

Architecture Committee Report

April 18, 2018

Bob Scheurer, Chair

robert.p.scheurer@boeing.com

Ed Moshinsky, Co-Chair

edward.a.moshinsky@lmco.com

- **Currently 40+ Members – Cross-Section of Industry & Govt.**
 - Incl. DoD Sponsor: Philomena (Phil) Zimmerman
- **Main Committee Meetings Bi-Weekly**
- **Sub-Committee on Measurement of Modularity and Measurement of Openness**
- **2018 Focus Area: Modular Open Systems *Approach* (MOSA) White Paper Completion**
- **Participating on SoS Committee with *Mission Engineering***
- **Next Regular Meeting: Today - Apr. 18, 2018, 1:30-3:00 p.m. EST**

- **MOSA**
 - Finish White Paper w/Recommendations
 - Ed Moshinsky Updated Briefing to NDIA SE Conf. in Oct. 2018: Reflecting Baseline of Committee Position on MOSA
 - Special Committee Activity at SE Conf. (e.g., Panel or Debate)
- **Role of Architecture(s) in Mission Engineering (Support to SoS Committee)**
- **MBSE & Architecture Frameworks (UAF etc.)**
- **Support Annual NDIA SE Conf. w/Architecture Track (as Member of Digital Engineering Thread)**
- **Stretch Goal: Grand Taxonomy of the SoS Levels**
 - Where do SoS Engineering, Mission Engineering, etc. apply to each of the levels in the Grand Taxonomy?
 - Tying to existing taxonomies in DoD and industry
 - Upper, middle, and lower level ontologies

Architecture Committee Current Membership



1. Adrienne A Rivera <aarivera@raytheon.com>;
2. Alan Brenner <al.brenner@bbi2.com>;
3. Bruce J Brown (IS) <brown.bruce@ngc.com>;
4. Chester L Levins <Chester_L_Levins@raytheon.com>;
5. Claudia Rose <claudia.rose@bbi2.com>;
6. Dave McDaniel <davem@silverbulletinc.com>;
7. Edward A Moshinsky
<edward.a.moshinsky@lmco.com>;
8. Everett Lewis <everett.t.lewis@rolls-royce.com>;
9. gkukkala@drc.com; Jack E Zavin OSD OUSD ATL (US)
<jack.e.zavin.civ@mail.mil>;
10. jklein@sei.com.edu <jklein@sei.cmu.edu>;
11. Judith S. Dahmann <jdahmann@mitre.org>;
12. Kendall G Young (AS) <kendall.young@ngc.com>;
13. Kevin S. Agan CIV (US) <kevin.s.agan.civ@mail.mil>;
14. Laura E. Hart <lhart@mitre.org>;
15. Marino, Rob <Robert.Marino@ngc.com>;
16. Michael L Wayson CIV OSD DOD CIO (US)
<michael.l.wayson.civ@mail.mil>;
17. Palmer, John R <john.r.palmer2@boeing.com>;
18. Philomena Zimmerman
<philomena.m.zimmerman.civ@mail.mil>;
19. Roedler, Garry J <garry.j.roedler@lmco.com>;
20. Ron C Williamson <Ron_C_Williamson@raytheon.com>;
21. S R Muller CIV (US) <shaughnn.r.muller.civ@mail.mil>;
22. steven.dam@specinnovations.com;
23. Thomas Murphy <murphyth@silverbulletinc.com>;
24. Tim Olson <tim.olson@lsi-inc.com>;
25. tom.mcdermott@gtri.gatech.edu;
26. Pape-II, Louis E <louis.e.pape-ii@boeing.com>;
27. Sisson, Curtis A <Curtis.A.Sisson@boeing.com>;
28. Gau Pagnanelli, Christi A
<christi.a.gaupagnanelli@boeing.com>;
29. Gualdoni, James D <James.D.Gualdoni@boeing.com>;
30. charles.domercant@gtri.gatech.edu;
31. Peter Grim <peter.grim@lmco.com>;
32. kvv5cf@virginia.edu;
33. Strosnider, Daniel P <daniel.p.strosnider@boeing.com>;
34. eric.b.dano@baesystems.com;
35. Williams, Robert T <robert.t.williams2@boeing.com>;
36. Nielsen-Jr, Brian D <brian.d.nielsen-jr@boeing.com>;
37. Domercant, Jean <Jean.Domercant@gtri.gatech.edu>;
38. Hambrick, Tamara [US] (MS)
<Tamara.Hambrick@ngc.com>;
39. Jugovic, Heidi J [US] (MS) <heidi.jugovic@ngc.com>;
40. Lepe, Pedro D [US] (AS) <Pedro.Lepe@ngc.com>;
41. Kruse, Jonathan <jonathan.kruse@lmco.com>;
42. Mitchell, Steve <steve.mitchell@lmco.com>;
43. Kyes, Kelly <Kelly.Kyes@boeing.com>

MOSA White Paper Sections

- 1. Objectives of MOSA**
- 2. Additional Benefits**
- 3. Design-Level Considerations**
- 4. Modularity – the Technical Aspects of MOSA**
- 5. Openness – the Business Aspects of MOSA**
- 6. Managing a MOSA Environment**
- 7. Architecting for Modularity**
- 8. Acquisition Lifecycle (Acquirer) vs. Technical Lifecycle (Contractor/ Supplier)**
- 9. Perspectives & Goals**
- 10. Government Ownership of the Technical Baseline (OTB)**
- 11. Positions – standards for interface definitions**
- 12. Examples of Existing MOSA Implementations**
- 13. Recommendations by NDIA Architecture Committee**
- 14. Appendices – MOSA history, Key Standards**