2022 INCOSE IW Agenda: Digital Engineering Information Exchange Working Group (DEIXWG)

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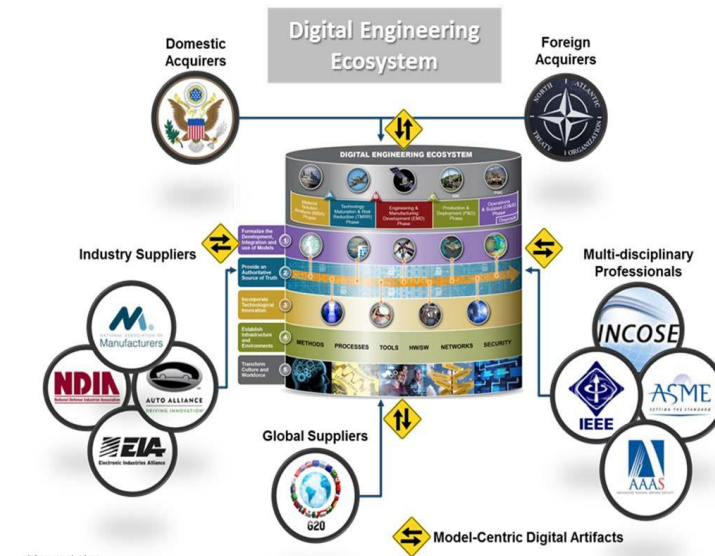© 2018 Published and used by INCOSE with permission

Digital Engineering Information Exchange Working Group

A Standardized way to Offer, Request and Exchange Digital Artifacts

Products

- **DEIXPedia:** Micropedia of digital engineering topics to explain relevant DEIX topics.
    - **Status: Maintaining**
    - **POC: Frank Salvatore**

- **Primer:** A narrative that describes the concepts and interrelationships between digital artifacts, enabling systems, and exchange transactions.
    - **Status: Maintaining**
    - **POC: Sean McGervey**

- **Digital Engineering Information Exchange Model (DEIXM):** A prescriptive system model for exchanging digital artifacts in an engineering ecosystem
    - **Status: Maintaining**
    - **POC: Chris Schreiber**

- **Digital Viewpoint Models (DVM):** Descriptive concept models of digital views relating DE information, artifacts and views
    - **Status: Maintaining**
    - **POC: Tamara Hambrick**
    - **Tech Lead: Terri Chan, Ken Zhang, Bill Bishop**

- **DEIX Standards Framework (DEIX-SF):** A framework for official standards related to MBE Information Exchanges
    - **STATUS: DRAFT developed, Update for ISO DE standards**
    - **POC: Celia Tseng**
    - **Tech Lead: Wanda Eyre**

Information Exchange Model for Digital Engineering Ecosystem

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For more details see the Digital Engineering Information Exchange Working Group (DEIX WG) WIKI page at:
http://www.omgwiki.org/MBSE/doku.php?id=mbse:deix

INCOSE IW Agenda

Session #1: Saturday, 29 January 1030-1200 PST

- Objectives:

    - Finalize plans and agenda for the remaining three sessions at IW

    - Determine the next steps for the products generated at IW

        - INCOSE IS Tracks

        - ISO/IEC DE Standards

- Activities:

    - Determine final number of breakout teams based on attendance

    - Divide spreadsheet user stories between breakout teams

    - Provide DEIXWG Digital Viewpoint Model (DVM) to the breakout teams

    - Review process for identifying and capturing new extensions to the concepts in the DVM ontology

    - Identify areas for refining our ISO DE whitepaper based on IW products

Session #2: Saturday, 29 January 1430-1730 PST

- Objectives:
  - Inform attendees and breakout team leaders on overall objectives and activities of the breakout teams
  - Refine user stories in spreadsheet, along with any DEIX Challenge submissions
  - Refine DVM ontology

- Activities:
  - Review purpose of the DEIXWG and recent activities
  - Review overall objectives and activities of the breakout teams
  - Assign attendees to breakout teams
  - Each breakout team refines user stories assigned to them
    - Discuss standards needs for user stories
    - Identify relevant existing standards
  - Each breakout team identifies potential new concepts to the DVM ontology based on the user stories
    - Include relevant standards

Session #3: Sunday, 30 January 1000-1200 PST

- Objectives:
  - Review outputs from previous day's session to cross-pollinate ideas from each breakout team's user stories and ontology concepts
  - Continued refinement of user stories and DVM
  - Development of example Digital Views (conceptual only!) described using the extended DVM concepts, as a user story and DVM validation exercise

- Activities:
  - Each breakout team finishes refining user stories assigned to them
  - Each breakout team finishes identifying potential new concepts to the DVM ontology based on the user stories
    - Include standards
  - Each breakout team identifies potential overlap or relationship with concepts from other teams
  - Each breakout team creates a notional mockup of at least one Digital View for each of their user stories

Session #4: Monday, 31 January 1000-1200 PST

- Objectives:
  - Review outputs from previous day's session to cross-pollinate ideas from each breakout team's user stories and ontology concepts
  - Development of example Digital Views (conceptual only!) described using the extended DVM concepts, as a user story and DVM validation exercise
  - Discuss next steps for the user stories, DVM, and example Digital Views

- Activities:
  - Each breakout team identifies potential overlap or relationship with concepts from other teams
  - Each breakout team creates a notional mockup of at least one Digital View for each of their user stories
  - Each breakout team identifies any language, infrastructure, tool, or standards gap involved in actually implementing their Digital View(s)
  - As a group, discuss next steps for ISO, INCOSE, and OMG engagement