Secure Data Commons Security Capabilities

Why is Security so important?

The Secure Data Commons (SDC) provides a secure data science platform that enables collaborative research involving moderately sensitive data and creates an outstanding climate of support for traffic engineers, researchers, and data scientists. Example of Security actions the SDC is taking:

- Multifactor Authentication

- Disabled Clipboard Functionality

- Component patching process to deploy updates (e.g., Python and Java upgrades)

- Enhanced backup/recovery plans for data lake and data warehouse

- Annual Security Assessments

- Authority to Operate (ATO) Approved

> "Easy to get data in, but hard to get data out of the SDC" - *Highly Automated Systems Safety Center of Excellence (HASS COE) Researcher*

Security Outcomes

- ATO Approved
- Export Controlled Data
- Prevent account takeover
- Adhere to compliance requirements
- Secure long term distributed/remote access
- Fine-grained access control

SDC's Solution

The SDC has the capability to store and analyze sensitive data with fine-grained secured access controls and secure data export processes. Additionally, data cannot leave the SDC without approval from a Data Steward to prevent data leakage. The SDC provides access to authorized users through a data use agreement with revocable access terms to protect the sensitivity of the data.

Technology-forward organizations that have used SDC to evolve their research

| HASS COE | HSIS | FRA ARDS | FAA Genomics | Waze | CVP |