



ALEX PADILLA | SECRETARY OF STATE | STATE OF CALIFORNIA
 OFFICE OF VOTING SYSTEMS TECHNOLOGY ASSESSMENT
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October 3, 2020

Timothy Vlach
 Tenex Software Solutions, Incorporated
 5402 W. Laurel St, Suite 206
 Tampa, Florida 33607

Dear Mr. Vlach:

The California Secretary of State’s Office of Voting Systems Technology Assessment received a request for administrative approval, pursuant to California Code of Regulations (CCR) section 20159, to apply modifications to the certified Tenex Precinct Central 4.1 electronic poll book system. CCR section 20159 provides that any change or modification to a certified electronic poll book system must be examined for conformance by the Secretary of State.

The Tenex administrative approval request contained eighty-nine (89) modifications. Thirty-four (34) modifications are not intended for use in California and are not to be deployed or utilized within California. Fifty-five (55) of the modifications are applicable to California and are as follows:

Type	Description
Update	Update to Precinct Central Touchpad Application v4.5.2.0
New Feature	Added iOS 13.7
New Feature	Added Voter Assistance Workflow Changes
New Feature	Added Provisional Voter Parameters
New Feature	Added Vote Type Parameters
New Feature	Added Additional Voter Check-in Functionality
New Feature	Added Additional Poll Worker Information Capture Functionality
New Feature	Added Support for New Languages
New Feature	Made Improvements to Delta File
New Feature	Added Push Notifications for Error Codes and Registration Updates
New Feature	Added Wait Time Barcode, and Wait Time Notification Functionality
New Feature	Added Epson Printer Configuration Functionality
New Feature	Added Early Voted and Already Voted Message Tags
New Feature	Added Ability to Customize Address Search, Ballot Accounting Complete, and Location Messages
New Feature	Added Display Time in Header, and Voter Check-in Totals in Footer
New Feature	Added Request Assistance Menu Item
New Feature	Added Log Reprint Capability
New Feature	Added Registration Now Prompts
New Feature	Added Final Sync Message
New Feature	Added Vote by Mail Replacement Workflow
New Feature	Added Ballot Return Workflow
New Feature	Added Close of Election Button
New Feature	Added Ballot Style Update During Party Change Capability
New Feature	Added Selected Date to Totals Printout
New Feature	Added Conditional Voter Registration Workflow
New Feature	Added Birth Year Format for Voter Update
New Feature	Added Ability to Save Updates for Absentee Voters
New Feature	Added Red Asterisk (*) to Indicate Required Entry Fields

New Feature	Added Parameter on Issue Ballot Screen Forcing User to Select a Ballot Type
New Feature	Added Delete via Push Notification Functionality
New Feature	Added Parameter to Turn Off Ability to Reissue a Ballot from a Spoiled Ballot
New Feature	Added Warning Message for Final Ballot Allowed Under Spoiled Ballot Process
New Feature	Added Out of County Voter Workflow
New Feature	Made Ballot Style Labels, Font for Paper Oath, and Signature Message Boxes Customizable
Fix	Fixed Absentee Surrender for Provisionals Workflow
Fix	Fixed iPad to iPad Data Transmission Functionality
Fix	Fixed Voter Not Found Workflow Printing Inconsistency
Fix	Fixed Voter Assistance Workflow Not Selecting Ballot Type
Fix	Fixed Printed Fields Declared Printing Inconsistency
Fix	Fixed Oath Font Sizes on Voter Signature Screen
Fix	Fixed Assistance Requested and Address Update Flags
Fix	Made Assistant Signature Screen Match Voter Signature Screen
Fix	Added Voter Not Found/Search Again Button to Address Search
Fix	Fixed Voted String Not Appearing in Search Results When Scrolling
Fix	Fixed Voter Update Flag Remaining when Update Canceled
Fix	Fixed Invalid Address Not Tracking When Selecting Back During Ballot Assigning Step
Fix	Added Missing Information to Sideways and Central Server Voter Update Messages
Fix	Stopped Transmission of Voter Update History when Central Server OFF
Fix	Fixed Invalid Address Message for Address Changes During Non-Countywide Elections
Fix	Fixed Wrong Location Eligibility to Accept Regular Check-In
Fix	Fixed Update Voter Information Functionality for Wrong Location Provisional Voters
Fix	Fixed Manually Device Registration Functionality
Fix	Fixed Pop-Ups Auto Disabling Due to iOS
Fix	Fixed iPad to iPad Connectivity Information Inconsistency
Fix	Fixed Instant Messaging Not Auto Refreshing

Examination of this system was conducted by the State’s technical consultant SLI Compliance with oversight by Secretary of State Staff. Regression Testing, Volume Testing, Source Code Review, and Security and Telecommunications Testing were performed by SLI Compliance from August 6 to September 23, 2020. The following four (4) discrepancies were identified during testing:

Discrepancy	Vendor Mitigation/Response
Strict transport security not enforced.	Tenex will disable the http binding in the web server to avoid any possibility of a mistake by October 15, 2020.
SSL Medium Strength Cipher Suites Supported (SWEET32)	Tenex will remove the IIS and Windows server registry settings supporting the medium strength ciphers by October 15, 2020.
Remote host supports the use of the flawed RC4 cypher in one or more cipher suites.	Tenex will disable the http binding in the web server to avoid any possibility of a mistake by October 15, 2020.
Remote service accepts connections encrypted using the flawed TLS 1.0 Protocol Detection.	Tenex will deprecate and remove legacy support for TLS 1.0 by October 15th, 2020.

Based on the testing conducted by SLI Compliance, administrative approval is granted with the following additional conditions:

- 1) By October 15, 2020, Tenex will address the discrepancies as noted in the table and provide written notice to the Secretary of State indicating that the mitigations have been implemented and are ready for verification.

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- 2) Jurisdictions utilizing an electronic poll book, in any election, shall create and have on file an emergency preparedness plan that outlines the processes and procedures to be followed by county officials and poll workers in the event of a failure of one or more of the electronic poll books. A copy of that plan shall be submitted to the Secretary of State no later than seven (7) days prior to its use in that election.
- 3) Tenex and/or jurisdictions using the electronic poll book system shall perform a complete Logic & Accuracy (L&A) testing of the end-to-end Precinct Central system prior to deploying the devices. This is to include but is not limited to election logic, applicable integration, all Precinct Central devices, and all peripherals.
- 4) Tenex and/or jurisdictions using the electronic poll book system shall perform testing of the designated connectivity solution at each voting location prior to deploying the devices to ensure adequate connection and capacity is present to support the intended function of the Precinct Central system.

The system was modified, and thus warrants a version number change. As such, the Precinct Central 4.1 system certified on December 16, 2019, with the above described modifications, is now version number 4.2. All conditions of the Precinct Central 4.0 electronic poll book system approval dated May 22, 2018, and the Precinct Central 4.1 electronic poll book system approval dated December 16, 2019, remain in effect.

Sincerely,



Susan Lapsley

Deputy Secretary of State, HAVA and Counsel