42825cc7ed9055a4b86e601cd3
Program Files\Dominion Voting Systems\Election Event Designer\DVS.ElectionEvent.SVGGui.dll	22799f12de853b047c9a8720a4c995ab14263f58660eca3983faf032745f3a2e
Program Files\Dominion Voting Systems\Election Event Designer\DVS.ElectionEvent.SVGGuiCore.dll	106af16a93207fd87620e41d42d2272479b0ffe4f4be6857d79264c98d7919e10
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.Commands.dll	5d0b8ffb9e60b6f2c627c8a0388ec0817584ca62bf832fb429aa61af7d38f33a
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.DbMaker.dll	c289bda020a9961e8ee38a4c7246f4deca0621b664bbfadcf3015f829ebc304
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.Domains.Logging.dll	a4d48e1c0e0e9ada86b7640ea4f5b6d6fbae4dbbd2d4dba58d93975f62ffb330
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.Domains.Parametrization.dll	d6a478f53be8d1f98a7ad1dae4f98f0d0a881e14468c94c6a9ce0fa80023fab6
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.Domains.PermissionManagement.dll	e46f39e0c3871eb6a9b16cfa52cd02f1a151ec35f01783e6a618d84da2c5e68
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.Domains.SystemVariables.dll	26592b02c46f3d665b893dfcac4f00a0a4ab638fda18b442c23830ddf6fda87a
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.GUIConfiguration.dll	9d398bdf12c36d4dcea23bf5d004b63a257db5d44822091dc03c14f16f729b47
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.GUICore.dll	5649534f7e7200e0cbb14582ead986b3968dbbe193aed64935fabcf3499e4bb6
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.MemoryCore.dll	9d751571f9fb186a9bf549ad5517b6c2502ad9c69ecb4d8032359d3dcf504c0
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.RemotingAdo.dll	7605a76694e4d632c027ad33504c0ee26c550829e60a05b45cce2b7e6e78432f
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.ResourceTranslator.dll	4ac35967c058893208a6e45523a1a877905a24e55bb87695b2b82436b00edf03
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.Serializer.dll	7e219df614a9a74008911cd533190d079a634efd700b602a81ad0ec799d39261

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Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.TPWinGUICore.dll	d5099d2cadc71c648e15a362dca3cebdee46e5f1705df8ed38077e2436f8619d
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Framework.Utilities.DbModificationFilter.exe	e7da0f6e60084f20f422a63fc313cca1d1ce065c865a77b18f2641a895762a4a
Program Files\Dominion Voting Systems\Election Event Designer\DVS.SmartCardManager.dll	d55d6c0a4425349ae5f67547242b0650923525aa0a4e777516078fa6f745c949
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Utilities.AudioConverters.dll	70dc8284c5fe75eed2d58dfb13814c15c9afce51c029734ef7a356a36a2709aa
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Utilities.BinaryFileAccess2007.dll	054c439e2ba5ca120bb7924a8cb198b729eae00968161551246a1c40d984bd2c
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Utilities.Common.dll	054024f75482b86a0e4ffa4f21a506316e7788367570593105864c8dcf38d527
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Utilities.FileSystemServiceFacade.dll	850471a5f5301afccfebaac954fadbe968df5aebb64682e993336caf42c829c9
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Utilities.MSWinManager.dll	40327b9711f5c06ae4469f2fccb4e6f3d2fa20dd6227586cfb76b711965fb26
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Utilities.ProjectMangementFacade.dll	eaae548941a5385f94d366c54fa14a0938d13b4e11e48e4738945d387cfbe6e9
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Utilities.RemoteCache.dll	b3527dbf246eccd1521df98b67dbafcf53ca8d68bcfbdd93289362c8a6e7f576
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Utilities.RemoteCacheProxy.dll	22eae529620ade8dae6e9d3b401add99f024ca25523a352f2b0d958a934465c5
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Utilities.RemoteInterfaces.dll	5e3752b9e95d03450f2b47f93f90db6f21602d36de0436f7e9de96516bebf07a
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Utilities.UsbFileSystem.dll	ebeeb76e1e81f40365a99c4388c71d7480265f8fa37202f17e7592d342fd9900
Program Files\Dominion Voting Systems\Election Event Designer\DVS.Utilities.FullFrameworkWrapper.dll	af124dddca65ca3932aa0ccaa0b8c9118aff4fa37be4c40d5a92d6501552ca7

Program Files\Dominion Voting Systems\Election Event Designer\EedTCPCommunication.dll	c830ca303ea7ea665ba9dedba093396e78ba9f34d1762bdbd21352f325abdee1
Program Files\Dominion Voting Systems\Election Event Designer\ElectionFilesGeneration.dll	b8a9bb1255590ff823d80b1394b3e581259949df103050d1b0fc800a7fef9eb
Program Files\Dominion Voting Systems\Election Event Designer\EmsBallotGeneration.dll	9377287b67ae18fcaacc3f9f6b45657925527bdef514b96717e3f0f94c5759a
Program Files\Dominion Voting Systems\Election Event Designer\EntityFramework.dll	ed6ebd749052f9018f6699671ae5469adedf086cf8b1bd4256bbe9c4e7ff05
Program Files\Dominion Voting Systems\Election Event Designer\EntityFrameworkUtil.dll	82621115570730c78979f51d21eb05a73b1d12ff44b34739d4fd9b857b58a700
Program Files\Dominion Voting Systems\Election Event Designer\en-US\DVS.ElectionEvent.BallotRendererSupport.resources.dll	a3d7160dd9949fae7081212dfe742492fd8204ed4be0b6e55d5a044eeca37dbf

## SLI Compliance

Program Files\Dominion Voting Systems\Election Event Designer\GuiEditorCommon.dll	5a334c69edfcd93692d53ba39b8c7b5d6478b4eeee2873115c12c83742b439520
Program Files\Dominion Voting Systems\Election Event Designer\Infragistics2.Shared.v11.1.dll	43d6d97cef01feb0187608a3b10296f9e57301f344c3cccd4c0f6959de59a4c7
Program Files\Dominion Voting Systems\Election Event Designer\Infragistics2.Win.Misc.v11.1.dll	28ac4d99e7b800a39bad93d478b55b50634365c9f58cb5cb96d86c15a0cbffe4
Program Files\Dominion Voting Systems\Election Event Designer\Infragistics2.Win.UltraWinEditors.v11.1.dll	f9622a7a6b56c3ca252772421e13fea757a34729b5f815090d6f7094f6a284a5
Program Files\Dominion Voting Systems\Election Event Designer\Infragistics2.Win.UltraWinExplorerBar.v11.1.dll	dafc088a2c5495a011cc9af74997b40b270768dddcd73e4bb15a39c64dbf3397
Program Files\Dominion Voting Systems\Election Event Designer\Infragistics2.Win.UltraWinMaskedEdit.v11.1.dll	1ec60fb4201e80cee5f7e61d081ec2e1ff15f6d3cf1807ea3964f64a229431f6
Program Files\Dominion Voting Systems\Election Event Designer\Infragistics2.Win.UltraWinStatusBar.v11.1.dll	13c1a9c1c528b94651e1a7e5281f2464753611b19502b2f4471ccbb555aef8
Program Files\Dominion Voting Systems\Election Event Designer\Infragistics2.Win.UltraWinTabControl.v11.1.dll	944d9958f8a86d1ea682275aafca2c5719edaf9dab51ede3cf062c745e8c596a
Program Files\Dominion Voting Systems\Election Event Designer\Infragistics2.Win.UltraWinToolbars.v11.1.dll	a9f876661d9e70fce1f4b35bb67c042f48e88014cdb0f3d082650f49968c7d5a
Program Files\Dominion Voting Systems\Election Event Designer\Infragistics2.Win.v11.1.dll	7550da2b0699879ad0552777d6cc3499969eae9ba3e76ca4518d73dc82b41207
Program Files\Dominion Voting Systems\Election Event Designer\InfragisticsWPF4.Controls.Editors.XamColorPicker.v12.1.dll	751645399f3e60df0c89c0aeb70288ed4a0a4eccbf5f6a8edb40c69a24d4ab34
Program Files\Dominion Voting Systems\Election Event Designer\InfragisticsWPF4.Controls.Editors.XamSlider.v12.1.dll	71848e74fa3c3708d740921a69e11753dc1faa672bd7fb98b1c78eae5a0ee956
Program Files\Dominion Voting Systems\Election Event Designer\InfragisticsWPF4.Editors.v12.1.dll	6eaf86848c240faea4f5bd4c15388ce31ac23e085a14c52540fb1b131df70c16
Program Files\Dominion Voting Systems\Election Event Designer\InfragisticsWPF4.v12.1.dll	e6d7c6e94d4bc62b5ebea0d887196b0e4d0bca5d978914325d9dac00a6f7fdbd
Program Files\Dominion Voting Systems\Election Event Designer\itextsharp.dll	beb5c25eb5f659cbb2574f3eaddda35c5b18e860558daac4533b4ed98e29bd55
Program Files\Dominion Voting Systems\Election Event Designer\Log\Error.0.log	12262b3eaa611c1d9d0c67899e7d3f12a78b8d7d1ca9dfb05315c8749601e5f8
Program Files\Dominion Voting Systems\Election Event Designer\Log\Error.1.log	efccb6f6ac51f2a23e933bdf28e98fac448ffab3652a6aa31dceeb28a97dcd1
Program Files\Dominion Voting Systems\Election Event Designer\Log\Error.10.log	7393937166ec8ed658b0ab3a60e8d15fa797a1da5ec239b8bee9283a86278022
Program Files\Dominion Voting Systems\Election Event Designer\Log\Error.11.log	e8d76aebbb887836c90b4ae5f20b532ef7d5fe5f02803401fc953462e0d1c5f6
Program Files\Dominion Voting Systems\Election Event Designer\Log\Error.2.log	d8f3ba50837a71465eb5dc815d958696e4bdd034a2a733099cb51e9630af0db9
Program Files\Dominion Voting Systems\Election Event Designer\Log\Error.3.log	c82818aa0bb80e9f07f661dc7153143d508f925cbc4316f8f0f5dab8db76fdef
Program Files\Dominion Voting Systems\Election Event Designer\Log\Error.4.log	e65bc9f54c44f79fe9dadf618f381aa7eeb1f5e0cb167a618bd5131adf52ca7a
Program Files\Dominion Voting Systems\Election Event Designer\Log\Error.5.log	d0edddb0864759e8e2e81a6c3cbe0acae4dac3077ead78f3011ea2af7cac90b2
Program Files\Dominion Voting Systems\Election Event Designer\Log\Error.6.log	8d8f4728bd424adc53c92c298beb2da5f85c9f0c858802a6c4ea450954567b3e

# SLI Compliance

Program Files\Dominion Voting Systems\Election Event Designer\Log\Error.7.log	075638e49a8c612378dce6f7cbaf73aa60c78d35641730d828624b6f24cd4143
Program Files\Dominion Voting Systems\Election Event Designer\Log\Error.8.log	1ad8b4e0d3266c66574c4afb8ff997d60e61717a44b091a5d89bf3a44d19c60
Program Files\Dominion Voting Systems\Election Event Designer\Log\Error.9.log	3f974dedf7e3c3e5032ccf0bc7b5ed4f290ad9bd64f3b022b532e13a8a0a318b
Program Files\Dominion Voting Systems\Election Event Designer\Log\Error.log	bfc14e9b277f2f7901fbb1d95c6c77276ff7d36a487734e37f3e6834e5afa2bc
Program Files\Dominion Voting Systems\Election Event Designer\Log\Info.log	3d1c51d61237b0c26ca20e398dd6aa75b4d24c9538d799291615648452190b19
Program Files\Dominion Voting Systems\Election Event Designer\Log\Trace.log	f68d5e544925445fb8d19fe6e9d7c5173e506148172396c4f249265c337f64b9
Program Files\Dominion Voting Systems\Election Event Designer\Microsoft.Deployment.WindowsInstaller.dll	9aebc76cb8c864593e0419162b2bf40b81bd52b3ff12edac1d032828df83dcfa
Program Files\Dominion Voting Systems\Election Event Designer\Microsoft.ReportViewer.Common.dll	e3f6d98df27d1877366a374a82dbdfa529405297217624b1309a57339d57d4dd
Program Files\Dominion Voting Systems\Election Event Designer\Microsoft.ReportViewer.DataVisualization.dll	e9ea1b82fd7bc766c723181f1cd01d9ba7dc9754d34c3a5e4cb12601d059b1fc
Program Files\Dominion Voting Systems\Election Event Designer\Microsoft.ReportViewer.ProcessingObjectModel.dll	2e9a2509b5e79c68aec78fe84df95c52ba2d56359b1e24920479bd143410e2a5
Program Files\Dominion Voting Systems\Election Event Designer\Microsoft.ReportViewer.WinForms.dll	b10ada2d6881eead90dc319f791abd0d5d6f028e3532b7d7641add001afb93c
Program Files\Dominion Voting Systems\Election Event Designer\Microsoft.Web.Administration.dll	5b28ceefb320c6a808cb352385ae4523fbecc676af1cb091ceb1789b3b83aefc
Program Files\Dominion Voting Systems\Election Event Designer\NLog.config	198812ce6b4a38838737cf1303d212f14c952b81a609968c8410d980c5514431
Program Files\Dominion Voting Systems\Election Event Designer\NLog.dll	e17aac589bd48a623857de7f8113bcae6f72e4fe4652ca615ffa1028353b246d
Program Files\Dominion Voting Systems\Election Event Designer\OneWireAPI.NET.dll	e0e95a3b2fe54ee9dc7c907124d8b564aa0781b163d0d091147f59a3008e7673
Program Files\Dominion Voting Systems\Election Event Designer\PdfConvertLib.dll	80d290cb62e0bf3ffd7e3487afd1672a48310cb6a2a0688cca651cff0b21e70b
Program Files\Dominion Voting Systems\Election Event Designer\Renci.SshNet.dll	451ba700ecb5e77bea05160fda3ee6fb706839d831c925279634614d610ab8d9
Program Files\Dominion Voting Systems\Election Event Designer\Resources\Arial.xml	8a4a0ff9c4f9eb2cc198a2e4f096631d383b2a7126df8b6036e2c1ce42650c54
Program Files\Dominion Voting Systems\Election Event Designer\Resources\ArialBold.xml	2a2cf9e764699a6189777b084601da22e109d84d24071a7ea4821059ea287b7c
Program Files\Dominion Voting Systems\Election Event Designer\Resources\avalon-framework-cvs-20020806.jar	51ed0ddf5c6cb03f76f250eb22f1b4e5585c0e6242af3a02d5f40ed563af149c
Program Files\Dominion Voting Systems\Election Event Designer\Resources\batik.jar	a8af031e63b8807066f094ab2cd1eae28de6aac92a460705ab44b14b5bb0f07b
Program Files\Dominion Voting Systems\Election Event Designer\Resources\fop.jar	aa97ad1ca47782cfb5cfae2eac3f7153a87056d924b6987ff8d68542865f2b47
Program Files\Dominion Voting Systems\Election Event Designer\Resources\fopcfg.xml	4d55239b7df47170d1bb4f3a7e878a94a2afa149cbe8d613ca160d2f9430841d
Program Files\Dominion Voting Systems\Election Event Designer\Resources\LabelsPagePattern.rtf	e94bd324c5cb7eb16732f1784ae7ee30188c61f948326b95964308a8c2d0b4f0



