MECHANICAL VOTING SYSTEMS APPLICATION

State of Utah

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Description of hardware components:

Democracy Suite 5.4 - E is a paper-based optical scan/Direct – Recording Electronic (DRE) voting system consisting of software components running as client, server, or firmware applications. COTS hardware is used for all EMS and central scan components. Proprietary hardware is used by the system to provide precinct optical scan capabilities. A listing of the components and a brief description of each is presented below:

- *EMS Election Event Designer (v. 5.4.48.1): A client application that integrates election definition functionality together with ballot styling capabilities and represents a main pre-voting phase end-user application.*
- *EMS Results Tally and Reporting (v. 5.4.48.1): A client application that integrates election results acquisition, validation, tabulation, reporting, and publishing capabilities and represents a main post-voting phase end-user application.*
- *EMS Adjudication (v. 5.4.17.4): Represents the server and client components responsible for adjudication, including reporting and generation of adjudicated results files from ImageCast Central and Precinct tabulators and adjudication of write-in selections from ImageCast Precinct, ImageCast X, and ImageCast Central tabulators.*
- *EMS Audio Studio (v. 5.4.48.1): A client application that represents an end-user helper application used to record audio files for a given election project. As such, it is utilized during the pre-voting phase of the election cycle.*
- *EMS Election Data Translator (v. 5.4.48.1): End-user application used to export election data from an election project and import election data in an election project.*
- *ImageCast Voter Activation (v5.4.48.1): An application installed on a workstation or laptop at the polling place which allows a poll worker to program smart cards for voters. The smart cards are used to activate voting sessions on ImageCast X.*
- *EMS Application Server (v. 5.4.48.1): Represents a server side application responsible for executing long running processes such as rendering ballots, generating audio files and election files, etc.*

- *EMS Database Server (SQL Server 2016): Represents a server side RDBMS repository of the election project database which holds all of the election project data, including pre-voting and post-voting data.*
- *EMS Data Center Manager (v. 5.4.48.1): A server application that represents a system level configuration application used in EMS back-end data center configuration.*
- *EMS File System Service (v. 5.4.48.1): A client application that acts as a stand-along service that runs on client machines, enabling access to low-level operating system API for partitioning CF cards, reading raw partition on ICP CF cards, etc.*
- *EMS NAS Server (Windows Server 2012 R2): Represents a server side file repository of the election project file based artifacts such as ballots, audio files, reports, log files, and election files.*
- *Smart Card Helper Service (v. 5.4.48.1): A service that is installed on a workstation or laptop at the polling place which provides required data formats for programming smart cards for ImageCast devices or for jurisdictional voter registration system integration.*
- *ImageCast Central (ICC) (v. 5.4.3.1): The ICC is a high-speed central ballot scan tabulator based on COTS hardware couple with custom-made ballot processing application software. It is used for high speed scanning and counting of paper ballots, including ballots produced by ImageCast X.*
- *ImageCast X (ICX) (5.4.37.7): The ICX consists exclusively of COTS available hardware and operating system, while the applications installed on top customize its behavior to turn it into a Direct-Recording Electronic (DRE) device with a Voter Verifiable Paper Audit Trail (VVPAT) (Note: The ICX may be configured as a Ballot Marking Device (BMD); however, due to the scope of this test campaign, the ICX was configured only as a DRE w/VVPAT). The ICX is designed to perform the following functions: ballot review and second chance voting, accessible voting, and ballot marking (if configured), saving voting results (in DRE mode), and printing votes on a voter verifiable paper audit trail device (when VVPAT is in use).*

Version Number: *Democracy Suite 5.4 -E*

Election Assistance Commission Qualification Number, if provided (please attach certification letter from EAC): N/A

Functional description of software components:

Dominion's Democracy Suite EMS is a robust and secure Election Management System that is used to design and setup an election, produce ballots and tabulator definition files, and accumulate and report results. The EMS consists of the components described above and on pages 9 through 14 of the DVS D – Suite 5.4-E Final test report. The EMS system supports all functionality and features required by Utah election law.
EMS Election Event Designer (EED) and EMS Results Tally and Reporting (RTR) are two core applications used to perform pre-voting and post-voting tasks, respectively. These modules communicate with the EMS Application Server, which handles all transactions with the election database and file system.

Finally, the EMS system includes an adjudication application that allows review of voter intent on a ballot by ballot basis from ImageCast Central, ImageCast Precinct, and ImageCast X devices.

1. In what other states has the system been certified for use?
   State of Nevada

The following state election authorities have tested and approved this version of the system for use:

2. In what jurisdictions is the system actually being used today?

Below is a list of all election jurisdictions where the system has been used for elections, the major scanning components used, and the year of implementation;

- *Fifty-two Counties in the State of New York (all except Albany, Erie, Nassau, Rockland, Schenectady and the five boroughs of New York City) (ICP, BMD, ICC - 2008)*
- *State of Colorado (ICC, ICX BMD)*
- Eighteen *New Jersey Counties utilize the ImageCast Central (ICC)*

  Burlington (2014)
  Camden (2012)
  Cape May (2014)
  Essex (2012)
  Hudson (2012)
  Mercer (2012)
  Middlesex (2012)
  Monmouth (2014)
  Ocean (2012)
  Union (2012)
  Cumberland
  Gloucester
  Hunterdon
  Morris
  Passaic

- *All Parishes in the State of Louisiana (ICC - 2011)*
- *Two Counties in the Commonwealth of Virginia, plus our dealer (AES) accounts*

  Caroline County (ICP BMD - 2013)
  Rappahannock (ICP BMD – 2017)

- *Five Counties in the State of Ohio*

  Guernsey (ICE, ICC - 2013)
  Harrison (ICP, ICC - 2014)
  Huron
  Muskingum

- *Hamilton County Tennessee (ICE, ICP, ICC - 2013)*
- *Cedar County Iowa (ICP BMD - 2013)*

- *Seven Florida Counties*

  Baker (ICE - 2013) *Hardee (ICE - 2013)*
  Leon (ICE - 2014) *Levy (ICE - 2014)*
  Madison (ICE - 2013) *Monroe (ICE, BOD - 2013)*
  St Lucie (ICE, BOD, ICC/DRS - 2014)

- *State of New Mexico, Thirty Three Counties (ICE, ICP, ICP BMD - 2014)*
- *State of Washington, Franklin County (ICC, ICX - 2017)*
- *Three cities in Alaska:*
- *City and Borough of Sitka, Alaska (ICP BMD – 2014)*
- *City of Valdez (ICP BMD – 2016*
- *City of Ketchikan (ICP – 2017)*
- *Municipality of Anchorage (ICC VBM 2017)*
- *Fifty-five counties in the State of Colorado (ICX BMD, ICC – 2016, 2017)*
- *Fifteen counties in the State of California (ICC, ICE, ICX)*
  - *Imperial (ICE, ICC), Kern (ICC – 2015)*
  - *Del Norte, Glenn, Napa, Sisikiyou, Tehama (ICC, ICE - 2016)*
  - *Contra Costa (ICC, ICE, ICX, BMD - 2018)*
  - *Kern, Napa (ICX, BMD - 2018)*
  - *Inyo, Monterey, Madera, Sacramento, San Benito, San Luis Obispo (ICC, ICX, BMD - 2018)*
  - *Mono, Shasta (ICC, ICE- 2018)*
- *State –wide implementation (sixty - five counties) in the State of Michigan (2017, 2018)*
- *State –wide implementation (sixteen counties) in the State of Nevada (2017, 2018)*