BMD Vulnerabilities Validated by CISA

1. **Safe Mode Is Accessible and Allows Installation of Malware**
   (CVE-2022-1742)

2. **Terminal Is Accessible and Allows Installation of Malware**
   (CVE-2022-1741)

3. **Anyone Can Forge County-Wide Poll Worker Cards**
   (CVE-2022-1746)

4. **Anyone Can Forge Voter Cards That Allow Infinite Voting**
   (CVE-2022-1747)

5. **Anyone Can Forge Technician Cards for All BMDs That Allow Installation of Malware**
   (CVE-2022-1745)

https://www.cisa.gov/news-events/ics-advisories/icsa-22-154-01

BMD Vulnerabilities Validated by CISA

6. **Alt-Tab Allows Installation of Malware**
   (CISA Advisory Section 2.1)

7. **Inadequate Application Signing Allows Installation and Spreading of Malware**
   (CVE-2022-1739)

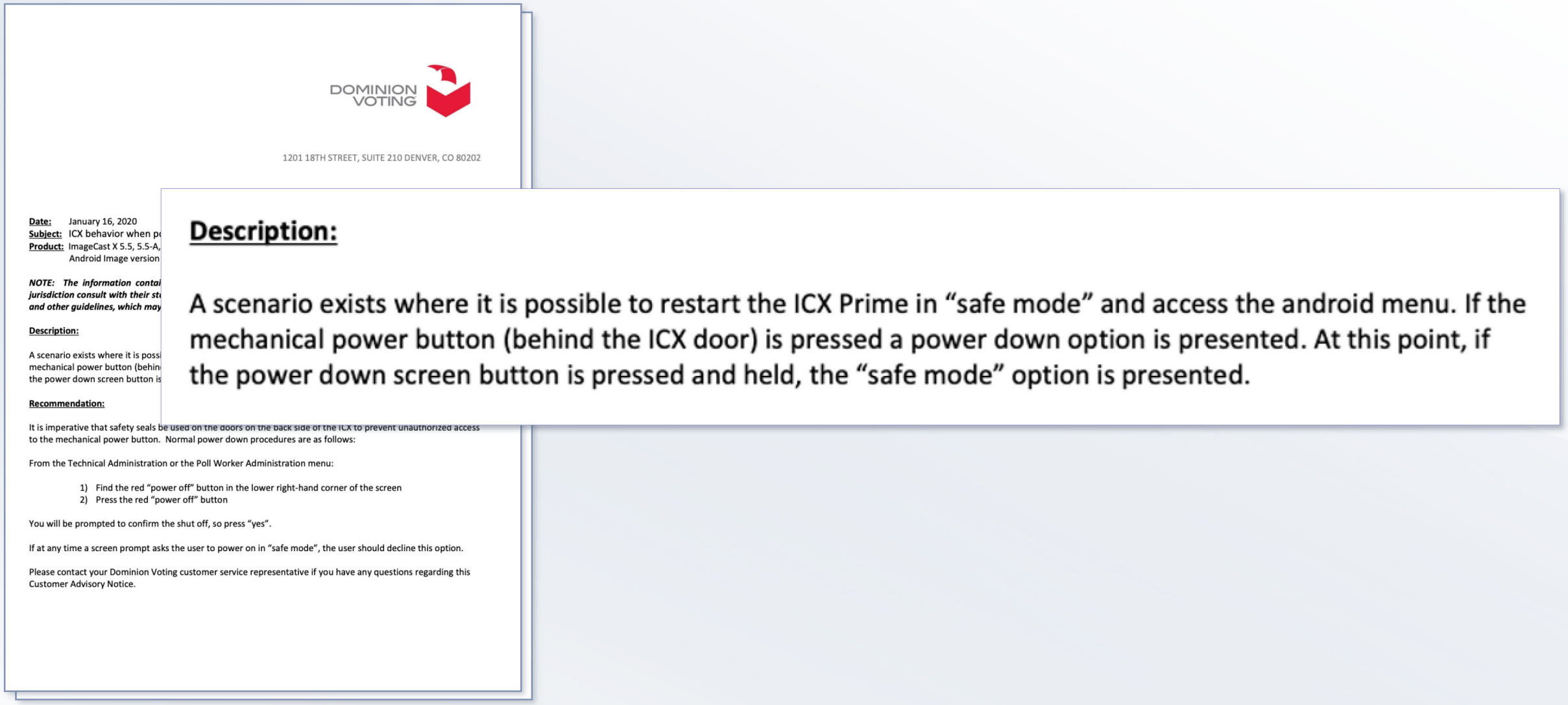
8. **Zip Slip Vulnerability Allows Malware to Spread from EMS**
   (CVE-2022-1743)

