

Secure and Accelerate the Joint Coalition Environment with Data-Management-as-a-Service

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In the contested peer environment, speed, mobility, and cyber assurance are more critical than ever. This is particularly true in the joint coalition environment. To ensure future success, joint coalition interoperability needs data-management-as-a-service to leverage a substantial data plane for rapid access to assets in information warfare. When enabled for this capability, identity-focused cyber assurances across the security domains enable all joint coalition partners to operate at full speed to access data for the mission while minimizing risks by using least privilege and secure identity controls to attribute data.

A cloud-enabled data-management-as-a-service solution addresses unique sets of challenges to support the joint coalition environment, including how to de-risk data exchange. To address this, data security controls, particularly for identity, need to provide agility and security for data access across multiple domains.

The data-management-as-a-service innovative approach to address these challenges must enable the following:

- Provide data presentation capability that can collect and present data in a joint coalition environment that is a data endpoint of an API function and maintains the identity chain of access metadata needed for cyber assurance of the mission.
- Deploy a hybrid cloud-based API processing function that can request the data security controls (confidentiality, integrity, and availability) from the API flow process to present data to the joint coalition environment.
- Initiate a zero-trust approach for access by leveraging governance requests and risk reviews of data attributes (ABAC attributes) used as authorization for access to abstracted data and data products.
- Provide data product (such as reports in PDF) sharing capability secured via ABAC attributes authorized via the identity governance flow.

Rapid and secure data access via a data-management-as-a-service solution is required for the future success of the execution of joint coalition interoperability. The capabilities described here would leverage all the data security functions and identity controls to provide rapid and agile access to the data visualization and data products needed to succeed in the joint coalition mission.