



Unified Architecture Framework (UAF) Traceability (Informative)

Appendix A

Version 1.2

OMG Document Number: formal/22-07-07

Standard document URL: <https://www.omg.org/spec/UAF/1.2>

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1. Introduction

The intent of this document is to provide the mapping tables between the:

- UAF view specifications to the viewpoints in the donor frameworks,
- UAF elements to the elements in the donor frameworks, and
- UAF elements to the SysML stereotypes and UML Metaclasses that they extend.

This is to help tool vendors and potential users understand the relationships that exist between the UAF and its donor frameworks. The tables in this document also satisfy a number of requirements, as detailed in the original UPDM 3.0 RFP.

2. Framework Traceability

This section of the document details the mapping of the view specifications between UAF to the viewpoints in donor frameworks that contribute to the UAF. It should be noted that the mapping between the view specifications in the UAF to the viewpoints in the donor frameworks is not a direct one to one mapping. Where a UAF view specification maps to more than one viewpoint in a donor framework it means that the information defined in the UAF view specifications supports all the indicated viewpoints in the contributing framework. In some cases, a view specification from the UAF provides partial support to a viewpoint in a contributing framework.

An overview of the UAF view specifications can be seen in the grid in Figure 7=1 of UAF DMM document ([formal/22-](#)). It is advised that readers of this document refer to the UAF grid and the appropriate framework grid overlays whilst examining the mapping tables to understand the correspondence between them.

2.1 UAF 1.2 to DoDAF 2.02 Mapping

Table 2:1 - UAF 1.2 to DoDAF 2.02 Mapping

UAF 1.2	UAF View Specification	DoDAF 2.02	DoDAF 2.02 Long Name
Am-Cn	Architecture References	-	-
Am-Ct	Architecture Constraints	-	
Am-If	Information: Dictionary	AV-2	Integrated Dictionary
Am-Mv	Architecture Principles	-	-
Am-Pm	Architecture Parameters	-	-
AM-Pr	Architecture Development Method	-	-
Am-Rm	Architecture Roadmap	-	-
Am-Sr	Architecture Views	-	-
Am-St	Architecture Status	-	-
Am-Tr	Architecture Traceability	-	-
Am-Tx	Architecture Extensions	-	-
Ar-Cn	Actual Resources Connectivity	OV-4 SV-1 SV-2	Organizational Relationships Chart, Systems interface description, Systems resource flow description
Ar-Sr	Actual Resources Structure	OV-4	Organizational Relationships Chart
En-Pm	Parameters: Environment	-	
Me-Pm	Parameters: Measurements	SV-7 SvcV-7	Systems Measures Matrix Services Measures Matrix
Op-Cn	Operational Connectivity	OV-2 OV-3	Operational Resource Flow Description Operational Resource Flow Matrix
Op-Ct	Operational Constraints	OV-6a	Operational Rules Model
Op-If	Information: Operational Information	DIV-2	Logical Data Model
Op-Pr	Operational Processes	OV-5a OV-5b	Operational Activity Decomposition Tree Operational Activity Model
Op-Sq	Operational Sequences	OV-6c	Event-Trace Description
Op-St	Operational States	OV-6b	State Transition Description
Op-St	Operational Structure	OV-2	Operational Resource Flow Description

