



Architecture Working Group

Introduction

2007: UK Council asked UKAB to examine need for Architecture Working Group to look into the subject and provide guidance for the UK Membership

Working group subsequently established with formal terms of reference, management structure and work programme. Membership drawn from industry, consultancies and academia.

Co-Chairs: Mike Wilkinson (Atkins), Time Rabbets (QinetiQ)

Core Objectives

To Provide Guidance and Advice on UK Architecture Practice and how it might be different from that in other countries - Develop a UK Frame of Reference

To Exert Influence on INCOSE Policy and Standards Bodies in respect of UK Architecture Practice

To Liaise / Coordinate with other Architecture Groups e.g. International AWG and French AFIS AWG

NOT to be a Lobby Group

Not act as a lobby group for the use of Architectures and Architectural Frameworks, taking cognisance of both positive and negative experience

Overview

Completed Workstreams

1. Develop Methodology to Understand conflicting Architecture Beliefs / Perspectives
2. Apply methodology to drive out Beliefs / Perspectives in:
 - (i) Architecture Standards / Publications
 - (ii) Architecture Practice in UK Industry / Government
 - (iii) SE / SA relationship

1. Develop guidance on UK Architecture Practice
 - (i) Introductory guidance (Z-Guide)
 - (ii) Detailed guidance / handbook

Ongoing Workstreams

1. Support development of standards and reference material (ISO 42010, ISO 42030, ISO 15288, SEBoK)
2. Develop manifesto for broadening of SA
3. Develop competency framework for architecting
4. Capture and codify case studies / worked examples

How to get Involved

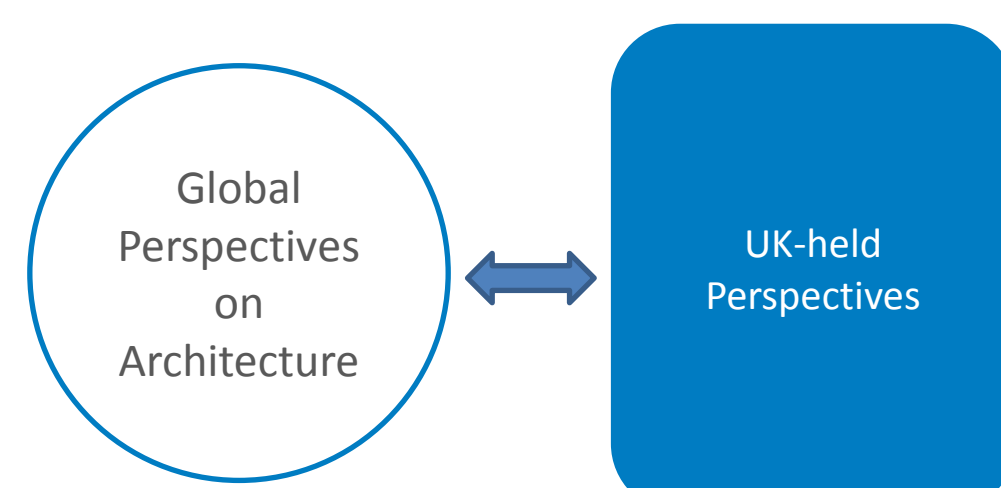
Come and chat to the AWG members during the conference

