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Background

The Puerto Rico State Elections Commission (CEE, for its acronym in Spanish) will subject the Electronic Scanning System to be used starting with the 2027-28 Four-Year Electoral Cycle to acceptance testing prior to the Commission's certification of the System's acceptance. These Acceptance Tests will validate that the Scanning System proposed for Puerto Rico meets all the requirements established in the Request for Proposals (RFP). Therefore, the Acceptance Tests will be conducted before the System can be used in any election in Puerto Rico. The Acceptance Tests will be based on the requirements designated as (RA) provided in the RFP, the Technical Specifications, and any other requirements established as part of the contract between the company and the CEE.

This document presents a general outline of the Acceptance Testing process, describing it but not constituting the Acceptance Testing itself. This outline will serve as the basis for the eventual preparation of the final Acceptance Testing Protocol. The CEE reserves the right to add, modify, or consolidate tests after a detailed discussion with the company's team, once the contract is signed and the company is ready to begin development work on the required adaptations. The modifications to this outline will be incorporated into the final Acceptance Testing Protocol. The order in which the acceptance tests are executed may also be modified to expedite the process, but this does not imply that tests can be omitted. Similarly, some tests may be performed to fulfill the requirements of multiple test scripts.

All tests included in the Acceptance Testing Protocol must be successfully executed and must meet the expected results for the acceptance tests to be considered successfully completed.

Responsibilities


The responsibilities related to acceptance testing are as follows:

CEE

- Review and discuss with the company the scope and technical details of how to test compliance with the technical requirements to be tested as part of the Acceptance Testing.
- Develop the Acceptance Testing Protocol.
- Execute the Acceptance Tests.

Commission

- Approve the Acceptance Testing Protocol prior to its execution.

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- Provide personnel representing each commissioner to witness the execution of the acceptance tests.
- Certify compliance with the Acceptance Testing protocol once its execution is complete.

Company

- Provide all equipment and infrastructure as established in the project deliverables to confirm that the system is ready for the execution of the tests.
- Provide support to the CEE during the execution of the Acceptance Testing Protocol.

Testing Outline – Phase 1

Adjudication for General Elections

1.1.1. State Ballot

1.1.1.1. Straight Party Vote

This test will verify the scanning of straight party vote ballots and the scanning report.

1.1.1.2. Split Vote

This test will verify the scanning of split vote ballots, which includes votes by direct nomination, with over-voted candidacies, and the scanning report.

1.1.1.3. Candidacy Vote

This test will verify the scanning of candidacy vote ballots, including unvoted offices, overvoted offices, and votes by direct nomination, and will verify the scanning report. This test will also confirm voter interaction when interaction messages are generated.

1.1.1.4. Overvoting

This test will verify the scanning of overvoted ballots and verify the scanning report.


1.1.1.5. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.1.6. Protested Ballot Votes

This test verifies that the System identifies and informs the voter that the ballot is protested and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.1.7. Voting with ballot lacking initials

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This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

1.1.2. Legislative Ballot

1.1.2.1. Straight Party Vote

This test will verify the scanning of straight party vote ballots and the scanning report.

1.1.2.2. Split Vote

This test will verify the scanning of split vote ballots, which includes votes by direct nomination, for independent candidates, with overvoted offices, and the scanning report.

1.1.2.3. Candidacy Vote

This test will verify the scanning of candidacy vote ballots, including unvoted offices, overvoted offices, votes by direct nominations, and votes for independent candidates, and will verify the scanning report. This test will also confirm voter interaction when interaction messages are generated.

1.1.2.4. Overvoting

This test will verify the scanning of overvoted ballots and verify the scanning report.

1.1.2.5. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.2.6. Protested Ballot Votes

This test verifies that the System identifies and informs the voter that the ballot is protested and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.2.7. Voting with ballot lacking initials


This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

1.1.3. Municipal Ballot

1.1.3.1. Straight Party Vote

This test will verify the scanning of straight party vote ballots and the scanning report.

1.1.3.2. Split Vote

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This test will verify the scanning of split vote ballots, which includes votes by direct nomination, for independent candidates, with overvoted offices, and the scanning report.

1.1.3.3. Candidacy Vote

This test will verify the scanning of candidacy vote ballots, including unvoted offices, overvoted offices, votes by direct nominations, and votes for independent candidates, and will verify the scanning report. This test will also confirm voter interaction when interaction messages are generated.

