



Ten of the Main Requirements that Made a New Voting System Design Necessary

1. Voting system must provide rapid and accurate vote counts and also provide a paper record of each ballot that can be verified by the voter and can be used in the event of a recount, a contest, or equipment failure. Voting system must produce a paper record that is voter verifiable and archivable for 22 months or more. These records must be produced using printers that are reliable, fast, low cost to operate, have simple methods for replenishing consumables, and are easy to replace.
2. Voting system must efficiently and cost-effectively manage the use of early voting, mega-voting sites, and election day vote centers.

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3. Voting system must provide a variety of methods for routinely auditing the accuracy and security of the system as a routine part of each election. Methods should verify that the software accurately recorded the ballot content and performed a correct count.
4. Voting system must eliminate voter intent questions on paper ballots before the ballot is placed into the ballot box. Voter must know how their vote is being recorded without relying on how a system might be interpreting their hand marks.
5. Voting system must have a secure and transparent method for ensuring voters are given the correct ballot format.

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6. Voting system must provide a system for giving maximum flexibility to voters with disabilities so that they can cast a secret ballot. When possible, the voting experience should allow adaptability with new technologies available for persons with sight, hearing, and/or mobility challenges.
7. Voting system must utilize hardware and components that are comparably priced to (or are) off-the-shelf, durable, reliable, fast, lightweight, and easy to replace. Warranty and maintenance costs on these products should be minimal. Ideally, the system will incorporate equipment that is available on state contract (or similar structure) thereby allowing greater price savings.

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8. Voting system must use software that is well designed, robust, and utilizes best security practices. It must provide functionality and flexibility to meet the needs of the administrator while being easy to use so that vendor involvement is not necessary in ballot creation, tallying, auditing, reporting, etc. Vendor must allow some type of review by a “red team” throughout development and when upgrades are offered to ensure quality and security requirements are being met. Software must be structured in modules with standard interfaces – for example, different modules for creating the ballot, tallying the ballot, creating reports, etc. (Modularity will give counties greater variety in selecting options best for their area and reduce the cost and time it takes to certify upgrades.) A plan for routinely and timely upgrading the software (for example, to fix bugs, improve functionality, and keep current with newer technology and operating systems) must be part of the proposal.

