



DENVER
THE MILE HIGH CITY

Denver Elections – Cybersecurity

Discussion with Elections Assistance Commission
October 4, 2017

Before Election Day

- Validation of PC configuration
 - Antivirus
 - Hardening (Group Policy Object GPO, e.g., screen lock)
 - Patch level
- Penetration Test
- Network Hardware Configuration
- WiFi Scanning
- Training
- AUP Attestation – Acceptable Use Policy
- Software Change Freeze (before and after election)

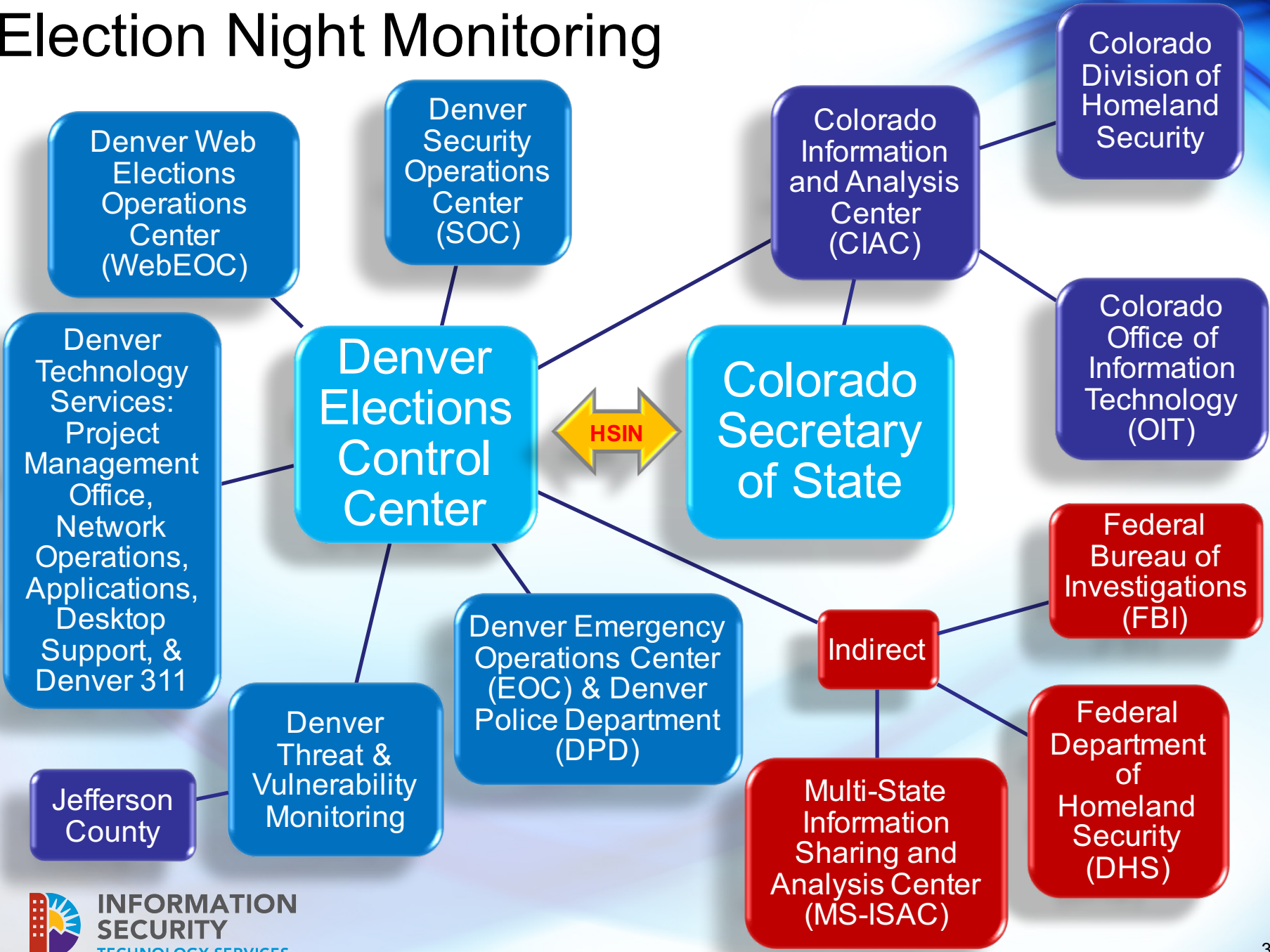
Trustwave Blog



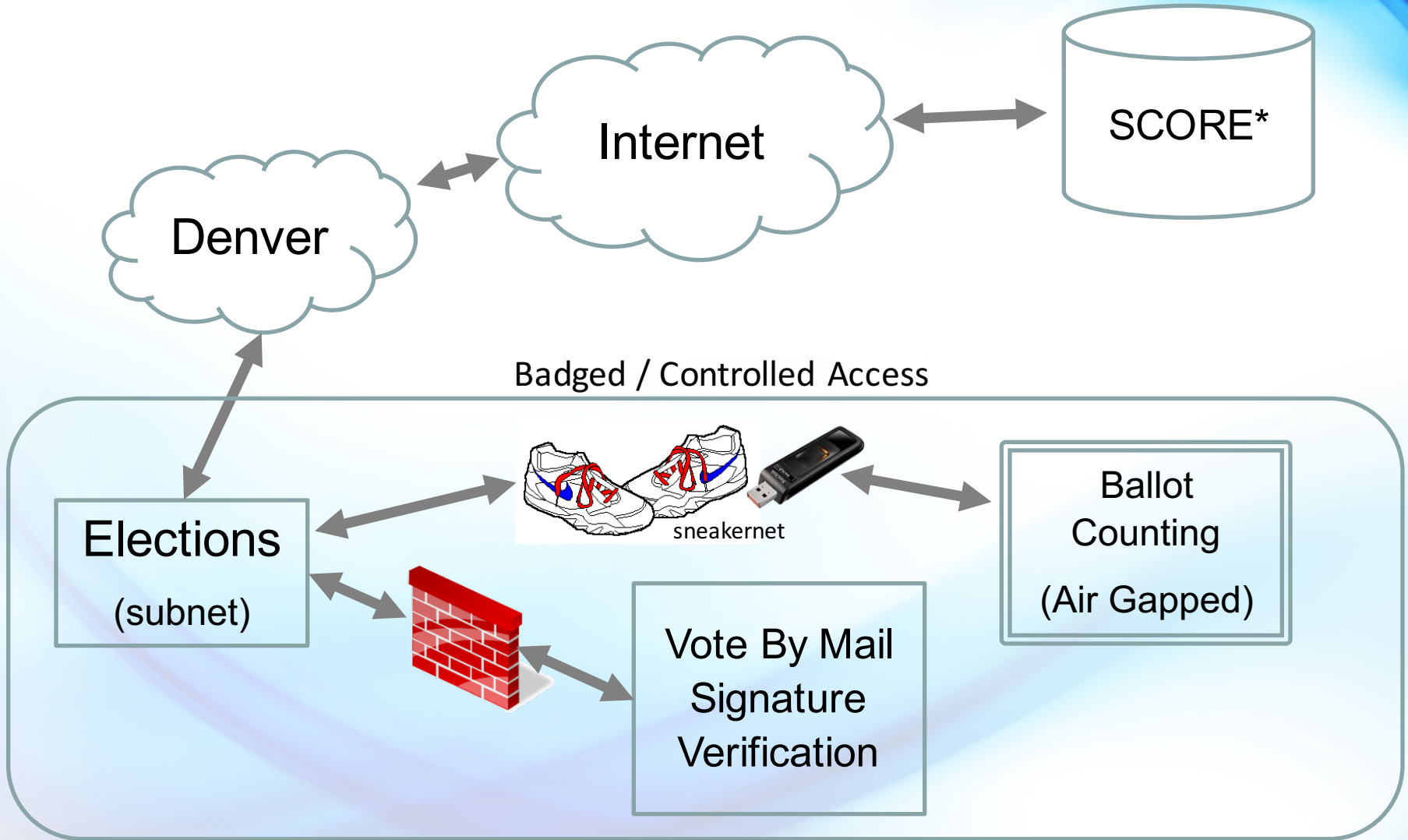
Customer Spotlight:
How One Major American City Got Serious About Securing Elections

October 26, 2016 | Posted By: [Dan Kaplan](#) | Comments (0) ↻

Election Night Monitoring



Elections Network Segmentation



Monitoring Technologies

- **HSIN Portal** - Homeland Security Information Network
 - Like a WebEx with Screen Sharing, but approved for govt use
- **SCORE**: Statewide Colorado Registration and Election system – statewide network performance monitoring
- **SolarWinds & OP5** – Network node status (Denver)
- **QRadar** - Security Event & Information Management (SEIM) – log monitoring (Denver)
- **WebEOC** - Web Elections Operations Center – Voter Service Center monitoring (Denver)
- **ELK** - Elasticsearch, Logstash, and Kibana
