

How It Works: Private Network for Unofficial Results Transmission

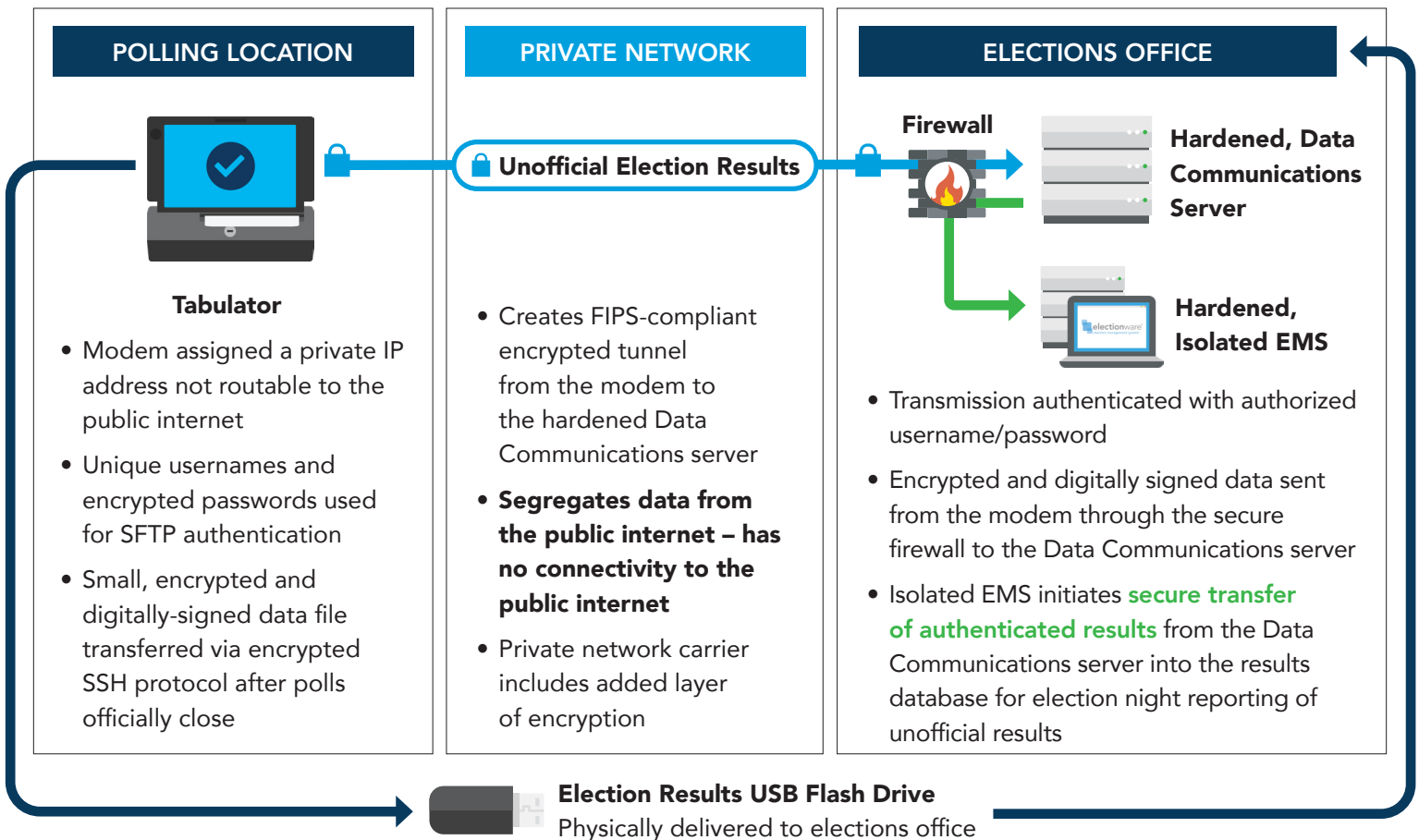


In a number of states, it is a legal practice to use cellular modems to transmit unofficial election results after the polls are officially closed, and all voting has ended. ES&S uses mobile private network connectivity, industry best practices and numerous security safeguards to protect the transfer of these unofficial election night results. Final official results are physically uploaded at election headquarters prior to final certification. The election results USB flash drives, physical ballots and printed results tapes are always protected.