9. **Malware Can Obtain Superuser Access**
   (CVE-2022-1744)

10. **Ineffective Hash Verification Allows Malware to Hide**
    (CVE-2022-1740)

https://www.cisa.gov/news-events/ics-advisories/icsa-22-154-01

Dominion Customer Advisory



DOMINION VOTING

1201 18TH STREET, SUITE 210 DENVER, CO 80202

Date: January 16, 2020
Subject: ICX behavior when p
Product: ImageCast X 5.5, 5.5-A,
Android Image version

NOTE: The information contai
jurisdiction consult with their st
and other guidelines, which may

Description:

A scenario exists where it is possi
mechanical power button (behin
the power down screen button is

Recommendation:

It is imperative that safety seals be used on the doors on the back side of the ICX to prevent unauthorized access to the mechanical power button. Normal power down procedures are as follows:

From the Technical Administration or the Poll Worker Administration menu:

1) Find the red "power off" button in the lower right-hand corner of the screen
2) Press the red "power off" button

You will be prompted to confirm the shut off, so press "yes".

If at any time a screen prompt asks the user to power on in "safe mode", the user should decline this option.

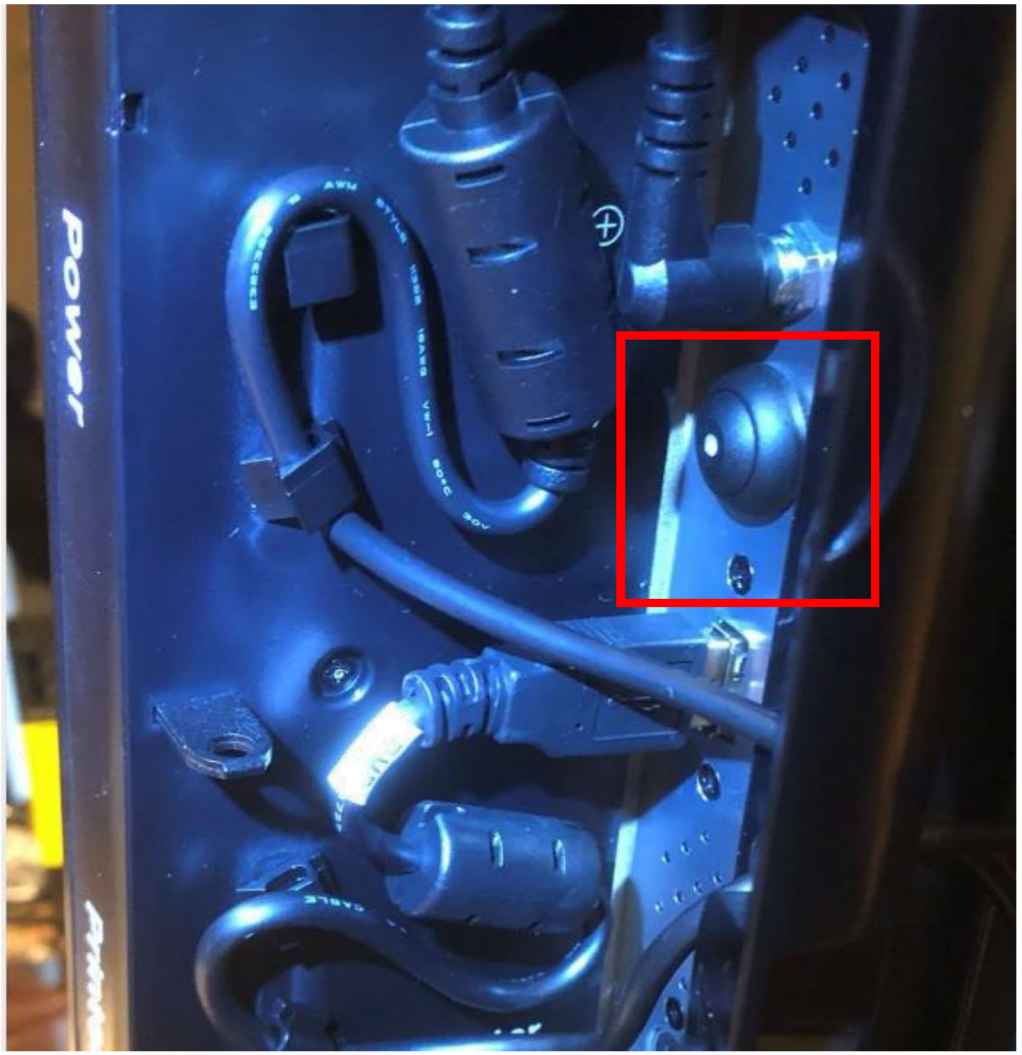
Please contact your Dominion Voting customer service representative if you have any questions regarding this Customer Advisory Notice.

