



## SECURITY BULLETIN

# DS200<sup>®</sup>

## Precinct Scanner and Tabulator

Like all ES&S ballot tabulation equipment, the purpose-built DS200 precinct-based scanner and vote tabulator maintains the highest levels of physical and digital security controls. This paper-based system maintains paper vote records and takes digital images of each processed ballot.



### PHYSICAL AND SYSTEM ACCESS CONTROLS

- The DS200 uses physical and system access controls, including lockable doors, tamper-evident seals and access codes to secure sensitive components and election files, and a key-locked case for transport and shipping.
- Each administrative function requires password authentication for completion, and units are configured to require a passcode before polls are opened.



### SYSTEM APPLICATION CONTROLS

- The DS200 is paired with an encrypted card inside the unit containing the firmware. This technology ensures the card cannot be taken out of the machine and altered, viewed, or changed. The DS200 can detect a counterfeit card and will not even start.
- The unit only accepts approved and certified USB drives to prevent unauthorized data transfers or uploads.



### ENCRYPTION, HASH VALIDATION AND DIGITAL SIGNATURES

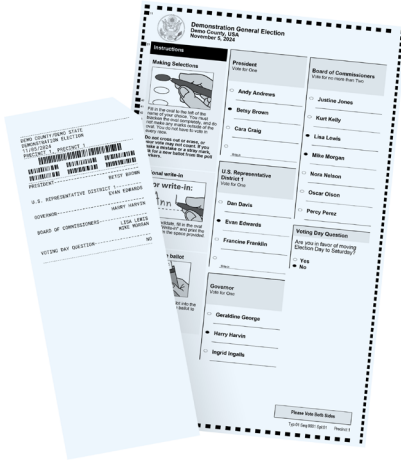
- The unit allows election officials to validate that all resident firmware matches the firmware version certified for use in that jurisdiction.
- All data generated during the polls is digitally signed and encrypted at poll close.



### AUDIT LOGS

- The DS200 generates a detailed audit log of all actions and events that occurred on the unit, which can be printed at any time. Every action and event, including access attempts, access of system functions and errors, is logged and timestamped.

# Post-election Auditing and Paper Ballot Cards



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.

## IS A PAPER BALLOT CARD 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 Security Philosophy

Nothing is more important to ES&S than protecting America's democracy through secure and accurate elections. That's why every ES&S product reflects the company's 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, academia and election officials. The ES&S testing protocol also involves testing by independent, accredited laboratories. ES&S submitted our end-to-end voting configuration for Cybersecurity and Infrastructure Security Agency (CISA) critical product evaluation (CPE) at Idaho National 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 state 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 providing America with secure, accurate and accessible elections. Every person at ES&S holds themselves, and each other, accountable for this mandate, and is proud to serve a role in this noble purpose.