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Texas Technical Testing Matrix for Electronic Pollbooks

This document outlines the technical requirements for certification of an electronic pollbook device in Texas. The Technical Examination must be performed by a NIST-certified testing laboratory. The vendor must submit a copy of the Technical Data Package (TDP) to the testing lab, and the testing lab must assess the system's requirements with the Texas Technical Testing Matrix for Electronic Pollbooks. The vendor is responsible for any costs and fees associated with conducting these tests.

The vendor will satisfy this portion of the testing by submitting a test report from the testing lab demonstrating that the vendor provided the testing lab with a copy of the TDP and that the electronic pollbook system satisfies the requirements of the Texas Technical Testing Matrix for Electronic Pollbooks.

#	Application Requirements	Met	Not Met	Comments
1	Electronic Pollbook has been tested by an independent, NIST-certified testing laboratory			
2	Vendor has provided test lab with a full copy of Technical Data Package, including: • User Operating, Support, and Maintenance Manuals • Training Manuals and Instruction Guides			

		Met	Not Met	Comments
	• Recommended Use Procedures • Software License Agreement • Software System Design • Warranty Information • Recommended Security Practices • List of any known anomalies experienced with the use of the system and the resolution of those anomalies • List of compatible peripherals devices used with the system			
3	Vendor has provided any internal test reports and test data			
4	Testing lab must review any information that the vendor is required to provide to the testing lab under the Texas Certification Procedures and this Matrix			
#	**System Requirements**	Met	Not Met	Comments
5	Electronic pollbook is capable of importing and exporting data to and from the county voter registration database. If not using state voter registration database			
6	Electronic pollbook is compatible with all peripheral devices listed in TDP.			
7	Electronic pollbook can export data in a format that is compatible with the statewide voter registration database			

8	All information on the electronic pollbook is encrypted			
9	Electronic pollbook is capable of storing a local version of the county official list of registered voters to serve as a backup			
10	Electronic pollbook is capable of producing an audit log that reflects all actions of the system			
11	Electronic pollbook must allow a voter to be accepted for voting during an interruption in network connectivity			
12	Electronic pollbook must be capable of generating a time-stamp for when each voter is accepted to vote at a polling place, including the voter's unique identifier (VUID)			
13	Electronic pollbook must be capable of transmitting a time-stamp for when each voter is accepted to vote at a polling place, including the voter's unique identifier (VUID)			
14	Electronic pollbook must be capable of time-stamping the receipt of a transmission of a time-stamp for when each voter is accepted to vote by another device, including the voter's unique identifier (VUID)			

15	Electronic pollbook must be capable of importing, collecting, storing, retrieving, and displaying voter information			
16	Electronic pollbook is capable of providing secure transmission of voter and election information to the county central database and to other electronic pollbook devices			
17	If a central database is used, then the data contained on that central database must be secured according to industry best practices and not be publicly accessible			
18	If the electronic pollbook is used for signature capture, then the electronic pollbook must be capable of interfacing with any peripherals used for that signature capture and must be able to display the signature on the electronic pollbook device			
19	The system must be able to manage any type of Texas election (local, county, federal, primary) and be able to manage multiple types of elections occurring simultaneously on the same day			
20	Electronic pollbook must be capable of searching the county's official list of registered voters and relevant voter information to determine a voter's correct precinct and polling location			

21	Electronic pollbook must be capable of identifying the correct polling location for a voter who has appeared to vote at the incorrect location			
22	If the electronic pollbook uses a barcode scanner or other device used to identify the voter based on information contained on a voter's ID, then the device must be capable of correctly collecting data from those forms of ID that may be scanned			
23	Electronic pollbook must allow an election worker to correctly identify a voter who appears to vote by searching the political subdivision's list of registered voters			
24	Electronic pollbook must allow an election worker to enter information indicating that the voter has voted in the election			
25	Electronic pollbook must be capable of uploading voter history in a format that is compatible with the county's voter registration database and/or the statewide voter registration database			
26	Electronic pollbook must be capable of correctly processing all voter registration information and producing audit logs for any actions that modify, transmit, or use that information			

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		Met	Not Met	Comments
27	Procedures for setup, use, and shutdown of electronic pollbook must be reasonably simple for election workers to learn, understand, and perform			
28	Electronic pollbook must allow election workers to verify that the pollbook has been setup correctly, is working correctly, and is correctly recording voter information			
29	Electronic pollbook must keep a running count of voters who have been accepted to vote each day			
30	If the electronic pollbook connects to peripheral devices responsible for preparing ballot styles or ballot tickets, the electronic pollbook must not allow the user to print multiple instances of the ballot using repeat commands.			
	Technical Requirements	Met	Not Met	Comments
31	Electronic pollbook must be capable of performing at least two of the following four actions: • Regularly syncing voter information with the county central database; • Storing voter information on local device; • Storing voter information on an encrypted removable memory device; or			

	• Producing a physical printed list showing any actions involving voter information by that device			
32	Electronic pollbook device must be able to operate on battery power for a minimum of two hours without interruption to the device			
33	Electronic pollbook device must provide an indication of when the device is operating on battery power			
34	Electronic pollbook system must contain controls for restricted access to administrative functions on the device			
35	Electronic pollbook system must never utilize an unsecured network connection			
36	Electronic pollbook must not directly connect to an electronic voting system			
37	Electronic pollbook must not directly connect to the statewide voter registration database			
38	Electronic pollbook must be capable of maintaining secure connectivity to the county central database, and must provide a notification to the election workers and to the central county office when a device loses connectivity			

39	System must maintain physical and digital data security protections			
40	Electronic pollbook device must not be capable of accessing device functions other than those that are part of the electronic pollbook system's own software or those that are designed to interact with the system			
41	If system allows multiple types of users, then it must enforce the principle of least privilege			
42	If the electronic pollbook device will be used for early voting or in a county using the countywide polling place program, then it must be capable of syncing with the county's central database in real-time			
43	The electronic pollbook must utilize a visual indicator or display to indicate that the system is responding to user action within a reasonable amount of time of the user action.			
44	The electronic pollbook system must demonstrate the ability to operate successfully for three consecutive hours at a rate of 60 check-ins per hour or at the vendor-reported device capacity. A successful test must show no system errors, negligible workflow delays, and uninterrupted real-time connectivity with the central server, inter-pollbook			

	connections, and peripheral device connections (if applicable). The system must continuously and accurately record voter transmission timestamps, maintain audit logs, and comply fully with all requirements outlined in the Texas Technical Testing Matrix for Electronic Pollbooks. Testing must include consecutive iterations of simulated voter check-ins, completing voter transactions with active use of peripheral hardware for each transaction.			
45	If a central database is utilized, the electronic pollbook vendor must conduct a capacity stress test on the central server to evaluate its ability to operate, process, and communicate updates with system devices during periods of high voter turnout. The test must be conducted based on the vendor's reported system capacity. If no capacity is reported, the simulation must test the system against 60,000 voter updates per hour. A testing lab overseeing the process must provide a comprehensive written analysis, detailing the test parameters, system performance, and any identified capacity limitations.			