

Federated Data Interpretation Systems Reference Architecture (FDIS-RA)

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Purpose of This Response

The Federated Data Interpretation Systems Reference Architecture (FDIS-RA) is a proposed response to the [Structured Information Processing Reference Architecture \(SIP-RA\) Request for Proposal](#).

FDIS-RA defines a platform-independent Reference Architecture for the governed interpretation, validation, comparison, and analysis of structured information artifacts in regulated and mission-critical environments. The architecture applies the separation of data, structure, semantics, and interpretation required by SIP-RA to federated systems that process reported information across organizational, jurisdictional, and technological boundaries.

The proposed architecture defines governed processing flows, explicit architectural boundaries, version-controlled interfaces, semantic and interpretive lifecycle controls, and traceability mechanisms that preserve evidentiary integrity and support reproducible interpretation. FDIS-RA provides the architectural response through which the SIP-RA requirements are realized for federated data interpretation systems without prescribing specific implementation technologies, products, transport mechanisms, or deployment topologies.

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