Have a look at our products

Offer architecture case studies

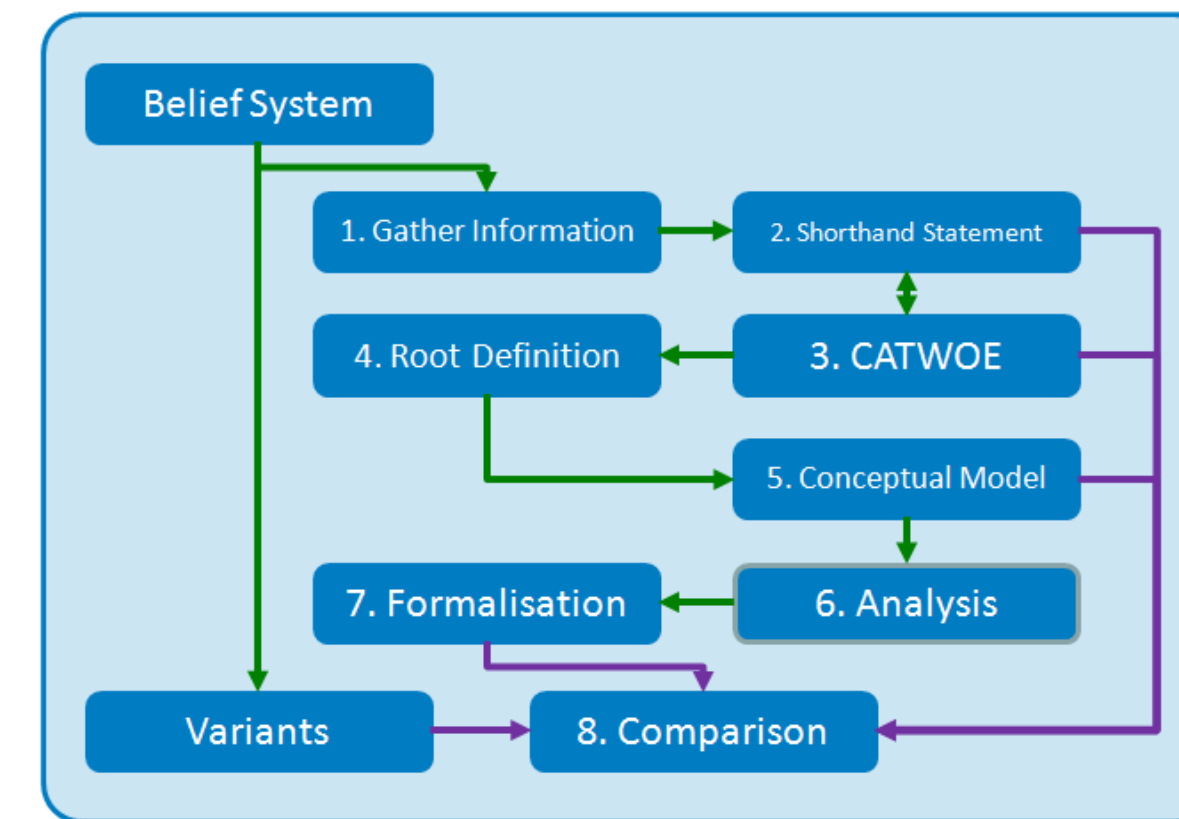
Join a workstream

Offer support / expertise

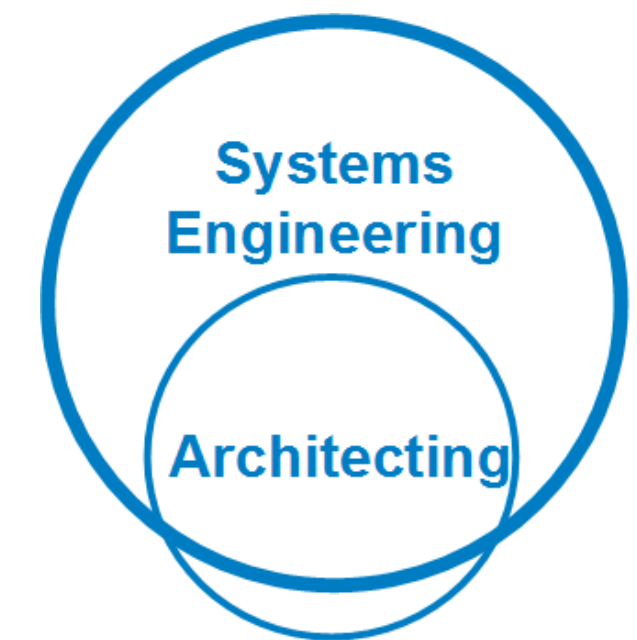


http://www.incoseonline.org.uk/Groups/Architecture/Other_Documents.aspx?CatID=Groups