## SLI Compliance

Program Files\Dominion Voting Systems\Election Event Designer\Resources\LabelsPattern.rtf	6cd11621f3d445a21103a1b5c82f287fcd2ac27e3f443568ec6751cf9b37ef94
Program Files\Dominion Voting Systems\Election Event Designer\Resources\lame.exe	af62aa829fd07d8b8729b8ecb9a5c4bb30c9a7add248a25e0861e50e50ec9904
Program Files\Dominion Voting Systems\Election Event Designer\Resources\libeay32.dll	d11e92f738e6f1ac5b8ba1393d2ae3378ba55757822a856da3a9cba9fe124723
Program Files\Dominion Voting Systems\Election Event Designer\Resources\libgomp-1.dll	287804ff69730b3f5830fb488ea7640fdd52a27250275aca1052adff37c8c25c
Program Files\Dominion Voting Systems\Election Event Designer\Resources\openssl.cfg	06baa8f15992bacd3e5b113cd571d828c0544d0482ccd2e15969fe819957271d
Program Files\Dominion Voting Systems\Election Event Designer\Resources\openssl.exe	2634dd8cb1438d50dedb034ae6fff3fb1282dde84696f927b53b05b02f6484ca
Program Files\Dominion Voting Systems\Election Event Designer\Resources\PropertySetter.xml	973894179933bcd2df000ae29732165556e3271d7b94b177a84706f85a59c5d3
Program Files\Dominion Voting Systems\Election Event Designer\Resources\pthreadgc2.dll	cf14602bb18e7670ea6dc89e577d473b9d65b98f926c998aa40614d671adf98e
Program Files\Dominion Voting Systems\Election Event Designer\Resources\sox.exe	9bf1ed9cfce4092a1b14c442acdb0ea59d3bc1eef32e209e577daf1c23a1ce08
Program Files\Dominion Voting Systems\Election Event Designer\Resources\speexdec.exe	9b935d21d2b9e7fb1394cc3cbab13af3d562105237535f08764137dfbb686038
Program Files\Dominion Voting Systems\Election Event Designer\Resources\speexenc.exe	2f464a7ddfd7a2679797e930a0b367a92ff358fab6ddb2383241d2b291dd0fc5
Program Files\Dominion Voting Systems\Election Event Designer\Resources\ssleay32.dll	28f2fe4d27b694023255f8dbfa6e30ff81d3155c12bd0060e30bd7c39e4ea19f
Program Files\Dominion Voting Systems\Election Event Designer\Resources\zlib1.dll	2ff8a0abf8220e350a229dd3be5f2a0f18fa0d62b588c589c6c47d8c593cf14c
Program Files\ Dominion Voting Systems\ Election Event Designer\ Rotations.dll	0fabf2b0458c116f75eda64e2db61ce9f6519acdd4f9a6a0308c97ef3fabd16f
Program Files\ Dominion Voting Systems\ Election Event Designer\ RTFReader.dll	b3cc3a93d6e62194f6353f9198998b350cabd5c46ea5d6010c65bb43dd01cfac
Program Files\Dominion Voting Systems\Election Event Designer\System.Data.SQLite.dll	907d947ec9f35e0b49bab8df1d3791117eec2cc45a4ef9687557df0e656d9d08
Program Files\ Dominion Voting Systems\ Election Event Designer\ tech.xml	fef0ce1ab3428208f5f62d22436ba104ca5fc4375f35ac3728eca82072d40b8a
Program Files\ Dominion Voting Systems\ Election Event Designer\ TextBlockGui.dll	5582fdc60d64dcb4a01149f0337ed9c114da02551ae59c985c1cc49c37e2c41b
Program Files\Dominion Voting Systems\Election Event Designer\TextDocumentCommon.dll	05ddc2b84e34f0e4940153bec867ebea04691f49a1e762fca9a0ff7c69e6591e
Program Files\Dominion Voting Systems\Election Event Designer\TextGraphicalEditorCore.dll	66cdacf5e719e5d658896ed45d9a1509963abef61f8c67577185148459498997
Program Files\Dominion Voting Systems\Election Event Designer\TextualContent.dll	e7299c0b739d6483868eb5a38ae4d2087bf2b03bb1f3b44f9e0248122ae4a14b
Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 bmp.flt	7bec71af7be3bcf76f8b34c6d7cc7d87c6c612507cdaa57a97b9fa7637a8724f
Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 css.dll	e61ce98925f96cb59bc9f6261f4eed6e7921b1c4dcb7a2fe5b34d61be1324d8

## SLI Compliance

Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 doc.dll	b1bae770044c71bbceb1cbbb488abc11cd4b8a3102aab3861aba22042b9424
Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 dox.dll	67b19985f4ba96e040c1b0f58ea68e7ae1d8a62814ed0ae9dabb59b11886a03c
Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 gif.flt	f5871adae67e25836272700d3b02cf082fa444f0537420da14ec702ccb80718b
Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 htm.dll	0672fc52f7f2172783365f526204e3f1cff0636dc21c65eb70230177b8451c23

Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 ic.ini	3754f3454fce6c40f55f7f3cced671d8828e034ab89bc0a450ab3a88b496a2d2
Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 jpg.flt	27644d1a94c5fece37c71da8a21fde52e35b6fd910f3e7fb4a64459f2454ee5d
Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 pdf.dll	90110a3b0bc84be25cf23c10d6a2bb63898a357820971ea339f6f674461761c
Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 png.flt	fe7e0d8d261d15cc438eb4f712d1c27396fef1e11d7b2c09e5fbf672fb147a4a
Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 rtf.dll	bcf88d31ea94d43b69a2d79f4b4ce91770ec740a7ff8b8197980004be8cc224f
Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 tif.flt	7eb2f067c31e078cb3416f52a325b83c58b4815720741a3f34d1a80fa93ca2d6
Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 wmf.flt	c479eaf41f32809076e1926bb1ca308cb8c22b08874b3621e9da80e2c45c7ac3
Program Files\ Dominion Voting Systems\ Election Event Designer\ tx16 xml.dll	dd3a5458256211dd537a8b0ea7d86648f3b6857d39d853344d7b820bc411c5c7
Program Files\ Dominion Voting Systems\ Election Event Designer\ txic.dll	e8ed7a1e2735c463c856dc7cd1738fc39200137727d295f769aff57aa292683d
Program Files\ Dominion Voting Systems\ Election Event Designer\ txkernel.dll	1af40648e4dbf252cc179b0d9f482b29ed786493ef5c2135bd079e51f878237b
Program Files\ Dominion Voting Systems\ Election Event Designer\ txpdf.dll	10344d82c1555451953e1bb7dcfbee23714f3c492541ff1eb05517d0a16623a0
Program Files\ Dominion Voting Systems\ Election Event Designer\ TXTextControl.dll	8172aed7c82846bee5328a781c3bdce359cf8b6a6406d85a807dc7302d1f20b0
Program Files\ Dominion Voting Systems\ Election Event Designer\ TXTextControl.Server.dll	fb584b4e7da2bdb79e58af06a2be393a0fedd0b2136d80ffc970a626e66235f7
Program Files\ Dominion Voting Systems\ Election Event Designer\ TXTextControl.Windows.Forms.dll	77610ff1d3e44e259da659271262ce9c2250e5a3224d74fd05e962ecc3c2cb4d
Program Files\ Dominion Voting Systems\ Election Event Designer\ txtools.dll	f8893f9f889d38c81e1e60e19ec1f24366020925419fd5f78d4eb7bfc5578846
Program Files\ Dominion Voting Systems\ Election Event Designer\ USElectionsDomain.dll	ae1434bb4f2baa8213e99e29db06e70c5623db63e35527a3f7a5f4ef38a10bed
Program Files\ Dominion Voting Systems\ Election Event Designer\ vjsc.dll	ee26fbf3f4c7222ae3aefaa957c5d237103bb400ea4b620d567ed768fb9d5157
Program Files\ Dominion Voting Systems\ Election Event Designer\ vjsjbc.dll	9d18f7b502727209aa6acc5830f9b24f16e61584fa695425b405202e6ff5ba99
Program Files\ Dominion Voting Systems\ Election Event Designer\ vjsnativ.dll	934d4ca23671d245d4fbc433e726bb7bb38a4258e1a6ff4681a7aaea2a4bbd1a
Program Files\ Dominion Voting Systems\ Election Event Designer\ vjssupuilb.dll	d8fd2643d2d19301aa83c4baa3e7062795e36344307429baa63c2fd92d37c10b
Program Files\ Dominion Voting Systems\ Election Event Designer\ vjswaux.dll	ca8ba8e4eb56d712fb00489039548846f0f4e6238f0a5daa94cc8b8ebc53e0ab2

## ICVA

Version: 5.5.32.4 64-bit	
Filename	SHA-256 Value - -

## SLI Compliance

Program Files\Dominion Voting Systems\ICVA\activate card statistics.xml	cdf2e01492b669fa90034956c1deae920ad25c773147e3cec759a7b6b8a041e4
Program Files\Dominion Voting Systems\ICVA\BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fdb2bc08ded5cb71465
Program Files\Dominion Voting Systems\ICVA\Democracy Suite ImageCast VoterActivation User Guide.pdf	55beae600aa37eb2bc694846593d722cad7dcfa17bc08243d65c8738f197bd6c
ProgramFiles\DominionVotingSystems\ICVA\DVS.DemocracySuite.Expo rtImport.Formats.dll	bbfa1e0a11c5bb1dd78797e99b2a9cbc8c38b4f0a6a3d5861783e9aa1757e839
Program Files\Dominion Voting Systems\ICVA\DVS.ICVA.GUI.exe	dca90ae5d7964586f599f374bef672928cda0adfe57efe5f58cdab1f6108ee76
Program Files\Dominion Voting Systems\ICVA\DVS.ICVA.GUI.exe.config	d4359fc10af49afd5fc7b6cfa8f76bdf11beb3f6376f4d5420a9b2d1d01d483f
Program Files\Dominion Voting Systems\ICVA\DVS.ICVA.ViewModel.dll	121484614bddc7fac835288ed8edb128f89630bd7087287ce98df4b9f5740c04
Program Files\Dominion Voting Systems\ICVA\DVS.SmartCardManager.dll	63e3b86976a68c6a940039cc49509e37c4edf0087ca85932ee3f41ce7af51bac

Program Files\Dominion Voting Systems\ICVA\DVS.Utilities.Common.dll	9b708565f9db066926c7dc348f9fbb442dafce1ae5107eb3010a8420ceeaab3
Program Files\Dominion Voting Systems\ICVA\DVS.Utilities.MSWinManager.dll	84f7c9e66df00a2eab5f2a67803d95cc181b20a015bb4b585aafcfcb9a0b0792
Program Files\Dominion Voting Systems\ICVA\DVSICVACustomAction.CA.dll	c7b6c5447c1089fe1242655746f956e4bbb98f1af6e249df4b5cb3ecec2d2a22
Program Files\Dominion Voting Systems\ICVA\DVSICVACustomAction.dll	616b1d3b0ce89cb4eae73d63e7625bcc3344eb16bb4a4971c2d3087e029773c
Program Files\Dominion Voting Systems\ICVA\itextsharp.dll	beb5c25eb5f659cbb2574f3eaddda35c5b18e860558daac4533b4ed98e29bd55
Program Files\Dominion Voting Systems\ICVA\Log\Error.log	d9a93d0ed272c317c02a8292350a1e8316e1f7a076906ccb73255a0308c77288
Program Files\Dominion Voting Systems\ICVA\Log\Info.log	620ed70bd3f3e0bc7a4043024b671edb4f4d54c7fcd0489c3a295ee73e61a17b
Program Files\Dominion Voting Systems\ICVA\Log\Trace.log	53acd3341bc85900088af3018ee1dbaf40d46e14d3c268dfe89a03863ecb1f6c
ProgramFiles\DominionVotingSystems\ICVA\Microsoft.Deployment.Wi ndowsInstaller.dll	9aebc76cb8c864593e0419162b2bf40b81bd52b3ff12edac1d032828df83dcfa
Program Files\Dominion Voting Systems\ICVA\Microsoft.Web.Administration.dll	5b28ceefb320c6a808cb352385ae4523fbecc676af1cb091ceb1789b3b83aefc
Program Files\Dominion Voting Systems\ICVA\Nlog.config	d7ada065bd3e12a41a3ace29217191ae6e83c88852b3a5fd8b8b8bc51ee5589a
Program Files\Dominion Voting Systems\ICVA\NLog.dll	e17aac589bd48a623857de7f8113bcae6f72e4fe4652ca615ffa1028353b246d
Program Files\Dominion Voting Systems\ICVA\Renci.SshNet.dll	451ba700ecb5e77bea05160fda3ee6fb706839d831c925279634614d610ab8d9

### EMS Results Tally and Reporting

Version: 5.5.32.4 64-bit	
Filename	SHA-256 Value
Program Files\Dominion Voting Systems\Results Tally and Reporting\BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fdb2bc08ded5cb71465
Program Files\Dominion Voting Systems\Results Tally and Reporting\DemocracySuite EMS RTR Users Guide.pdf	0b5d83b40379b7af45979b19943820109d224b22d3b675c7c3c93207be4a641c
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.AudioLibrary.dll	97d94839529d0ad8c320a6169f30421e2e0ad25dc0e92c7824df334c92c46a98
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.AuthenticationService.dll	8e8af362b58d0a8948036a3ac9418acdc61ed0c8f13cd0828eb8c9d7a4c43be3
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.BehaviorSettings.dll	158c66d14058280cd1216207b963d3d4df6c0f6a65be1c8de1c771f3b702405f
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.ClientCommunicationObject.dll	7a4cce8bd5e9bc77487651d8a5ce4d1030cab8a2c246a687980a85583d084094