UAF 1.2	UAF View Specification	DoDAF 2.02	DoDAF 2.02 Long Name
Op-Tr	Operational Traceability	CV-6	Capability to Operational Activities Mapping
Op-Tx	Operational Taxonomy	OV-1 OV-2	High Level Operational Concept Graphic Operational Resource Flow Description
Pj-Cn	Projects Connectivity	PV-2	Project Timelines
Pj-Pr	Projects Processes	-	-
Pj-Rm	Projects Roadmap	PV-2	Project Timelines
Pj-Sr	Projects Structure	PV-1	Project Portfolio Relationships
Pj-Tr	Projects Traceability	PV-3	Project to Capability Mapping
Pj-Tx	Projects Taxonomy	PV-1	Project Portfolio Relationships
Ps-Cn	Personnel Connectivity	SV-3 SV-6	Systems-Systems Matrix Systems Resource Flow Matrix
Ps-Ct	Personnel Constraints: Competence	OV-4	Organizational Relationships Chart
Ps-Ct	Personnel Constraints: Drivers	SV-10a	Systems Rules Model
Ps-Ct	Personnel Constraints: Performance	SV-7	Systems Measures Matrix
Ps-Pr	Personnel Processes	SV-4	Systems Functionality Description
Ps-Rm-A	Personnel Roadmap: Availability	-	-
Ps-Rm-E	Personnel Roadmap: Evolution	SV-8	Systems Evolution Description
Ps-Rm-F	Personnel Roadmap: Forecast	SV-9	Systems Technology & Skills Forecast
Ps-Sq	Personnel Scenarios	SV-10c	Systems Event-Trace Description
Ps-Sr	Personnel Structure	OV-4	Organizational Relationships Chart
Ps-St	Personnel States	SV-10b	Systems State Transition Description
Ps-Tr	Personnel Traceability	SV-5a SV-5b	Operational Activity to Systems Function Traceability Matrix, Operational Activity to Systems Traceability Matrix
Ps-Tx	Personnel Taxonomy	OV-4	Organizational Relationships Chart
Rk-Pm	Parameters: Risks	-	-
Rq-Mv	Motivation: Requirements	-	-
Rs-Cn	Resources Connectivity	SV-3 SV-6	Systems-Systems Matrix Systems Resource Flow Matrix
Rs-Ct	Resources Constraints	SV-10a	Systems Rules Model
Rs-If	Information: Resources Information	DIV-3	Physical Data Model
Rs-Pr	Resources Processes	SV-4	Systems Functionality Description
Rs-Rm	Resources Roadmap: Evolution	SV-8	Systems Evolution Description
Rs-Rm	Resources Roadmap: Forecast	SV-9	Systems Technology & Skills Forecast
Rs-Sq	Resources Sequences	SV-10c	Systems Event-Trace Description
Rs-sr	Resources Structure	SV-1 SV-2	Systems Interface Description Systems Resource Flow Description
Rs-St	Resources States	SV-10b	Systems State Transition Description
Rs-Tr	Resources Traceability	SV-5a SV-5b	Operational Activity to Systems Function Traceability Matrix Operational Activity to Systems Traceability Matrix
Rs-Tx	Resources Taxonomy	SV-1 SV-2	Systems Interface Description Systems Resource Flow Description
Sc-Cn	Security Connectivity	-	-

UAF 1.2	UAF View Specification	DoDAF 2.02	DoDAF 2.02 Long Name
Sc-Ct	Security Constraints	-	-
Sc-Mv	Security Controls	-	-
Sc-Pr	Security Processes	-	-
Sc-Sr	Security Structure	-	-
Sc-Tr	Security Traceability	-	-
Sc-Tx	Security Taxonomy	-	-
Sd-Rm	Standards Roadmap	StdV-2	Standards Forecast
Sd-Sr	Standards Structure	StdV-1	Standards Profile
Sd-Tr	Standards Traceability	StdV-1	Standards Profile
Sd-Tx	Standards Taxonomy	StdV-1	Standards Profile
Sm-Ov	Summary & Overview	AV-1	Overview and Summary Information
St-Cn	Strategic Connectivity	CV-4	Capability Dependencies
St-Ct	Strategic Constraints	-	-
St-If	Information: Strategic Information	DIV-1	Conceptual Data Model
St-Mv	Strategic Motivation	-	-
St-Pr	Strategic Processes	CV-1	Vision
St-Rm-Dm	Strategic Roadmap: Deployment	CV-5	Capability to Organizational Development Mapping
St-Rm-P	Strategic Roadmap: Phasing	CV-3	Capability Phasing
St-Sr	Strategic Structure	CV-2	Capability Taxonomy
St-St	Strategic States	-	
St-Tr	Strategic Traceability	-	
St-Tx	Strategic Taxonomy	CV-2	Capability Taxonomy
Sv-Cn	Services Connectivity	SvcV-3a SvcV-3b SvcV-6	Systems-Services Matrix Services-Services Matrix Services Resource Flow Matrix
Sv-Ct	Services Constraints	SvcV-10a	Services Rules Model
Sv-Pr	Services Processes	SvcV-4	Services Functionality Description
Sv-Rm	Services Roadmap: Evolution	SvcV-8 SvcV-9	Services Evolution Description Services Technology & Skills Forecast
Sv-Sq	Services Sequences	SvcV-10c	Services Event-Trace Description
Sv-Sr	Services Structure	SvcV-1 SvcV-2	Services Context Description Services Resource Flow Description
Sv-St	Services States	SvcV-10b	Services State Transition Description
Sv-Tr	Services Traceability	CV-7 SvcV-5	Capability to Services Mapping Operational Activity to Services Traceability Matrix
Sv-Tx	Services Taxonomy	SvcV-1	Services Context Description