Description:

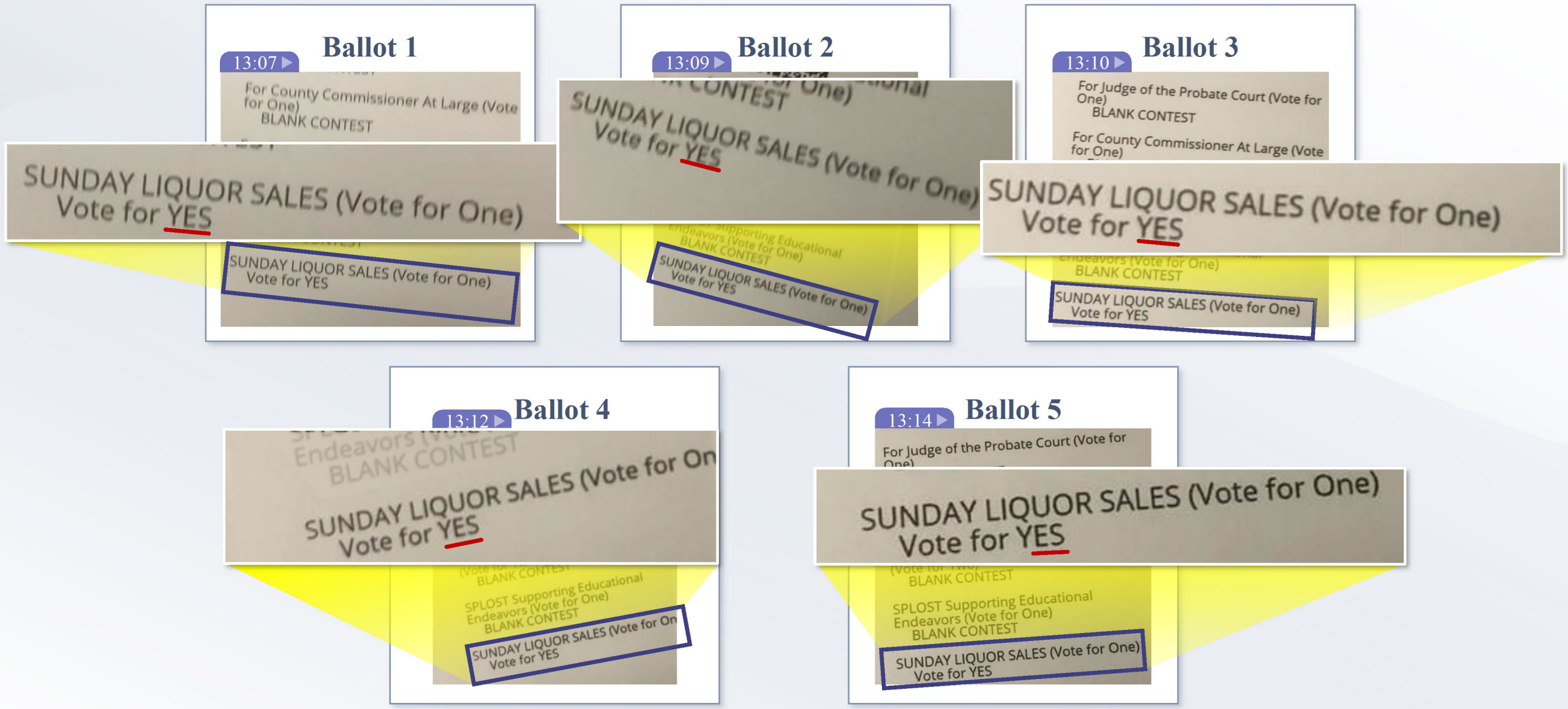
A scenario exists where it is possible to restart the ICX Prime in "safe mode" and access the android menu. If the mechanical power button (behind the ICX door) is pressed a power down option is presented. At this point, if the power down screen button is pressed and held, the "safe mode" option is presented.

