

Annex D – ISSUES

In order to identify and subsequently resolve issues (i.e., topics whose deep appreciation and consensus resolution by the Group members would likely be necessary to the successful completing of the MSG-058 effort) the Task Group resolved to systematically review the prospective study and establish, by consensus, topic areas considered deserving attention. The first step in this process was to discuss potential difficulties in areas of:

- General and Administrative conduct of the effort;
- Elements of the Programme of Work; and
- Matters of Technology that were likely to challenge the Group in successfully completing its assignment, and considerations related to the intended Work-Product.

In doing so, as completely and systematically as possible, our intention was as follows:

- Ensure that each national participant nominated at least one issue topic of particular concern;
- Ensure that at least one topic was nominated for consideration by each individual participating in the study;
- Arrange that each topic was ‘adopted’ by some one individual, who would be depended upon to pursue resolution throughout the study process; and
- Arrange that each adoption allowed individuals with special intensity of concern for a topic to influence the Group’s treatment of that topic issue to their particular satisfaction.

This intention for issue management activity is indicated in the following figure, where abbreviated topic titles associated with General and Administrative, Programme of Work, Technology and Work-Product specification, generation, and publication respectively.

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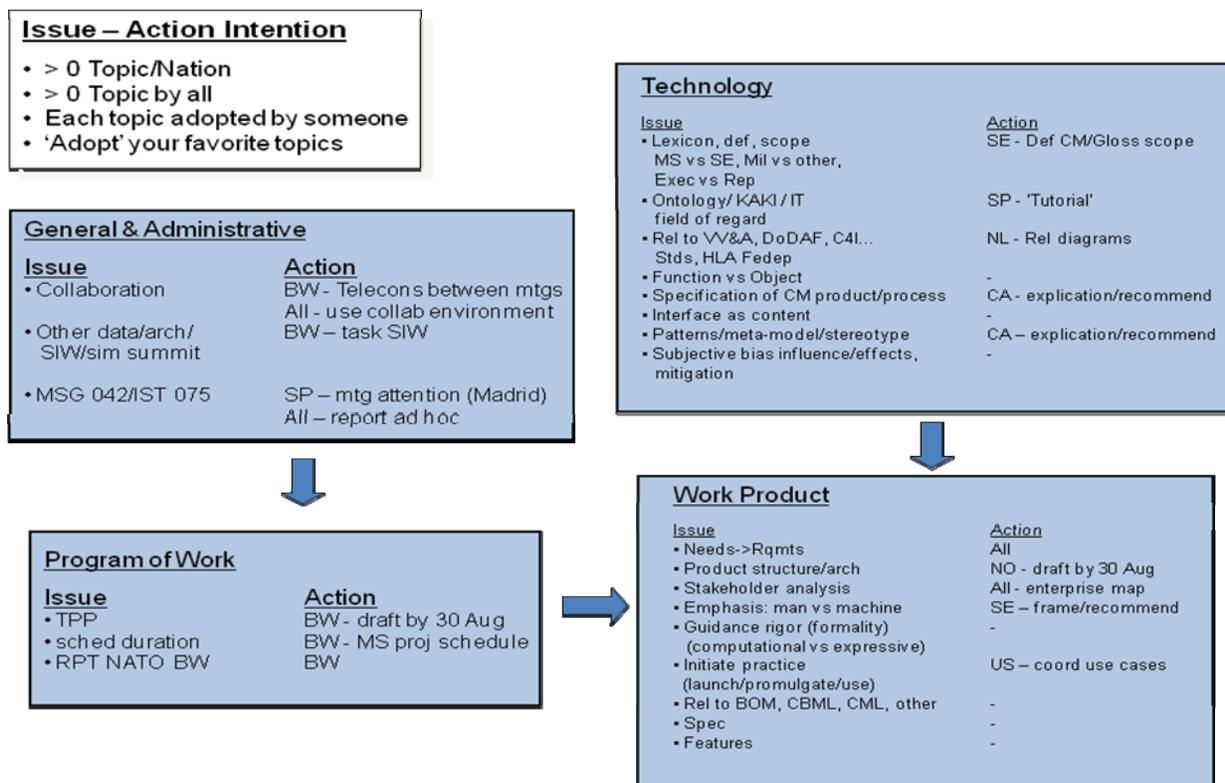


Figure D-1: Outline of Scope and Influence Among Topic Issues Identified by the Task Group in Anticipation of Initiation of Detailed Programme of Work.