1.1.3.4. Overvoting

This test will verify the scanning of overvoted ballots and verify the scanning report.

1.1.3.5. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.3.6. Protested Ballot Votes

This test verifies that the System identifies and informs the voter that the ballot is protested and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.3.7. Voting with ballot lacking initials

This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

1.1.4. Presidential Ballot

1.1.4.1. Candidacy Vote

This test will verify the scanning of ballots voted for each of the candidates and by direct nomination, and will also verify the report.


1.1.4.2. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.4.3. Protested Ballot Votes

This test verifies that the System identifies and informs the voter that the ballot is protested and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.4.4. Voting with ballot lacking initials

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This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

Adjudication for Primaries

1.1.5. Governor Ballot

1.1.5.1. Vote for pre-candidate

This test will verify the scanning of ballots cast for each of the pre-candidates and by direct nomination, and will also verify the report.

1.1.5.2. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.5.3. Voting with ballot lacking initials

This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

1.1.5.4. Protested Ballot Votes

This test verifies that the System identifies and informs the voter that the ballot is protested and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.6. Resident Commissioner Ballot

1.1.6.1. Vote for pre-candidate

This test will verify the scanning of ballots cast for each of the pre-candidates and by direct nomination, and will also verify the report.


1.1.6.2. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.6.3. Voting with ballot lacking initials

This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

1.1.6.4. Protested Ballot Votes

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This test verifies that the System identifies and informs the voter that the ballot is protested and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.7. State District Representative Ballot

1.1.7.1. Vote for pre-candidate

This test will verify the scanning of ballots cast for each of the pre-candidates and by direct nomination, and will also verify the report.

1.1.7.2. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.7.3. Voting with ballot lacking initials

This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

1.1.7.4. Protested Ballot Votes

This test verifies that the System identifies and informs the voter that the ballot is protested and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.8. State District Senator Ballot

1.1.8.1. Vote for pre-candidate

This test will verify the scanning of ballots cast for each of the pre-candidates and by direct nomination, and will also verify the report.

1.1.8.2. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.


1.1.8.3. Voting with ballot lacking initials

This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

1.1.8.4. Protested Ballot Votes

This test verifies that the System identifies and informs the voter that the ballot is protested and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.8.5. Undervoted Ballot

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This test verifies that the System identifies and informs the voter that the ballot was voted for fewer candidates than the voter is entitled to vote for, and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.9. At Large Representative Ballot

1.1.9.1. Vote for pre-candidate

This test will verify the scanning of ballots cast for each of the pre-candidates and by direct nomination, and will also verify the report.

1.1.9.2. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.9.3. Voting with ballot lacking initials

This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

1.1.9.4. Protested Ballot Votes

This test verifies that the System identifies and informs the voter that the ballot is protested and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.9.5. Undervoted Ballot

This test verifies that the System identifies and informs the voter that the ballot was voted for fewer candidates than the voter is entitled to vote for, and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.10. At Large Senator Ballot

1.1.10.1. Vote for pre-candidate


This test will verify the scanning of ballots cast for each of the pre-candidates and by direct nomination, and will also verify the report.

1.1.10.2. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.10.3. Voting with ballot lacking initials

This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

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1.1.10.4. Protested Ballot Votes

This test verifies that the System identifies and informs the voter that the ballot is protested and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.10.5. Undervoted Ballot

This test verifies that the System identifies and informs the voter that the ballot was voted for fewer candidates than the voter is entitled to vote for; and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.11. Mayor Ballot (with municipal legislators)

1.1.11.1. Straight Party Vote

This test will verify the scanning of straight party vote ballots and the scanning report.

1.1.11.2. Split Vote

This test will verify the scanning of split vote ballots, which includes votes by direct nomination and overvoted offices, and the scanning report.

1.1.11.3. Candidacy Vote

This test will verify the scanning of candidacy vote ballots, including unvoted offices, overvoted offices, votes by direct nominations, and votes for independent candidates, and will verify the scanning report. This test will also confirm voter interaction when interaction messages are generated.