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Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.Common.dll	3cd1e5d9e72b235c9ed49e245db59de5b1e02bad4c9982b180439827ae44f73c
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.ConfigurationService.dll	c62139bab0ec6b2156c8353fb1d002c9ec174fa72bcde9045081ca62ae8fea0e
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.CryptoService.dll	26b047b0c7a710b7daf8398c91cb6044a43b4facf8dca9e8bed3536269ef5acc
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.DatabaseService.dll	6002612c6cfc8b567469b564cf12ed6a19baecd37c3dea96bcbced6ebf053599
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.DCFFiller.Serialization.dll	79937b6a2478b71826c6bac3a19df72cbb20236fe320b2dcecae3930d2534d1e
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.EMSRTRCustomAction x64.CA.dll	648c226b9f13a45e49116c4e23f0251c433c50968969b5f7fd3b3df5187da3bf
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.EMSRTRCustomAction x64.dll	6b468aaf895fce66c1d345669af2a45279a0a7492853bbb76eb89e19ba49eeea
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.ExportImport.Formats.dll	2ce653b602aa5e4d7a0e3cfa13da27c875f3149a24a7d8704b1d2d5e14f7da86
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.LibraryCollector.dll	c27793e73183d07cebc2b2d71550581651177eda1c79a757888b612f9df29c4
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.PermissionManager.dll	b5cc082163b55894029fbc0913e72e37a52e7e68406ccc56ad3bcf0ce47f6bb
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.RemoteServerProvider.dll	ee90028735c6cdce030eae9519b0ec32c5f46dbb6b930f99f6d6b2f13620f259
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.ReportServiceBase.dll	1926167888613a18032de9670c4dc89ca9e61e012171515f3656ea804efbcf2e
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.ResultInterfaces.dll	1cd797a95f350385039a0d99e0abafe5b10d94f2a7b4ef16c2d406b8a8f93263
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.ResultsDomain.dll	71534387e2f9adabf37c914d0e15d44345f9631be6915d696bf89fe0522d3cbb
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.ResultServiceClient.dll	9d46e942c904218f3bf47b6f1c606b6b3af035bac35732489b1bc574e8528fa1
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.ResultsParsing.dll	b78eb1d5223ef40fe512314e2895f7e3f971b8c57e27562b0a3912e48664a620
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.ResultTally.exe	587ac0654da1b3a97c32a65c202794c3be6708fa0a88ec254e095c8514c0a7d8
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.ResultTally.exe.Config	36a9d3741499c62f28edebb397288a1c8ca09196dd68f3abe80242217b3d167d
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.ResultTally.Reports.dll	a482e27a005ae6ebd5fd67fbed13b8c290008c19469d9927e31d79144995eeb5
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.ResultTally.StyleAdjustment.dll	4eae2ba9447224cbb2c816c82765b155ba3ec18d0f5f227a3bd6d8c3a7be515c
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.TabulatorGDomain.dll	d874ceb463d3b24d439c40e31ee6c8dd19edd1405be04a924be164082c841fe3

SLI Compliance

Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.Ui.Wpf.CustomControls.dll	b40cfc7f9cc9fc9971d7b6da5880a1b3c0b007b9ab0466b90bce720c89f5a6bd
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.USElectionsDomain.dll	26f4bacb03a7f74e82e799e2f703dd862d542cc7c3095592ceac8e40241f4fdd
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.USElectionsDomain.ElectionFiles.dll	522b7ca52fa6b8c9afeae892e1676d0916ff8717dc87417479133b94f8b2ef22
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.DemocracySuite.VotingMethods.dll	5b03521a158ee43e2d05f5f02273be84631b7a087376730c918a709514d5d2e5
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.ElectionEvent.BallotRendererSupport.dll	e0318c28453a5d923fe1c3d97d9c06d18c634fa536b9e6f2d5a73760b4eac64a

Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Framework.Commands.dll	3c58d7021b68b6cadd3b7a8ba2b4d0f712b0f33bce76588e22574ff33817c36f
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Framework.DbMaker.dll	5d8a84f8354339371a210d668c3ca7af9b6fc7d3f06714af8b99874204ddd9b6
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Framework.Domains.Logging.dll	23f4dae613e797b91edda55f74efa57f4cb61ff33bce4a5b2ce1ded26beb09fd
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Framework.Domains.Parametrization.dll	a2e4bf4c62576360a77dc2736ce4021845a0691a431297a5ff0579bf6213458b
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Framework.Domains.PermissionManagement.dll	68b5c478768a5dd002ff59e6d2945c546b6675e766c164df70ff8118150e139a
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Framework.Domains.SystemVariables.dll	e80e85d67f0cd8bcfe9bfa2c586e0f0774b85db3a09a0367d575a249223ad831
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Framework.GUIConfiguration.dll	f25f99ca9eb286b71d71b19cb4f3166498bc9cee41cf430f78948052951ea9b1
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Framework.GUICore.dll	e710346cb9859a3fd07ec22e3f8798f578681275afe1371349c854a03c3b9696
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Framework.MemoryCore.dll	c5b36ce2488c0227200c40fa5f4d02a2ca329fb8c35f879b089100388bdf089f
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Framework.RemotingAdo.dll	93d41b5405d30c95fa232a1beb19fd222b83679ad263fbfef51e48f5524da74e
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Framework.ResourceTranslator.dll	99c28a5ecd08c9fc2bc1fc6af708ab952688b379578de91730932b2712773506
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Framework.Serializer.dll	002fae5c21d4d42686c7624e9d1a28239ab2bfd4b0a410d96ec23f1c01c5f8c
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Framework.Utilities.DbModificationFilter.exe	09242d758cf0a96c8fdbb10bc9700d9343234376264bb4f5c0177cec57e049b5
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Utilities.AudioConverters.dll	f4623642887d85a74bc4b81c027b8a36fba8a2912e3c6f39ba19db2a569125b8
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Utilities.BinaryFileAccess2007.dll	0b9cf8928c9673f6862a52066dd471bfcff52011fc351c92997666b4640ad83e

## SLI Compliance

Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Utilities.Common.dll	7d700590f8f05776d12567fb3df5c5afdda27828c5ae60a7158354f362f76039
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Utilities.FileSystemServiceFacade.dll	f3698f4eefddb4608dab323b65e4ffbc8a3acc59956d9624da1f337373087e8e
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Utilities.MSWinManager.dll	9021523f19e6fb0ac0c12843f85352ec1829ea62cc805ceb07a8253d3867864b
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Utilities.ProjectMangementFacade.dll	6f8d613966ee4fb7ac52d9c1bf1d4482d93fa0e94aa8efc37e763e03f059a800
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Utilities.RemoteCacheProxy.dll	43003badc162da57d6caff17961f09d86eb3bd343d95890e1d647d5bbb15d9ce
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Utilities.RemoteInterfaces.dll	c03a2a4150c5e0be9484211244280a07cdf5ceb5c387293cd8be86557f36ff70
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.Utilities.UsbFileSystem.dll	334fa0d337aeecf63c776f3be1d601ba3ca4edaa39483c85cabd5d06827c3dce
Program Files\Dominion Voting Systems\Results Tally and Reporting\DVS.UtilitiesFullFrameworkWrapper.dll	1cbb6884322c4eb63443864989224528db62c696676e7ceebbef01a21947914
Program Files\Dominion Voting Systems\Results Tally and Reporting\en-US\DVS.ElectionEvent.BallotRendererSupport.resources.dll	7d99e775859153ec9ca7776f4337ace47b310a746a5fa09f1e6ce5e0af4adce5
Program Files\Dominion Voting Systems\Results Tally and Reporting\infragisticswpf4.datavisualization.v12.1.dll	88e3b218844a28f45e14341c225663a60733bb8ed3a904a2fc82ee7cdb018e2d
Program Files\Dominion Voting Systems\Results Tally and Reporting\infragisticswpf4.dockmanager.v12.1.dll	9916004aa048b2cb6bc72d83a15042832b6458d39da261df23a5955a7dcff2f5
Program Files\Dominion Voting Systems\Results Tally and Reporting\infragisticswpf4.editors.v12.1.dll	6eaf86848c240faea4f5bd4c15388ce31ac23e085a14c52540fb1b131df70c16
Program Files\Dominion Voting Systems\Results Tally and Reporting\InfragisticsWPF4.v12.1.dll	e6d7c6e94d4bc62b5e0bea0d887196b0e4d0bca5d978914325d9dac00a6f7fdbd
Program Files\Dominion Voting Systems\Results Tally and Reporting\itextsharp.dll	beb5c25eb5f659cbb2574f3eaddda35c5b18e860558daac4533b4ed98e29bd55
Program Files\Dominion Voting Systems\Results Tally and Reporting\Log\Error.log	add1cdb0d112a673f2867a87797b15b236dff1fc5902a2ced9738668cf751f30b
Program Files\Dominion Voting Systems\Results Tally and Reporting\Log\Info.log	b27215a7e0423978881648850f4740ad248bc39aa32ec54e2f9e2f1d2a108aab
Program Files\Dominion Voting Systems\Results Tally and Reporting\Microsoft.Deployment.WindowsInstaller.dll	9aebc76cb8c864593e0419162b2bf40b81bd52b3ff12edac1d032828df83dcfa
Program Files\Dominion Voting Systems\Results Tally and Reporting\Microsoft.Practices.Prism.Mvvm.dll	06f36c88682b48640e1adc2d8320672b210db2c5eb0038eaae7d21b809e1a3ba
Program Files\Dominion Voting Systems\Results Tally and Reporting\Microsoft.Practices.Prism.SharedInterfaces.dll	df38529542a1b34ee6ec2db514e6503cf68c6ec37613f99895d5184d03f455e0
Program Files\Dominion Voting Systems\Results Tally and Reporting\Microsoft.ReportViewer.Common.dll	e3f6d98df27d1877366a374a82dbdfa529405297217624b1309a57339d57d4dd
Program Files\Dominion Voting Systems\Results Tally and Reporting\Microsoft.ReportViewer.DataVisualization.dll	e9ea1b82fd7bc766c723181f1cd01d9ba7dc9754d34c3a5e4cb12601d059b1fc
Program Files\Dominion Voting Systems\Results Tally and Reporting\Microsoft.ReportViewer.ProcessingObjectModel.dll	2e9a2509b5e79c68aec78fe84df95c52ba2d56359b1e24920479bd143410e2a5

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Program Files\Dominion Voting Systems\Results Tally and Reporting\Microsoft.ReportViewer.WinForms.dll	b10ada2d6881eead90dc319f791abd0d5d6f028e3532b7d7641add001afb93c
Program Files\Dominion Voting Systems\Results Tally and Reporting\Microsoft.Web.Administration.dll	5b28ceefb320c6a808cb352385ae4523fbecc676af1cb091ceb1789b3b83aefc
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ NLog.config	c0ff29f881acb80f67c7f5a6cfee091cb9438d7edeb230ac751bbe5b352bc1fe
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ NLog.dll	e17aac589bd48a623857de7f8113bcae6f72e4fe4652ca615ffa1028353b246d
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ nlogError.txt	f60f967a6707017a2ebaa6a469711a2cb004856f8ec132ccd1b5857ac8fef1b3
Program Files\Dominion Voting Systems\Results Tally and Reporting\Renci.SshNet.dll	451ba700ecb5e77bea05160fda3ee6fb706839d831c925279634614d610ab8d9
Program Files\Dominion Voting Systems\Results Tally andReporting\Resources\avalon-framework-cvs-20020806.jar	51ed0ddf5c6cb03f76f250eb22f1b4e5585c0e6242af3a02d5f40ed563af149c
Program Files\Dominion Voting Systems\Results Tally and Reporting\Resources\batik.jar	a8af031e63b8807066f094ab2cd1eae28de6aac92a460705ab44b14b5bb0f07b
Program Files\Dominion Voting Systems\Results Tally and Reporting\Resources\fop.jar	aa97ad1ca47782cfb5cfae2eac3f7153a87056d924b6987ff8d68542865f2b47
Program Files\Dominion Voting Systems\Results Tally and Reporting\System.Data.SQLite.dll	907d947ec9f35e0b49bab8df1d3791117eec2cc45a4ef9687557df0e656d9d08

Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tech.xml	eaad0c4b828b6875f5041bb020ca6db12b64a97f5616a0b820c8013dd14778f2
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 bmp.ftl	7bec71af7be3bcf76f8b34c6d7cc7d87c6c612507cdaa57a97b9fa7637a8724f
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 css.dll	e61ce98925f96cb59bc9f6261f4eed6e7921b1c4dcb7a2fe5b34d61be1324d8
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 doc.dll	b1bae770044c71bbceb1cbbb488bab11cd4b8a3102aab3861aba22042b9424
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 dox.dll	67b19985f4ba96e040c1b0f58ea68e7ae1d8a62814ed0ae9dabb59b11886a03c
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 gif.ftl	f5871adae67e25836272700d3b02cf082fa444f0537420da14ec702ccb80718b
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 htm.dll	0672fc52f7f2172783365f526204e3f1cff0636dc21c65eb70230177b8451c23
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 ic.ini	3754f3454fce6c40f55f7f3cced671d8828e034ab89bc0a450ab3a88b496a2d2
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 jpg.ftl	27644d1a94c5fece37c71da8a21fde52e35b6fd910f3e7fb4a64459f2454ee5d
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 pdf.dll	90110a3b0bc84be25cf23c10d6a2bb63898a357820971ea339f6f6474461761c
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 png.ftl	fe7e0d8d261d15cc438eb4f712d1c27396fef1e11d7b2c09e5fbf672fb147a4a
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 rtf.dll	bcf88d31ea94d43b69a2d79f4b4ce91770ec740a7ff8b8197980004be8cc224f
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 tif.ftl	7eb2f067c31e078cb3416f52a325b83c58b4815720741a3f34d1a80fa93ca2d6
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 wmf.ftl	c479eaf41f32809076e1926bb1ca308cb8c22b08874b3621e9da80e2c45c7ac3
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ tx16 xml.dll	dd3a5458256211dd537a8b0ea7d86648f3b6857d39d853344d7b820bc411c5c7
Program Files\ Dominion Voting Systems \ Results Tally and Reporting \ txic.dll	e8ed7a1e2735c463c856dc7cd1738fc39200137727d295f769aff57aa292683d



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Program Files\Dominion Voting Systems\Results Tally and Reporting\txkernel.dll	1af40648e4dbf252cc179b0d9f482b29ed786493ef5c2135bd079e51f878237b
Program Files\Dominion Voting Systems\Results Tally and Reporting\txpdf.dll	10344d82c1555451953e1bb7dcfbee23714f3c492541ff1eb05517d0a16623a0
Program Files\Dominion Voting Systems\Results Tally and Reporting\TXTextControl.dll	8172aed7c82846bee5328a781c3bdce359cf8b6a6406d85a807dc7302d1f20b0
Program Files\Dominion Voting Systems\Results Tally and Reporting\TXTextControl.Server.dll	fb584b4e7da2bdb79e58af06a2be393a0fedd0b2136d80ffc970a626e66235f7
Program Files\Dominion Voting Systems\Results Tally and Reporting\TXTextControl.Windows.Forms.dll	77610ff1d3e44e259da659271262ce9c2250e5a3224d74fd05e962ecc3c2cb4d
Program Files\Dominion Voting Systems\Results Tally and Reporting\txtools.dll	f8893f9f889d38c81e1e60e19ec1f24366020925419fd5f78d4eb7bfc5578846

### SmartCard Helper Service

Version: 5.5.32.4 64-bit	
Filename	SHA-256 Value
Program Files\Dominion Voting Systems\Smart Card Service\DVS.SmartCardHelperService.exe	50406d2f5ec8f9c36c2a02a618d54016a335feae020b6f5b80ec4207be579070
Program Files\Dominion Voting Systems\Smart Card Service\DVS.SmartCardHelperService.exe.config	5a40aa628c9c0bd9dd5483b89d717636d989970c117bb3240b707aeaeab78f83
Program Files\Dominion Voting Systems\Smart Card Service\DVS.Utilities.DevLogger.dll	49ef6646f9022e24080331cfadc992e8af8eb73515361dff4445c91e71a554b2
Program Files\Dominion Voting Systems\Smart Card Service\DVS.Utilities.SecureLogin.dll	41f2ff654e1484f49b91fabd0310b01f87b3007481ec08c3a0197bd920c09cfd
Program Files\Dominion Voting Systems\Smart Card Service\Log\Trace.log	cdcbddd51d81505c73c65620d10b56957dff508c107621d666e4cbd83deba047
Program Files\Dominion Voting Systems\Smart Card Service\NLog.config	44de83fa30582135c24f7fd2fcf4669a50198397378e06e2fd5bd6cddcce3e0b
Program Files\Dominion Voting Systems\Smart Card Service\NLog.dll	e17aac589bd48a623857de7f8113bcae6f72e4fe4652ca615ffa1028353b246d

