



Defense Digital Ecosystem Alliance

An independent, industry-led alliance supporting the Department of War.

A practical, federated mechanism for integrating, assessing, and validating digital-thread capabilities against identified Department needs.

What DDEA is: A neutral collaboration mechanism that brings together government organizations, industry, academia, infrastructure providers, and test communities to integrate, validate, and verify digital-thread capabilities in realistic mission and acquisition contexts.

Why DDEA is needed now

The operating gap • COTS technologies and digital engineering tools are often evaluated in isolation, not in multi-vendor mission contexts. • Interface failures, incompatible data/model exchanges, and evidence gaps are discovered late - after commitments harden.	The DDEA response • Federated test and integration patterns connect tools, models, data, applications, and services without imposing one platform. • Time-boxed pilots produce reusable evidence, interoperability profiles, and transition artifacts for real programs.
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What participants help deliver

Mission-thread integration packages Scenario-based representations of priority mission flows that reveal data, interface, and model seams before operational or acquisition risk.	Interoperability profiles and digital contracts Practical definitions for exchange formats, semantics, provenance, identity/access, model fidelity, and authoritative-data responsibilities.
Validation evidence packets Repeatable test cases, results, traceability, limitations, and residual-risk statements that improve confidence in digitally derived evidence.	Acquisition and transition playbooks Reusable patterns for requirements, data rights, evaluation, test planning, and transition into programs of record.

Why an industry participant would join

• Validate offerings and integration approaches in credible, multi-vendor mission and acquisition contexts. • Help shape reusable interoperability patterns and evidence methods before incompatible investments are embedded.	• Connect with systems integrators, primes, cloud/data providers, test organizations, and nontraditional contributors. • Contribute through focused, in-kind technical expertise, tools, or pilot support - not a product endorsement or exclusive arrangement.
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Initial operating model

1. Frame Government-sponsored mission or acquisition question; decision owner and security boundaries.	2. Architect Map mission flow, interfaces, authoritative data, model fidelity, and evidence needed.	3. Integrate Connect representative tools, data, models, applications, and services through a federated environment.	4. Validate & transition Review results; capture evidence, defects, constraints, and program transition actions.
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Participation principle: DDEA is open to qualified contributors that agree to its security, IP, competition, and conflict-of-interest rules. Participation does not confer Department endorsement, source-selection access, or procurement preference.

To explore participation:

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