1.1.11.4. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.11.5. Protested Ballot Votes


This test verifies that the System identifies and informs the voter that the ballot is protested and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.11.6. Voting with ballot lacking initials

This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

1.1.12. Mayor Ballot (without municipal legislators)

1.1.12.1. Vote for pre-candidate

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This test will verify the scanning of ballots cast for each of the pre-candidates and by direct nomination, and will also verify the report.

1.1.12.2. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.12.3. Voting with ballot lacking initials

This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

1.1.12.4. Protested Ballot Votes

This test verifies that the System identifies and informs the voter that the ballot is protested and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.13. Municipal Legislators Ballot

1.1.13.1. Vote for pre-candidate

This test will verify the scanning of ballots cast for each of the pre-candidates and by direct nomination, and will also verify the report.

1.1.13.2. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.13.3. Voting with ballot lacking initials

This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

1.1.13.4. Protested Ballot Votes


This test verifies that the System identifies and informs the voter that the ballot is protested and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.13.5. Undervoted Ballots

This test verifies that the System identifies and informs the voter that the ballot was voted for fewer candidates than the voter is entitled to vote for; and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.14. Ballots with votes on both sides

1.1.14.1. Votes for pre-candidates on both sides

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This test will verify the scanning of candidacy vote ballots, overvoted ballots, undervoted ballots, direct nomination votes, and will verify the scanning report. These combinations will be performed with ballots voted on both sides of the paper. This test will confirm voter interaction when interaction messages are generated for either or both sides of the ballot.

1.1.14.2. Blank vote on one or both sides

This test verifies that the System identifies and informs the voter that the ballot is blank on one and both sides and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.14.3. Voting with ballot lacking initials

This test will confirm that the System does not accept ballots that do not contain marks in the area for the officials' initials and that it generates a message to inform the voter about said condition.

Adjudication for Plebiscite

1.1.15. Plebiscite Ballot

1.1.15.1. Vote for status option

This test will verify the counting of ballots voted for each of the options and will also verify the official record.

1.1.15.2. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.15.3. Overvoted Ballot

This test will confirm that the System identifies and informs the voter of a ballot that is marked by more than one option and will verify the scanning record when the voter decides to vote for the ballot with such condition.


1.1.15.4. Voting with ballot lacking initials

This test will confirm that the System does not accept ballots that do not contain marks in the area of the officials' initials and that it generates a message to inform the voter about said condition.

Adjudication for Referendum

1.1.16. Referendum Ballot

1.1.16.1. Vote for option

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This test will verify the scanning of ballots voted for each of the alternatives and will also verify the report.

1.1.16.2. Blank Vote

This test verifies that the System identifies and informs the voter that the ballot is blank and will also verify the scanning report when the voter decides to vote for the ballot with such condition.

1.1.16.3. Overvoted Ballot

This test will confirm that the System identifies and informs the voter of a ballot that is marked by more than one option and will verify the scanning report when the voter decides to submit the ballot in said condition.

1.1.16.4. Voting with ballot lacking initials

This test will confirm that the System does not accept ballots that do not contain marks in the area of the officials' initials and that it generates a message to inform the voter about said condition.

Component Tests

1.1.17. Transmission station Tests

1.1.17.1. Communication

This test will confirm that the transmission stations do not need to be connected to each other, nor do they require connections to the internal network or directly to the internet, and that it has a way to load the memory configuration through removable storage media.

1.1.17.2. Transfer Capacity

This test will confirm that each transmission station is capable of loading the individual configuration in the number of modules specified in the proposal and that the transfer speed meets the specifications.

1.1.17.3. Generation of removable storage media for primaries


This test will verify that the transmission station can save the primaries onto the removable storage media required for the precinct machines.

1.1.17.4. Generation of memory devices for elections

This test will verify that the transmission station can load the general election onto the removable storage media required for the precinct machines.

1.1.17.5. Operation of Transmission station – General Elections and Plebiscite

This test will verify the operation of the transmission station by transferring the data corresponding to each of the precinct machines to be used during

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the general election and the plebiscite onto removable storage media. This test will verify that the Transmission station has the capacity to generate the specified quantity of removable storage media per batch and within the specified timeframe.

1.1.17.6. Operation of Transmission station – Primaries

This test will verify the operation of the transmission station by transferring the data corresponding to each of the precinct machines to be used during Primary 1 and Primary 2 onto removable storage media. This test will verify that the Transmission station has the capacity to generate the specified quantity of removable storage media per batch and within the specified time.

