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Accelerate Mission Delivery with Data Management-as-a-Service in a Disconnected Environment

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Abstract:
In the maritime contested joint environment, speed and security of data access can mean the difference in operational success. To assure success for the joint maritime environment, a cloud-enabled data-management-as-a-service provides an innovative value by leveraging data plane for access to AI (artificial intelligence), data analytics and operational source assets in information warfare. As a part this capability, identity least-privilege to attributes access enables rapid and secure access to these resources while minimizing risks to operate at full speed of the mission.

A cloud-enabled data-management-as-a-service with identity least privilege solution addresses unique sets of challenges found in the joint maritime environment. Some of these challenges include how to de-risk data exchange and AI/ML data access in a potentially disconnected environment. To address these challenges, data identity security controls provide agility and security for data access across multiple domains.

The cloud-enabled data-management-as-a-service innovative approach to address these challenges must enables the following for the mission:

• Provide data presentation capability from AI/ML and operational sources that can collect and present data in a joint maritime environment using a data access endpoint of an API function. This data presentation optionally operates disconnected or connected 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 products (such as reports in PDF) sharing capability secured via ABAC attributes authorized via the identity governance flow.

Rapid and secure data access via a cloud-based data-management-as-a-service solution is necessary for the future success of the execution of information warfare for the joint maritime mission. 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 maritime mission.