

**TENNESSEE VOTERS
FOR ELECTION INTEGRITY**

What we've learned after 2.5 years of voting machine research
in Williamson County that should make you nervous.

March 27, 2023

2

**TENNESSEE VOTERS
FOR ELECTION INTEGRITY**

WHAT HAVE VOTING MACHINES GIVEN US?

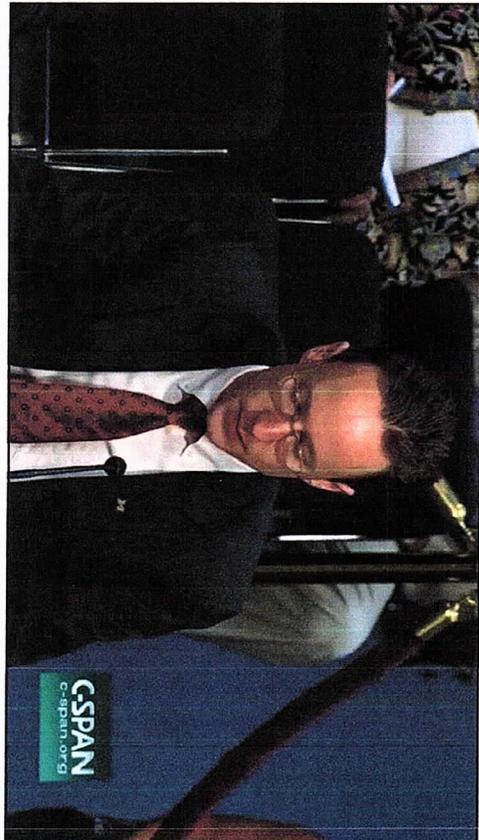
3

**TENNESSEE VOTERS
FOR ELECTION INTEGRITY**

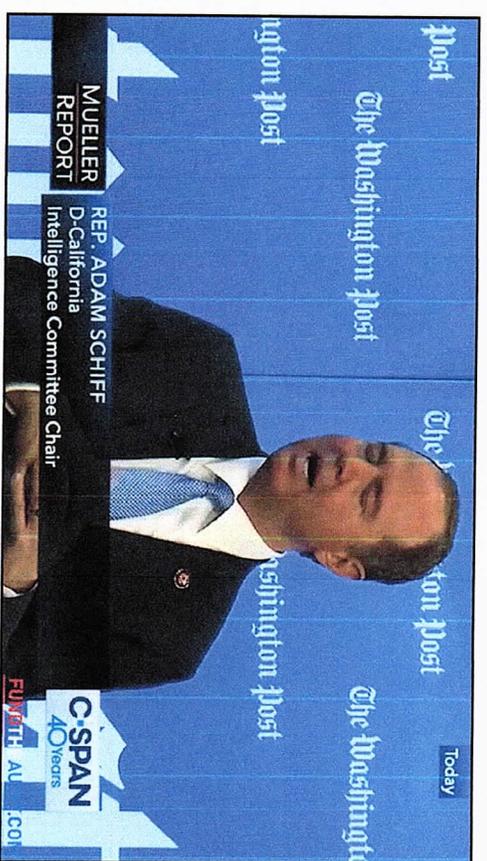
BROUGHT VULNERABILITIES INTO THE VOTING PROCESS

- J. Alex Halderman, University of Michigan, Computer Science, Engineering
- 15+ years forensic voting computer expert
- Expert witness

