



SECURITY FACT SHEET

Ballot on Demand[®]

Ballot Printing Solution

ES&S' Ballot on Demand (BOD) solution provides streamlined and flexible on-demand ballot printing that can integrate with your voter registration or pollbook system. Using commercially available products along with ES&S proprietary software, BOD uses the highest levels of physical and digital security controls. With our BOD solution, jurisdictions ensure each voter receives the correct ballot style and reduce security risks associated with storing and transporting pre-printed paper ballots.



System Access Controls

- The BOD application enforces role-based access control with three role options: Admin, Supervisor and Operator. Typically, election workers use the Operator role, which allows them to monitor print requests but does not allow access to any other options or settings.
- The entire BOD system is hardened into a single-purpose system, dedicated solely to operating the BOD software and printing ballots successfully.
- Two passwords are required to access the BOD software: a Microsoft Windows login and the BOD software login.



Ballot Encryption

- All ballot PDF files stored on the BOD system are encrypted and must be validated by the BOD software before being printed. These PDF files can be printed only from the laptop installed with BOD software and from the connected BOD printer.
- Should someone attempt to print unauthorized files or modified ballot PDF files, the BOD software would neither accept nor print them.



Physical System Security

- As a first line of defense for system security, the BOD laptop and printer can be secured in a lockable cart, and the laptop is secured with a tamper-evident seal.
- On the BOD printer, the physical USB port is disabled to prevent communication with all devices, except for the hardened BOD laptop.



Audit Logs

- The BOD software generates a detailed, time-stamped audit log of every action and event that occurs in the software. This audit log can be viewed and exported from the hardened laptop.
- When an administrator logs in to the system, the BOD software reports on all printing activity performed during that administrator's session.

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:** ES&S takes security testing to the next level by submitting 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, all of us at ES&S are dedicated to supplying America with equipment and software for secure, accurate and accessible elections. We hold ourselves and each other accountable for this mandate and are proud to serve a role in this noble purpose.