

INCOSE Patterns Working Group: Meeting Minutes

- Meetings:** Jan 30-31, 2016, meetings of INCOSE Patterns Working Group, at IW2016 site, plus web conferencing:
- **Saturday, Jan 30:** Joint half-day workshop with System of Systems Working Group
 - **Sunday, Jan 31:** Joint meetings with Agile Working Group; Product Line Engineering (PLE) Working Group

*=on site attendance; T=Participation by telecom link

Meeting Participants:

Joint Patterns-Agile WG	01.31.16	↓	↓	↓
Joint Patterns-PL E WG	01.31.16	↓	↓	↓
Joint Patterns-SoS WG	01.30.16	↓	↓	↓

First	Last Name	Affiliation	email			
1. Paulette	Acheson	Aerospace Corp	paulette.b.acheson@aero.com	*		
2. Eileen	Arnold	UTC Aerospace Systems	eparnold5@aol.com		*	
3. Koutaro	Asada	Keio University	asada@keio.jp		*	
4. Yvonne	Bijan	Lockheed Martin	yvonne_bijan@hotmail.com	*	*	
5. Bill	Bolander	IBM	william.bolander@us.ibm.com		*	
6. Scott	Boller	Aerojet Rocketdyne	scott.boller@rocket.com		*	*
7. Ed	Carroll	Sandia National Lab	ercarro@sandia.gov			*
8. Guillermo	Chale-Gongora	Alstom <i>(PLE WG Co-chair)</i>	hugo-guillermo.chale-		*	
9. Billy	Coffield	UK MOD	billy.coffield914@mod_uk	*		
10. Craig	Courkamp	Northrop Grumman	craig.courkamp@ngc.com		*	*
11. Grace	Crowder	National Security Agency	gcrowder@gmail.com			*
12. Ken	Crowder	Crowder & Associates	kvcrowder@aol.com	*		
13. Judith	Dahmann	MITRE <i>(SoS WG Co-chair)</i>	jdahmann@mitre.org	*		
14. Chris	Davey	Ford Motor Co	cdavey2@ford.com		*	
15. Arnaud	Durant	Dassault Systemes	adn3@3ds.com		*	
16. Richard	Emerson	JPL (Ret)	remerson9@gmail.com	*		
17. David	Endler	SE Consultant	de@davidendler.de	*		
18. Craig	Estridge	George Washington University	craigestridge@gwu.edu		*	
19. John	Fitzgerald	Newcastle University	john.fitzgerald@ncl.ac.uk	*		
20. Dane	Freeman	Georgia Tech Research Institute	dane.freeman@gtri.gatech.edu	*	*	*
21. Joachim	Fuchs	European Space Agency	joachim.fuchs@esa.int			*
22. William	Golaz	Lockheed Martin	william.h.golaz@lmco.com	*		
23. Kevin	Gunn	MITRE	kgunn@mitre.org			*
24. Mimi	Hailegiorghis	MITRE	hailegik@mitre.org	*		
25. Matthew	Hause	PTC	mhouse@ptc.com	*		
26. William	Hnat	Self	aerobas1@aol.com	T	T	T
27. Oliver	Hoehne	WSP/Parsons Brinkerhoff	hoehneom@pbworld.com	*		
28. Eric	Honour	Honourcode, Inc	ehonour@hcode.com	*		
29. Lisa	Hoverman	INCOSE/Self	thehsmcgroup@gmail.com			*
30. Claire	Ingram	Newcastle University	claire.ingram@ncl.ac.uk	*		