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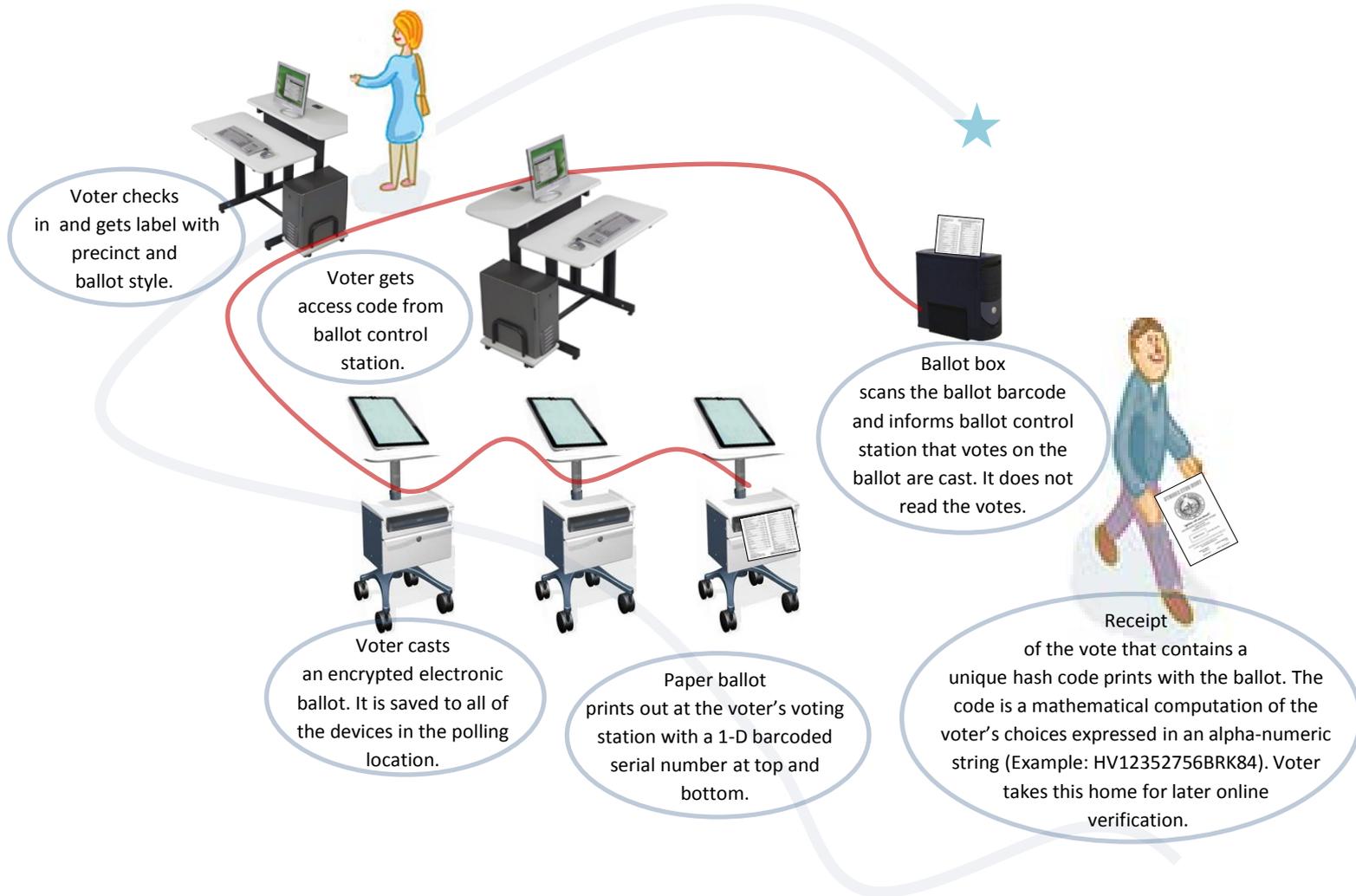
9. Voting system must have the ability to rapidly and easily produce reports that can be used by a wide variety of customers. Reports must be easily formatted (and reformatted) so that election night results can meet standard requirements for direct transmission to the media and agencies collecting data for a large number of jurisdictions. For example, hand re-entry of data should not be necessary for local, state, or national media or agencies for rapidly collecting election results.
10. Voting system must have reasonable purchase, maintenance, and support costs. Costs for the upgrade of software should be minimal or part of the maintenance agreement. Costs for replacing or adding hardware should be reasonable. Support services must have variety, depth, and reasonable costs. Current cost models on the market are not acceptable.