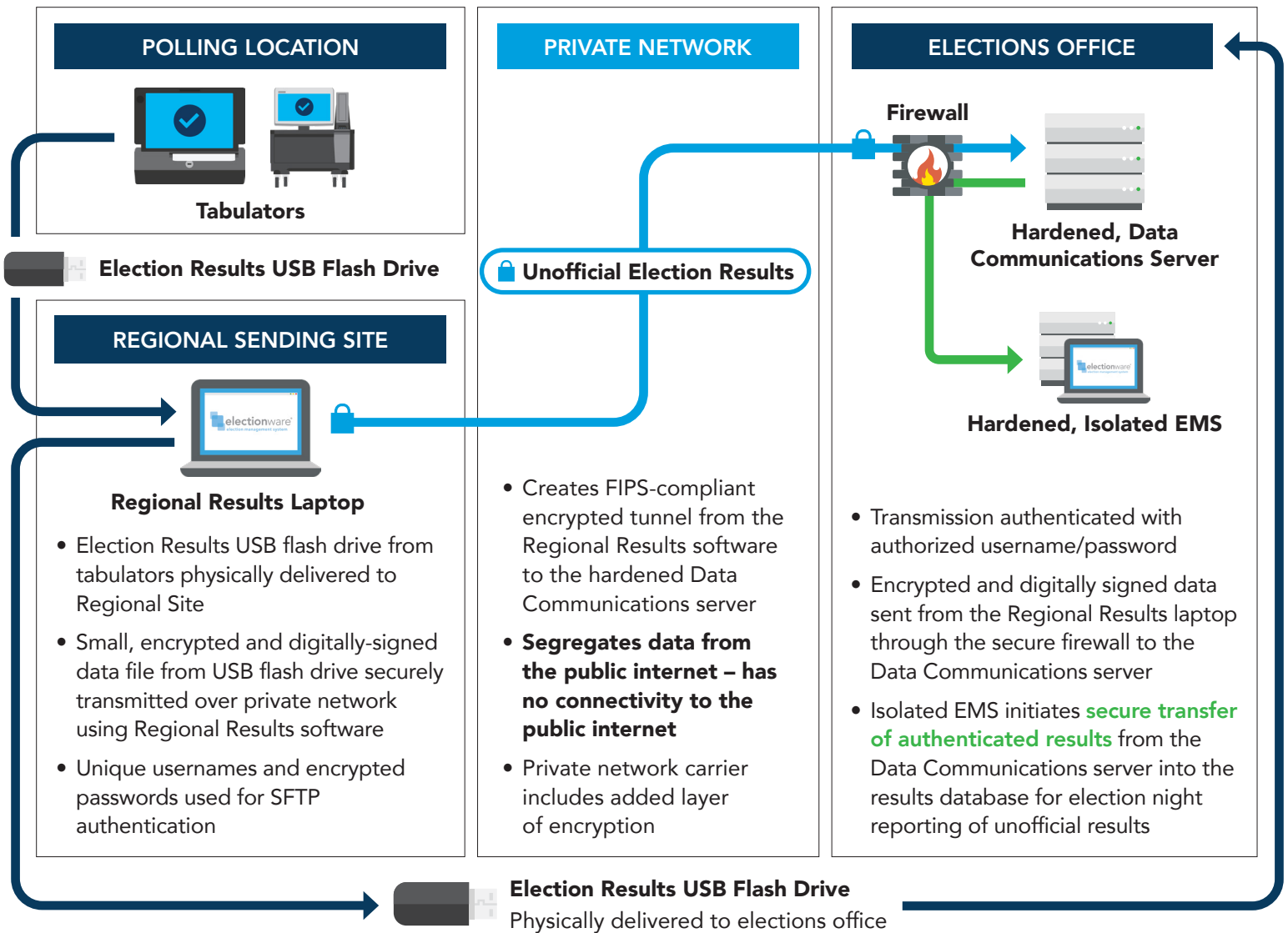
NOT ALL PRIVATE NETWORKS ARE THE SAME

ES&S' private network configurations are specifically designed for high-security applications in critical infrastructure environments. By design, public access does not exist with this architecture, resolving any concerns that voting systems are exposed to outside access. These configuration solutions have been tested by state election authorities and federally accredited voting system test laboratories, certified by multiple states, and proven in several implementations.

ZERO TUNNEL PRIVATE NETWORK



REGIONAL RESULTS PRIVATE NETWORK



HOW DOES THE PRIVATE NETWORK WORK?

- When a modem is provisioned on a private network, it is authenticated and authorized to ensure that it has been deployed for private network access. The modem is set up with specific feature codes to provide the proper level of authorization onto the private network.
- In addition to specific feature codes, each private network is assigned a unique access point name to ensure that only the provisioned modem communicates within the private network.
- Each private network is built with specific network configurations assigned to network IP addresses which are assignable only to authorized devices. The private network isolates the data from the public internet and communicates only to devices that are included in the private network.
- Each private network is built with a dedicated connection. By having a dedicated private network connection, no data is routed outside of the customer specified private network, which reduces concerns over data security.
- The private network uses a secure network protocol to enhance security measures by authenticating and encrypting all data.
- By design, the private network has no communication outside of the specified and authorized devices on the network. The private network operates on a hub-and-spoke configuration, where the private network device at the Elections Office securely communicates with the precinct tabulators at the polling location.