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First	Last Name	Affiliation	email			
31. Curtis	Iwata	The Aerospace Corporation	curtis.iwata@aero.org	*	*	*
32. Erin	Kelly	US DoD	erkelly@gmail.com	*		*
33. Kendra	Kreutz	The Avenger Group	kendrakreutz@gmail.com	*		
34. Charles	Krueger	BigLever <i>(PLE WG Co-chair)</i>	ckrueger@biglever.com		*	
35. Anand	Kumar	Tata Research Dev & Design Centre	genie.anand@gmail.com	*		
36. Supriya	Kummamuru	Tata Consultancy Services	supriya.kummamuru@tcs.com	*		
37. Maz	Kusunoki	Keio University, SDM	m.kusunoki@keio.jp		*	*
38. David	Lempia	Rockwell Collins	dllempia@rockwellcollins.com		*	*
39. Juan	Llorens	The REUSE Company	juan.llorens@reusecompany.com		*	
40. Malcolm	Lunn	Ford Motor Co	lunnmalcolm@me.com	T	T	T
41. Ron	Lyells	Honeywell	ron.lyells@honeywell.com			*
42. Logan	Mailloux	Air Force Institute of Technology	logan.mailloux@afit.edu	T		
43. Phyllis	Marbach	Boeing	prmarbach@gmail.com			*
44. Aleksand	Markina-	MITRE	amk@mitre.org	T		
45. Steve	Mathe	Harris Corp	smathe@harris.com	*		
46. Chris	Mellroth	Northrop Grumman	chris.mellroth@ngc.com		*	*
47. Steven	Mitchell	Lockheed Martin	steve.mitchell@lmco.com		*	
48. Ian	Monk	Shell	ian.monk@shell.com			*
49. Donna	Nystrom	Aerospace Corp	Donna.M.Nystrom@aero.org		*	*
50. Edwin	Ordoukhanien	USC	ordoukha@usc.edu	*		
51. John	Palmer	Boeing	john.r.palmer2@boeing.com		*	
52. Holger	Papajewski	Pure-Systems	holger.papajewski@pure-systems.com		*	
53. Troy	Peterson	Booz Allen <i>(Patterns WG Co-Chair)</i>	peterson_troy@bah.com		*	*
54. Bryan	Pflug	Boeing	bryan.k.pflug@boeing.com		*	
55. Derek	Piette	PTC	dpiette@ptc.com			*
56. Marilyn	Pineda	Lockheed Martin	marilyn.pineda@lmco.com		*	
57. Elisha	Porat	Northrop Grumman	elisha.porat@ngc.com			*
58. Kyle	Post	Ford Motor Co	kpost1@ford.com		*	
59. Mike	Prendergast	Raytheon	mike.prendergast@raytheon.com			*
60. Arthur	Pyster	Stevens Institute	apyster@stevens.edu	*		
61. Ali	Raz	Purdue University	akraz@purdue.edu	*		
62. Donna	Rhodes	MIT	rhodes@mit.edu	*		
63. Jonathan	Rigaud	Airbus	Jonathan.Rigaud@airbus.com		*	
64. Jack	Ring	Educe LLC	jring7@gmail.com			*
65. Garry	Roedler	Lockheed Martin	garry.j.roedler@lmco.com	*		
66. James	Ruiz	GE Oil & Gas	james.ruiz@ge.com		*	
67. Mike	Russell	Booz Allen	russell_michael@bah.com	*		

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Joint Patterns-PLE WG	01.31.16			
Joint Patterns-SoS WG	01.30.16			

First	Last Name	Affiliation	email			
68. Bill	Schindel	ICTT System Sciences (<i>PWG Co-chair</i>)	schindel@ictt.com	*	*	*
69. Tracy	Scott-Parry	UTC	tascott88@yahoo.com		*	*
70. Roy	Shortt	Systems Planning & Analysis	dshortt@spa.com			*
71. Geoff	Shuebrook	Self	shuebrook@att.net	T		
72. Peter	Sjoberg	Volvo CE	peter.t.sjoberg@volvo.com		*	
73. Amaury	Soubeyran	Airbus Group	amaury.soubeyran@airbus.com		*	
74. Dan	Stege	Ssprings Design Svc, LLC	Stege.Daniel@gmail.com	T		
75. Vijay	Thukral	Cientive Group	jijay.thukral@cientivegroup.com	T		
76. Jon	Torok	NSWC Crane	jonathan.torok@navy.mil		*	
77. André	Trotter	Lockheed Martin	andre.trotter@lmco.com		*	
78. Steve	Untz	BAE Systems	steve.untz@baesystems.com		*	
79. Konstanti	Vilaetis	New York Air Brake	kvilaetis@gmail.com			*
80. David	Walker	Northrop Grumman	david.walker@ngc.com			*
81. George	Walley	Ford Motor Co	gwalley2@ford.com		*	
82. Fei-Yue	Wang	CAS	feiyue@gmail.com	*		
83. Ron	Williamson	Raytheon	Ron_C_Williamson@raytheon.com		*	
84. Robert	Wirthlin	General Motors	robert.wirthlin@gm.com		*	
85. Katy	Wong	Lockheed Martin	katy.wong@lmco.com		*	
86. Len	Wozniak	General Motors	len.wozniak@gm.com		*	
87. Dan	Yeaw	Ford Motor Co	dyeaw@ford.com		*	
88. Mike	Yokell	Lockheed Martin	Mike.R.Yokell@lmco.com			*
TOTALS				36	42	30

Summary of Patterns Working Group Meetings at IW2016:

- Jan 30 Half Day Workshop on Patterns in Systems of Systems (SoS):** This workshop was a half day exchange, by our two working groups, on the “basics” of (a) S*Patterns and (b) Systems of Systems. It included a discussion of mutual interests in potential future work together, to extend SoS patterns through the use of S*Metamodel elements. An interactive work session by attendees was conducted, on a selected series of sample SoS patterns. Link to workshop materials below.
- Jan 31 Joint Project Discussion with Product Line Engineering (PLE) Working Group:** This event was a two hour exchange by our two working groups, on the “basics” of (a) PBSE, and harvesting of S*Patterns from legacy product lines using the Method of Projections, and (b) Product Line Engineering and the interests of the PLE WG. It included a discussion of mutual interests in potential future work together to create a public demonstration of such a legacy product line S*Pattern extraction. Link to workshop materials below.
- Jan 31 Joint Pattern Review with Agile Systems Working Group:** This event was a 90 minute review, by our two working groups, of the ASELCM Pattern in the progress of being constructed. This is an S*Pattern to represent what we are learning in the INCOSE 2015-2016 Agile Systems Engineering Life Cycle Model (ASELCM) Discovery Project. Link to workshop materials below.

