



# AIA's Business Technology Interoperability Committee

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# BTIC Scope, Membership & Leadership

## SCOPE

- The BTIC shall be responsible for the identification, development (when necessary), maintenance, and promotion of suitable open interoperability standards and guidelines for voluntary use throughout the aerospace industry. The BTIC shall encourage broad adoption of applicable open interoperability standards and guidelines that are based on existing international or national interoperability standards. The interoperability standards and guideline tasks assigned to the BTIC shall be coordinated through the AIA SMC and TOC.

## MEMBERSHIP

- All AIA member and Associate member companies are eligible to be represented on the BTIC. AIA member and Associate member companies who participate in the BTIC have equal voting rights on the BTIC.

## LEADERSHIP

- **Committee Co-Chair** from appointed representatives from TOC and SMC

# What does the BTIC do?

Based on the AIA objective, the overall concept of operations of the BTIC is to:

- Solicit, identify and rationalize specific business requirements.
- Identify and assess key standards and initiatives, as framework components within an overall framework for interoperability
- Develop AIA position statements on relevant standards/initiatives
- Undertake projects to ensure that appropriate standards are available to industry in a timely manner, together with suitable guidance material if required
- Develop guidelines for deployment of such components to meet specific business scenarios
- Seek industry endorsement of the resulting standards and solutions

***The BTIC Is Chartered to Recommend Interoperability Standards***

# Strategic Deliverable 7: Business Interoperability

## AIA Focus Area:

**Primary:** Industry-Government Engagement    **Secondary:** Global Competitiveness

**Thought Leadership Priorities:** Establish a strategic mind share of the federated business model for the industry and the importance of interoperability.

## Policy Priorities:

1. Advocate for policies for the development of federated architectures partitioned by industry data interoperability standards while protecting intellectual property.
2. Inculcate policies with A&D requirements that eliminate barriers, advantages, and proprietary data restrictions to enable an open, competitive A&D ecosystem

**Audiences:** OEM's, OSD, ASD, Supply Chain, NIST

**Owner:** BTIC

## Approach:

1. Develop a model of the A&D ecosystem showcasing the federated architecture strategy.
2. Advocate for interoperability solutions to meet industry needs through involvement in customer groups, standards bodies, and consortia as required.
3. Identify new and emerging interoperability requirements arising from disruptive technologies or evolving policy/regulations in conjunction with stakeholders.

## Tactics

1. Develop the A&D model of the business ecosystem. Publish whitepaper on the model and the federation strategy.
2. Map and identify the gaps in existing business interoperability solutions against the business ecosystem model.
3. Propose solutions to the gaps with industry stakeholders, standards bodies, and consortia. Feed requirements to the Standards Governance Board.
4. Deliver whitepapers on impact of disruptive technologies (Smart Manufacturing, Digital Twin), Interoperability Enhancements, Model Based Systems Engineering (in concert with EMC), Digital Transformation.
5. Continue development and support of WAWF / UID / RFID / eBusiness Industry Group (WUReBIG), LOTAR, etc.
6. Create a look ahead calendar of key events.

# Project Description

## Goal

Develop an A&D model of the federated business ecosystem that identifies key system of systems interactions and maps the critical data interoperability standards required to enable the model based enterprise (MBE) and a collaborative model based systems engineering (MBSE) environment between A&D Customers and Suppliers.

## Scope

The model will encompass a customer, a business entity and its supply chain through the product lifecycle to a level sufficient to identify data interoperability standards impacting MBE and MBSE.

## Result

Published white paper describing the **model, model structure, and the maturity of top priority standards.**

A **follow on** activity will identify additional Working Groups necessary to targeted toward appropriate organizations that can impact development and deployment of these standards.

# Long Bridge, Arlington VA November 5 – 6 Summary

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- **DoD – Digital Transformation (Phil Zimmerman)**
  - “Everything is Digital” ... interactions with DOD will be digital formats
  - Provide toolset first .... Team will figure out processes
- **FAA – Certification Services (Chinh Vuong, Ed Chalpin)**
  - Initial Phases – gathering industry requirements for digitally integrated environment
  - Brian’s impression - @ 2 years behind DoD
- **NIST – Thomas Hedberg**
  - All about the underlying data .... Enabling Digital Thread w/o translations
- **AIA – AIAA collaboration established**
  - Work together ... AIA publish industry requirements, AIAA work out the “How”
- **3 working groups @ Interoperability Standards**  
(Define: Use cases, Information products, Standards)
  - Model Based Definition ... Boeing Lead, Jim Green
  - Supply Chain Integration .... Lockheed Martin lead
  - MRO – Pratt & Whitney Lead

# Ecosystem Project – working session

## Identify

List of company interoperability standards in the life cycle

## Prioritize

Pick a select few to test the framework and methods for value

## Assess

Develop assessment model for maturity of the standard

## Recommend

Develop recommendations/plans to achieve a usable standard for A&D



Draft Priorities for Industry Standards Development



Influence Diagram



# Committee representative ....

For the committee we are looking for someone who is leading data interoperability standards in your company in support of enabling the digital thread/twin in a tool agnostic environment across the domains of the corporation like engineering, supply chain, manufacturing, service, and administrative support like finance.

In addition, the right individual can reach back into the organization to identify right technical person(s) to work on the projects identified in committee.

Finally, this person is an advocate for open standards and would have a systems of systems mindset from the top level of the enterprise to the detail level of the information like STEP or SYSML, etc.

Member support 2 – 1 hour meetings/month + ~ 4 hours/month, 2 Face to Face meetings/year

Chair 2 – 1 hour meetings/month + ~8 hours/month, 2 Face to Face meetings/year + TOC meeting support



# AP242 Influence Diagram