2.2 UAF 1.2 to MODAF 1.2 Mapping

Table 1:2 - UAF 1.2 to MODAF 1.2 Mapping

UAF 1.2	UAF View Specification	MODAF 1.2	MODAF 1.2 Long Name
Am-Cn	Architecture References	-	-
Am-Ct	Architecture Constraints	-	-
Am-If	Information: Dictionary	AV-2	Integrated Dictionary
Am-Mv	Architecture Principles	-	-
Am-Pm	Architecture Parameters	-	-
AM-Pr	Architecture Development Method	-	-
Am-Rm	Architecture Roadmap	-	-
Am-Sr	Architecture Views	-	-
Am-St	Architecture Status	-	-
Am-Tr	Architecture Traceability	-	-
Am-Tx	Architecture Extensions	-	-
Ar-Cn	Actual Resources Connectivity	OV-4 Actual SV-1	Organisational Relationships Chart Resource Interaction Specification
Ar-Sr	Actual Resources Structure	OV-4 Actual	Organisational Relationships Chart
En-Pm	Parameters: Environment	-	-
Me-Pm	Parameters: Measurements	OV-1c SV-7	Operational Performance Attributes Resource Performance Parameters Matrix
Op-Cn	Operational Connectivity	OV-2 OV-3	Operational Node Relationships description Operational Information Exchange Matrix
Op-Ct	Operational Constraints	OV-6a	Operational Rules Model
Op-If	Information: Operational Information	OV-7	Information Model
Op-Pr	Operational Processes	OV-5	Operational Activity Model
Op-Sq	Operational Sequences	OV-6c	Operational Event-Trace Description
Op-Sr	Operational Structure	OV-2	Operational Node Relationships description
Op-St	Operational States	OV-6b	Operational State Transition Description
Op-Tr	Operational Traceability	StV-6	Operational Activity to Capability Mapping
Op-Tx	Operational Taxonomy	OV-1a OV-1b OV-2	High-Level Operational Concept Graphic Operational Concept Description Operational Node Relationships description
Pj-Cn	Projects Connectivity	AcV-2	Programme Timelines
Pj-Pr	Projects Processes	-	-
Pj-Rm	Projects Roadmap	AcV-2	Programme Timelines
Pj-Sr	Projects Structure	AcV-1	Acquisition Clusters
Pj-Tr	Projects Traceability	-	-
Pj-Tx	Projects Taxonomy	AcV-1	Acquisition Clusters
Ps-Cn	Personnel Connectivity	OV-4 Typical SV-6	Organisational Relationships Chart Systems Data Exchange Matrix
Ps-Ct	Personnel Constraints: Competence	OV-4 Typical	Organisational Relationships Chart