Activities & Outputs



Belief Systems Methodology



SE / SA Relationships

Conference Papers

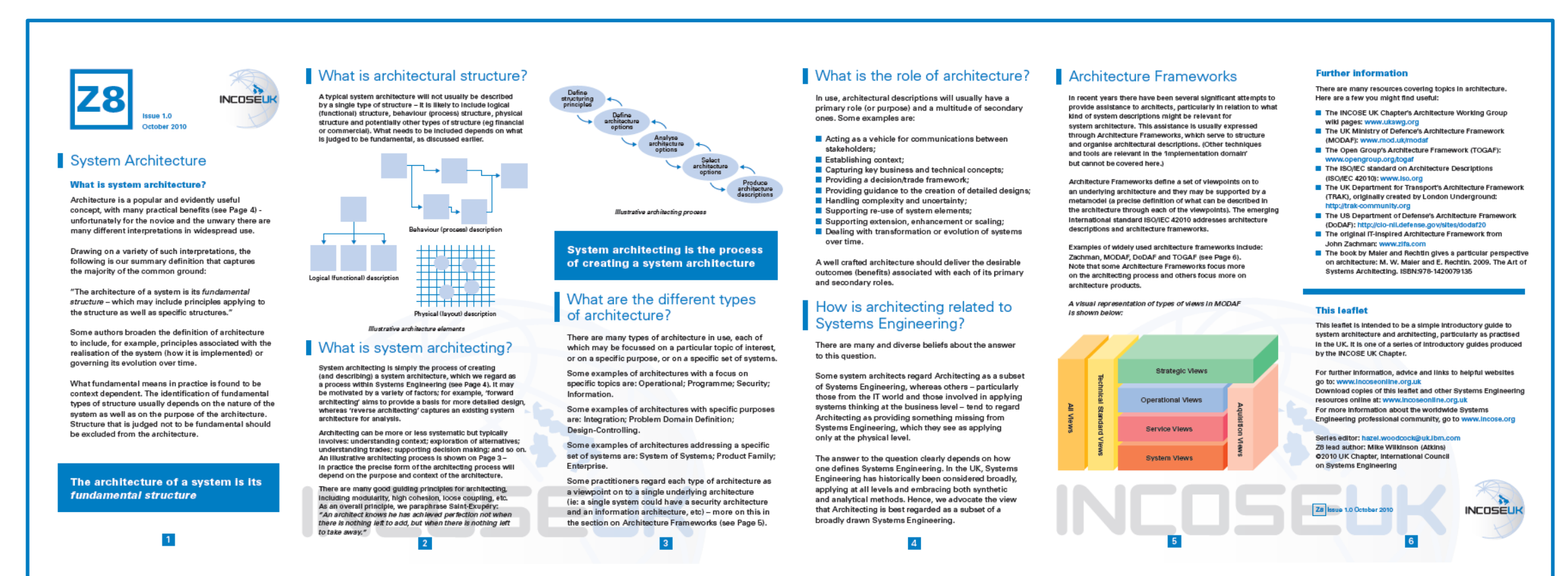
- [2008] "Towards a New Characterisation of Architecture" at IS08, P. Bryant & P. King
- [2010] "Belief Systems in System Architecting: Methodology & Preliminary Applications" at IEEE SoSE 2010 Conference, Loughborough University, M. Wilkinson, P. King, M. Emes, A. James & P. Bryant
- [2010] "Belief Systems in Architecture Standards" at EuSEC10, P. Bryant, M. Emes, A. James, P. King & M. Wilkinson
- [2011] "The Relationship between Systems Engineering and Systems Architecting", ASE11, S. Arnold