Halderman, p. 15, Figure 2

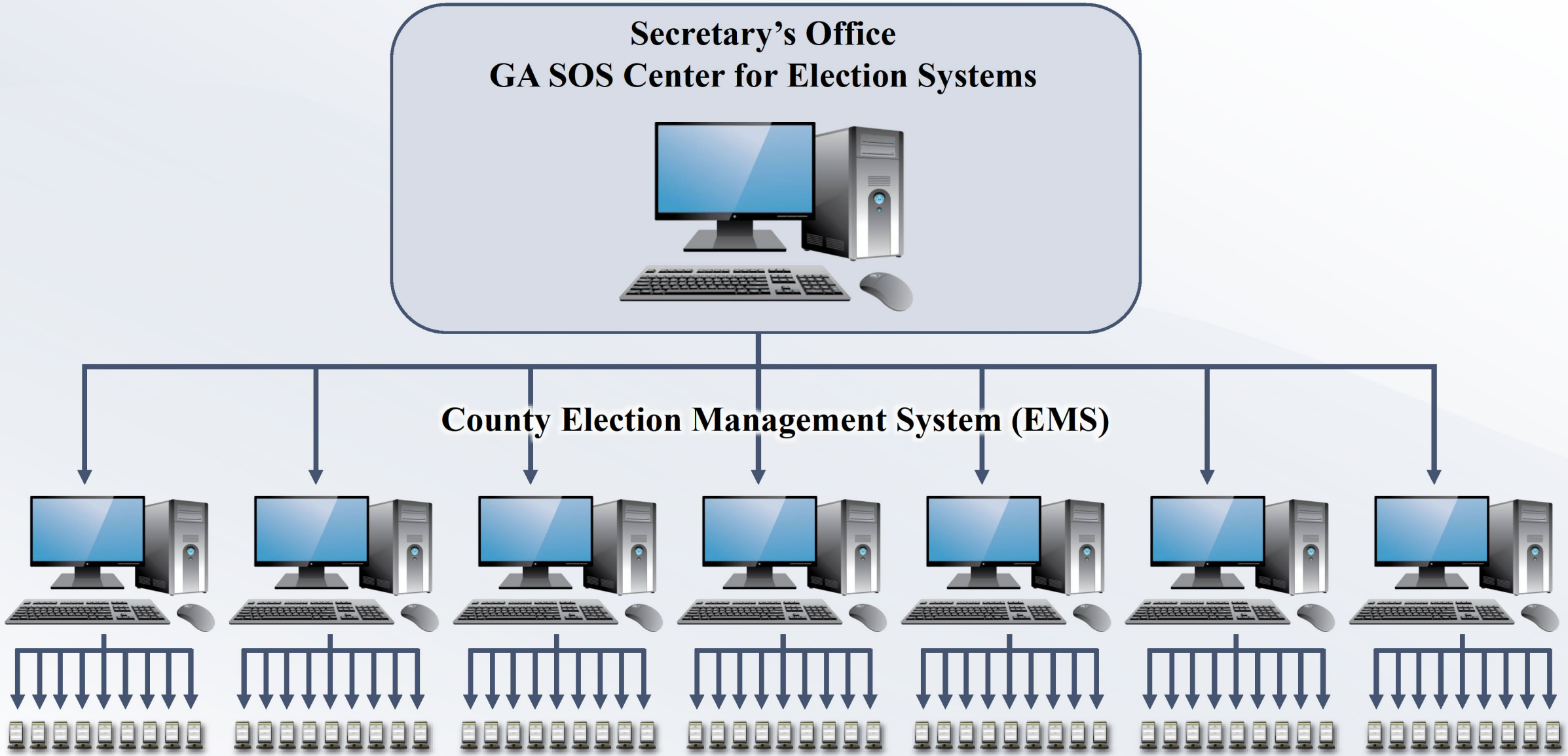
BMD Power Button



Printed Ballots



State Distribution of Election Data



Vulnerabilities in Georgia County EMSs

1. Shared Windows account password
2. User account has Administrator access
3. User account has direct database access
4. Unencrypted hard drives
5. Lack of BIOS password
6. Unpatched Windows installation no security patches in four years
7. Antivirus software was over one year out of date
8. Vulnerable to known USB vulnerability