UAF 1.2	UAF View Specification	MODAF 1.2	MODAF 1.2 Long Name
Ps-Ct	Personnel Constraints: Drivers	SV-10a	Resource Constraints Specification
Ps-Ct	Personnel Constraints: Performance	SV-7	Resource Performance Parameters Matrix
Ps-Pr	Personnel Processes	SV-4	Functionality Description
Ps-Rm-A	Personnel Roadmap: Availability	AcV-2	Programme Timelines
Ps-Rm-E	Personnel Roadmap: Evolution	SV-8	Capability Configuration Management
Ps-Rm-F	Personnel Roadmap: Forecast	SV-9	Technology & Skills Forecast
Ps-Sq	Personnel Sequences	SV-10c	Resource Event-Trace Description
Ps-Sr	Personnel Structure	OV-4 Typical	Organisational Relationships Chart
Ps-St	Personnel States	SV-10b	Resource State Transition Description
Ps-Tr	Personnel Traceability	SV-5	Function to Operational Activity / Service Function Traceability Matrix
Ps-Tx	Personnel Taxonomy	OV-4 Typical	Organisational Relationships Chart
Rk-Pm	Parameters: Risks	-	-
Rq-Mv	Motivation: Requirements	-	-
Rs-Cn	Resources Connectivity	SV-1 SV-2b SV-3 SV-6	Resource Interaction Specification System Port Connectivity Description Resource Interaction Matrix Systems Data Exchange Matrix
Rs-Ct	Resources Constraints	SV-10a	Resource Constraints Specification
Rs-If	Information: Resources Information	SV-11	Physical Schema
Rs-Pr	Resources Processes	SV-4	Functionality Description
Rs-Rm	Resources Roadmap: Evolution	SV-8	Capability Configuration Management
Rs-Rm	Resources Roadmap: Forecast	SV-9	Technology & Skills Forecast
Rs-Sq	Resources Sequences	SV-10c	Resource Event-Trace Description
Rs-Sr	Resources Structure	SV-1 SV-2c	Resource Interaction Specification System Port Specification System Port Connectivity Description System Connectivity Clusters
Rs-St	Resources States	SV-10b	Resource State Transition Description
Rs-Tr	Resources Traceability	SV-5 SV-12	Function to Operational Activity / Service Function Traceability Matrix Service Provision
Rs-Tx	Resources Taxonomy	SV-1 SV-2a	Resource Interaction Specification System Port Specification
Sc-Cn	Security Connectivity	-	
Sc-Ct	Security Constraints	-	
Sc-Mv	Security Controls	-	-
Sc-Pr	Security Processes	-	
Sc-Sr	Security Structure	-	
Sc-Tr	Security Traceability	-	-
Sc-Tx	Security Taxonomy	-	
Sd-Rm	Standards Roadmap	TV-2	Standards Forecast
Sd-Sr	Standards Structure	TV-1	Standards Profile
Sd-Tr	Standards Traceability	TV-1	Standards Profile
Sd-Tx	Standards Taxonomy	TV-1	Standards Profile
Sm-Ov	Summary & Overview	AV-1	Overview & Summary Information
St-Cn	Strategic Connectivity	StV-4	Capability Dependencies

UAF 1.2	UAF View Specification	MODAF 1.2	MODAF 1.2 Long Name
St-Ct	Strategic Constraints	-	
St-If	Information: Strategic Information	-	-
St-Mv	Strategic Motivation	-	-
St-Pr	Strategic Processes	StV-1	Enterprise Vision
St-Rm-D	Strategic Roadmap: Deployment	StV-5	Capability to Organisation Deployment Mapping
St-Rm-P	Strategic Roadmap: Phasing	StV-3	Capability Phasing
St-Sr	Strategic Structure	StV-2	Capability Taxonomy
St-St	Strategic States	-	
St-Tr	Strategic Traceability	-	
St-Tx	Strategic Taxonomy	StV-2	Capability Taxonomy
Sv-Cn	Services Connectivity	SOV-2	Service Interface Specification
Sv-Ct	Services Constraints	SOV-4a	Service Constraints
Sv-Pr	Services Processes	SOV-5	Service Functionality
Sv-Rm	Services Roadmap: Evolution	-	
Sv-Sq	Services Sequences	SOV-4c	Service Interaction Specification
Sv-Sr	Services Structure	SOV-2	Service Interface Specification
Sv-St	Services States	SOV-4b	Service State Model
Sv-Tr	Services Traceability	SOV-3	Capability to Service Mapping
Sv-Tx	Services Taxonomy	SOV-1	Service Taxonomy

2.3 UAF 1.2 to NAF 3.1 Mapping

Table 2:2 - UAF 1.2 to NAF 3.1 Mapping

UAF 1.2	UAF View Specification	NAF 3.1	NAF 3.1 Long Name
Am-Cn	Architecture References	-	-
Am-Ct	Architecture Constraints	-	-
Am-If	Information: Dictionary	NAV-2	Integrated Dictionary
Am-Mv	Architecture Principles	-	-
Am-Pm	Architecture Parameters	-	-
AM-Pr	Architecture Development Method	-	-
Am-Rm	Architecture Roadmap	-	-
Am-Sr	Architecture Views	-	-
Am-St	Architecture Status	-	-
Am-Tr	Architecture Traceability	-	-
Am-Tx	Architecture Extensions	NAV-3a NAV-3b	Architecture Compliance Statement Metadata Extensions
Ar-Cn	Actual Resource Connectivity	NOV-4 Actual NSV-1	Organisational Relationship Chart System Interface Description
Ar-Sr	Actual Resource Structure	NOV-4 Actual	Organisational Relationship Chart, (IBDs, Parametrics)
En-Pm	Parameters: Environment	-	-
Me-Pm	Parameters: Measurements	NSV-7	System Quality Requirements Description