AWG Technical/Discussion Papers

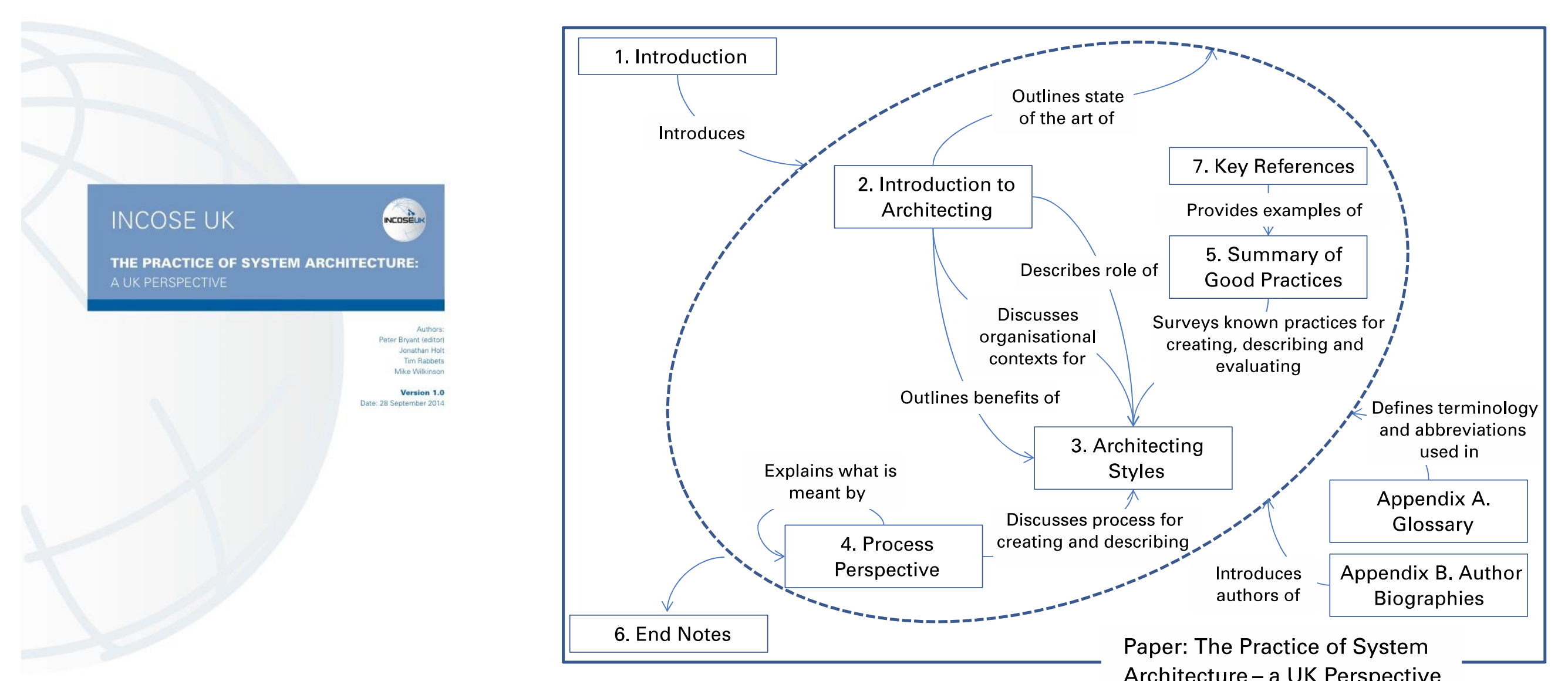
- [2008] "The Belief Systems in Architecting", AWG Discussion Paper, M. Wilkinson, P. King, P. Bryant
- [2009] "An Analysis of Underlying Beliefs in Publications on System Architecting", AWG Technical Paper, M. Emes & A. James
- [2010] "System Architecting Beliefs in UK Industry", AWG Technical Paper, M. Emes & A. James

