

# Is Internet Voting Technically Feasible?

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# Internet Security is Really Hard

- Office of Personnel Management
- Sony
- Target
- etc.

# Internet Voting is Even Harder

- If money disappears from my bank account, I can tell.
- If compromising photos or emails are leaked, I can tell.
- If my credit card is used fraudulently, I can tell.
- If my vote is changed, I have no way to tell ...  
and neither does anyone else.

# Internet Voting in DC

“ ... ”

versus

‘ ... ’

# End-to-End Verifiable Elections

- E2E-verifiable election technologies have existed for more than 30 years.
- They allow voters to check for themselves that their votes have been counted properly...
  - even in the presence of careless or malicious personnel and/or equipment.

# STAR-Vote

Travis County (Austin), Texas is building the first large-scale E2E-verifiable election system.

- This will dramatically improve the integrity of elections.
- It democratizes the process by allowing voters to check for themselves and not have to trust election officials and equipment vendors.
- It reduces costs by using off-the-shelf equipment.

# E2E-Verifiable versus Internet?

The U.S. Vote Foundation just completed a nearly two-year study on using E2E-verifiable technologies for Internet voting.

Some major conclusions:

- *Any Internet Voting system should be E2E-verifiable.*
- *E2E-verifiable voting systems should be deployed for in-person scenarios before Internet scenarios.*