UAF 1.2	UAF View Specification	NAF 3.1	NAF 3.1 Long Name
Op-Cn	Operational Connectivity	NOV-2 NOV-3	Operational Node Connectivity Description Operational Information Requirements
Op-Ct	Operational Constraints	NOV-6a	Operational Rule Model
Op-If	Information: Operational Information	NSV-11a	Logical Data Model
Op-Pr	Operational Processes	NOV-5	Operational Activity Model
Op-Sq	Operational Sequences	NOV-6c	Operational Event-Trace Description
Op-St	Operational States	NOV-6b	Operational State Transition Description
Op-St	Operational Structure	NOV-2	Operational Node Connectivity Description
Op-Tr	Operational Traceability	NCV-6	Capability to Operational Activities Mapping
Op-Tx	Operational Taxonomy	NOV-1 NOV-2	High-Level Operational Concept Description Operational Node Connectivity Description
Pj-Cn	Projects Connectivity	NPV-1	Programme Portfolio Relationships
Pj-Pr	Projects Processes	-	-
Pj-Rm	Projects Roadmap	NPV-1	Programme to Capability Mapping
Pj-Sr	Projects Structure	NPV-1	Programme Portfolio Relationships
Pj-Tr	Projects Traceability	NPV-2	Programme to Capability Mapping
Pj-Tx	Projects Taxonomy	NPV-1	Programme Portfolio Relationships
Ps-Cn	Personnel Connectivity	NOV-4 Typical NSV-6	Organisational Relationship Chart Systems Data Exchange Matrix
Ps-Ct	Personnel Constraints: Competence	NOV-4 Typical	Organisational Relationship Chart
Ps-Ct	Personnel Constraints: Drivers	NSV-10a	Systems Rules Model
Ps-Ct	Personnel Constraints: Performance	NSV-7	System Quality Requirements Description
Ps-Pr	Personnel Processes	NSV-4	System Functionality Description
Ps-Rm-A	Personnel Roadmap: Availability	-	--
Ps-Rm-E	Personnel Roadmap: Evolution	NSV-8	Systems Evolution Description
Ps-Rm-F	Personnel Roadmap: Forecast	NSV-9	Technology Forecast
Ps-Sq	Personnel Scenarios	NSV-10c	Systems Event-Trace Description
Ps-Sr	Personnel Structure	NOV-4 Typical	Organisational Relationship Chart
Ps-St	Personnel States	NSV-10b	Systems State Transition Description
Ps-Tr	Personnel Taxonomy	NOV-4 Typical	Organisational Relationship Chart
Ps-Tx	Personnel Traceability	NSV-5	Systems Function to Operational Activity Traceability Matrix
Rk-Pm	Parameters: Risks	-	-
Rq-Mv	Motivation: Requirements Requirements	-	-
Rs-Cn	Resources Connectivity	NSV-1 NSV-2b NSV-3 NSV-6	System Interface Description System to System Port Connectivity Systems-Systems Matrix Systems Data Exchange Matrix
Rs-Ct	Resources Constraints	NSV-10a	Systems Rules Model
Rs-If	Information: Resources Information	NSV-11b	Physical Data Model
Rs-Pr	Resources Processes	NSV-4	System Functionality Description
Rs-Rm	Resources Roadmap: Evolution	NSV-8	Systems Evolution Description
Rs-Rm	Resources Roadmap: Forecast	NSV-9	Technology Forecast
Rs-Sq	Resources Sequences	NSV-10c	Systems Event-Trace Description