### Election Data Service

Version: 5.5.32.4	
Filename	SHA-256 Value
Program Files (x86)\Dominion Voting Systems\Election Data Service\BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fcd2bc08ded5cb71465
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.Common.dll	cc85e6593e7636d52935ded776e42fe68ef07f3c120bb8e12ce07f95cf45f195
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.DemSuite.Services.Common.dll	370bce8cdb93bc5ac2b253f19b5da371121a3f17e9a0758b63beabf4996b36cb
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.EMS.Infrastructure.dll	b17d171c2289fa26ac9983ea920dfd8e9005b9c4f044a3759cc0c7db97362546
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.EMS.Services.Common.dll	e803c7a31d18e64bac81e3a83ecb55ff3d64d505ad7b03fee2299f913b1cf8b
Program Files (x86)\Dominion Voting Systems\Election Data Service\DVS.EMS.Services.ElectionData.Contract.dll	8b0ab5f0ada036fa7a925c8a664f22404eefdc6cc0077467ab5883f62d316914

## SLI Compliance

Program Files (x86)\Dominion Voting Systems\Election Data Service\\DVS.EMS.Services.ElectionData.ElectionDataService.Domain.dll	ffe93d06a31ba0abaf99df4c03bef751aedc431471704124539cef5ecf39d63d
Program Files (x86)\Dominion Voting Systems\Election Data Service\\DVS.EMS.Services.ElectionData.ElectionDataService.exe	555c84ff6bf35897f646d88cc117e00a4df6f2d0dcbf8f50a66ed18936cbc01d
Program Files (x86)\Dominion Voting Systems\Election Data Service\\DVS.EMS.Services.ElectionData.ElectionDataService.exe.config	98a15ba31fde5fa654323c75f831d052f46ae9575071b661972a643ad84de383
Program Files (x86)\Dominion Voting Systems\Election Data Service\\DVS.EMS.Services.ElectionService.Contract.dll	38eb4c6f93f463d19d36531172b41cfe9a5633f14314853d76c184ce553c4532
Program Files (x86)\Dominion Voting Systems\Election Data Service\\DVS.Utilities.Common.dll	d5fa1b91e9e915eaa2a3801bae98166c0fb3dd33353e9fde951b2409104f6b2a
Program Files (x86)\Dominion Voting Systems\Election Data Service\itextsharp.dll	f6576c783a8db98c4a09919ea0a8b8bff70ac1729d3aa2935e07c6e639f25070
Program Files (x86)\Dominion Voting Systems\Election Data Service\\Microsoft.IdentityModel.dll	fd50c4488ab275dd892ca8ed1adb0d125c6c59381b59a1ae5d9f2a299781239b
Program Files (x86)\Dominion Voting Systems\Election Data Service\\Microsoft.Practices.EnterpriseLibrary.Common.dll	cb0153495092cab9bb80803c51b25f00a550deae28b35007c60888dbc1529673
Program Files (x86)\Dominion Voting Systems\Election Data Service\\Microsoft.Practices.EnterpriseLibrary.Data.dll	ab6cfbf4865f164e2fba93d8187293f24927e267ca9960e51b3df63461bdffdb
Program Files (x86)\Dominion Voting Systems\Election Data Service\\Microsoft.Practices.EnterpriseLibrary.Logging.dll	6f785c20eae305a430d1bfc358d8a54b3a218238fd3a444ca29aba1e77108fa8
Program Files (x86)\Dominion Voting Systems\Election Data Service\\Microsoft.Practices.ServiceLocation.dll	2028dba77ffec0fb9f3cf5aba68868d6f706cb2599b1a67d5784d1cc411ccf7
Program Files (x86)\Dominion Voting Systems\Election Data Service\\Microsoft.Practices.Unity.Configuration.dll	d91f9863439bd849889105ecc3182eb1dc14e8e6bcb7aa33b9058b5e837ea271
Program Files (x86)\Dominion Voting Systems\Election Data Service\\Microsoft.Practices.Unity.dll	201655cd2f641ac05e450fb03ce763afbc5e859d6ce1a25ae7fef3c27a2ee39a
Program Files (x86)\Dominion Voting Systems\Election Data Service\\Microsoft.Practices.Unity.Interception.dll	79ec0b9b9752fe63c0c37bc4217c2e7d9ea33016107e3870d5e61889eb8cc3e3
Program Files (x86)\Dominion Voting Systems\Election Data Service\NLog.dll	e17aac589bd48a623857de7f8113bcae6f72e4fe4652ca615ffa1028353b246d

## Election File Manager

<b>Version: 5.5.32.4</b>	
<b>Filename</b>	<b>SHA-256 Value</b>
Program Files (x86)\Dominion Voting Systems\Election File Manager\BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fcd8b2bc08ded5cb71465
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Common.dll	7ccfb7b1b409b50a07ac04a6c6b31c22a76bfe71b2f6532d0bafbe25a5897c9f
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.DemocracySuite.ResultInterfaces.dll	ee3f87f31b4607bbed3a1c5361453b21fca3de70350fe0b7572e7d85b54da628
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.DemocracySuite.ResultsDomain.dll	0e32ff2ebb5e082ab894c7087665a263d16fc10f6a7f894aace68859cb4055df

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Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.DemSuite.Services.Common.dll	186a106e2540e0a9460344678bc7affd273fead2c3741fd5fa90ff91ca2d5911
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.EMS.Infrastructure.dll	7bd39e7940c08514279b1a64c6bdc9403814c7978dbfbfa62acf9564eb44588d
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.EMS.Services.Common.dll	61942a0914e1cde3c6b4574e86ed435ca5c666899d5f20bbfce591ebc52dc3e5
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.EMS.Services.ElectionData.Contract.dll	f5dcf4b91bdd8002b1ce624146537c64b98d640a55096c66dd3b150c4fa113ff
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Tabulation.Domain.dll	d958a068983f8393360ad345043048d3815ff81a497dd53ba5fdaba5166432f3
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Tabulation.IO.dll	28745b1debfa21f05dd0dddbd7a123c0b5c755b052777dd0e0cd6f96f03a49
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Tabulation.Services.ElectionFileManager.Contract.dll	4b4b12b0690356880a4540bdf7aeb13dc9d3223ecfd735e8c7506ca1b4811db6
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Tabulation.Services.ElectionFileManager.exe	c352a6ef2717cb3f1d840ec090788f11c64b95eb9ac0787de182af9846de18ec
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Tabulation.Services.ElectionFileManager.exe.config	05aa7da5e438d96eccdcf6f61e8c6fa4dcc8fc8adde9cad367cae93995cfe0a5
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Utilities.Common.dll	d5fa1b91e9e915eaa2a3801bae98166c0fb3dd33353e9fde951b2409104f6b2a
Program Files (x86)\Dominion Voting Systems\Election File Manager\DVS.Utilities.RemoteInterfaces.dll	b379429abaced02e1bbc199e3ef79984f6e94b43fc655a8228c7dd9ced53a2bc
Program Files (x86)\Dominion Voting Systems\Election File Manager\EntityFramework.dll	ed6ebd749052f9018f6699671ae5469adedf086cf8b1bd4256bbe9c4e7f6ff05
Program Files (x86)\Dominion Voting Systems\Election File Manager\EntityFramework.SqlServer.dll	a1bf6c9e3820e83f43e9f20dd7d9b0a3362a93146f0afe0b1330185e2d51b0cb
Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.IdentityModel.dll	fd50c4488ab275dd892ca8ed1adb0d125c6c59381b59a1ae5d9f2a299781239b
Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.Practices.EnterpriseLibrary.Common.dll	cb0153495092cab9bb80803c51b25f00a550deae28b35007c60888dbc1529673
Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.Practices.EnterpriseLibrary.Logging.dll	6f785c20eae305a430d1bfc358d8a54b3a218238fd3a444ca29aba1e77108fa8
Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.Practices.ServiceLocation.dll	2028dba77ffec0fb9f3cf5aba68868d6f706cb2599b1a67d5784d1cc411ccf7
Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.Practices.Unity.Configuration.dll	d91f9863439bd849889105ecc3182eb1dc14e8e6bcb7aa33b9058b5e837ea271
Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.Practices.Unity.dll	201655cd2f641ac05e450fb03ce763afbc5e859d6ce1a25ae7fef3c27a2ee39a
Program Files (x86)\Dominion Voting Systems\Election File Manager\Microsoft.Practices.Unity.Interception.dll	79ec0b9b9752fe63c0c37bc4217c2e7d9ea33016107e3870d5e61889eb8cc3e3



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## EMS Logger

Version: 5.5.32.4	
Filename	SHA-256 Value
Program Files (x86)\ Dominion Voting Systems\ EMS Logger\ EMSLogger.exe	031f812ea18dc0ddb81ec0512f7c57e47d9e5a29aa33814e7f39a49ff26829af

## EMS Application Server

Version: 5.5.32.4	
Filename	SHA-256 Value
EMSApplicationServer\ AdjElectionProcessor.svc	31d36240c0b0a3c04475f79facbfe6431cc70e0c8495722f8e8243d77486b0c2
EMSApplicationServer\ App Code\ ServiceInitializer.cs	75d7c6f478de40fd1e87c6c222578c95de1de91f7877bb8f97e441df7c08f478
BallotCoordinates.dll	9044db9520a276d57cfc4d6fd59004baabbe820161667a8c4150b2f25f642cdd
BallotCoordinatesManager.dll	74e41318b8a30dff1d3732cd07609e07fd83c1967cdcc1ba1df362b3345ee954
BallotGeneration.dll	702e7d8eac2db77397afdf0ebeb43ff466f5c59491c4348da69e07eabbbf7415
BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fcdcb2bc08ded5cb71465
CoordinateServicePersistanceLayer.dll	f656156bd14daa9a6cd0ae3bb834a974427ec42d71bfb50dea43b4cf8d91b26d
DefModifier.dll	89e4bcbea3a2a643effd3616bf0ae3003052b315cd4b31c3dc20c189b429c3ea
DrawingWorkbench\ CanadaMunicipalStyle.dwf	bce006f73fa6138e5e5a545d05547f2206473cd2eec362caf6bd8852cb56c36f
DrawingWorkbench\ CanadaMunicipalStyle.sha	32907b397f77c41870c751550ff8baf8a5b2f44096e0034c39572cbdd2bb96b2
DrawingWorkbench\ CanadaProvincialStyle.dwf	2164e3575561fba413513d79d555ec92601b83d0e9faa2fd6767213a6924031f
DrawingWorkbench\ CanadaProvincialStyle.sha	c67205e15650fe005097c42796722a67ef1fe3d827ecbbae09de207ced5156e2
DrawingWorkbench\ CanadaVBMStyle.dwf	6bc40ac9b91860f230cb55c989eacdf4ad7a01ff4c58ab946a6a8185ab1ef6a7a
DrawingWorkbench\ CanadaVBMStyle.sha	8bfa79c0860f0353a9d0573ca4d32347e943accc3f9225af32bbe3badecb23e8
DrawingWorkbench\ Census - Census Grid.dwf	d2e5524f708ff35476b19f25fe05cfe7e7dc398f6854e9386a791caeb2cee031
DrawingWorkbench\ Census - Census Grid.sha	12f7fe0af8c263c31fe0478cb7ab51241abd54a16f86c63d0977d18e46fe648d
DrawingWorkbench\ Census - Rank Choice Grid.dwf	b6c273965d353898c7010e458b9e577cfe6c39aeb8af66020a12ee802f76a5db
DrawingWorkbench\ Census - Rank Choice Grid.sha	c2f06f97a5870388c2b01553ae88e06cd5a52d09ff82fa8c9e8d0d8f42e2980d

DrawingWorkbench\ CensusStyle.dwf	d2e5524f708ff35476b19f25fe05cfe7e7dc398f6854e9386a791caeb2cee031
DrawingWorkbench\ CensusStyle.sha	12f7fe0af8c263c31fe0478cb7ab51241abd54a16f86c63d0977d18e46fe648d
DrawingWorkbench\ FloridaStyle.dwf	9ccf1364baf5e12fc4aaf79d4a8613efd772f29108f8a1351a43cb443d3049e9
DrawingWorkbench\ FloridaStyle.sha	18d63895b9ad5bd3b419539b3413eb15b63f2c547cf5aef176abaf7cbb6aa3cb
DrawingWorkbench\ MongoliaStyle.dwf	03b62aac80c49786d1dfe7697b2f7514f49f3655d9eb036bf5b7f918aad828d
DrawingWorkbench\ MongoliaStyle.sha	36fb970c32f822c39506e9f11adb14ccc9e1cccd2487eb615bea3a86847daf
DrawingWorkbench\ NewJersey.dwf	d7fa310d90455717cf9297a0ab9d7d752857c8731fad6807b017146b107bc22f
DrawingWorkbench\ NewJersey.sha	a7f83dc5610909021c467d8b1f0443c505cca6148d2233a49be5ffbb670917ce
DrawingWorkbench\ NewYorkCityGeneral.dwf	d5688faa0934de97049b10e79e6bda485f91da73430ead606aac32d282b88a98
DrawingWorkbench\ NewYorkCityGeneral.sha	b59ba0f9357430dffd9ba2bdcfae09e706d6874ec8821b3d35bd545a33e16c
DrawingWorkbench\ NewYorkGenStyle.dwf	32235663dfd0ef335a5824de896fd6baf0bf74a8dc1d1d59cc9f871120f00229
DrawingWorkbench\ NewYorkGenStyle.sha	b9ad6b5edd0c920273f6c897fab6fab012a40ce7b3490239634635e042a5c095
DrawingWorkbench\ OklahomaStyle.dwf	e975f520033745f57ad136ba3445932d38d49418aa2893bb921a0a03bd6dac7
DrawingWorkbench\ OklahomaStyle.sha	e18d7befe1ae43ccc56c491d8f0431e71376929495a3e9785bed1efe6c794e3
DrawingWorkbench\ PhilipinnesStyle.dwf	e1b85aa8aec37aa543a9826b41395c3374db5e64cf840205b5b1fdaea8ab0083
DrawingWorkbench\ PhilipinnesStyle.sha	ce605290550bcc61ce524f359acf50ae5949f0cfc532fc48711bcd0a543d8a72
DrawingWorkbench\ PuertoRicoGeneralStyle.dwf	9f8f3040b8901771edd308a467c9ded832e3e73f003f042118cfd40e33a9119
DrawingWorkbench\ PuertoRicoGeneralStyle.sha	0c2646238e72eef6126b249f6a15c1e1f59a59a6acbc8327f8089f343b64f99
DrawingWorkbench\ PuertoRicoPrimaryStyle.dwf	0b08f1875f854989a6bb459210cc6489b0ca0e2d0f59178599df2576faf2297
DrawingWorkbench\ PuertoRicoPrimaryStyle.sha	6d62851fe2aa9e36dce2d8bf8f86c38952ecfdbb58dd575af6b7dfefa5f0d463
DrawingWorkbench\ RankChoiceStyle.dwf	2954980995cb20a69657a271a6af85a10fe8c8eb7a9c37fcea6a4ac606da727
DrawingWorkbench\ RankChoiceStyle.sha	ed021add6783891590d90d42e5016572638d4d71982b013aef4fe71974f588fa
DVS.DemocracySuite.APPSCustomAction.CA.dll	aaadb5ec169459e0b8dfd62d10a9bb11beb07a8b523dc71e8978b38f0cb5b02d
DVS.DemocracySuite.APPSCustomAction.dll	2a2faedac264d4c105d91fcfd046a1a2aa5ddedf84ed9fb0735dd6f994ccf928
DVS.DemocracySuite.Audiolibary.dll	fc23c4a2b52a205a3779bd421879fe2a6c5e7e384b215433e300631b1abcbcd8c
DVS.DemocracySuite.BehaviorSettings.dll	3379c13cd61a9c5541cdadff9ca2d1459d23d396c921f82e3a33e98dbd041c1b
DVS.DemocracySuite.ClientCommunicationObject.dll	ec34874acd7c491d5bdf8b679696a56eabe5b9344ee81c4733a99bf5c2563f3f
DVS.DemocracySuite.Common.dll	bcf4b38a55b712e5596618d6141d440e59e2ab3fd175540e06063ca86045f1c1
DVS.DemocracySuite.CommonService.dll	355049cef2a6d9dbc7c61a0c252b8f4f2e7626ea7504c9aae437ea0aa294f84d