1.1.18. Precinct Machine

1.1.18.1. Removable Storage Media

This test will confirm that the removable storage media required to operate the precinct machines function in accordance with the established procedures.

1.1.18.2. Power Supplies

This test will confirm the precinct machine's electrical connection to a standard 120 Vac outlet. This test will verify that the precinct machine's backup power source can keep the machine operational and processing ballots for at least two hours. This test will confirm the precinct machine's functionality by indicating that it is operating on its internal power supply.

1.1.18.3. Operation of removable storage media

This test will confirm the functionality of loading the configuration onto the precinct machine and the functionality of saving the results from a precinct machine after the election closes to removable storage media. This test will include the verification of the second physical storage medium, if applicable.


1.1.18.4. Touchscreen and graphical display

This test will confirm the operation of the touchscreen for use by both the official and the operator during the election and that it has graphic display capabilities.

1.1.18.5. Ballot processing speed

This test will verify that the precinct machine maintains the processing speed presented in the proposal even after the adjustments made to the firmware.

1.1.18.6. Integration with ballot box

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This test will confirm that the precinct machine integrates with the ballot box so that the ballots, after being processed by the machine, fall into the ballot box and are not available to the voter or election official unless the ballot box is opened by removing the physical controls.


1.1.18.7. Reading of voting marks

This test will verify that the precinct machine can detect voting marks made with ballpoint pen, pencil, and marker. Furthermore, this test will verify its ability to detect small marks no less than four square millimeters in area. This test will also verify its ability to read marks in the four corners and in the center of the recognition area.

1.1.18.8. Operation of precinct machine

This test will confirm that the precinct machine is capable of operating while adhering to the following operational sequence:

- *Verification that the precinct machine does not allow for processing ballots prior to its opening.*
- *Opening of precinct machine using security controls.*
- *Printing of zero report.*
- *Ballot processing.*
- *Attempted processing of ballots from a precinct not configured for the precinct machine.*
- *Precinct voting machine functionality when paused, which does not accept ballots while paused and requires an official password to resume the ballot processing without losing track of those already scanned prior to being paused.*
- *Closing of the precinct machine.*
- *Printing of scanning report.*
- *Transmission of results to the Result Reception and Dissemination System (Reydi System).*
- *Verification that the precinct machine does not allow for the processing of ballots after the precinct machine has been closed.*
- *Verification of the configuration making it so that the official is unable to print the results.*
- *Verification of the configuration of a precinct machine for several precincts.*
- *Verification of the functionality of the area for recognizing the initials of officials.*

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1.1.19. Central Machine

1.1.19.1. Power supply

This test will confirm the central machine's electrical connection to a standard 120 Vac outlet. This test will verify that the uninterruptible power supply (UPS) provided for each central machine is capable of keeping it operational.

1.1.19.2. Interface with the operator

This test will verify that the central machine provides an interface with the operator, which allows them to operate the System and configure the configurable parameters for each section or batch of readings.

1.1.19.3. Reading of voting marks

This test will verify that the central machine can detect voting marks made with ballpoint pen, pencil, and marker. Furthermore, this test will verify its ability to detect small marks no less than four square millimeters in area. This test will also verify its ability to read marks in the four corners and in the center of the recognition area.

1.1.19.4. Operation of central machine – Early voting mode


This test will confirm that the central machine is capable of operating while adhering to the following operational sequence:

- *Opening the central machine using the security controls.*
- *Printing of zero report.*
- *Entry of precinct, unit, polling station, and ballot box.*
- *Processing of ballots in different batches.*
- *Closing of central machine.*
- *Printing of scanning result.*
- *Transmission of results to the Reydi System.*

1.1.19.5. Operation of central machine – General scanning mode

This test will confirm that the central machine is capable of operating while adhering to the following operational sequence:

- *Opening of central machine using security controls.*
- *Input of identifier for precinct to be scanned.*
- *Printing of zero report for the selected precinct.*
- *Processing of ballots in different batches.*
- *Closing of central machine.*
- *Printing of scanning report.*
- *Transmission of results to Sistema Reydi.*

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1.1.20. Alternate results transmission station

1.1.20.1. Test of attempted transmission of results already transmitted

This test will confirm that the System warns about the transmission of results that have already been transmitted previously.

