**Test Assertions for VVSG 1.1, Volume 1, Section 7.2.4**

**September 23, 2016**

**VVSG 1.1, Vol 1, Requirement 7.2.4:** **Access Control Authorization**

Authorization is the process of determining access rights based on authentication of a user, application, or process within a voting system. Authorization permits or denies access to an object by a subject. Subjects may be users, applications, or processes that interact with the voting system. Objects may be files or programs within the voting system.

1. Voting systems shall ensure that only authorized roles, groups, or individuals have access to election data.
2. Voting systems shall explicitly authorize subject’s access based on access control lists or policies.
3. Voting systems shall explicitly deny subject’s access based on access control lists or policies.

**Test Assertions**

**TA724a-1:** Voting systems SHALL ensure that ONLY authorized roles that have been assigned permission to access election data are granted access to election data.

**TA724a-2:** Voting systems SHALL ensure that ONLY authorized groups that have been assigned permission to access election data are granted access to election data.

**TA724a-3:** Voting systems SHALL ensure that ONLY authorized individuals that have been assigned permission to access election data are granted access to election data.

**TA724a-4:** Voting systems SHALL ensure that no unauthorized group has access to election data.

**TA724a-5:** Voting systems SHALL ensure that ONLY authorized individuals have access to election data.

**TA724a-6:** Voting systems SHALL ensure that no unauthorized individual has access to election data.

**TA724b-1:** Voting systems SHALL explicitly authorize subject’s access based on EITHER 1) access control lists or 2) access control policies.

**TA724c-1:** Voting systems SHALL explicitly deny subject’s access based on EITHER 1) access control lists or 2) access control policies.