UAF 1.2	UAF View Specification	NAF 3.1	NAF 3.1 Long Name
Rs-Sr	Resources Structure	NSV-1 NSV-2c	System interface Description System Connectivity Clusters
Rs-St	Resources States	NSV-10b	Systems State Transition Description
Rs-Tr	Resources Traceability	NSV-5 NSV-12	Systems Function to Operational Activity Traceability Matrix Service Provision
Rs-Tx	Resources Taxonomy	NSV-1 NSV-2a	System Interface Description System Port Specification
Sc-Cn	Security Connectivity	-	-
Sc-Ct	Security Constraints	-	-
Sc-Mv	Security Controls	-	-
Sc-Pr	Security Processes	-	-
Sc-Sr	Security Structure	-	-
Sc-Tr	Security Traceability	-	-
Sc-Tx	Security Taxonomy	-	-
Sd-Rm	Standards Roadmap	NTV-2	Technical Standards Forecast
Sd-Sr	Standards Structure	NTV-3	Standard Configurations
Sd-Tr	Standards Traceability	NTV-1	Technical Standards Profile
Sd-Tx	Standards Taxonomy	NTV-1	Technical Standards Profile
Sm-Ov	Summary & Overview	NAV-1	Overview and Summary Information
St-Cn	Strategic Connectivity	NCV-4	Capability Dependencies.
St-Ct	Strategic Constraints	-	-
St-If	Information: Strategic Information	NOV-7	Information Model
St-Mv	Strategic Motivation	-	-
St-Pr	Strategic Processes	NCV-1	Capability Vision
St-Rm-D	Strategic Roadmap: Deployment	NCV-5	Capability to Organisational Deployment Mapping
St-Rm-P	Strategic Roadmap: Phasing	NCV-3	Capability Phasing
St-Sr	Strategic Structure	NCV-2	Capability Taxonomy
St-St	Strategic States	-	-
St-Tr	Strategic Traceability	-	-
St-Tx	Strategic Taxonomy	NCV-2	Capability Taxonomy
Sv-Cn	Services Connectivity	NSOV-2	Service Definition
Sv-Ct	Services Constraints	NSOV-2	Service Definition
Sv-Pr	Services Processes	NSOV-5	Service Behaviour
Sv-Rm	Services Roadmap: Evolution	-	-
Sv-Sq	Services Sequences	NSOV-4	Service Orchestration
Sv-Sr	Services Structure	-	-
Sv-St	Services States	-	-
Sv-Tr	Services Traceability	NCV-7 NSOV-3	Capability to Services Mapping Services to Operational Activities Mapping
Sv-Tx	Services Taxonomy	NSOV-1	Service Taxonomy

2.4 UAF 1.2 to NAF 4.0 Mapping

Table 2:3 - UAF 1.2 to NAF 4.0 Mapping

UAF 1.2	UAF View Specification	NAF 4.0	NAF 4.0 Long Name
Am-Cn	Architecture References	-	-
Am-Ct	Architecture Constraints	A7	Architecture Compliance
Am-If	Information: Dictionary	A1	Meta-Data Definitions
Am-Mv	Architecture Principles	-	-
Am-Pm	Architecture Parameters	-	-
AM-Pr	Architecture Development Method	A4	Methodology Used
Am-Rm	Architecture Roadmap	Ar A6	Architecture Roadmap Architecture Versions
Am-Sr	Architecture Views	A2	Architecture Products
Am-St	Architecture Status	A5	Architecture Status
Am-Tr	Architecture Traceability	-	-
Am-Tx	Architecture Extensions	A1	Meta-Data Definitions
Ar-Cn	Actual Resources Connectivity	-	-
Ar-Sr	Actual Resources Structure	P2	Resource Types
En-Pm	Parameters: Environment	-	
Me-Pm	Parameters: Measurements	C7 S7	Performance Parameters Service I/F Parameters
Op-Cn	Operational Connectivity	L3 L2-L3	Node Interactions Logical Concept
Op-Ct	Operational Constraints	L8	Logical Constraints
Op-If	Information: Operational Information	L7	Information Model
Op-Pr	Operational Processes	L4	Logical Activities
Op-Sq	Operational Sequences	L6	Logical Sequence
Op-Sr	Operational Structure	L2 L2-L3	Logical Scenario Logical Concept
Op-St	Operational States	L5	Logical States
Op-Tr	Operational Traceability	-	
Op-Tx	Operational Taxonomy	L1	Node Types
Pj-Cn	Projects Connectivity	-	
Pj-Pr	Projects Processes	-	
Pj-Rm	Projects Roadmap	Lr	Lines of Development
Pj-Sr	Projects Structure	-	
Pj-Tr	Projects Traceability	-	
Pj-Tx	Projects Taxonomy	-	
Ps-Cn	Personnel Connectivity	P3	Resource Connectivity
Ps-Ct	Personnel Constraints: Competence	-	
Ps-Ct	Personnel Constraints: Drivers	-	
Ps-Ct	Personnel Constraints: Performance	-	
Ps-Pr	Personnel Processes	P4	Resource Functions