1.1.20.2. Results transmission report

This test will confirm the availability and accuracy of the results transmission report.

1.1.20.3. Connection security test

This test will confirm that the alternate results transmission System only works if it is connected to the CEE's private network.

1.1.20.4. Mid-transmission communication interruption test

This test will confirm that, if communication with the CEE's internal network is interrupted during transmission, the system will treat it as a failure to transmit and allow the transmission to restart. This test will also confirm that the operator interface has access to information regarding the transmission progress.

1.1.20.5. Functional test – Primaries Mode

This test will confirm the operation of the alternate results transmission station for both primaries in a concurrent manner.

1.1.20.6. Functional test – General Elections Mode

This test will confirm the operation of the alternate results transmission station for general elections in a simultaneous manner.

1.1.21. Ballot Box

This test will confirm the effectiveness of the ballot box assembly process and compliance with all its specifications.

Confirmation of File and Document Generation

1.1.22. Result transmission report


This test will confirm that the results transmission report can be generated.

1.1.23. Infrastructure design schemes

This test will confirm that connection diagrams, power supply, communications, and physical distribution of infrastructure components are received.

1.1.24. Specifications and documentation of requirements for the transmission of results from the precinct.

This test will confirm that the documents related to the technical requirements to be discussed with the wireless communication service provider to enable this

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communication between the Election Manager and the Precinct Machine were delivered.

1.1.25. Distribution files for each type of ballot.

This test will confirm receipt of the ballot distribution file, which will be delivered to the printing company once the CEE completes the information concerning ballot quantities.

1.1.26. Expected results files for logic and accuracy tests.

This test will confirm that the file with the expected results for the logic and accuracy tests is received.

1.1.27. Files of each one of the ballot variations

This test will confirm that the files required for printing ballots of each type are generated.

Testing Outline - Phase 2

Central Infrastructure Tests

1.1.28. Result reception tests

This test will confirm the receipt of results by the System from:

- *the precinct machines*
- *the alternate result transmission stations*
- *the central machines*

1.1.29. Test of the transfer of results for dissemination

This test will confirm the System's ability to transfer the results received from the scanning machines and alternate transmission stations to the Reydi System.

Operational Tests – General Elections

1.1.30. Electronically loading election data

This test will verify that the System is capable of loading the data coming from the Reydi System in order to work with primary configurations based on this data.


1.1.31. Viewer

1.1.31.1. Visualization of configuration contents

This test will verify that the visualization tool allows for the configuration to be evaluated.

1.1.31.2. Provision of Roles

This test will confirm that the visualization tool allows you to see the System role settings.

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1.1.31.3. Printing of ballots with the *visualization tool*

This test will verify that the visualization tool allows for printing each ballot with the relationship between the recognition area and the candidate, applicant, option or alternative, as the case may be.

1.1.32. File Generation for the Printing of Ballots

This test will verify that the visualization tool allows for printing each ballot with the displayed information related to the configuration content and recognition areas.

1.1.33. Logic and Accuracy Tests

1.1.33.1. Generation of expected results file

This test will confirm that the System can generate a file with the expected results for each of the precincts in logic and accuracy tests.

1.1.33.2. Scanning of logic and accuracy ballots

This test will confirm that the logic and accuracy ballots can be processed on the scanning machines.

1.1.33.3. Printing of results

This test will confirm that each scanning machine tested can print the scanning report in the expected format.

1.1.33.4. Comparison of results in report with expected results

This test will confirm that the scanning reports contain the expected results as provided.

1.1.33.5. Transmission of results

This test will confirm that the results received in the Reydi System match the expected results in the logic and accuracy test.

1.1.34. Scanning Machines

1.1.34.1. Opening of the election

This test confirms that the scanning machine has a functionality for opening the vote count that requires security controls.

1.1.34.2. Printing of zero report


This test will confirm that the scanning machine can print the zero report and that it can be reprinted if necessary.

1.1.34.3. Scanning of ballots in the four possible orientations

This test will confirm that the scanning machine can correctly scan ballots in all four possible orientations without affecting its speed.

1.1.34.4. Reading of ballots with votes on both sides of the sheet

This test will confirm that the scanning machine can correctly scan and count ballots with votes cast on both sides of the ballot.