- **Geofeedia** – location based analytics platform – didn't work out

Monitoring Technologies – continued

- Bridge line
- Listserv
- List of names and cell numbers
- SMS Text Messaging
- Face to Face Status

Homeland Security HSIN Portal

The screenshot displays a web browser window with the URL https://share.dhs.gov/co_election_it_sitaware/?launcher=false. The interface is divided into several sections:

- Attendee List (21):** Lists participants including Bernadette Pasillas, Charli Buyalski, Chris Schock, craig.buesing, Deborah Blyth, Debra Crowley 2, James Torres, Jeffrey Holmes, John Hubbard (Broomfield), Julie Sutton - Denver, Page Jeffery, Stephen Coury, and Todd Holmes.
- Election News and Events - Craig Buesing:** Features a world map with green dots, an 'Active Users' bar chart, a 'Network Contribution' bar chart, and an 'Activity' bar chart at the bottom.
- Colorado Election Events:** A large grey area with the text "Nothing is being shared."
- Chat log (Everyone):** Contains messages from Deborah Blyth, Trent Parker, Trevor Timmons, James Torres, and Jerry Eastman.
- Threat Information - CDOS Threat Report (Schliep):** A dark area with a mouse cursor.
- Conference Bridge.pdf:** A white area with the text "Conference Bridge:" and a blue hatched rectangular box.

Election Day

Denver Mayor Michael Hancock