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DVS.DemocracySuite.ConfigurationService.dll	257853ab3687a608df43986fc37c6f048aeaf114e9df659f00a4a5fb0537f8eb
DVS.DemocracySuite.CryptoService.dll	6a5f95179dacc8a05beb395236e0d308ad42d20087b88e008401aa5e405f2cbd
DVS.DemocracySuite.DatabaseService.dll	f32446ef26a58efa6b6db6d35eeaeafb41ae202416665e6859462c7a07092e
DVS.DemocracySuite.DCFFiller.dll	3a346ba6c626f6bc92429c7fb64b2754010498530b2da32b72cd77e0daaa86b2
DVS.DemocracySuite.DCFFiller.Serialization.dll	e3d8dbd0dd0c56cd1dfaf9dada54cee2d0bf5c524b97d0bd268d725d9c9cbec6
DVS.DemocracySuite.FedAppsCommon.dll	3afffb1fbcabfe2e4b62bba6e4429296db0704879680104029edf5fc2706dbb2
DVS.DemocracySuite.EMSApplicationServer.dll	8a3c3eb9c2a11f012437cda5409fe50453a1c17bd1cfa2db58981747b11edd78
DVS.DemocracySuite.ExportImport.dll	caeb49838d361a92e109b428e3aea245518d52260c315f877e14ac0ed0a8926d
DVS.DemocracySuite.ExportImport.Formats.dll	88fe717f64f48ccc47ab117da839f2bffb40fa99101def89a4039d6d03a0912
DVS.DemocracySuite.ExportService.BaseExportService.dll	8817bf1c1d385886405f23cbc1afb507dad216421300bafa53c6980c4e79f25b
DVS.DemocracySuite.ExportService.EMLExportService.dll	8597ec9430bfc94faa560f0cf0d130cf632436b4ed01bf3fdba456626dc5418
DVS.DemocracySuite.GenerationService.exe	45c9b63f223be21205195dce0c0d953a7f291f386ec6aa77850a5b914d748da4
DVS.DemocracySuite.GenerationService.exe.config	050920d14a7ec9f342e26f6008fca30d4a4de8fe9a692d0a55ecb4948082ba26
DVS.DemocracySuite.GenericDrawing.dll	19b4916e342173ebdceada4a2fc31df474e4e01c53be8b3eb96ca124267a76a
DVS.DemocracySuite.ImageCastX.dll	dfe2c1287c9b6477f4b29b02621b03bd6777c554f46bd04b3681da1c8766a0d8
DVS.DemocracySuite.IntegrationServices.dll	7fc0a0fabf375e3c4e96b5655216aa72c24cb6148a6c5c50af43d728f121e0f
DVS.DemocracySuite.LibraryCollector.dll	4a4db87f2dde4980fb1f6807f6fbefb1b27c2082ac5067f4290a3e1b8fc39b78
DVS.DemocracySuite.PermissionManager.dll	bae82141bfea41b3ad00ebc1d907f4cada34e3f3272e20b4a8fec4437d3763
DVS.DemocracySuite.RemoteServerProvider.dll	f7e655bbe1bc46fd7e87f8b1dd51a42951f9991987c49c025d5c6d3eb647bcb6
DVS.DemocracySuite.ReportServiceBase.dll	ddd7aa9ed8266e03c930a359a618554fd5deb08b983fd9c16a259b762bddb7
DVS.DemocracySuite.ResultInterfaces.dll	bb942e445f01dffb33ed49ef34e49edb913aaabb6089a9dccb5219a3399cb1f
DVS.DemocracySuite.ResultsBusinessLogic.dll	8c26f547f82f02a21fdacb146115afc759602632f13f537e1c707151ac9b95c
DVS.DemocracySuite.ResultsCommonService.dll	99df97bc61b149fa1890b473b74ef80a9a4aa99626506e8d724a9f2422fe49c6
DVS.DemocracySuite.ResultsDataAccess.dll	7584b604666582863a8fc50b2a5206976ab137f4e62fc09cd64c81c46cca9175
DVS.DemocracySuite.ResultsDomain.dll	90990c5c2aa2324ccbf2a1d9d28a3fdecdd91035d2432c4ffdee99d471fb995
DVS.DemocracySuite.ResultsParsing.dll	8e5e42e76598eb883d54b0e6b309eacfea44bcf1660d0ef8cf2bddbb852cf41f
DVS.DemocracySuite.ResultTally.RcvService.dll	21be74360e1f459b3cf14309d1c752f7dfa866615abde6754dd025529abf8b70
DVS.DemocracySuite.ResultTally.Services.dll	9f5ccb98260e3e29bca137413a86fc7b3c191cc3729eda07f0c188ed2f209d92
DVS.DemocracySuite.ServerSideReports.dll	08cda97e234b8cea8cf34a775d040aae03187288e4705e1ce14fe21d60fa334d
DVS.DemocracySuite.TabulatorGDomain.dll	a088ac3e09b49f3a9897b87f9fcc399d1d4b453a819d9f90557905bed7c3b7a8
DVS.DemocracySuite.USElectionsDomain.BallotGeneration.BallotStyle.dll	b095bf2465f2ba46e8e2e08024ae3b499133463ef207735f690460719c9bd7bf
DVS.DemocracySuite.USElectionsDomain.BallotGeneration.dll	d266567209527080a34676988106ae28ed3b99f1df9770dad90a2c23f0645acb
DVS.DemocracySuite.USElectionsDomain.BallotGeneration.Florida.dll	acdca79eedbb5f29eae00bb2265400e20a70b89075f1899fed060da94e121677
DVS.DemocracySuite.USElectionsDomain.BallotGeneration.NYGeneral.dll	cf0a52bf7ddcc2774008c4cefafc38901463800d0d5cb48b7b70ffcc1275c5d4
DVS.DemocracySuite.USElectionsDomain.BallotGeneration.RankChoice.dll	021c377076830d7f52d5ed84ece2648c96de3090cb06c63e1256afb256af77b5
DVS.DemocracySuite.USElectionsDomain.dll	fd8ca9f5c446279a55397b488d372b489d81b6b82157a9449e0341cbda288231
DVS.DemocracySuite.USElectionsDomain.ElectionFiles.dll	fe16d6487dc6bf86d70c91bc73c5f1c7097b89674100162310f414a7a94816b8
DVS.DemocracySuite.VotingMethods.dll	8acc48537bcbe53c9c750b3c6a2522a39892fe1b9922cb5b5c60497986f9513d
DVS.DemocracySuite.VotingRules.dll	fd85ca314e97e8856ad33964c5f0860ccf401e3e418ebfaa6190123c0d7baf67
DVS.ElectionEvent.BallotRenderer.dll	32d7761021bbf707fe684ec5c7c4cc710f53ce5d0b63bc8987aa803886cbc648
DVS.ElectionEvent.BallotRendererSupport.dll	d6ee320421bd5dece9aba97bc1b0c75a3e35cab356eebb6e7656fc0718d9860c
DVS.ElectionEvent.Layouting.dll	877e4ca2baff924bd678ba7cfd9fc83e8484f8c53c5cb3a031fea2d24fb0e30c
DVS.ElectionEvent.RtfInterpreter.dll	3c4318582fa22f2cb70e3a93cac5aaaf3f616a0f4fa5475f073819df43faf1a6
DVS.ElectionEvent.SVG.dll	101cc5e1f04009d5a4b9f330b52c242032e17ba90b2a913353a2f2bf700f01ea
DVS.EMS.Services.ElectionService.BusinessLayer.dll	22b6fcc7c07c4f59c2de4dc634f7268f26f937117a7437a8bffc93352e82bf8
DVS.EMS.Services.ElectionService.Contract.dll	b95cc0a4a88667f2882fb686d92f61a3a75d59adba99a80e426f8da67b0b2f7
DVS.EMS.Services.ElectionService.PersistenceLayer.dll	c26527b0acbb5bf3204f3d7747704955192393e52aa4ce3c625900d394295dc4
DVS.Framework.Commands.dll	cdccc83e317ce88ad44470dffa4e4c77b2ecdcd924117663954b0358359c7eac
DVS.Framework.DbMaker.dll	de8ea3d1359f53cf47a5396ca94d6771aca9ae9e6cdfa7a7185289490e7a65e
DVS.Framework.Domains.Logging.dll	0d2e63331877955eebc06811d5accb371cb342a4b0cf5fc924b2713c581fbe71
DVS.Framework.Domains.Parametrization.dll	9e730aacb31de5f3e82ea74525a5d2e3fa0dda1d0d75d2f47e6b2843fa606ae3
DVS.Framework.Domains.PermissionManagement.dll	92c7960571d3f242984b69205ab64c3d67481af523e8ea7ec3b87654cbbd1fd4
DVS.Framework.Domains.SystemVariables.dll	ec01a7ce1b1e7641791ace29dfb2cc13bdbffc7b3521b21fcf8bd30433831ddc
DVS.Framework.GUIConfiguration.dll	91b85fa83175b6919245520895cf0e006f4ea3450cb915ba2576d292a3c0d4f0
DVS.Framework.GUICore.dll	d1226bb58d3d6d98753edd76263ed6bf4bfe83d570e9661e198d5ebf86dd0e6a
DVS.Framework.MemoryCore.dll	44bfd9d5dfcc671781874fc85ec000802a7bc648af2d9e535e8340c45b8ff64
DVS.Framework.RemotingAdo.dll	5f2a9b557970248a0949f4681deb0e362367d1f3a6121d91608d620eeff0882e



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DVS.Framework.RemotingAdoExe.exe	10b79e84d083dafee839d098a3a628d1c073237e322be0d27c547d50ec47d672
DVS.Framework.ResourceTranslator.dll	08ed8a5ca35a922a21f8b8cff84630531961ff2d881d962d74e0c21c1ff84db8
DVS.Framework.Serializer.dll	2d53bd1ebbb65c1dae4b9e98088365a4b421e2180bb7edf73200c4751d809da9
DVS.Framework.Utilities.DbModificationFilter.exe	32b3e201399e97f22cf13452ac6b941aa064d9f4a12584f7eb7ba627a45666eb
DVS.SmartCardManager.dll	79d2afa7c9ae514bc444f0ec1575c95873fc685216a5030f4c71e1d5da6ffce2
DVS.Utilities.AudioConverters.dll	7fc6a5c8468b684a5c74242853b073e6d4f9a8dec8b219a1f61509b431440c50
DVS.Utilities.BinaryFileAccess2007.dll	7369f99f045888658cfad09eb88002d0fccdf80308846b9f827f19103664dfc2
DVS.Utilities.Common.dll	d5fa1b91e9e915eaa2a3801bae98166c0fb3dd33353e9fde951b2409104f6b2a
DVS.Utilities.FileSystemServiceFacade.dll	5d0048bd3ec7e386ff579d93f09770aeb572754f001cb7c87a2b69c722981f9
DVS.Utilities.MSWinManager.dll	4ffb1e0407fdcf32ad324e8a621d765793a427bdf021e6357ff093e49d048b53
DVS.Utilities.PdfConverter.exe	f261cffe0be8e7a5687d8eeb3aba99f1c9de7591768094f7a38fce2eee6c65ff
DVS.Utilities.PdfConverter.exe.config	f4988d39842ba14286723fafaf34d0386c4346c7b1b057ac415356c9e26d6a2d
DVS.Utilities.RemoteCache.dll	7f41b308777207f949ab40c6e5a110affb487f8660fbc4d0e06240a49199126
DVS.Utilities.RemoteCacheProxy.dll	a126388cb4f337db8cc3753337245872a873eda4b2712e8333c4694ee0842b02
DVS.Utilities.RemoteInterfaces.dll	b379429abaced02e1bbc199e3ef79984f6e94b43f655a8228c7dd9ced53a2bc
DVS.Utilities.UsbFileSystem.dll	48552d0640d88b668f66fdb114c11fa35499ba163e9b65f714c63b1d3b9f837
DVS.UtilitiesFullFrameworkWrapper.dll	185a0b6c5552c49d1a97ac04c39cd62d4161ddd4ab3c8870500bd5c0faf82ebb
ElectionFilesGeneration.dll	aab24c796a92c6b9cc2f97994f39909f8aeef59fe1f13ad3d2c49d9dd7768036
EMSApplicationServerManager.exe	5f1c8ae92f748727fa6baecb1688e7ff998dbaff2a4ebcc742f84d108d1fd37b
EMSApplicationServerManager.exe.config	b83ddb07892129a38dda10ceef69b8161f33b1cadab2a1cedff8e26f1c2cb6f
EMSApplicationServerManager.XmlSerializers.dll	672572295fe8163e541325e814320524a4a9c8ed394ec59457ffa0df26bd5ad9
EmsBallotGeneration.dll	b585355f7b4c45b5fa650049cf57a8555ec2e0bfc9c87a5a0fe7523da9a0852f
EntityFramework.dll	ed6ebd749052f9018f6699671ae5469adedf086cf8b1bd4256bbe9c4e7f6ff05
EntityFramework.SqlServer.dll	a1bf6c9e3820e83f43e9f20dd7d9b0a3362a93146f0afe0b1330185e2d51b0cb
EntityFrameworkUtil.dll	07fef8c019ff423a33997504e67712f895a30b29922631c9609efb4c364656de
en-US\ DVS.ElectionEvent.BallotRendererSupport.resources.dll	ed73f51170e762772405fb12af7db6dbecb7725af76f562280d83419ea0c9b78
gsdll32.dll	c8c7cbcd1485e71e1fb2d01bcb1ef1ddf15d3e729d1947b30abf2ba41ee7c58c
Infragistics2.Shared.v11.1.dll	43d6d97cef01feb0187608a3b10296f9e57301f344c3cccd4c0f6959de59a4c7
Infragistics2.Win.UltraWinTabControl.v11.1.dll	944d9958f8a86d1ea682275aafca2c5719edaf9dab51ede3cf062c745e8c596a
Infragistics2.Win.v11.1.dll	7550da2b0699879ad0552777d6cc3499969eae9ba3e76ca4518d73dc82b41207
InfragisticsWPF4.Controls.Editors.XamColorPicker.v12.1.dll	751645399f3e60df0c89c0aeb7028ed4a0a4eccbf5f6a8edb40c69a24d4ab34
InfragisticsWPF4.Controls.Editors.XamComboEditor.v12.1.dll	e51d61487ea90ab3547e2d396c248ee1ac1b9923cc016488f6694a359abff80c
InfragisticsWPF4.Controls.Editors.XamSlider.v12.1.dll	71848e74fa3c3708d740921a69e11753dc1faa672bd7fb98b1c78eae5a0ee956
InfragisticsWPF4.DataManager.v12.1.dll	49ef3da0db6e257fe9f8244ba6431c67df3fac5df80459538e4815c7989e9627
infragisticswpf4.editors.v12.1.dll	6eaf86848c240faea4f5bd4c15388ce31ac23e085a14c52540fb1b131df70c16
InfragisticsWPF4.v12.1.dll	e6d7c6e94d4bc62b5ebea0d887196b0e4d0bca5d978914325d9dac00a6f7fddb
itextsharp.dll	beb5c25eb5f659cbb2574f3eadda35c5b18e860558daac4533b4ed98e29bd55
Microsoft.Deployment.WindowsInstaller.dll	9aebc76cb8c864593e0419162b2bf40b81bd52b3ff12edac1d032828df83dcfa
Microsoft.Web.Administration.dll	5b28ceefb320c6a808cb352385ae4523fbec676af1cb091ceb1789b3b83aeafc
NLog.config	757a311b652b2eab347d220dba290d80081a015b584d18d8f6cb8d2f94308a1d
NLog.dll	e17aac589bd48a623857de7f8113bcae6f72e4fe4652ca615ffa1028353b246d
OneWireAPI.NET.dll	e0e95a3b2fe54ee9dc7c907124d8b564aa0781b163d0d091147f59a3008e7673
PdfConvertLib.dll	83041f00842bae9cce9ed065cd603cce216e4fd4d1895bf1451141209d14ec3d