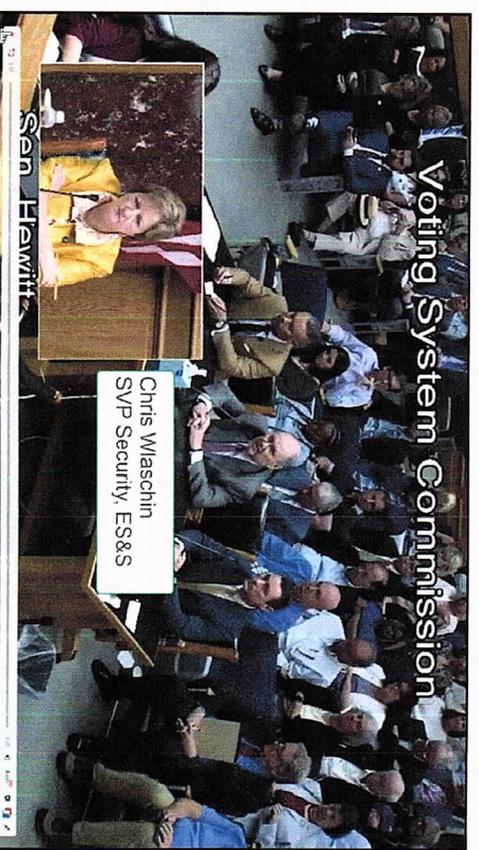
4



5



6



7



TENNESSEE VOTERS
FOR ELECTION INTEGRITY

VENDORS THAT MUDDLE INFO & WANT TO SELL MORE MACHINES

- Col (Ret.) Shawn Smith, U.S. Air Force
- 25 yrs. Missile & Space Defense Operations Systems
- Pentagon, Testing & evaluations, Weapon Systems

8

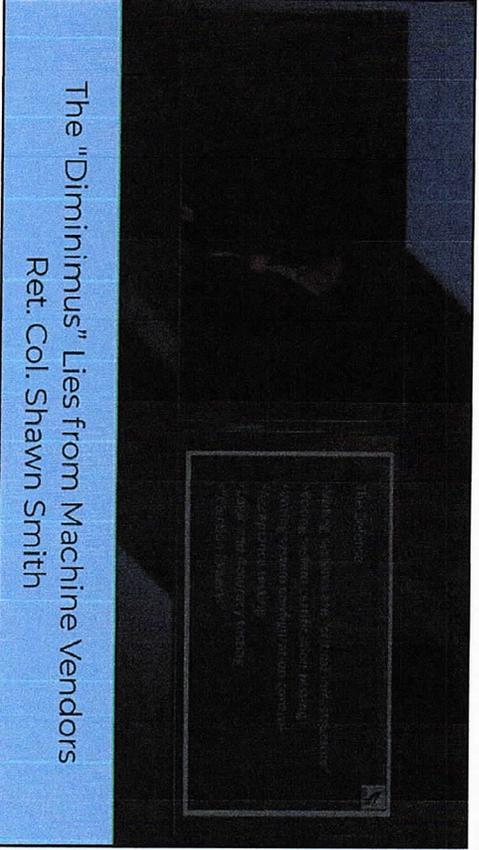


Telit Chip on the Motherboard of ES&S DS200
Ret. Col. Shawn Smith

9



10



12



11



TENNESSEE VOTERS
FOR ELECTION INTEGRITY

DEFINITIVE VULNERABILITIES THAT ARE BEING IGNORED

- **2023. Monmouth County, NJ**
 - ES&S machines double counted votes, gave losing candidate the win.
 - Later, ES&S admitted mis-programming error. recount loser now the winner.
- **2022. Maricopa County, AZ**
 - 40% machines passed set-up exams, day-long tabulation, printer problems.
 - Thousands disenfranchised
- **2021. Franklin Alderman election, TN**
 - Machines miscounted vote totals. BMD-tabulator software conflict.
 - Dominion employees bad programming, despite set-up, testing. **REMOVED**

13

TENNESSEE VOTERS FOR ELECTION INTEGRITY

VULNERABILITIES THAT ARE BEING IGNORED

- Common denominator: Machines and vendor employees.
- Whether by accident, hackers, programming mistakes, vendor actions... vulnerabilities are happening and they affect election results and citizen confidence in elections.

14

TENNESSEE VOTERS FOR ELECTION INTEGRITY

A VENDOR PRONE TO QUESTIONABLE ACTIONS – TRUST THEM?

- March 21, 2018 Senate Intelligence Committee: ES&S denied selling machines with remote access software, later recanted in letter to Sen. Ron Wyden.
- Told customers DS200 “Fully certified/compliant w/EAC guidelines” w/modem.
 - March 20, 2020 EAC letter to ES&S: “You’re misrepresenting certification.”
- Hardware based on Dell: Integrated Dell Remote Access Controller (iDRAC).
- Maury Co. Refused to sign affidavit re modems/connectivity in equipment.
- BMD/scanners utilize Java, subject to vulnerabilities. (Log4J, Spring4Shell)
- 2019 NBC News story ES&S CEO affirms parts from China in machines.

16

TENNESSEE VOTERS FOR ELECTION INTEGRITY

A VENDOR (ES&S) THAT DOESN'T SUPPORT TRANSPARENCY

- May 2022 inspection.
- No questions answered: Four VMs never returned. ES&S standard behavior
- Our questions proved our knowledge of voting machines and concerns for their vulnerabilities.
- Onus is on vendors/SEC – NOT THE PEOPLE
- are issue-free.
- TCA 2-9-101(b): Technicians must be able to inspect parts, machines
- No one in Tenn. allowed unfettered inspection of these machines to look for issues.