It was further resolved by the Task Group that for each issue topic, the designated agent, would provide a definition, indicate stakeholder needs, specify the scope of concern of the topic, and establish other such attributes of the identification and specification of the issue, together with recommendations of actions whereby the effect of each issue in areas of Technology, Work-Product, Programme of Work, and meta-process would be made a matter of record and so duly respected by the team during the consequent effort. This intention is indicated diagrammatically in the following figure.

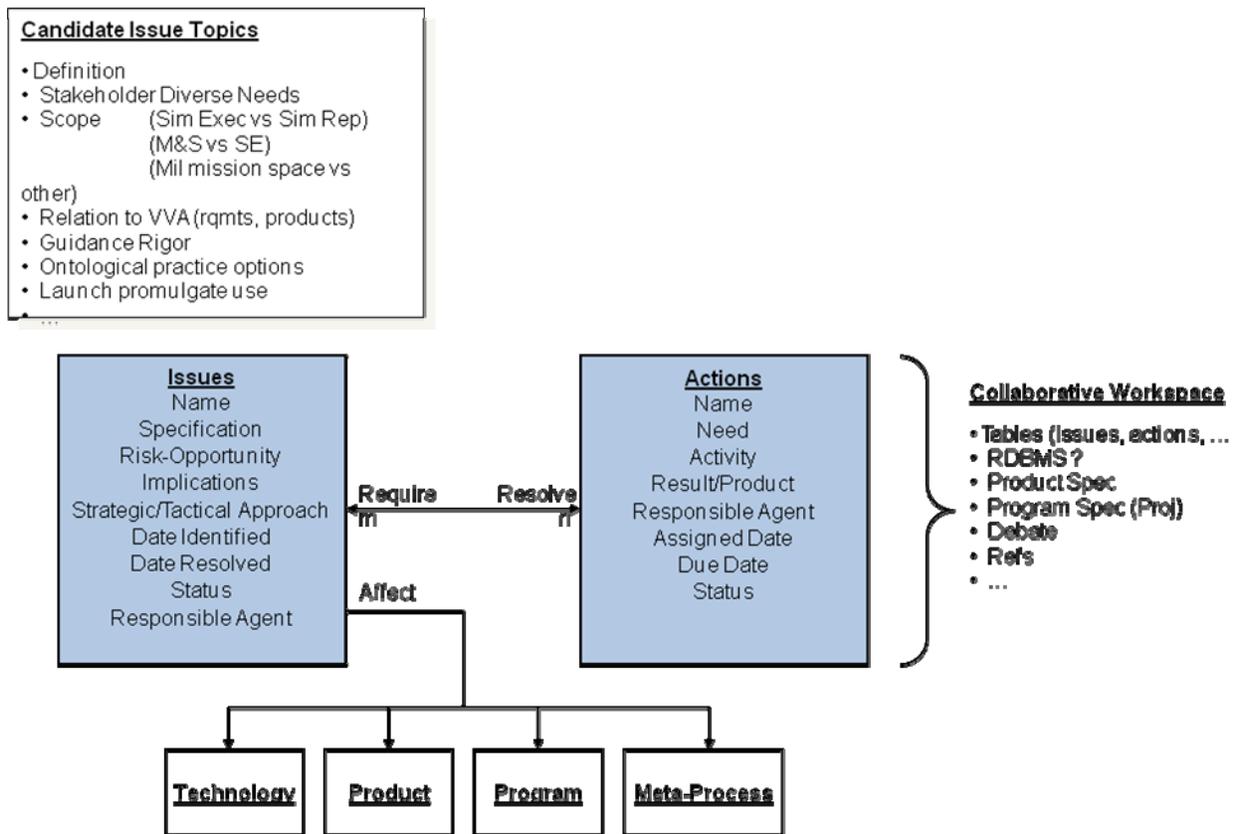


Figure D-2: Schematic of Specification of Topical Issue, Resolution Action and Influence.

