

VVSG 2.0 Scope and Structure



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Background

February 13-14, 2017 TGDC Meeting

- TGDC Unanimously voted to adopt the 17 core functions of a voting system as the scope of VVSG 2.0. This allows Working Groups, NIST and EAC to continue work to complete the draft VVSG 2.0 in time to discuss the final draft at the next TGDC Meeting.
- Standards Board also unanimously voted to adopt these 17 core functions in San Antonio April 26-28.



Background

- TGDC members stated that they liked the clear scope of these 17 functions and that these provided a solid basis from which to grow & allow innovation in the VVSG 2.0 document.
- VVSG 2.0 now changes from a *device* based approach to a *functionality* based approach.



Help America Vote Act

Definition of Voting System

Section 301 (b) (1) defines voting system as:

the **total combination** of mechanical, electromechanical, or electronic equipment (including the software, firmware, and documentation required to program, control, and support the equipment) that is used—

- (A) **to define ballots;**
- (B) **to cast and count votes;**
- (C) **to report or display election results; and**
- (D) **to maintain and produce any audit trail information**



Voting Systems

17 Core Functions

- Input Data for Ballot Construct
- Associate Data for Ballot Construct
- Ballot Layout
- Ballot Generation
- Ballot Transfer
- Ballot Retrieval
- Ballot Presentation
- Capture Vote Selections
- Interpret Vote Selections
- Extract Vote Selections
- Present Vote Selections
- Transfer Vote Selections
- Store Vote Selections
- Retrieve Vote Selections
- Tabulate Vote Selections
- Transfer Results
- Present Results

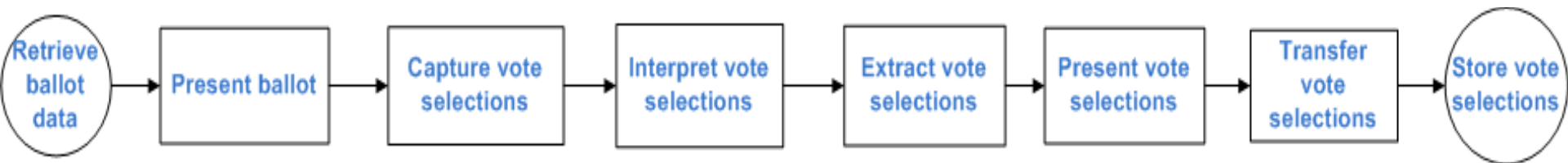


Voting System Model (By Functions)

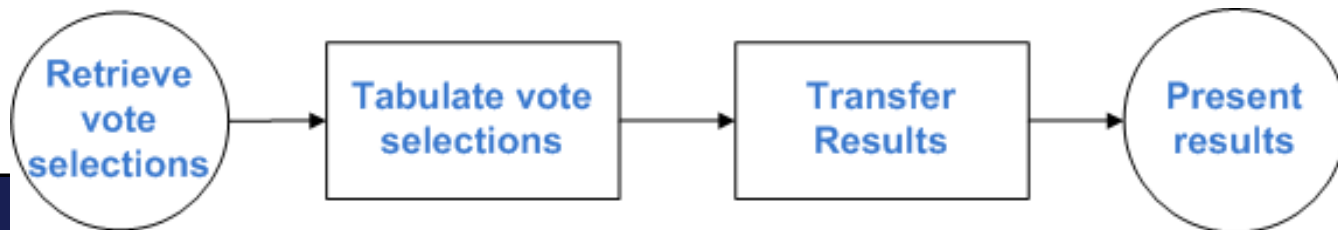
§301 (b) (1) (A) – to define ballots:



§301 (b) (1) (B) – to cast votes:



§301 (b) (1) (B) & (C) – to count & report/display results:



Discussion

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