Travis STAR Voting System

Workflow Diagram



Voter Cast Ballot



Straight Party
PURP Purple

State Representative
PURP Anna Alpha

Governor
PURP Scotty Sole

Lieutenant Governor
PURP Cornelius Gemma

Attorney General
PURP David Dola

State Senator
PURP Eric Epsilon

Comptroller of Public Accounts
CLO Zida Zeta

Attorney General
PURP Denick Dola

State Senator
PURP Edith Epsilon

Comptroller of Public Accounts
CLO Zoro Zeta

Commissioner of the General Land Office
PURP Eida Eta

Commissioner of Agriculture
PURP Theodore Theta

Railroad Commissioner
PURP Orino Iota

Place 334, Justice, Supreme Court
NO SELECTION

Place 443, Justice, Supreme Court
NO SELECTION

Place 349, Justice, Supreme Court
NO SELECTION

Place 223, Judge, Court of Criminal Appeals
NO SELECTION

Place 352, Judge, Court of Criminal Appeals
NO SELECTION

Railroad Commissioner
PURP Iselle Iota

Place 334, Justice, Supreme Court
NO SELECTION

Place 667, Judge, Court of Criminal Appeals
NO SELECTION

District 589, Member State Board of Education
PURP Kevin Kappa

District 237, State Senator
NO SELECTION

Place 486, Justice, 33rd Court of Appeals District
PURP Larry Lambda

Place 334, Justice, Supreme Court
NO SELECTION

Place 667, Judge, Court of Criminal Appeals
NO SELECTION

District 589, Member State Board of Education
PURP Karla Kappa

District 237, State Senator
NO SELECTION

Place 486, Justice, 33rd Court of Appeals District
PURP Loisic Lambda

Travis County General Election continued

Precinct 148, Justice of the Peace
PURP Nancy Nu

District 147, State Representative
PURP Xona Xi

County Judge
PURP Osar Omicron

677, Judge
PURP Peggy Pi

Judge
PURP Rhoda Rho

District Clerk
PURP Samuel Sigma

County Clerk
CLO Teresa Tau

County Treasurer
PURP Uma Upsilon

District Clerk
PURP Solona Sigma

County Clerk
CLO Thomas Tau

County Treasurer
PURP Ulyssa Upsilon

County Commissioner
PURP Philip Phi

Railroad Commissioner
PURP Charles Chi

Supreme Court
Place 334, Justice, Supreme Court
NO SELECTION

Place 338, Justice, Supreme Court
NO SELECTION

Place 222, Judge, Court of Criminal Appeals
NO SELECTION

Place 155, Judge, Court of Criminal Appeals
NO SELECTION

Place 166, Judge, Court of Criminal Appeals
NO SELECTION

Place 332, Justice, Supreme Court
NO SELECTION

Place 534, Justice, Supreme Court
NO SELECTION

District 245, Member State Board of Education
PURP Rebriac Pi

Place 442, Justice, 33rd Court of Appeals District
PURP Orlando Omicron

Central Health Tax Retification Election

Proposition 1
For

Proposition 2
Against

Proposition 3
For

Austin Community College Board of Trustees Election
Place 7, ACC Trustee
Umbaro Upsilon

YOUR VOTE COUNTS



Thank you for voting!

Take this confirmation of voting with you

Verify your ballot at:

www.star-vote.org/ballot/

Enter this unique code:

HV1235Z7568RK84

Find your code on the STAR-Vote website to ensure that your vote was recorded correctly.

Look for election results and other tools for confirming the election at:
www.traviscountyelections.org