Finally, the suite of issues so identified were reviewed by the Team in order to establish a priority list and to identify the highest priority issue topics in order that the sensitivity of the study Task Group might continue to be focused on a consensus basis throughout the duration of the effort. The list that follows indicates the 5 most important topical issues identified by consensus of the group.

- 1) Stakeholder Analysis and Context;
- 2) Scope and definition;
- 3) Relationship to standards;
- 4) Specification of Conceptual Model Management Process; and
- 5) Specification of Conceptual Model Artefact.

The following table provides the details of the priority vote-ordering of the total list of topical issues considered.

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Table D-1: Total List of Candidate Topic Issues, With Team Vote Compilation of Significance of Each.

Circumstances and Analytical Context:	Score 1-5
Stakeholder Analysis and Context (20)	1,1,1,2,1,1,1,1,2→11
Effort Analytical Frame (e.g. ‘Conceptual model’ versus ‘Ontology’ ... DODAF, MDA versus ontology ...system eng, software eng, ? engineering... OWL / Rules ... ‘ontology’ pragmatic selection of operating locus within the manifold of knowledge management → capture as ‘operational strategy’)	2,3,2,3,3,2,2,2,1,→20
Intention:	
Product influence-utility scope ... “Scope” – M&S? Military? Versus SE? Executable versus Representation? Order (CM / Mil / M&S vs. CM / M&S / Mil)	1,2,1,1,1,2,1,1,1,→11
Guidance rigor (22)	3,1,3,3,2,1,2,2,3,→20
Style of influence (e.g. CMMI?)	
Authoritative standing	
Enforcement strategy	
Product Development and Deployment:	
Product needs/requirements discrimination (18)	4,3,3,4,1,2,3,4,3,→27
Work- Product content structure/architecture (19)	1,5,3,3,1,3,1,2,4→23
Exposition	
Lexical analysis and documentation (10)	
Reference analysis and documentation	
Specification of Conceptual Model Management Process	1,1,1,1,2,2,1,1,2,→12
Process content	
Expository schema	
Subjective bias/influence/effects (ontological relativism) mitigation (17)	
Specification of Conceptual Model Artefact (14)	1,1,1,1,1,1,1,1,2,→10
Specification requirements	
Expository Schema	
Conceptual Model contingency with respect to detail of conceptual model, its relationship to simulation lifecycle evolution, its multiplicity of views, its computability and its creditability.	
Prototyping with Guidance-Product	3,4,3,1,3,4,4,3,3,→28

Circumstances and Analytical Context:	Score 1-5
Product Development and Deployment (cont'd):	
Identify/enlist trial-horse sample problems	
Establish preliminary guidance	
Execute prototype	
Abstract lessons learned	
Document effort	
Deployment/employment of guidance	5,3,3,1,4,2,2,3,4, →27
Recommendations	
Initiate practice (23)	
Deployment Campaign	
Institutional Coordination	
Technical Considerations:	
Ontology (11)	2,2,1,1,4,1,1,2,3, →17
Function versus Object (13)	4,4,2,5,1,2,4,5,2, →29
Emphasis man vs. machine (21)	5,2,1,2,4,1,2,4,2, →23
Interface (only) vs. Context (15)	2,3,2,5,3,3,4,3,1, →26
Patterns/meta-model/stereotype (16)	2,3,2,5,4,3,2,2,4 →27
Relationship to Standards ... DODAF, etc. others	2,1,2,1,3,1,1,1,1, →13
Relationship to VV&A (12)	1,2,2,2,2,3,3,3,2, →20
Relationship to BOM, CBML, CML, other (24)	2,2,2,2,3,3,2,2,1, →19
Intellectual Property management	3,5,4,3,4,5,3,4,5 →36