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1.1.34.5. Processing speed

This test will use straight party vote ballots, split vote ballots, and candidacy vote ballots to then calculate the scanning speed in terms of seconds per ballot.

1.1.34.6. Pause of scanning

This test will confirm that the voting machine can be paused and that it will require entry credentials to allow it to continue operating.

1.1.34.7. Recognition of initials

This test will confirm that the scanning machine will not process ballots that have the area designated for the officials' initials empty.

1.1.34.8. Ballot image capture

This test will process several ballots on a scanning machine so that, after the election closes, the image files of the ballots can be obtained to confirm that the images match the scanned ballots. This test will confirm the availability of a report that details and provides access to these images.

1.1.34.9. Segregation or identification of ballots with specific conditions

This test will verify the functionality of the scanning machine to mechanically segregate or identify ballots (as the case may be) that meet a specific criterion.

1.1.34.10. Voter interaction messages

This test will verify the precinct machine's functionality to generate interaction messages for all the conditions configured in the election. As part of the test, the functionality of returning the ballot to the voter and accepting the ballot as voted will be verified.

1.1.34.11. Closing of election

This test will verify that, once the precinct machine is closed, it cannot be reopened, and that the precinct machine does not accept new ballots after it has been closed.


1.1.34.12. Closing of the process for specific ballot boxes

This test will verify the functionality of the central machine so that, once the election is closed for a particular ballot box, the central machine will not allow additional ballots to be processed for that same ballot box.

1.1.34.13. Printing of vote count report.

This test will verify that the precinct machine prints as many copies of the vote count report as required and that the report includes the specified content and format.

1.1.34.14. Disabling the printing of scanning report.

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This test will verify that specifically configured precinct machines do not print the vote counting report once machine is closed, either automatically or at the request of the official.

1.1.34.15. Transmission of results

This test will verify the ability of the precinct machines to transmit the results and that these are received in the Reydi System.

1.1.34.16. Multiple ballot boxes in a single scanning machine

This test will verify that precinct machines can be configured with the ability to scan ballots from any of the precincts and that they will be able to transmit the results segregated by ballot box counting unit.

1.1.35. Transfer of results to the EMS

1.1.35.1. Transfer from the transmission stations


This test will verify the ability of alternate results transmission stations to transfer results using the CEE's internal network and that these results are received in the Reydi System.

Operational Tests – Central Scanning

This test will simulate the operational conditions of mail-in voting (early voting and absentee voting) using a central machine that will scan ballots in batches from different precincts. During the test, the central machine will be paused several times after scanning multiple batches from multiple precincts to simulate the pauses that occur between operating periods over several days. The following processes will be verified: opening, batch scanning, pausing, resuming scanning after pausing, closing, printing the results, transmitting the results, and confirming receipt of the results in the Reydi System.

Operational Tests – Early Vote at Home Scanning

This test will simulate the operational conditions of early voting at home using a precinct machine with report printing disabled. During the test, the precinct machine will be paused several times after counting multiple batches of ballots from the same precinct, and the pause between operating periods will be simulated over several days. The test will verify the opening, ballot scanning, pause, resumption of scanning after pausing, closing, not printing the report, transmission of the results, and confirmation of receipt of the results in the Reydi System.

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Operational Testing – Scanning of Early Inmate Votes

This test will simulate the operational conditions of early voting for inmates. Several precinct machines configured to accept ballots from all precincts will be used. These machines will be configured so that they cannot print the scanning report and cannot transmit the results.

Alternate Transmission of Results

This test will simulate the operational conditions of election day at a regular polling station. During the test, the precinct machine will be opened, the zero report will be printed, ballots will be scanned, the machine will be closed, the scanning report will be printed at least twice, and the results will be transmitted using the alternate transmission station.

Precinct Machine Replacement

This test will simulate the operational conditions of the event day in a regular polling station when, due to a technical failure, it is necessary to replace the precinct machine and continue the counting process on a second precinct machine.

General Scanning

This test will utilize the central machines for a ballot count and for the scanning of ballots that were not counted during the night of the event. This test will open the central machine, print the zero report, scan the ballots, print the scanning report, and transmit the result to the Reydi System.

Integration with the Reydi System

This test will confirm the integration of the System with the Reydi System, which includes importing files to generate the ballots and the election, as well as the transmission of results to the Reydi System for dissemination.