**DRAFT Test Assertions for VVSG 1.0 Section 7.2.1.2**

**August 24, 2015**

**Requirement 7.2.1.2**

**VVSG 1.0 Requirement 7.2.1.2:** Vendors shall provide a detailed description of all system access control measures designed to permit authorized access to the system and prevent unauthorized access. Examples of such measures include:

1. Use of data and user authorization
2. Program unit ownership and other regional boundaries
3. One-end or two-end port protection devices
4. Security kernels
5. Computer-generated password keys
6. Special protocols
7. Message encryption
8. Controlled access security

Vendors also shall define and provide a detailed description of the methods used to prevent unauthorized access to the access control capabilities of the system itself.

**Test Assertions**

**TA7212-1:** The TDP SHALL contain a detailed description of all system access control measures designed to permit authorized access to the voting system.

**TA7212-2:** The TDP SHALL contain a detailed description of all system access control measures designed to prevent unauthorized access to the voting system.

**TA7212a-1:** The description of measures designed to permit authorized access to the system and/or prevent unauthorized access MAY include use of data and user authorization.

**TA7212b-1:** The description of measures designed to permit authorized access to the system and/or prevent unauthorized access MAY include program unit ownership and other regional boundaries.

**TA7212c-1:** The description of measures designed to permit authorized access to the system and/or prevent unauthorized access MAY include one-end or two-end port protection devices.

**TA7212d-1:** The description of measures designed to permit authorized access to the system and/or prevent unauthorized access MAY include security kernels.

**TA7212e-1:** The description of measures designed to permit authorized access to the system. and/or prevent unauthorized access MAY include computer-generated password keys.

**TA7212f-1:** The description of measures designed to permit authorized access to the system and/or prevent unauthorized access MAY include special protocols.

**TA7212g-1:** The description of measures designed to permit authorized access to the system and/or prevent unauthorized access MAY include message encryption.

**TA7212h-1:** The description of measures designed to permit authorized access to the system and/or prevent unauthorized access MAY include controlled access security.

**TA7212i-1:** The description of measures designed to permit authorized access to the system and/or prevent unauthorized access MAY include any other types of access control measures implemented that are not included in the previous test assertions.

**TA7212-3:** The TDP SHALL contain a description of the methods used to prevent unauthorized access to the access control capabilities of the system itself.

**Operational Definitions**

**access control** – The process of granting or denying specific requests to: 1) obtain and use information and related information processing services; and 2) enter specific physical facilities (e.g., federal buildings, military establishments, border crossing entrances).

*(source: http://nvlpubs.nist.gov/nistpubs/ir/2013/NIST.IR.7298r2.pdf)*