



Digital Engineering Working Group

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Hello! I apologize for not being in touch sooner, and I hope that you are healthy and safe during these unprecedented times. With the ongoing challenges we all are experiencing, our Engineering Tools and Environments Team has not held a Digital Engineering Working Group (DEWG) meeting in a while. We have not forgotten about you. In fact, we continue to make great progress in implementing Digital Engineering. We have used this time to restructure our engagements to focus on the needs of the engineering community in order to maximize enterprise adoption of Digital Engineering. Until we reconvene for the next DEWG on July 28th, we offer the following news items to keep you informed of our activities and progress.

- Phil Zimmerman, OUSD(R&E) Director, Engineering Tools and Environments

REFORM EFFORTS

Pain Points: Pain points are at the core of our restructure. We identified pain points based on feedback from the broad stakeholder community on implementation challenges. Our goal is to tackle the pain points collectively across the community of practice. After a few more tweaks and discussions with DEWG leadership, we will be ready to share more with you.

Digital Engineering Working Group (DEWG) Reform: We are reforming the DEWG into a tiger team structure organized around prioritized pain points. Among the tasks of the tiger teams will be to develop products that are needed to implement Digital Engineering across the DoD enterprise. These products will be available to the entire community of practice and will contribute to the Digital Engineering Body of Knowledge (please see 'Key Updates' below for more information).

OSD/Tri-Service DEWG Tiger Teams: We identified four tiger teams: Cyber, Digital Ecosystem, Data, and Infrastructure. The DEWG leadership is finalizing these teams, and we look forward to inviting you to participate. Our goal is to provide each Tiger Team with enough starter information to get right to work. We are seeking broad participation in three of the Tiger Teams. The remaining Tiger Team, Infrastructure, is in response to the FY 2020 NDAA Section 231. Since this is a congressional response that has been ongoing since February, we decided to constrain the membership to stay on schedule. We will provide updates, and we will be happy to connect you with the Service and OSD membership as needed. For more information about Section 231, visit: <https://docs.house.gov/billsthisweek/20191209/CRPT-116hrpt333.pdf>



KEY UPDATES

Digital Engineering Metrics: The SERC conducted research to define a comprehensive framework for Digital Engineering benefits and adoption, and tested the usage on a DoD pilot project. The research is linked to the ongoing development of Digital Engineering enterprise capabilities and experienced transformation pain points, enablers, obstacles, and change strategies. To view the final report, visit <https://sercuarc.org/results-of-the-serc-incose-ndia-mbse-maturity-survey-are-in/>. This site includes both the Digital Engineering Metrics report and the results report of the SERC/INCOSE/NDIA MBSE Maturity Survey.

Digital Engineering Competency Model: The SERC is creating a Digital Engineering Competency Framework (DECF). The purpose of the DECF is to define the knowledge, skills, abilities, and behaviors (KSABs) required to enable Digital Engineering in the DoD. The authors have released an initial draft for review. If you are interested in participating in the review, visit: <https://sercuarc.org/DECF-review/>.

Digital Engineering Body of Knowledge (DEBoK): OUSD(R&E) is compiling a DEBoK to capture the knowledge and guidance that exists across the community, but may not be written or currently available. This centralized knowledge base will provide information about getting starting and implementing Digital Engineering. If you are interested in participating, please contact: Geethesh Kukkala (geethesh.kukkala.ctr@mail.mil).

Digital Engineering Credentialing: DAU launched a Digital Engineering credential. DAU's credentials will help to acquire skills specific to the DoD acquisition workplace and promote the learning of key Digital Engineering information and perspectives. If you have taken this training, we are interested in your feedback. Please contact Phil Zimmerman (Philomena.m.zimmerman.civ@mail.mil) for follow-up. For more information, please visit: <https://www.dau.edu/training/pages/credentials.aspx#credential-areas>

The INCOSE/NDIA Digital Engineering Information Exchange Working Group (DEIXWG): The DEIXWG is seeking participants across government, industry and academia to participate in the DEIX challenge during the 2020 NDIA Systems and Mission Engineering Conference. The DEIX Challenge is an opportunity to help shape the future of Digital Engineering. The DEIX Challenge submissions will build upon a provided Digital Viewpoint Model to propose notional digital views that can be used for exchanging digital information pulled from multiple digital artifacts.

For more information, please visit: <http://www.omgwiki.org/MBSE/doku.php?id=mbse:deix:challenge>

UPCOMING EVENTS

- **July 18-23, 2020** (Virtual) INCOSE International Symposium
- **July 28, 2020** (Virtual) Digital Engineering Working Group

Visit: <https://www.incose.org/events-and-news/search-events/2020/07/20/international-symposium/virtual-incose-is-2020>

- **October 19-22, 2020** (Orlando, FL) NDIA Systems and Mission Engineering Conference

Visit: <https://www.ndia.org/events/2020/10/19/23rd-sme-conference>



For questions or comments about any news items, please feel free to contact:

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