PdfToImageConverter.exe	84dff156f665837160378a197b81462fcd496a1e062ad95b61635a8a15b48bd7
Renci.SshNet.dll	451ba700ecb5e77bea05160fda3ee6fb706839d831c925279634614d610ab8d9
Resources\ Arial.xml	8a4a0ff9c4f9eb2cc198a2e4f096631d383b2a7126df8b6036e2c1ce42650c54
Resources\ ArialBold.xml	2a2cf9e764699a6189777b084601da22e109d84d24071a7ea4821059ea287b7c
Resources\ avalon-framework-cvs-20020806.jar	51ed0ddf5c6cb03f76f250eb22f1b4e5585c0e6242af3a02d5f40ed563af149c
Resources\ batik.jar	a8af031e63b8807066f094ab2cd1eae28de6aac92a460705ab44b14b5bb0f07b
Resources\ fop.jar	aa97ad1ca47782cfb5cfae2eac3f7153a87056d924b6987ff8d68542865f2b47
Resources\ fopcfg.xml	4d55239b7df47170d1bb4f3a7e878a94a2afa149cbe8d613ca160d2f94308a1d
Resources\ lame.exe	af62aa829df07d8b8729b8ebc9a5c4bb30c9a7add248a25e0861e50e50ec9904
Resources\ libgomp-1.dll	287804ff69730b3f5830fb488ea7640fdd52a27250275aca1052adfff37c825c
Resources\ oggdec.exe	b0240ed9dbac149f3f5500331f64e875aa4945f6a8490cef0d8b208955ca7c8
Resources\ oggenc2.exe	ba60d33c845a416eacd78936202b0808c4f14c83dc79976f6766194c06bb91b1
Resources\ pthreadgc2.dll	cf14602bb18e7670ea6dc89e577d473b9d65b98f926c998aa04614d671adf98e
Resources\ ResultData.dtsx	65d2d844557c48cd9016b334d9097d832295d08cdea878ef2f8591ab6d355c3a
Resources\ sox.exe	9bf1ed9cfce4092a1b14c442acdb0ea59d3bc1eef32e209e577daf1c23a1ce08
Resources\ speexdec.exe	9b935d21d2b9e7fb1394cc3cab13af3d562105237535f08764137dfbb686038

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Resources\ speexenc.exe	2f464a7ddfd7a2679797e930a0b367a92ff358fab6ddb2383241d2b291dd0fc5
Resources\ StaticData.dtsx	97fa48674a8260b368cf0370353c51a40c9c99c7e0bf7a7e8a62cd1f411e7812
Resources\ zlib1.dll	2ff8a0abf822e350a229dd3be5f2a0f18fa0d62b588c589c6c47d8c593cf14c
Rotations.dll	e15477bc6dc558a7cedfa123d8916d09573b37b9caa37df52482794246b151c8
RtfCompatibility.dll	0fcc394632a62deb51c115b9a3d5b52413aad7df12eab63e7304e69bb18eec21
RTFReader.dll	a75c29d6679ef6b2b92126540a24a4ef0ca3f2352d25a939da14faac5e7aa260
SynergyCommon.dll	029545abad3661d63c793f2e230f4133031e30d5c5f39390c4ca1318b5d8f434
SynergyService.dll	2f05a0abdc1d40db11dbf82b8c78b935728d8c880310a19ff61b74201f681a70
System.Data.SQLite.dll	907d947ec9f35e0b49bab8df1d3791117eec2cc45a4ef9687557df0e656d9d08
System.Data.SQLite.EF6.dll	d3616b5ccd18a1d0786da1e363d012eee73c209a264462de1700fba59f9062cd
System.Data.SQLite.Linq.dll	345638f2da02a4241ca35daced93738a556f399584dd0b1ad9fbbd5def955cae
System.Windows.Interactivity.dll	93fbc59e4880afc9f136c3ac0976ada7f3faa7cacedce5c824b337cbca9d2ebf
TextDocumentCommon.dll	3373ef634250c049e81fd7a4d30ca1ecb36ba8f3334fb3d4cf735bb6d69eb3ca
TextGraphicalEditorCore.dll	c9b471d494734d12e79c4ca21240ea0af350415874bba25468a42c930962071f
TextualContent.dll	603c7e0d1edece056ea35564cc418905d9573b75e3c186a1486749c5944059a2
tx16 bmp.ftl	7bec71af7be3bcf76f8b34c6d7cc7d87c6c612507cdaa57a97b9fa7637a8724f
tx16 css.dll	e61ce98925f96cb59bc9f6261f4eed6e7921b1c4dcb7a2fe5b34d61be1324d8
tx16 doc.dll	b1bae7700444c71bbceb1cbbb488bab11cd4b8a3102aab3861aba22042b9424
tx16 dox.dll	67b19985f4ba96e040c1b0f58ea68e7ae1d8a62814ed0ae9dabb59b11886a03c
tx16 gif.ftl	f5871adae67e25836272700d3b02cf082fa444f0537420da14ec702ccb80718b
tx16 htm.dll	0672fc52f7f2172783365f526204e3f1cff0636dc21c65eb70230177b8451c23
tx16 ic.ini	3754f3454fce6c40f55f7f3cced671d8828e034ab89bc0a450ab3a88b496a2d2
tx16 jpg.ftl	27644d1a94c5fece37c71da8a21fde52e35b6fd910f3e7fb4a64459f2454ee5d
tx16 pdf.dll	90110a3b0bc84be25cf23c10d6a2bb63898a357820971ea339f6f6474461761c
tx16 png.ftl	fe7e0d8d261d15cc438eb4f712d1c27396fef1e11d7b2c09e5fb672fb147a4a
tx16 rtf.dll	bcf88d31ea94d43b69a2d79f4b4ce91770ec740a7ff8b8197980004be8cc224f
tx16 tif.ftl	7eb2f067c31e078cb3416f52a325b83c58b4815720741a3f34d1a80fa93ca2d6

tx16 wmf.ftl	c479eaf41f32809076e1926bb1ca308cb8c22b08874b3621e9da80e2c45c7ac3
tx16 xml.dll	dd3a5458256211dd537a8b0ea7d86648f3b6857d39d853344d7b820bc411c5c7
txic.dll	e8ed7a1e2735c463c856dc7cd1738fc39200137727d295f769aff57aa292683d
txkernel.dll	1af40648e4dbf252cc179b0d9f482b29ed786493ef5c2135bd079e51f878237b
txpdf.dll	10344d82c1555451953e1bb7dcfbee23714f3c492541ff1eb05517d0a16623a0
TXTextControl.dll	8172aed7c82846bee5328a781c3bdce359cf8b6a6406d85a807dc7302d1f20b0
TXTextControl.Server.dll	fb584b4e7da2bdb79e58af06a2be393a0fedd0b2136d80fc970a626e66235f7
TXTextControl.Windows.Forms.dll	77610ff1d3e44e259da659271262ce9c2250e5a3224d74fd05e962ecc3c2cb4d
txtools.dll	f8893f9f889d38c81e1e60e19ec1f24366020925419fd5f78d4eb7bfc5578846
USElectionsDomain.dll	23014ec26bf2021a6ff79838df508f904066d31337ccbb3b42318a6352869ad8
vjsjbc.dll	9d18f7b502727209aa6acc5830f9b24f16e61584fa695425b40520e26ffa59a9
vjsnativ.dll	934d4ca23671d245d4fbc433e726bb7bb38a4258e1a6ff4681a7aaea244bbd1a
vjssupulib.dll	d8fd2643d2d19301aa83c4baa3e7062795e36344307429baa63c2fd92d37c10b
EMSApplicationServer\ ConditionalVotingService.svc	53ac76ae12126e8d8f35a882a1245deb148a3a88e9e88b11371755797023dbd
EMSApplicationServer\ ConfigManagementService.svc	8b75f8cbac71dfb82b43e7d3974a9748fad1c77b7cd15cc278fcac5daf9d215d
EMSApplicationServer\ CoordinateService.svc	34ce83dc4a69ed563dfff4752154ac85f53cdc8eec3a9426f78d957e403cfa6
EMSApplicationServer\ CvrService.svc	34a5f3d2d0d34250f8f8c8cc76754004afafcd52e0cd1d01f700c3b249979293
EMSApplicationServer\ DataTransferService.svc	e71cb8acce4442db5f010d208e3efa1ffa60487c3612223ed7d69025c53940d2
EMSApplicationServer\ EmsAppsService.svc	0e120cc252a3c7e1511772076b51421030c368dc2e1a685f32d020e3c241761c
EMSApplicationServer\ EPSWebService.asmx	671351bbc814cfc0c1f55bf3ec14da05b3d0522860812a7d10ec1b8167e178a
EMSApplicationServer\ FileService.svc	d1a5328e11ba7659435cf19e07b36b27444087cd2d4696b8224e260aa843ccfe
EMSApplicationServer\ Global.asax	03323109dac6bec4ea7350a066a80b211cb61faacf855302a7521310f973b01
EMSApplicationServer\ icons\ ems bak icon.ico	ee70bdf1807a989946699c31e58b0157416ae63cd316e2519f4f0f4f6524c024
EMSApplicationServer\ icons\ ems dat icon.ico	9ca6f7b3874644db89a22da89f7d47f2692df8adbd8e3dc324024fd31284b01b
EMSApplicationServer\ icons\ ems dcf icon.ico	f31dec8dd972051e7b76eba533093290cf2dad91d1c0aa741ba44e7462c91b
EMSApplicationServer\ icons\ ems dvd icon.ico	ea71ce2027de6f725c3cd61c8353a7e8910bee8e2077e270d2d52bb9ce780fc
EMSApplicationServer\ icons\ ems dwf icon.ico	80364f7a52360f8bf35dbdd4afea7c54e567fb65a9722ac3463bbc91035ba7e
EMSApplicationServer\ icons\ ems enc icon.ico	a786031b15914791464544c99f98be38a2b55b4c721a9957c7af064a51689145
EMSApplicationServer\ icons\ ems mbs icon.ico	6a0fc15f2607536f2a4665e39cece380a82d651b4cbb687fb830dbf8d8e6d81
EMSApplicationServer\ icons\ ems sha icon.ico	04fe973b35ebc75b163ce3d4500c07a2811d91050d58b6120b57be966f64b3fc
EMSApplicationServer\ icons\ ems spx icon.ico	89914d2a5a5a1108dab03f0d0e5cdaa4c78f6a41773e83160c9994f6bb34bd42
EMSApplicationServer\ Log\ Error.log	0d667f552a9fc53ef971dbdeddd1c3d71fd2179813cb3a799194de37e831db0
EMSApplicationServer\ Log\ Warn.log	0622946fe1c7c1eb1bca98310efc1cbff6b15cac8bc33a014f0d109a0a07520c



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EMSApplicationServer\ NLog.config	b7f996d3998c47b6f32e41282a33cf33450bc12a819f62e47aa539f1279f2e8d
EMSApplicationServer\ ProjectManagement.svc	68677edbfca50779f9c3b5320a6d2178317051cf747c348deacf7ccdd020ad
EMSApplicationServer\ RcvService.svc	94eaad314b3b376331d64b6d24b97c20dd9faa5c4847258de6b1e541874c325c
EMSApplicationServer\ Readme.txt	4d43fd0fa1dbfec8122d1288e9c13a13ad50c814e96f919d60a512c306be85d
EMSApplicationServer\ Reports\ BallotStyleTroubleshootingRPT.rdl	13938d9d98e57b4cfab141fed200c1b8d98c112c2b6c91e9fd2c61da5e5ecfd0
EMSApplicationServer\ Reports\ CandidateResultsRPT.rdl	8daee978e4ab3f4bfeefd143105e2830b8f0af18875275f5bbd8a9526bea0ea8
EMSApplicationServer\ Reports\ CardsCastReportRPT.rdl	50d90dfbfbdd2af871232d79eb50370e449f9a9602b9d50b12cc5f30105c9b6d
EMSApplicationServer\ Reports\ CardsPerBallotType.rdl	9a1ed61661b5770156ec2c59cd607e94579696ae794ac2cba95c8e5eff614afb
EMSApplicationServer\ Reports\ CardsPerBallotTypeAndPortion.rdl	cad0cd8ad5ab55ef74e251e4d76cafcdffa116afa6d2702339fbf5861a4c9aa6
EMSApplicationServer\ Reports\ CardsPerBallotTypeAndPrecinct.rdl	f58dfe6206d3fd1bbe171f85aa74d83ce5c6f0269abc792350477ab7b351ea0a