SoS-Patterns Joint Workshop Details:

4. Refer to the SoS-Patterns Workshop slides materials through the References Materials link below.
5. SoS WG Co-Chair Judith Dahmann presented an overview of the SoS “basics” and the work and interests of the SoS WG.
6. Patterns WG Co-Chair Bill Schindel presented an overview of S*Patterns as they may relate to and help describe SoS Patterns, and the work and interests of the SoS WG. Examples included the use of S*Features, S*Interactions, S*States, and S*Interfaces to model-based SoS Pattern representations, and some example SoS Patterns the WG has used, such as the System Management Pattern and the ASELCM Pattern.
7. Workshop facilitators John Fitzgerald and Claire Ingram introduced more example SoS pattern material, and led interactive break-outs to capture the ideas and interests of participants.
8. There was an expression of mutual interest by members of the two WGs in planning future joint work to apply the additional pattern-descriptive elements of the S*Metamodel to describe SoS Patterns.

PLE-Patterns Joint Workshop Details:

9. Refer to the PLE-Patterns Workshop slide materials through References Materials link below.
10. PLE WG Co-Chair Guillermo Chale-Gongora presented a summary of the PLE perspective and the interests and work of the PLE WG, including potential interests in S*Patterns.
11. Patterns WG Co-Chair Bill Schindel presented an overview of the use of the Method of Projections to harvest a PLE S*Pattern from a legacy product family.
12. There was a discussion of mutual interest by members of the two WGs in planning a public example of harvest of such a PLE S*Pattern, from a legacy product family to be identified.

Agile Systems Engineering Joint Pattern Review Details:

13. Refer to Joint ASELCM Pattern Review slides materials through the References Materials link below.
14. A walk-through of the current draft of the ASELCM Pattern model led to a variety of exchanges with attendees. Among these:
 - Is there a System 4?
15. A discussion of some of the findings to date from the host site workshops included:
 - Information Debt versus Technical Debt
 - Risk allocation, sharing, and spreading techniques
 - Product Line Engineering (PLE) aspects
 - Impacts of transparency, awareness, and communications, by culture and technology
 - Coupling ASE approaches with defense or other traditional acquisition contracting
16. Next steps include the 2016 ASELCM project workshops and updates to the ASELCM Pattern.

Action Items:

17. SoS WG and Patterns WG parties follow up together and agree on specific approach to adding more S*Metamodel components to repository of SoS Patterns, then meet at IS2016. (Dahmann, Fitzgerald, Ingram, Schindel)
18. PLE WG and Patterns WG parties follow up together and agree on specific target example legacy system, including data source, for public joint illustration of S*Pattern extraction, then meet at IS2016. (Chale-Gongora, Schindel, Krueger, Peterson)

19. Agile WG and Patterns WG parties follow up together and agree on targeted aspects of ASELCM Pattern for attention in future additions, then meet at 2016 host workshop sites. (Dove, Ring, Yokell, Forsberg, Roedler, Lawson, Schindel)

Reference Materials:

20. Patterns-SoS Workshop Materials:

- Workshop Agenda:
http://www.omgwiki.org/MBSE/lib/exe/fetch.php?media=mbse:patterns:agenda--jan_30-31_iw2016_mtgs_of_mbse_patterns_wg_v1.3.1.pdf
- Combined SoS-Patterns Workshop Slides:
http://www.omgwiki.org/MBSE/lib/exe/fetch.php?media=mbse:patterns:iw2016_workshop--patterns_in_sos_workshop_v1.3.8.pdf
- Exercise Handout Slides:
<http://www.omgwiki.org/MBSE/lib/exe/fetch.php?media=mbse:patterns:patternshandout.pdf>

21. Patterns-PLE Workshop Materials:

- Combined PLE-Patterns Workshop Slides:
http://www.omgwiki.org/MBSE/lib/exe/fetch.php?media=mbse:patterns:iw2016_joint_session--ple_wg_and_mbse_patterns_wg_v1.5.2.pdf

22. Patterns- Agile Joint Review Meeting Materials:

- ASELCM Pattern Review Slides:
http://www.omgwiki.org/MBSE/lib/exe/fetch.php?media=mbse:patterns:intro_to_ase lcm_pattern -- jan_31_2016_wds_v1.3.1.pdf

23. General web site for Patterns Working Group, charter, meetings listing, etc.:

<http://www.omgwiki.org/MBSE/doku.php?id=mbse:patterns:patterns>

24. Other Jan 30-31, 2016, Patterns WG meeting materials, at:

http://www.omgwiki.org/MBSE/doku.php?id=mbse:patterns:patterns_challenge_team_mtg_01_30-31.16