

# State of Minnesota

## SECRETARY OF STATE

### Certification of Dominion Democracy Suite Version 5.5-C Voting System

I, Steve Simon, Secretary of State of Minnesota, hereby certify that:

Dominion Voting Systems (Dominion) has requested that the Office of the Minnesota Secretary of State examine and certify the Dominion Democracy Suite Version 5.5-C Voting System (D-Suite 5.5-C) for use in Minnesota elections as certified to the 2005 Voluntary Voting System Guidelines, version 1.0 (2005 VVSG). This system includes the following components:

- The **Election Management System (EMS) v. 5.5.40.2** – the application software used at Election Central to define the election, program the voting machines, and report results.
- **ImageCast Evolution (ICE) v. 5.5.6.5** – an optical scanner that incorporates a ballot marking device to accommodate accessibility needs (with either the primary display on the ICE unit or with a secondary display attached to the ICE unit).
- **ImageCast Central (ICC) v 5.5.41.0002** – a high speed solution for absentee scanning.

The components of the D-Suite 5.5-C are as follows:

#### EMS Software Component Descriptions:

- EMS Election Event Designer (EED) - version 5.5.40.2
- EMS Results Tally and Reporting (RTR) - version 5.5.40.2
- EMS Application Server – version 5.5.40.2
- EMS File System Service (FSS) – version 5.5.40.2
- EMS Audio Studio (AS) – version 5.5.40.2
- EMS Data Center Manager (DCM) – version 5.5.40.2
- EMS Election Data Translator (EDT) – version 5.5.40.2
- EMS ImageCast Voter Activation (ICVA) version 5.5.40.2
- Smart Card Helper Service – version 5.5.40.2

#### EMS Client/Server Software Component Descriptions:

- Microsoft Windows Server – version 2012 R2 Standard
- Microsoft Windows version 10 Professional
- .NET framework – version 3.5

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- Microsoft Visual J# - version 2.0
- Microsoft Visual C++ 2013 Redistributable – version 2013
- Microsoft Visual C++ 2015 Redistributable – version 2015
- Java Runtime Environment – version 7u80
- Java Runtime Environment – version 8u144
- Microsoft SQL Server 2016 Standard – version 2016 Standard
- Microsoft SQL Server 2016 Service Pack 2 – version 2016 SP2
- Microsoft SQL Server 2016 SP1 Express – version 2016 Sp1
- Cepstral Voices – version 6.2.3.801
- Arial Narrow Fonts – version – 2.37a
- Maxim iButton Driver – version 4.05
- Adobe Reader DC – version AcrobatDC
- Microsoft Access Database Engine – version 2010
- Open XML SDK 2.0 for Microsoft Office – version 2.0

### ICC Software Component Description:

- ICC Application – version 5.5.40.2

### ICE Software Component Description:

- ICE Voting Machine - version 5.5.6.5
- ICE Election Application – version 5.5.6.5
- Linux Kernel – version 2.6.30.9-dvs-36
- Linux Device File – version 1.6
- Root File System – version 5.0.3.1
- Ram Disk - version 1.0.2
- Motherboard FPA – version 1.1.5
- Scanner Board FPGA – version 1.1.2
- Logger Controller – version 2.0.2
- Power Controller – version 3.0.5
- Boot Loader – version 1.3.4.63
- Integrated Printer – version 4.1.6
- Boot Startup Logo – version 6.0.0
- Linux Startup Logo – version 6.0.0
- Application Startup Logo – version 6.0.0
- Application Verification Logo – version 6.0.0
- Ram Disk Verification Logo – version 6.0.0

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- Linux Tree Verification Logo – version 6.0.0
- Linux Verification Logo – version 6.0.0
- RFS Verification Logo – version 6.0.0

### EMS Software Platform Unmodified Commercial-Off-The-Shelf (COTS) Component Descriptions:

- Infragistics NetAdvantage Win Forms 2011.1 – version 2011 Vol. 1
- Infragistics NetAdvantage WPF 2012.1 – version 2012 Vol 1
- TX Text Control Library for .NET – version 16.0
- SOX – Version 14.3.1
- NLog – version 1.0.0.505
- iTextSharp – version 5.0.5
- OpenSSL – version 1.0.2k and 2.0.14 FIPS
- SQLite – version 1.0.103.0
- Lame – version 3.99.4
- Speex – version 1.0.4
- Ghostscript – version 9.0.4
- One Wire API for .Net – version 4.0.2.0
- Avalon-framework-cvs-20020806 – version 20020806
- Batik – version 0.20-5
- Fop – version 0.20-5
- Microsoft Visual J# 2.0 Redistributable Package Second Edition(x64) – version 2.0
- Entity framework – version 6.1.3
- Spreadsheetlight – version 3.4.3
- Open XML SDK 2.0 For Microsoft Office – version 2.0.5022.0

