



SECURITY FACT SHEET

ExpressVote®

Universal Voting System as a Tabulator

The purpose-built, paper-based ExpressVote Universal Voting System maintains the highest levels of physical and digital security controls. It provides voter confidence with on-screen, printed and audio playback options for vote selection verification. The unit's security features control access to critical components of the system.



Physical and System Access Controls

- The ExpressVote as a tabulator is delivered to the polling place in its kiosk-style voting booth, which can be locked and sealed during storage and transport.
- The power button, media and ports are protected behind lockable and sealable access doors.
- Security codes control access to all functions on the machine. These codes are programmed in Electionware® and can be customized for every election.



Encryption, Hash Validation and Digital Signatures

- As with all ES&S tabulators, election definitions are transferred to the unit as encrypted and digitally signed bundles on a secure USB flash drive. The ExpressVote validates that the USB flash drive is the approved type, that the media has been programmed for the expected function, and that the data bundle is unaltered from the trusted source.
- The vote data from the scanned card is stored with randomized file names and obscured time stamps to preserve voter anonymity.
- All election data is encrypted and digitally signed before it is transferred from the unit for reporting results and auditing.



Audit Logs

- The ExpressVote generates a detailed audit log, which can be exported for review and analysis, of all actions and events that have occurred on the unit.
- Every action and event — including access attempts, access of system functions and errors — is logged and time-stamped.
- The audit log file is digitally signed each time an event is written to it.



ExpressVote Tabulation and Auditing

Paper Ballot Card

- Provides a verifiable paper vote record for every voter, containing both human-readable selections and corresponding machine-readable barcodes
- Can be read by any ExpressVote unit before tabulation to verify the voter's intent was captured accurately



Is the Paper from the ExpressVote Auditable?

Yes. Just as hand-marked paper ballots can be inspected or audited by hand or by machine, so can ballot cards. A ballot card contains the same data as a hand-marked ballot, displayed in different ways. During a post-election hand-count audit, selected candidate names are used to count the vote.

ES&S fully supports the use of paper ballots and post-election audits to ensure accuracy and increase confidence in our country's election process. ES&S views paper records as critical for auditing. A physical paper record of the selected candidate names provides the means to a statistically valid post-election audit.

ES&S Security Philosophy

Nothing is more important to ES&S than protecting America's democracy by supporting secure, accessible and accurate elections. That's why every ES&S product reflects our three-part security philosophy:

- **Design:** All products are designed, without compromise, to meet the latest and ever-evolving standards in security, accuracy and reliability.
- **Testing:** In addition to ES&S testing protocols, all tabulation systems are rigorously tested and certified by the federal Election Assistance Commission (EAC), which reflects security and performance standards developed by scientists, academics and election officials. ES&S also takes security testing to the next level, executing penetration testing with independent, accredited laboratories. ES&S submitted our end-to-end voting configuration for Cybersecurity and Infrastructure Security Agency (CISA) critical product evaluation (CPE) at one of our nation's leading research labs.
- **Implementation:** The entire ES&S team is devoted to ensuring that each piece of technology performs as expected on Election Day, helping election officials uphold the laws of their jurisdiction, which mandate strict physical security and tight chain of custody of all voting machines.

Perhaps most importantly, ES&S' essence — its very being — is predicated on supplying America with equipment and software for secure, accurate and accessible elections. All of us at ES&S hold ourselves and each other accountable for this mandate and are proud to serve a role in this noble purpose.