SYMMETRY SYSTEMS

WHITEPAPER

How DataGuard helps with CSA STAR Compliance

An Introduction to the Cloud Security Alliance (CSA) and CSA STAR

The Cloud Security Alliance (CSA) is the world's leading organization dedicated to defining and raising awareness of best practices to help ensure a secure cloud computing environment. The CSA maintains the Security, Trust, Assurance and Risk (STAR) program, an ecosystem of cloud security standards and certifications, auditor training, a public registry of certified organizations, and a third-party network of auditors and certifiers.

Who needs to comply with CSA STAR?

Compliance with CSA STAR and being listed on the STAR registry has fast become a mandate for all organizations operating in the cloud and looking to increase trust, regardless of the cloud environment. Organizations looking to get listed on the registry are required to undergo an assessment of the security controls they have implemented.

There are multiple assessments and certifications available: Level 1 and its variations, requires self assessment. Level 2 and its variations, requires a third party audit. The variations of Level 2 of STAR allows organizations to build off of other industry certifications and standards to make them specific for the cloud.

What are the control requirements of CSA STAR?

CSA STAR leverages the CSA Cloud Controls Matrix (CCM) - a cybersecurity control framework composed of 197 control objectives, structured in 17 domains covering all key aspects of cloud technology. The CCM also provides implementation and auditing guidelines, plus a catalog of continuous auditing metrics.

Are there specific requirements for data security?

Data Security & Privacy Lifecycle management is a specific domain within the CSA CCM. In addition, requirements related to data security are embedded in almost all control families and an essential consideration for organizations seeking both levels of the CSA STAR certification.

How DataGuard helps with obtaining and maintaining CSA STAR Certification

DataGuard makes compliance with previously complex requirements of the Data Security and Privacy Lifecycle domain easy. From Data Inventory, Data classification to Data Flow documentation, DataGuard can provide organizations with an accurate Data Access Graph that meets these requirements.

Utilizing only simple **read-only permissions**, DataGuard can provide:

- Monitoring and control of Sensitive Data Transfer and Data Location.
- Identification of Personal Data to meet Access, Reversal, Rectification and Deletion requests
- Assess the follow of data to ensure compliance with Limitation of Purpose in Personal Data Processing
- Identifying third parties involved in Personal Data Sub-processing
- Monitoring and Limitation of Production Data Use
- Assess data against defined Data Retention and Deletion requirements

Below table and legend summarizes how DataGuard could help to implement, monitor and audit those controls. DataGuard provides further support for 11 domains that are important out of 17 domains as outlined in **Appendix A**

✅ DataGuard performs the control

🔍 DataGuard helps audit the control

ℹ️ DataGuard provides background information

Control Title	Control ID	DataGuard Functionality		
Security and Privacy Policy and Procedures	DSP-01	✅	🔍	
Secure Disposal	DSP-02			ℹ️
Data Inventory	DSP-03	✅	🔍	
Data Classification	DSP-04	✅	🔍	
Data Flow Documentation	DSP-05	✅	🔍	
Data Ownership and Stewardship	DSP-06			ℹ️
Data Protection by Design and Default	DSP-07		🔍	
Data Privacy by Design and Default	DSP-08		🔍	
Data Protection Impact Assessment	DSP-09			ℹ️
Sensitive Data Transfer	DSP-10	✅	🔍	
Personal Data Access, Reversal, Rectification and Deletion	DSP-11			ℹ️
Limitation of Purpose in Personal Data Processing	DSP-12		🔍	
Personal Data Sub-processing	DSP-13			ℹ️
Disclosure of Data Sub-processors	DSP-14			ℹ️
Limitation of Production Data Use	DSP-15	✅	🔍	
Data Retention and Deletion	DSP-16		🔍	
Sensitive Data Protection	DSP-17	✅	🔍	
Disclosure Notification	DSP-18			ℹ️
Data Location	DSP-19	✅	🔍	

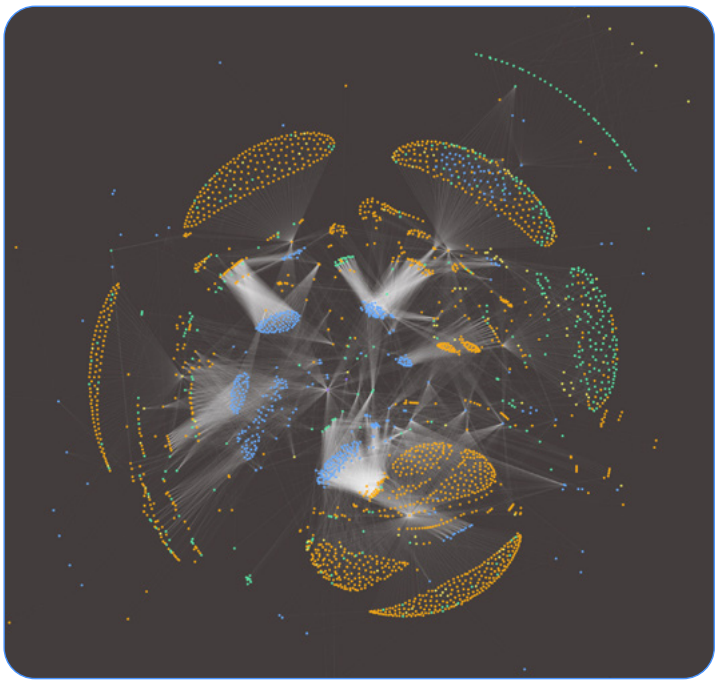
About Symmetry Systems DataGuard

Symmetry's DataGuard is a hybrid cloud data security solution that provides a data-centric approach to enable organizations to map, secure and track identity, permissions, and data flows – **at scale in multi-cloud environments** while providing unified visibility across these environments for cloud- and information security teams.