Let's talk more.

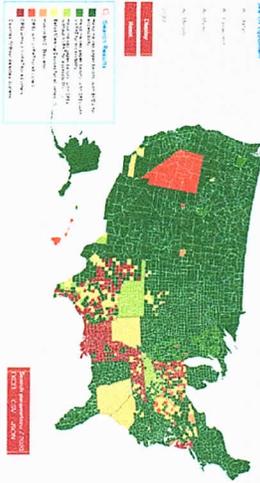
817-317-4625 • M-F 10a-5p
 414-241-1667
 ELECTION SYSTEMS & SOFTWARE

15

TENNESSEE VOTERS FOR ELECTION INTEGRITY

BMDs WHEN SHOULD HAVE HAND-MARKED PAPER BALLOTS

State gives false impression BMDs are the best option & hand-marked paper is not desirable.



69% w/low adjudication rates

Verified testing rates w/low adjudication rates

Green: J&J Paper Ballots
Red: Other BMDs

17



VULNERABLE BALLOT MARKING DEVICES (BMDs)

- Our studies prove BMD vulnerabilities:
 - "Sixteen reports, sixteen reasons and one-hundred-seventy-five footnotes why Ballot Marking Devices (BMDs) are a bad technology if you're concerned with election integrity." www.TennesseeElectionIntegrity.com/resources
 - **Can't purchase enough BMDs to accommodate an unpredictable crowd flow in vote centers/precincts.**
 - **Where are their studies saying BMDs are good?**

18



HERE'S ONE OF OURS...

- Here's one of our studies supporting our points: **Curling vs. Raftensperger**
- J. Alex Halderman, expert witness

Georgia voters face an extreme risk that BMD-based attacks could manipulate their individual votes and alter election outcomes. ... Georgia can eliminate or greatly mitigate these risks by adopting the same approach to voting that is practiced in most of the country. Using hand-marked paper ballots and reserving BMDs for voters who need or request them. Absent security improvement such as this, it is my opinion that Georgia's voting system does not satisfy accepted security standards.

*Halderman August 2, 2021 declaration, document 433, page 24

19



FORCED INTO VOTER CENTERS

- **Runs counter to Tennessee Constitution Article IV, Section 1: Vote in precincts.**
- In 2021 the US Supreme Court upheld an Arizona law that in-person Election Day votes must be cast in precincts, not vote centers. (Browlich vs. DNC)
- **Rely on more tech to pull up the right ballot for voters.** Not so in precincts.
 - Now adding more machines to accomplish that.
- Voter Centers **require internet connection to all voter centers**
 - VPN – but high security companies spending billions – hacked.
 - See our Resources tab whitepaper – VPNs more vulnerable.
 - Our vote is a precious commodity.

20



GOVERNMENT ENTITIES THAT AREN'T PROTECTING CITIZENS

- **EAC certification process worthless** as Shawn Smith said.
 - No cybersecurity expertise on team. **2005 Standards are pre-historic.**
- Our Franklin machines were certified by EAC... still glitched.
- **SEC doesn't inspect machine security, rely on EAC only.**
 - Despite April 5, 2021 promise to check out machines, they refused.
 - Everyone clueless about Hart Windows upgrade in January 2022.
 - Write paper on both.

21



CONCLUSION

22



DESPITE THESE DOCUMENTED, FACTUAL CONCERNS...

- We know that:
 - Machines and vendors are untrustworthy and secretive.
 - They will not allow unfettered inspections by independent sources of their vulnerable machines on which we're forced to vote.
 - No one is protecting citizens from machine hazards that affect elections.
 - Pro-machine supporters can't point to false information from the experts and facts presented here.
 - Not dis-information or mis-information.....
 - Where do election commission allegiances sit? Citizens or machine vendors?

23



LESSONS LEARNED: ASK QUESTIONS!

WHY ARE WE BEING FORCED TO USE MACHINES ON WHICH TO VOTE WHEN THERE ARE ACCEPTABLE ALTERNATIVES?

WHY IS NO ONE LISTENING TO CITIZENS?

DO WE WANT TO FULLY SECURE OUR ELECTIONS OR JUST CONTINUE TO FOLLOW THE VULNERABLE STATUS QUO?

24



TENNESSEE VOTERS
FOR ELECTION INTEGRITY

www.TennesseeElectionIntegrity.com

25