



INCOSE UK

MBSE Interest Group Meeting

10th July 2019

ZF Race Engineering, Solihull



Host

- Yike Fang
- ZF Race Engineering
- Thank you, from the MBSE Interest Group!



Agenda

- 09:30 – 10:30 **Introductions, Housekeeping and Work Streams Status** – Ian Clark
- 10:30 – 11:30 **ZF Introduction and Venue Briefing** – Rob Miller (Engineering and Portfolio Manager)
ZF ADAS Systems Engineering Work Flow – Feature Driven Development Approach
– Ahmad Chamma (System Design Team Leader)
- 11:30 – 12:30 **MBDA Reference Missile Functional Architecture** – Jason Gollaglee (MBDA)
- 12:30 – 13:30 **Lunch**
- 13:30 – 14:30 **From verification to code generation using the Coco Platform and MagicDraw**
– Dr Philippa Hopcroft and Dr Thomas Gibson-Robinson, (Cocotec)
- 14:30 – 15:45 **Discussions:**
 - **How do we integrate techniques like SSM with MBSE** – Topic proposed by Rolls-Royce
 - **How does MBSE affect the activity of ‘Architecting’** – Topic proposed by the Architecture Working Group
- 15:45 – 16:00 **AOB & Close**



Attendees

Name	Company
Mr Chris Raistrick	Abstract Solutions Limited
Dr Tom Gibson-Robinson	Cocotec Ltd
Dr Philippa Hopcroft	Cocotec Ltd
Mr Paul Eastwood	Costain Group PLC
Mr Dainius Jakas	Dassault Systemes
Mr Jan Rapacz	Dassault Systemes
Mr Christian SIMONS	DE&S
Miss Rebecca Grinham	Edwards Ltd.
Mr Jonathan Williams	Energy Systems Catapult
Mrs Marie Szczepanski	Energy Systems Catapult
Mr RAEES BASHEER KUNTHIRIKKAL PARAMBU	Glasgow Caledonian University
Dr Graham Bleakley	IBM
Mr Philip Jackman	Jackman Consulting Limited
Mr Karl Barker	JLR
Mr Harry Spreadbury-Troy	Martin-Baker
Mr Mark Elson	Martin-Baker
Mr James Cullen	Martin-Baker
Mr Navdeep Riarh	Martin-Baker

Name	Company
Mr Ian Clark	MBDA
Mr Jason Gollaglee	MBDA
Mr Tomasz Barszczewski	Ocado
Mr Dave Banham	Rolls-Royce plc
Mr Filippo Farina	Rolls-Royce plc
Mr Matthew Howlett	Rolls-Royce plc
Mr Jon Symons	Rolls-Royce plc
Mr Simon Perry	Scarecrow Consultants
Mr James Towers	Scarecrow Consultants
Mr Andrew Pemberton	Thales
Mr Christopher Bouch	University of Birmingham
Mr Iain Cunningham	Vector GB Ltd
Mr Ian Aitchison	ZF Group
Mr Ahmas Chamma	ZF Group
Ms Yike Fang	ZF Group
Mr Rob Miller	ZF Group
Mr Graham White	ZF Group
Mr Kannan Kaririman	ZF Group
Mr Paulo Beauclair	ZF Group



Housekeeping

- Fire Alarm – no test planned today
- Toilets

Work Streams Summary

Work Stream	Lead	Status
MBSE and BIM - Understand the similarities, differences and relationship (if any) between Model Based Systems Engineering and Building Information Modelling	James Towers	Active: Maintaining the stream, identifying and engaging with interested parties to confirm next steps.
MBSE Patterns - Identification and production of 'Enabling' Patterns.	Simon Perry	Active: Work underway developing an 'Evaluation Pattern'. (Stephen Powley)
MBSE Competencies - Ensure INCOSE Competency Framework covers skills required for MBSE.	To Be Confirmed	Early work contributed to ASEC 18 Paper: <i>Taking your own advice: using MBSE to implement MBSE in a larger business.</i> Joe Silmon, Thales.
MBSE Value - Investigation into the 'value proposition' of MBSE.	To Be Confirmed	Early work contributed to ASEC 18 Paper: <i>Taking your own advice: using MBSE to implement MBSE in a larger business.</i> Joe Silmon, Thales.
MBSE and MDA - Relationship, MBSE to the OMG Model Driven Architecture (MDA)	Future	Potential
MBSE and PLM - Investigation into the similarities, differences and overlaps MBSE and PLM.	Future	Potential
MBSE Survey - Run a survey on MBSE adoption in the UK and contrast with previous results.	Future	Potential

Work Streams Outputs

Output(s)	Work Stream	Location
<u>Certification Pattern V1.1</u>	<u>MBSE Patterns</u>	<u>INCOSE UK MBSE Wiki</u>
<u>Evidence Pattern V1.0</u>	<u>MBSE Patterns</u>	<u>INCOSE UK MBSE Wiki</u>
<u>MBSE Definitions</u>	<u>Definitions</u>	<u>INCOSE UK MBSE Wiki</u>
<u>MBSE Language Catalogue</u>	<u>Languages, Methodologies and Tools</u>	<u>INCOSE UK MBSE Wiki</u>
<u>MBSE Adoption Guide</u>	<u>MBSE Adoption</u>	<u>INCOSE UK MBSE Wiki</u>
<u>MBSE Tools Catalogue</u>	<u>Languages, Methodologies and Tools</u>	<u>INCOSE UK MBSE Wiki</u>
<u>Traceability Pattern V1.0</u>	<u>MBSE Patterns</u>	<u>INCOSE UK MBSE Wiki</u>
<u>Z9 Guide v2.0 What is MBSE</u>	<u>Z9 Guide</u>	<u>INCOSE UK Publications</u>



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Thank you again to

Yike and ZF Race Engineering