EMSApplicationServer\ Reports\ Conditional.rdl	194c806cc7b49128b0c06698b4334a5666e07a66e6de81c6d320a8ca3393a311
EMSApplicationServer\ Reports\ ContestStatisticsRPT.rdl	2fd730dd1ea6159126ac6752635717e83420ddea1d17afd6ab0bc97415062e45
EMSApplicationServer\ Reports\ ElectionSummaryReportRPT.rdl	12d62e221cafd4d85f6082d6c5f4048c0bfa89f101d7a3499926cce268ec8f75
EMSApplicationServer\ Reports\ ElectionSummarySubReportRPT.rdl	0ed5f7bc40be3c4e262870e18524e7abda86e9a3694199532db869b2909179e9
EMSApplicationServer\ Reports\ PairReport.rdl	06e26fc2a9db590c0d62767a1e7bedc04b4cb6eb3b9b48b3c430e18e122f5f14
EMSApplicationServer\ Reports\ RcvDetailedReport.rdl	ff056472619c214fabebb8301763f2f4fab9a2a0cd9addab6044c248e9f342ed
EMSApplicationServer\ Reports\ RcvShortReport.rdl	632a3dc4294590a2691f5d41bc1733370b6cfff94260ef8e46e64f8e4678c045d
EMSApplicationServer\ Reports\ RcvStaticData.rdl	9468e33d6c779db6e16c9531d48774ca06993d77a9070f8d2658178569a2825b
EMSApplicationServer\ Reports\ RegistrationAndTurnout.rdl	874ec11bb27b370c48a45d2af3bbb7ca4d3c6194b77ce9c969cd9a31c4c7b2c
EMSApplicationServer\ Reports\ ResolvedWriteinResults.rdl	9a069e6ffbd1ed9cef741e91831431d8e6d2d7e83f8a7a31a0d1219f9b850f61
EMSApplicationServer\ Reports\ SovcVotesSectionRPT.rdl	180e6d34eeb0a125439133b5a43d3c73a62a91a1f7a63d0c10f05fbfbf84eb80
EMSApplicationServer\ Reports\ StatementOfVotesCastRPT.rdl	dcf2d38b2bd29b5e19bc09a6a3655297dfe241c007021ff4a9a6bd0d0fec477
EMSApplicationServer\ Reports\ Title.rdl	5b325910b1bdc6cf0a7661b81e32228af64429c59c3454b4ac1977a9b6fdd403
EMSApplicationServer\ ReportService.svc	d18b66270fe27bc413dc08725d13bc6915c3a8bb006eb359138a086f2bdc603e
EMSApplicationServer\ Results.svc	fd8be8722076447f88c30256fd94158689378dc3e46793e68b7b31c813fbb17
EMSApplicationServer\ RtrService.svc	88d96cb840d4fa96cee85f75a199ea15e226372a02b1485d242fecb2528b6088
EMSApplicationServer\ Security\ libeay32.dll	d11e92f738e6f1ac5b8ba1393d2ae3378ba55757822a856da3a9cba9fe124723
EMSApplicationServer\ Security\ openssl.cfg	06baa8f15992bacd3e5b113cd571d828c0544d0482cc2e15969fe819957271d
EMSApplicationServer\ Security\ openssl.exe	2634dd8cb1438d50dedb034ae6fff3fb1282dde84696f927b53b05b02f6484ca
EMSApplicationServer\ Security\ sslseay32.dll	28f2fe4d27b694023255f8dbfa6e30ff81d3155c12bd0060e30bd7c39e4ea19f
EMSApplicationServer\ SosMappingManagement.svc	7cf76975c537bda90459b279ff7629882066b6398624bf38adff847fe69722bd
EMSApplicationServer\ SynergyService.svc	0bb4264da7562c6577222e92c976c3af76a2de8dfddae8729b0494a0a5aeff9
EMSApplicationServer\ tech.xml	43dc2858d66aa3715eb099fde00643e9a9d278a9ea7ca18749b4871425827be3
EMSApplicationServer\ Web.config	5e0e80188a1a0a8b517b90816aaf1634999c5e58ed88a12972466675fc1680d8

EMS Service

Version: 5.5.32.4	
Filename	SHA-256 Value
VirtualDirectories\ EMSService\ bin\ BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fcd82bc08ded5cb71465
VirtualDirectories\ EMSService\ bin\ DVS.Utilities.Common.dll	b325fdb47ec3b2725e2cdb087d89beea1c300f4f710566bb846332d3f3935524
VirtualDirectories\ EMSService\ bin\ DVS.Utilities.MSWinManager.dll	f860d3efdf1b97c7d8d612fd2e27fc1e2bb53689ed5b41c141f469618ea832a0
VirtualDirectories\ EMSService\ bin\ EMSBusinessProcess.dll	96401d3160563ca36520bfd60784727653e4c3085c6b1f36239fcb81d66c0121
VirtualDirectories\ EMSService\ bin\ EMSDataRepository.dll	b23022ed1e229a6f2ebff3158b4a4e026ef8b176639af1b03112ae1d13d41e0d
VirtualDirectories\ EMSService\ bin\ EMSServiceFacade.dll	2c2405156c925fd6ca3e1d0cf73bc679bc98d0f5286c4b215885b203818cb358
VirtualDirectories\ EMSService\ bin\ EMSSvcCustomAction.CA.dll	57515f9925d7c6960164560400ef6356494794bfe4f15ec317792e5559d6dc68
VirtualDirectories\ EMSService\ bin\ EMSSvcCustomAction.dll	0d5f3b51203f546dd7c19a887cd82b34363523ed5620315f501916faa7618eb6
VirtualDirectories\ EMSService\ bin\ EMSSvcManager.exe	50ca073340daf5ea616ffbddb17a0eb74d9cd63d86be1164f455d8c5e86bc383
VirtualDirectories\ EMSService\ bin\ EMSSvcManager.exe.config	8202310b15586d1e5d43e18740528e0b1056812996c3ed366019273480e24989

VirtualDirectories\ EMSService\ bin\ EntityFramework.dll	ed6ebd749052f9018f6699671ae5469adedf086cf8b1bd4256bbe9c4e76ff05
VirtualDirectories\ EMSService\ bin\ EntityFramework.SqlServer.dll	a1bf6c9e3820e83f43e9f20dd7d9b0a3362a93146f0afe0b1330185e2d51b0cb
VirtualDirectories\ EMSService\ bin\ itextsharp.dll	beb5c25eb5f659cbb2574f3eaddda35c5b18e860558daac4533b4ed98e29bd55
VirtualDirectories\ EMSService\ bin\ Microsoft.Deployment.WindowsInstaller.dll	9aebc76cb8c864593e0419162b2bf40b81bd52b3ff12edac1d032828df83dcfa
VirtualDirectories\ EMSService\ bin\ Microsoft.Web.Administration.dll	5b28ceefb320c6a808cb352385ae4523f8e6c676af1cb091ceb1789b3b83aefc
VirtualDirectories\ EMSService\ bin\ NLog.dll	e17aac589bd48a623857de7f8113bcae6f72e4fe4652ca615ffa1028353b246d
VirtualDirectories\ EMSService\ bin\ Renci.SshNet.dll	451ba700ecb5e77bea05160fda3ee6fb706839d831c925279634614d610ab8d9
VirtualDirectories\ EMSService\ bin\ System.Web.dll	860c6af4914f031f01dd9e2fb37026733af031e82ac43c6ed2ef00b52ccd4cd0
VirtualDirectories\ EMSService\ EMSService.svc	76d2a05b2d19214d9ec0389406de7661a46eacdf480adf0038471a1ea5732e05



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VirtualDirectories\EMSService\NLog.config	130342f5a2d1ac0153056b118bf3e3f6370c4ca7370565782e49b84204d6d95f
VirtualDirectories\EMSService\web.config	1b29212bb18da144c5760b61a9124ce9cb0304fab6c917a45b645434fa1fc257

### EMS File System Service

Version: 5.5.32.4 32-bit	
Filename	SHA-256 Value
Program Files (x86)\Dominion Voting Systems\File System Service\BitMiracle.LibTiff.NET.dll	f752a459a1eb5d35c597ff26437a75cc9aff7a5ca1d4fdb2bc08ded5cb71465
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.BinaryFileAccess2007.dll	0b4ac965c5e6ebfb50c1d048ea6d8495f282d721588260be7202372349bd69f3
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.Common.dll	74a63eb1d4802a541fba87d81156bd883f03eaa37324b2478b8b21734162d7df
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.FileSystemService.exe	31fdaa78195ead39a18346f07b47054dab113b2a2e515eba4703df76d5fa7d82
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.FileSystemService.exe.config	f55c5126aeefaf4d3df8a2c372bf849e90779198e02fe6e3ab8d228950b5fee1
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.MSWinManager.dll	604e9d6d334dfe102085efb422e33e4f408b7b3610665485ee45ad5a5a89d110
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.RemoteInterfaces.dll	8793db0a0539383ea5d09680ea15ed2c6fe2b4710072129f647ac7e41443e8d3
Program Files (x86)\Dominion Voting Systems\File System Service\DVS.Utilities.UsbFileSystem.dll	c7cc73eb9ea7566bcb22c4eb1119366fd34c22033276b43e01e5b71203d2206d0
Program Files (x86)\Dominion Voting Systems\File System Service\EMSFSSCustomAction.CA.dll	e571ca8afcd92f14b49f70e816a7fd0ec427a8d6ebcdc120fc6de0f12b98497c
Program Files (x86)\Dominion Voting Systems\File System Service\EMSFSSCustomAction.dll	19dc28faff20c6999af6c4bc0d987c2e087c5ded10545d11115b42ec2a76c0b6
Program Files (x86)\Dominion Voting Systems\File System Service\itextsharp.dll	beb5c25eb5f659cbb2574f3eaddda35c5b18e860558daac4533b4ed98e29bd55
Program Files (x86)\Dominion Voting Systems\File System Service\Log\Error.log	935fa21033735ad183aba3845b45105ccea03f5b3436d00ef4d1a302db71c238
Program Files (x86)\Dominion Voting Systems\File System Service\Log\Info.log	f5b7407d443d1c2e7a4282b2f4cf93fa9acda38c19930b08dc404be2a45ce867
Program Files (x86)\Dominion Voting Systems\File System Service\Log\Trace.log	e520a1bb61d55112c50d11c866d6616705ca022956f0b85ae67fa965a88c56aa
Program Files (x86)\Dominion Voting Systems\File System Service\Microsoft.Deployment.WindowsInstaller.dll	9aebc76cb8c864593e0419162b2bf40b81bd52b3ff12edac1d032828df83dcfa
Program Files (x86)\Dominion Voting Systems\File System Service\Microsoft.Web.Administration.dll	5b28ceefb320c6a808cb352385ae4523fbec676af1cb091ceb1789b3b83aefc
Program Files (x86)\Dominion Voting Systems\File System Service\NLog.config	e50f1d10b846dbecdd44ddba2f54a858e38427858cb1d0038a63a0a4b4c9bdd28
Program Files (x86)\Dominion Voting Systems\File System Service\NLog.dll	e17aac589bd48a623857de7f8113bcae6f72e4fe4652ca615ffa1028353b246d
Program Files (x86)\Dominion Voting Systems\File System Service\nlogError.txt	1c3ca32f1ec3c92572309b6f4ea5270e8290b34ffdbcd83b811a2eaa3b94d1b7
Program Files (x86)\Dominion Voting Systems\File System Service\Renci.SshNet.dll	451ba700ecb5e77bea05160fda3ee6fb706839d831c925279634614d610ab8d9

# SLI Compliance

ICC

Version: 5.5.32.5	
Filename	SHA-256 Value
Program Files (x86)\Dominion Voting Systems\ImageCast Central\bin\ImageCast Central.exe	5c321804357d587dc954fe155f3ee8a058e51788e77173d21107dcbfd33e8def
Program Files (x86)\Dominion Voting Systems\ImageCast Central\bin\libeay32.dll	d11e92f738e6f1ac5b8ba1393d2ae3378ba55757822a856da3a9cba9fe124723
Program Files (x86)\Dominion Voting Systems\ImageCast Central\bin\Log\1 1 1 0 slog.txt	27631b6b7b566e50cabdf8056f74f6c284f8c702e1f03d4a7d99345da638bb0d
Program Files (x86)\Dominion Voting Systems\ImageCast Central\bin\Log\1 1 3 0 slog.txt	c6c0ab88e81bf7fb0c36be41f161aed345535a59d82178ef5044c4108dd8593f
Program Files (x86)\Dominion Voting Systems\ImageCast Central\bin\Log\1 2 1930 0 slog.txt	9acce20399313a1136cf00962990c72252fa91e1ca709098c58ca3fa2c05366e
Program Files (x86)\Dominion Voting Systems\ImageCast Central\bin\Log\1 333333 100001 0 slog.txt	89b0a005f16022fbd9152e1bf57e877dca19c87ce49948f54b6a055d013f1d
Program Files (x86)\Dominion Voting Systems\ImageCast Central\bin\ssleay32.dll	28f2fe4d27b694023255f8dbfa6e30ff81d3155c12bd0060e30bd7c39e4ea19f
Program Files (x86)\Dominion Voting Systems\ImageCast Central\bin\TWAINDSM.dll	ba747e28769d85458a33a61a2a230435612e376f99b9a2dc104a817e2d451bfa

# SLI Compliance

## ICP2

Version: 5.5.1.8	
Filename	SHA-256 Value
dvs	18A0B06B7EF36F6D7CA6C0BF4FBE513B0092632E5DC628C1C441295B74AF1762
initramfs	1418A85ABFFC829D3B52ABC8DF32C30E5C00613AEA861909D8D715C42AD969E
rfs	32188DC9677471650E2EC6F3EAC17E5226FC2312E1EEE6F061CEA93608C923CB
icp2.dtb	6596FCEDE64E448A7531B097B53148D23C043F6A061BF32A27B4FAFBE4C1540A
zImage	61BB6BE39627257A7C140D00E226480FAAFC543FC56EEA1DB96B4EAD1F705C2
logo.bmp.gz	70E02B3EE3BFB97FEFAF8BB060E851FC84A54E88C210C96456D628849AE8603C
data.squashfs	ED68837801E726A9AA1F4E89B7019DDE23196E0851409BDEB14FFCF6D575EE69

<p>The table below prescribes the criteria utilized in review of the Dominion DS 5.5B voting system. This review is designed to ascertain whether any component contained malicious software of any kind.</p>
<p style="text-align: center;"><b>User Activity and Malicious Software Review</b></p>
<p>Installed Programs: This is used to determine if there are any suspicious programs installed on the systems. This could be for malicious software or indications of Internet usage. This could include things like VNC player, or software that was not listed in the Dominion documentation.</p>
<p>Auto-Run commands: This includes software or other objects that are run automatically upon system load. We will be looking for things that might indicate internet activity, including Zoom or other software that may load automatically and require internet connectivity.</p>
<p>Event Logs: This is where a bulk of the examination will be looking for Windows events that will detail external connections or other faults to help identify internet connectivity or malicious software usage or activity.</p>
<p>UserAssist: This is detailed information from the Windows registry, about programs executed on the system including when last used and how many times. This will be used to examine programs executed on the systems. This should help track down potentially malicious executions on the system, as well as potentially find indicators of network connected programs (Webex, Zoom, VNC etc.)</p>
<p>Jump Lists: List of recently opened items including files, folders, websites etc. We will examine these areas to look for indicators of malicious software activities and internet connectivity.</p>
<p>Recycle Bin: Used to determine if there are any deleted files that would indicate malicious software activity or internet connectivity.</p>
<p>USB: This will tell you every USB device connected to the system, to help identify potentially malicious file activity.</p>
<p>FileName Search: A check of filenames, verifying files associated with products, and looking for known malicious files.</p>

The table below prescribes the criteria utilized in review of the Dominion DS 5.5B voting system. This review is designed to ascertain whether any component was connected to the internet during the timeframe of July 6th 2020 through November 20th 2020.