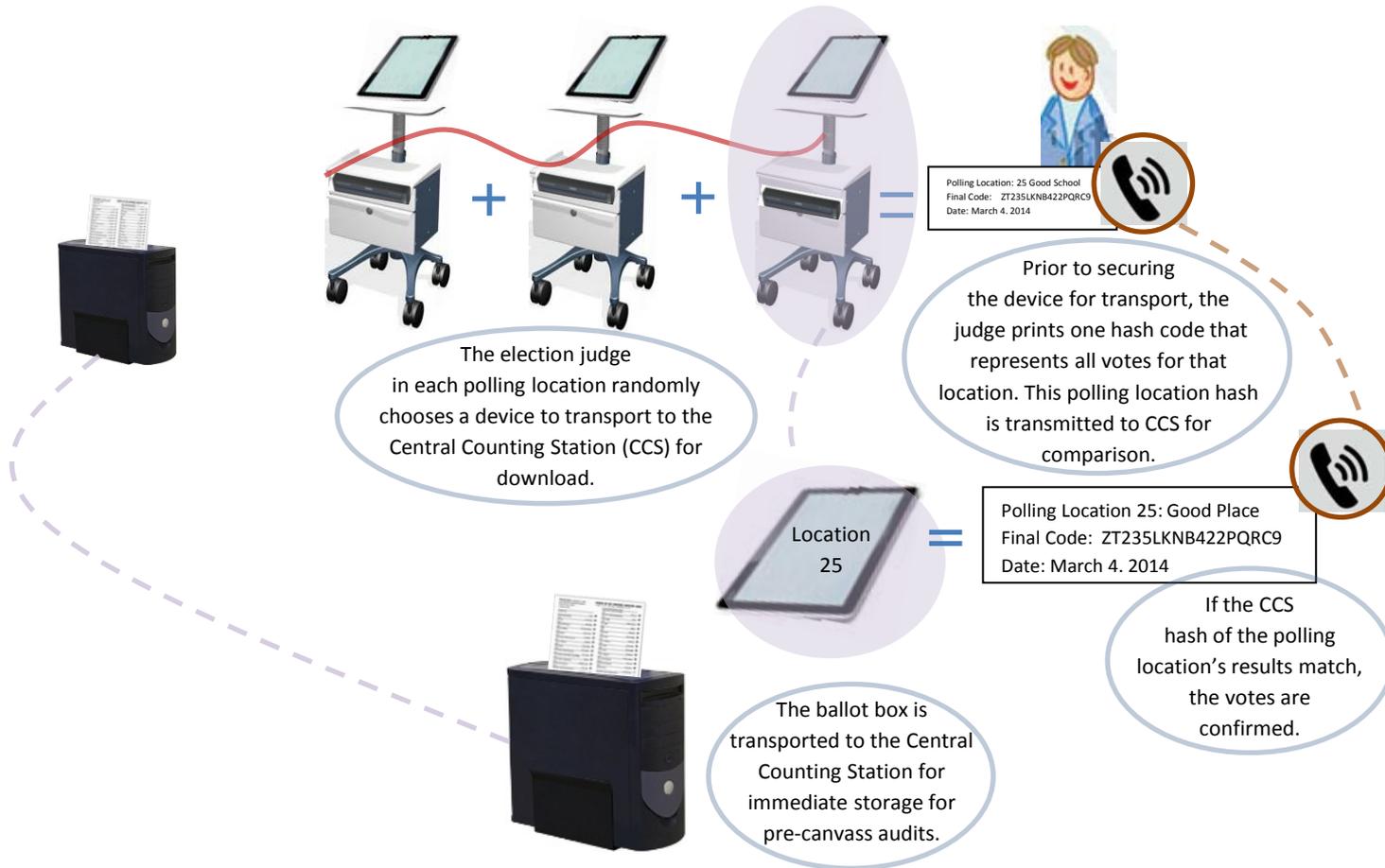
Voting Date: October 30,
2012

Location: Randall's
South Mopac

Voting Terminal: UI1 2345

Time: 18:45:36

Polls Close



Central Counting Station



A diverse group of Election Trustees are appointed and each given possession of a laptop. When a specified number of laptops are connected to the central tabulation computer, they act like a key to unlock and tally the encrypted ballots.

Final Total Code: ZT235LKNB422PQRC9
Date: March 4, 2014

If the CCS hash of the polling location's results match the posted hash total, the votes are confirmed.

Final Total Code: ZT235LKNB422PQRC9
Date: March 4, 2014

After all votes have been read into the system and results published, the central tabulation system creates a hash code for each cast ballot using the same mathematical computation that was used in the polling location. These computations are published online.

Verification

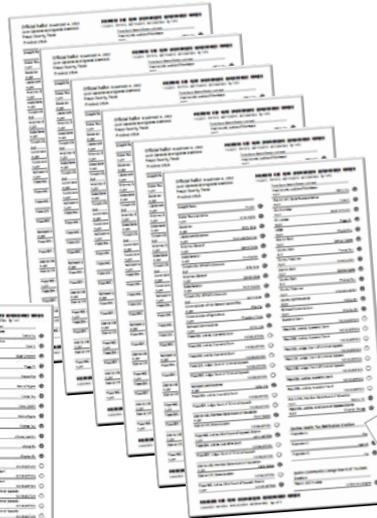


If a voter does not put a ballot in the ballot box, it is considered "spoiled," and becomes part of a live parallel testing process.

The voter can choose to take the ballot home to test the system themselves, or they can leave the ballot with the judge at the polling location. It is marked as "spoiled" and saved for parallel testing by the ballot board. According to Texas law, a voter can spoil 3 ballots.

After results are posted, the images of the spoiled ballots are posted online. A voter may match the retained spoiled ballot to the image online to prove that the system correctly recorded the electronic version of the ballot. Ballots not retained by voters are validated by the ballot board.

Risk Limiting Audit



After the election but before the canvass, the trustees reconvene at the final ballot board for late mail, accepting provisional ballots, and performing a risk limiting audit. Using a statistical model based on the number of votes cast and the margins in each race, a specified number of ballots are randomly pulled and the content of the ballots are matched up to their electronic counterparts. The correct number of trustees must be present to use their laptop “keys” to decrypt the specified electronic ballots. If all audited ballots match, there is a high statistical confidence that all ballots were cast and counted as intended.