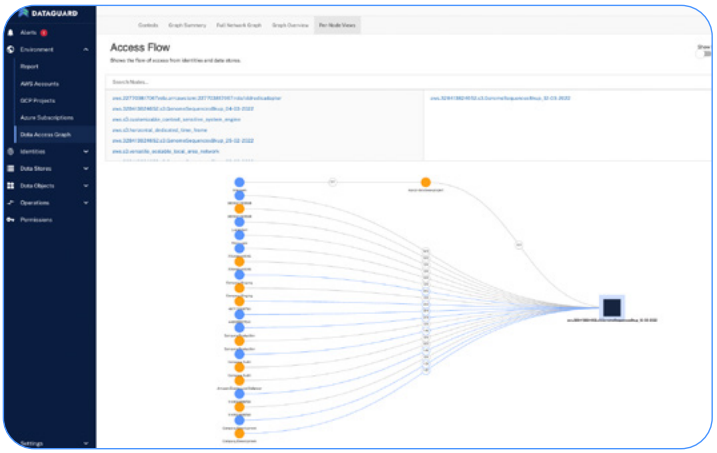
DataGuard provides a cloud **Data Security Posture Management (DSPM)** solution that unifies visibility into data objects across all data stores, answering data security and compliance questions that **traditional cloud security tools cannot.** For example, what data is affected by a compromised credential, or an exploited web-service, or an off-boarded analyst?

DataGuard enables cloud and security operations to understand and systematically control data risk -- **defining the path to zero trust for data** -- while baking in compliance and incident response. DataGuard provides actionable insights into your data flow, unlike the traditional, static views offered by legacy technologies.

Top-down view into your data environments: filter by **most Data Stores, Permissions or Identities**



Cutting-edge visualizations produced by DataGuard to help you visualise your entire environment, blast radius and more



Easily track data flows: both in and out of your environments with high accuracy

Supports a variety of integrations out of the box, so you can track IAM, Alerts and Evidence

Appendix : DataGuard and other controls in the CCM

CCM Domain	CCM Full Name	How DataGuard helps in meeting compliance?
A&A	Audit & Assurance	DataGuard provides support for a wide range of security standards, compliance framework and regulations for data protection, access management, system security and monitoring controls.DataGuard can be used to monitor and implement these standards.
AIS	Application & Interface Security	Symmetry's DataGuard provides identities and interfaces connecting to applications and helps to establish application security baseline. Also DataGuard helps in monitoring privileges attached to identities that connect to applications.
BCR	Business Continuity Mgmt & Op Resilience	DataGuard provides visibility into data backups and backup systems.
DCS	Data Security & Privacy Lifecycle Management	DataGuard provides an extensive set of metrics on data security. DataGuard provides data assets list, identities that have access to data and operations performed by identities over data stores. Also DataGuard has data classification identifiers such as PII, PHI, PCI, etc. that helps organizations to know the assets and implement adequate controls and processes based on data types.
DSP	Datacenter Security	DataGuard provides data assets inventory, data flow maps, data storage location/residency. DataGuard also provides data to conduct DPIA for CSA STAR and many privacy regulations. DG helps in getting data retention metrics.
GRC	Governance, Risk Management & Compliance	DataGuard provides a framework for organizations to adopt a wide range of security standards, compliance framework and regulations. DataGuard can be used to monitor and implement data protection, access management, system security and monitoring controls that are part of security and compliance standards.
IAM	Identity & Access Management	DataGuard provides a comprehensive overview of identity assets, roles and privileges of each identity. It also helps to monitor dormant identities, high privileged identities and provide real time alerts.
IVS	Logging & Monitoring	DataGuard helps monitoring data flow and communication across systems. It provides data to monitor and implement environment separations. DataGuard shows high risk environments based on many critical factors such as data classification, communication, residency, data volume and data access activities.
SEF	Security Infrastructure & Virtualization	DataGuard provides extensive metrics to safeguard data assets. DataGuard helps in incident response to quickly diagnose the cause of the security event/breach and plays an important role to block such incidents in the future by providing recommendations with supporting metrics.
STA	Supply Chain Management, Transparency & Accountability	DataGuard shows the list of 3rd party suppliers connecting to the organization's systems. DataGuard also shows the identities from suppliers accessing the data objects and stores and activities performed on data assets.
UEM	Universal EndPoint Management	DataGuard has comprehensive monitoring of cloud endpoints and data accessed by each endpoint. This helps organizations to review and implement DLP policies and procedures to safeguard data on cloud assets