<b>Networking Review Criteria</b>
Microsoft-Windows-NlaSvc%4Operational.evtx
Microsoft-Windows-SENSE%4Operational.evtx
Microsoft-Windows-SmbClient%4Connectivity.evtx
Microsoft-Windows-Windows Defender%4Operational.evtx
Microsoft-Windows-WindowsUpdateClient%4Operational.evtx
Microsoft-Windows-WLAN-AutoConfig%4.evtx
Microsoft-Windows-Dhcp-Client%4Admin.evtx
Microsoft-Windows-Dhcpv6%4Admin.evtx
Microsoft-Windows-Host-Network-Service-Admin.evtx
Microsoft-Windows-Host-Network-Service-Operational.evtx
Microsoft-Windows-NetworkProfile%4Operational.evtx
<b>Examine in OSForensics:</b>
System Passwords: this will include indication of potential unauthorized connections.
SRUM: System Resource Usage Monitor: if there is any activity here this may detail unusual network connectivity or usage
Downloads: this will include indication of potential unauthorized connection of systems to the internet.
Browser history: this will include indication of potential unauthorized connection of systems to the internet.
Search terms: this will include indication of potential unauthorized connection of systems to the internet.
Website logins: this will include indication of potential unauthorized connection of systems to the internet.
Form History: this will include indication of potential unauthorized connection of systems to the internet.
Bookmarks: this will include indication of potential unauthorized connection of systems to the internet.
Chat Logs: this will include indication of potential unauthorized connection of systems to the internet.
Peer to Peer: this will include indication of potential unauthorized connection of systems to the internet
WLAN: this will include indication of potential unauthorized connection of systems to the internet.



# **Exhibit B**



# Field Audit Report

**Dominion Voting Systems Democracy  
Suite (D-Suite) 5.5-B Voting System  
Maricopa Post-Election Field Audit**

Approved by: \_\_\_\_\_ *Jack Cobb*

**Jack Cobb, Laboratory Director**

**February 23, 2021**

## 1.0 INTRODUCTION

The purpose of this report is to document the procedures that Pro V&V, Inc. followed to perform a Post-Election Field Audit of the Dominion Voting Systems Democracy Suite (D-Suite) 5.5-B Voting System Maricopa County Board Elections. The Post Election Field Audit was conducted in Maricopa County, Arizona, from February 2, 2021 through February 5, 2021. The audit was conducted at the following location:

Maricopa County Elections  
510 South 3<sup>rd</sup> Avenue  
Phoenix, Arizona 85003

## 1.1 References

The documents listed below were utilized in the development of this Report:

- Pro V&V Test Plan No. TP v. 01-03-MAR-01.03, *“Dominion Voting Systems D-Suite 5.5-B Voting System Maricopa Post-Election Field Audit”*
- Election Assistance Commission (EAC) 2005 Voluntary Voting System Guidelines (VVSG) Version 1.0, Volume I, “Voting System Performance Guidelines”, and Volume II, “National Certification Testing Guidelines”
- Election Assistance Commission Testing and Certification Program Manual, Version 2.0
- Election Assistance Commission Voting System Test Laboratory Program Manual, Version 2.0
- National Voluntary Laboratory Accreditation Program NIST Handbook 150-2016, “NVLAP Procedures and General Requirements (NIST Handbook 150)”, dated July 2016
- National Voluntary Laboratory Accreditation Program NIST Handbook 150-22, 2008 Edition, “Voting System Testing (NIST Handbook 150-22)”, dated May 2008
- United States 107<sup>th</sup> Congress Help America Vote Act (HAVA) of 2002 (Public Law 107-252), dated October 2002
- Pro V&V, Inc. Quality Assurance Manual, Version 7.0
- EAC Requests for Interpretation (RFI) (listed on [www.eac.gov](http://www.eac.gov))
- EAC Notices of Clarification (NOC) (listed on [www.eac.gov](http://www.eac.gov))

## **1.2 Terms and Abbreviations**

The terms and abbreviations applicable to the development of this Test Report are listed below:

“EAC” – United States Election Assistance Commission

“EMS” – Election Management System

“HAVA” – Help America Vote Act

“ICC” – ImageCast Central

“ICP2” – ImageCast Precinct 2

“ISO” – International Organization for Standardization

“NOC” – Notice of Clarification

“QA” – Quality Assurance

“RFI” – Request for Interpretation

“VSTL” – Voting System Test Laboratory

“VVSG” – Voluntary Voting System Guidelines

## **1.3 Background**

The Maricopa County Board of Elections contracted with Pro V&V to conduct a Post-Election Field Audit to ensure the software and hardware certified for use in Maricopa County are the same as the software and hardware used in the conduction of the November 2020 General Election. Maricopa also requested that Pro V&V perform a network analysis and an accuracy test.

## **1.4 System Description**

The D-Suite 5.5-B Voting System is a paper-based optical scan voting system consisting of the following major components: The Election Management System (EMS), the ImageCast Central (ICC), and the ImageCast Precinct 2 (ICP2). The D-Suite 5.5-B Voting System configuration is a modification from the EAC approved D-Suite 5.5 system configuration.

## **1.5 Scope**

The Post-Election Field Audit evaluated the EMS and ICC workstations and servers by comparing the SHA-256 hash value to the known SHA-256 hash values. In addition, a malware detection tool was run on each workstation/server to establish whether any malware/virus or malicious software was running on the workstations/servers. Pro V&V utilized the tool to extract the firmware from a sample of thirty-five

ICP2 units. These extractions were then placed on the Pro V&V laptop to generate the SHA-256 hash value for the firmware. These hash values were compared to known hash values for the Election Assistance Commission Federal Test Campaign. In addition to these evaluations, Pro V&V conducted a network analysis to ensure the network is a “Closed Network” incapable of reaching the internet. Pro V&V also conducted an Accuracy Test to meet the requirements of the 2005 Voluntary Voting Systems Guidelines (VVSG).

## **2.0 AUDIT OVERVIEW**

The evaluation of the D-Suite 5.5-B Voting System consisted of removing a copy of the software/firmware from each component and evaluating the software/firmware against a known SHA-256 hash value outside of the system, running the malware detection tool to verify no malicious software was resident on the workstations/servers, performing a network analysis, and executing an accuracy test.

## **3.0 AUDIT PROCESS AND RESULTS**

The following procedure outlines the steps that the evaluation team will execute to evaluate the D-Suited 5.5-B under the scope defined in Section 1.5.

### **3.1 General Information**

The evaluation was conducted under the guidance of Pro V&V by personnel verified by Pro V&V to be qualified to perform the evaluation.

### **3.2 Audit Configuration**

The evaluation utilized system configurations of the D-Suite 5.5-B Voting System and its components that were setup by Maricopa personnel. Pro V&V had complete access and control of the equipment being audited.

### **3.3 Procedures and Summary Findings**

#### **ICP2 Software Verification**

To perform the verification, the Pro V&V test team randomly selected thirty-five units for evaluation. A team member then photographed the seals and the device. All seals that needed to be removed were then removed. After all photographs were taken, the team member removed any compact flash cards under county supervision and placed them on top of the machine being evaluated. The team member then inserted two compact flash cards (one blank and the other containing the firmware extraction tool). The unit was plugged in and powered on with the security token iButton press on the iButton reader. A password was entered and a tech iButton was then read by the ICP2 and the option to “Extract Firmware” was selected. The original compact flash cards were then reinserted into the ICP2. The team member then took the compact



flash card containing the exported firmware to a Pro V&V laptop to compare the SHA-256 hash values to the known value from previous testing.

**Summary Findings**

All SHA-256 hash values retrieved from the units sampled matched the known value from certification testing. No discrepancies were noted at any time during this portion of the evaluation.

The serial numbers of the units selected along with the corresponding seal numbers are detailed in the table below.

**Table 3-1 ICP2 Software Verification Serial and Seal Numbers**

ICP2 Serial Number	Seal Number	
	Front	Back
FAL19460086	IS143365	1004649
FAL19460030	IS437104	1004719
FAL19330163	IS439376	1004217
FAL19450094	IS419918	1004579
FAL19380033	IS439358	1004621
FAL19460025	IS136178	1004786
FAL19450035	IS441937	1004032
FAL19390009	IS149173	1004260
FAL19380263	IS129272	1004955
FAL19283163	IS1642553	1004904
FAL19450002	IS136177	1004743
FAL19460023	IS437315	1004568
FAL19450257	IS439331	1004216
FAL19320179	IS437217	10041912
FAL19450000	IS1642634	1004973
FAL19450119	ISIS146739	1004997
FAL19252973	IS1642766	1004971
FAL19450133	IS1640855	1004830
FAL19450196	IS1640979	1004572
FAL19380044	IS148896	1004314

**Table 3-1 ICP2 Software Verification Serial and Seal Numbers (continued)**

ICP2 Serial Number	Seal Number	
	Front	Back
FAL19460080	IS439339	1004320
FAL19320062	IS439396	1004204
FAL19450068	IS1640786	1004530
FAL19450007	IS1639766	1004747
FAL19450040	IS149919	1004461
FAL19450274	IS439195	1004097
FAL19450241	IS439431	1004375
FAL19460044	IS437295	1004988
FAL19460089	IS437291	1004672
FAL19460042	IS143032	1004752
FAL19450004	IS162418	1004531
FAL19460068	IS437240	1004498
FAL19450034	IS143031	1004491
FAL19450062	IS143686	1004587
FAL19460105	IS1640785	1004125

**ICP2 Hardware Verification**

To perform the verification, the Pro V&V test team selected five units for evaluation. A team member then photographed the seals and the device. All seals that needed to be removed were then removed. After all photographs were taken, the team member removed the necessary security screws from the bottom of the ICP2. Once the screws were removed the cover was removed. The team member then used the hardware verification guide to visually inspect the hardware components and subcomponents against known photographs, part numbers and identifying marks.

**Summary Findings**

All units inspected were verified to contain the correct hardware components and subcomponents. No discrepancies were noted at any time during this portion of the evaluation.

The serial numbers of the units selected along with the corresponding seal numbers are detailed in the table below.

**Table 3-2 ICP2 Hardware Verification Serial and Seal Numbers**

ICP2 Serial Number	Seal Number
FAL19380033	1004580
FAL19450257	***
FAL19320179	1004481
FAL19320062	1004029
FAL19450040	1004708

*\*\*\*Note: There are various acceptable reasons for a seal to be unattached, such as: the unit was a spare, the seal was broken in transit, or the poll worker had to remove it on election night and return it to the Board of Elections with the elections results.*

**EMS and ICC Workstations/Servers Verification**

To perform the verification, the Pro V&V test team was granted access to the workstations/servers from qualified Board of Elections Employees. Once access was achieved, a team member navigated to the folder containing the DVS software and copied the software onto a brand new USB drive. The USB was then inserted into the Laboratory laptop and a SHA-256 hash value was generated. A comparison was made between the generated hash value and the known hash value. The hard drive from the ICC workstation/server was then removed and placed into a cloning device. The hard drive was then “cloned”. After completion, the hard drive was placed into equipment from Pro V&V’s laboratory that is an exact sample of the same ICC workstation/server. The equipment was then booted up. The Pro V&V test team was granted access to the workstations/servers from qualified Board of Elections Employees. Once that was achieved, a USB containing a malware/virus scanning software was run to scan the equipment for malware/viruses.

**Summary Findings**

All units inspected were verified to contain the correct hardware components and subcomponents. No discrepancies were noted at any time during this portion of the evaluation.

Identification information of the units inspected is detailed in the table below.

**Table 3-3 EMS and ICC Workstations/Servers Verification Details**

Scanner Information	Computer	
	Model	Serial Number
<i>ICC Client Workstation</i>		
HP-0124K28	OptiPlex 7060	2JGJ3W2
HP-0124K29	OptiPlex 7060	2FDK3W2
HP-0190K29	OptiPlex 7060	2K6M3W2
HP-0192K29	OptiPlex 7060	2JYM3W2
C-GF307234	OptiPlex 3050	8NCCB03
C-GFY00088	OptiPlex 3050	4RMZNX2
C-GF302006	OptiPlex 3050	4RPOPX2

**Table 3-3 EMS and ICC Workstations/Servers Verification Details**

Scanner Information	Computer	
	Model	Serial Number
C-GFY00019	OptiPlex 3050	4RNZ7X2
C-GFY00347	OptiPlex 3050	4RPVNX2
<i>Adjudicatorin Client Workstation</i>		
N/A	Dell Precision Tower 3420	87NDHL2
N/A	Dell Precision Tower 3431	DVDZG13
N/A	Dell Precision Tower 3431	DVFTG13
N/A	Dell Precision Tower 3431	G4NFZ23
<i>EMS Client</i>		
N/A	Dell Precision 3420	27BD8M2
N/A	Dell Precision 3420	BNWVCH2
N/A	Dell Precision 3420	86PQXK7
N/A	Dell Precision 3420	B0ZRMN2

**Network analysis**

While onsite, qualified Pro V&V personnel evaluated the network architecture to determine the process and procedure to be followed. All steps were documented in the engineering notebook.

## Summary Findings

Pro V&V test team members evaluated the physical wiring of the network, the managed switch, clients, and the server. All wiring is housed in an exposed channel hanging from the ceiling. Different color wires are used for different device types such as printers, PCs, or tabulators. For the server, commands were run to test connectivity to a known internet address and public IP addresses. None for these commands returned successful execution from the server or from the clients. Pro V&V determined that the network it evaluated is a “Closed Network” and does not have access to the internet.

## Accuracy Test

An Accuracy Test was performed to ensure the 5.5-B system correctly captures, stores, consolidates, and reports the specific ballot selections, and absence of selections, for each ballot position. To perform the test, the test deck provided by Maricopa Board of Elections was inserted into each tabulator and processed to reach a total of at least 1,549,703 ballot positions.

## Summary Findings

An Accuracy Test was performed on the ICP 2 precinct scanner, ICC HiPro Workstation, and the ICC Canon DR-G1130 over a two day period. Using the test deck that was provided by Maricopa County, all votes were tallied and adjudicated resulting in an accurate ballot count. The ICC workstations were scanned on the first day. Ballots were imported into RTR and adjudicated resulting in accurate numbers The ICP 2 ballots were scanned on the second day and were scanned by volunteers from the “League of Women Voters”. Board of Elections staff acted as poll workers if the volunteers had any issues.

Two anomalies recorded during the execution of this test:

- A ballot jam was recorded on audit unit 10. It could not be determined if the ballot was tabulated. The Pro V&V test team isolated the ballot until the polls were closed. It was determined the ballot was tabulated and the ballot was returned to the ballot bin.
- On audit unit 11, after the close of polls it was determined that a ballot jammed and was rerun through tabulation because the total ballots cast was plus 1. The tabulator was rezeroed and all ballots were rescanned.

Ballots were imported into RTR and Adjudicated resulting in accurate numbers.



#### **4.0 CONCLUSIONS**

Based on the results obtained during the Field Audit, Pro V&V determines the D-Suite 5.5-B Voting System, on all evaluated components, is the voting system software and hardware certified for use in Maricopa County and are the same as the software and hardware used in the conduction of the November 2020 General Election.