ISTARI DIGITAL

THE ARPANET FOR ENGINEERING

Industry Øne Briefing

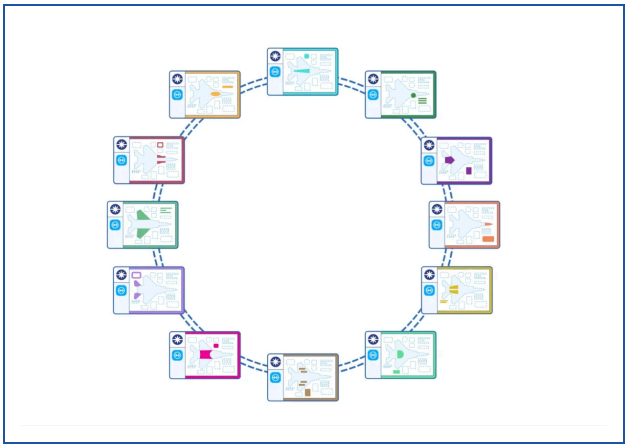
Collaboration across organizational boundaries — without centralizing data or sacrificing IP

> *"Integrating sensitive data without aggregating it in one system is a need spanning the Department."*
>
> — Dr. Will Roper

Industry Øne

Istari Digital established a team of 15 aerospace and defense organizations — industry and FFRDC/UARC participants — to support a one-year OTA effort with the DAF Digital Transformation Office, titled **Industry Øne**. The effort was established to solve a persistent industry challenge: how to collaborate across organizational boundaries without centralizing data or sacrificing IP. Announced in May 2026 with the DAF Digital Transformation Office, it is the first time a small business has orchestrated engineering data across industry silos at this scale.

- **Connected tools, not centralized data:** each participant works in their own environment and shares only what they choose.
- **Proven through a realistic mock use case:** a full UAV system design spanning all member organizations — unclassified and non-proprietary throughout.



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MEMBER ORGANIZATIONS

Each member connects their own tools and works in their own environment, sharing only the outputs they choose — never the underlying data.

Notional, to show capability.

Use Case and Models

A mock UAV system design, created specifically for Industry Øne. Each participant owns their domain and works in their own environment, sharing outputs but never underlying data.

- **Context:** UAV system design with an EM payload and a variety of cross-domain design-and-analysis activities.
- **Modeling:** basic models developed across Creo, NX, Nastran, Catia, Ansys HFSS, Excel, and MATLAB.
- **Collaboration:** domain responsibilities assigned by tool availability and connectivity constraints.

FOUR STAGES

One full design lifecycle

Participants own their assigned domains and work in their own environments across all four stages.

Stage I

Design

- Requirements definition
- Engine design
- Avionics design
- Wing design
- PMU design
- EM payload design

Stage II

Component models

- Electrical model
- Mass properties model
- Structural model
- Flutter proxy model
- Thermal model

Stage III

System analysis

- Aerodynamics model
- Flight control model
- Endurance model
- EM physics model
- Airworthiness model
- Mission model

Stage IV

Verification

- Scaled prototype
- Requirements verification

Istari Digital

A digital infrastructure platform built for engineering data, enabling defense and aerospace organizations to collaborate in real time without relinquishing control of their data or IP.

- **Faster:** requirements validation compressed by 41%, work orders reduced from hours to seconds, AI-native design workflows 75% faster.
- **Safer:** data never leaves your environment; access controlled, auditable, and revocable, with AI guardrailed deterministically for zero-hallucination workflows.
- **More collaborative:** works with your existing tools, IT environment, and security standards — no rip and replace, no compromise on IP.

The era of AI-driven engineering is here. It just needed the right empowering infrastructure.

Engineers love faster. Approvers need safer. Istari Digital delivers both.

Request an executive discussion

Every engagement starts at the executive level — a direct exchange about where your program is and what's breaking down.

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2451 Crystal Drive, 6th Floor, Arlington, VA 22202 · istaridigital.com · contact@istaridigital.com