### ICC Software Build Library (Unmodified COTS):

- OpenSSL 1.0.2k – version 1.0.2k
- Open SSL FIPS 2.0.10 -version 2.0.10

### ICE Unmodified COTS Component Descriptions:

- BusyBox – version 1.20.2
- E2fsprogs – version 1.42.4
- Expat XML Parser – version 2.1.0
- Fontconfig – version 2.9.0
- Freetype – version 2.4.9

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- 12C Tools for Linux – version 3.1.0
- JPEG library – version 8d
- libogg – version 1.3.0
- libPNG – version 1.5.10
- libusb – version 1.08
- libusb-compat – version 0.1.3
- Log4cplus – version 1.0.4.1
- Openssl – version 1.0.2k
- Openssl-fips – version 2.0.10
- PPP – version 2.4.5
- Quazip – version 0.5
- Qt Everywhere Linux – version 4.7.3
- Skell – version 1.19
- SoundTouch
- Speex – version 1.2rc1
- SQLite – version 3.7.13
- Sysfs Utilities – version 2.1.0
- TIFF Library – version 4.0.1
- Timezone – version 2012b
- USB ModeSwitch – version 1.2.4
- zlib – version 1.2.7

The D-Suite 5.5-C System is a paper-based optical scan voting system. The D-Suite 5.5-C Voting System configuration is a modification from the EAC approved D-Suite 5.5-B Voting System. The D-Suite 5.5-B system configuration is a modification of the D-Suite 5.5 System configuration. The D-Suite 5.5 System configuration is a modification to the D-Suite 5.0 System configuration. The independent testing authority found that all these system configurations met the requirements set for the in the EAC 2005 VVSG, Volumes I and II. According to Pro V&V, an independent testing authority, in its report on the certification testing of D-Suite 5.5-C, dated July 7, 2020, “the D-Suite 5.5-C Voting System was evaluated against the relevant requirements contained in the EAC 2005 VVSG, Volumes I and II. Pro V&V found:

“The D-Suite 5.5-C Voting System, as presented for testing, successfully met the requirements set forth for voting systems in the U.S. election Assistance Commission (EAC) 2005 Voluntary Voting System Guidelines (VVSG), Version 1.0. Additionally, Pro V&V, Inc has determined that the D-Suite 5.5-C functioned as a complete system during System Integration Testing. Based on the test findings, Pro V&V recommends the EAC grant the D-Suite 5.5-C System...certification to the EAC 2005 VVSG.”

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The OSS relies on the findings of Pro V&V, the independent testing authority, in reaching its certification conclusions. The ICC was tested with its ambiguous mark threshold set with a range of 12% to 15%. The ICE was tested with its ambiguous mark threshold set with a range of 22% to 25%. This certification extends only to the use of the election equipment when the ambiguous mark thresholds are set within these ranges. The Secretary of State's office does not certify modems in the certification process, so D-Suite 5.5-CS is not included in this certification. However, D-Suite 5.5-CS is not prohibited from being used because it was shown that the modeming did not affect the ability of the components of the D-Suite 5.5-C System to meet the certification requirements in Minnesota.

Therefore, based upon the results of the OSS certification testing, and in reliance upon the Pro V&V independent testing authority certification results regarding the D-Suite 5.5-C Voting System of Dominion Voting Systems as measured to the 2005 VVSG complies with the requirements of Minnesota's Statutes sections 206.55 to 206.90 subject to the ICC ambiguous mark threshold being set at 12% to 15% and the ICE ambiguous mark threshold being set at 22% to 25%, is certified for use in Minnesota Elections. This Certification allows the use of the D-Suite 5.5-CS system but does not make any assertions or certifications regarding its modeming capabilities.

This certification is subject to Minnesota Statutes and Rules. By operating under this certification, Dominion stipulates that it will employ methods and procedures to safeguard system software and firmware from access by unauthorized parties during all phases of election preparation, including preparation and delivery of election programming and related materials to county and local governments.



Witness my hand and the Great Seal of the State of Minnesota on this 2nd day of May 2022.

Steve Simon  
Secretary of State

Time of Signature: 1:21pm

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Office of the Minnesota  
Secretary of State Steve Simon