Magazine / Journal Papers

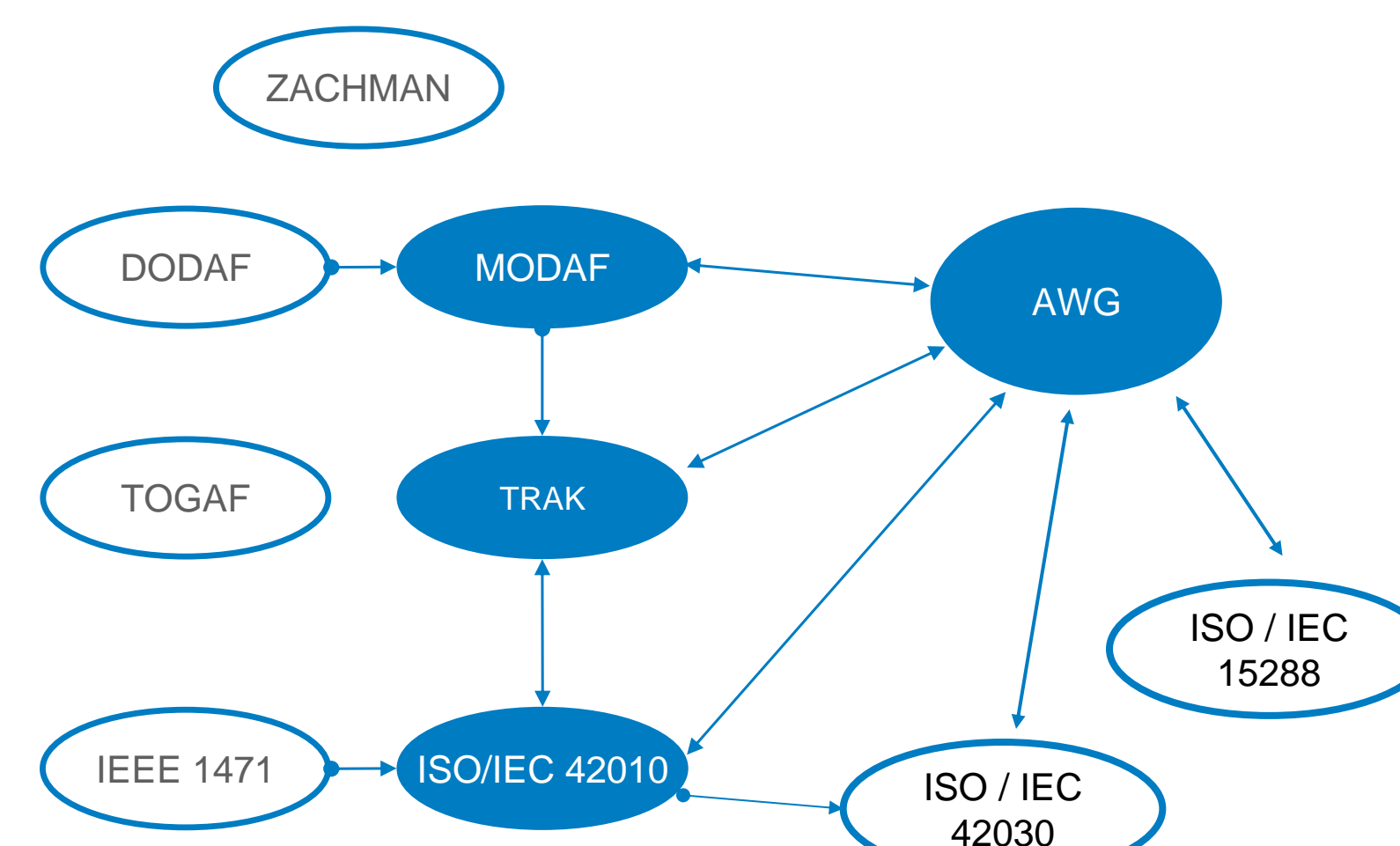
- [2009] "Balancing Security and Other Concerns with a Systems Architecture Approach", INCOSE Insight, Vol12 No.2, July 2009, M. Wilkinson & P. King
- [2012] "Interpreting 'Systems Architecting'", M. Emes, P. Bryant, M. Wilkinson, P. King, A. James and S. Arnold, pp369-395, Systems Engineering, Vol 15 No 4 Winter 2012, INCOSE/Wiley 2012.



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[2014] "The Practice of System Architecture - A UK Perspective", AWG Guide, P. Bryant (ed), J. Holt, T. Rabbets, M. Wilkinson



[2009-2014] AWG Inputs to Standards Development and SEBoK, AWG members