UAF 1.2	UAF View Specification	NAF 4.0	NAF 4.0 Long Name
Ps-Rm-A	Personnel Roadmap: Availability	P8	Resource Constraints
Ps-Rm-E	Personnel Roadmap: Evolution	P8	Resource Constraints
Ps-Rm-F	Personnel Roadmap: Forecast	P8	Resource Constraints
Ps-Sq	Personnel Sequences	P6	Resource Sequence
Ps-Sr	Personnel States	P5	Resource States
Ps-St	Personnel Structure	P2	Resource Structure
Ps-Tr	Personnel Taxonomy	P1	Resource Types
Ps-Tx	Personnel Traceability	L4-P4	Activity to Function Mapping
Rk-Pm	Parameters: Risks	-	-
Rq-Mv	Motivation: Requirements	-	-
Rs-Cn	Resources Connectivity	P3	Resource Connectivity
Rs-Ct	Resources Constraints	P8	Resource Constraints
Rs-If	Information: Resources Information	P7	Data Model
Rs-Pr	Resources Processes	P4	Resource Functions
Rs-Rm	Resources Roadmap: Evolution	Pr	Configuration Management
Rs-Rm	Resources Roadmap: Forecast	Pr	Configuration Management
Rs-Sq	Resources Sequences	P6	Resource Sequence
Rs-St	Resources States	P5	Resource States
Rs-St	Resources Structure	P2	Resource Structure
Rs-Tr	Resources Traceability	L4-P4	Activity to Function Mapping
Rs-Tx	Resources Taxonomy	P1	Resource Types
Sc-Cn	Security Connectivity	-	
Sc-Ct	Security Constraints	-	
Sc-Mv	Security Controls	-	-
Sc-Pr	Security Processes	-	-
Sc-Sr	Security Structure	-	
Sc-Tr	Security Taxonomy	-	
Sc-Tx	Security Traceability	-	-
Sd-Rm	Standards Roadmap	A8	Standards
Sd-Sr	Standards Structure	-	-
Sd-Tr	Standards Traceability	A8	Standards
Sd-Tx	Standards Taxonomy	A8	Standards
Sm-Ov	Summary & Overview	-	-
St-Cn	Strategic Connectivity	C3	Capability Dependencies
St-Ct	Strategic Constraints	C8	Planning Assumptions
St-If	Information: Strategic Information	-	-
St-Mv	Strategic Motivation	-	-
St-Pr	Strategic Processes	C2	Enterprise Vision
St-Rm-Dm	Strategic Roadmap: Deployment	Cr	Capability Roadmap
St-Rm-P	Strategic Roadmap: Phasing	Cr	Capability Roadmap
St-Sr	Strategic Structure	C1	Capability Taxonomy
St-St	Strategic States	C5	Effects

UAF 1.2	UAF View Specification	NAF 4.0	NAF 4.0 Long Name
St-Tr	Strategic Traceability	-	-
St-Tx	Strategic Taxonomy	C1	Capability Taxonomy
Sv-Cn	Services Connectivity	S3	Service Interfaces
Sv-Ct	Services Constraints	S8	Service Policy
Sv-Pr	Services Processes	S4	Service Functions
Sv-Rm	Services Roadmap: Evolution	Sr	Service Roadmap
Sv-Sq	Services Sequences Interaction Scenarios	S6	Service Interactions
Sv-Sr	Services Structure	S2	Service Structure
Sv-St	Services States	S5	Service States
Sv-Tr	Services Traceability	C1-S1	Capability to Service Mapping
Sv-Tx	Services Taxonomy	S1	Service Taxonomy

2.5 UAF 1.2 to DNDAF Security Views Mapping

Table 2:5 - UAF 1.2 to DNDAF Security Views Mapping

	UAF View Specification	DNDAF	DNDAF Long Name
Sc-Cn	Security Connectivity	SecV-2, SecV-3	Data Element Security Matrix Aggregated Information Security Matrix
Sc-Ct	Security Constraints	SecV-1	Risk Assessment
Sc-Mv	Security Controls	-	-
Sc-Pr	Security Processes	SecV-1	Risk Assessment
Sc-Sr	Security Structure	-	-
Sc-Tr	Security Taxonomy	-	-
Sc-Tx	Security Traceability	-	-

3. UAF Element Mapping to UPDM 2.1, MODEM and DoDAF 2.02

Table 3:1 – UAF 1.2 Element Mapping to UAF 1.1, UPDM 2.1, MODEM and DoDAF 2.02

UAF 1.2 Element Name	UAF 1.1. Name	UPDM 2.1 Name	MODEM Name	DM2 Name
Achieves	AchievedEffect	NA	NA	NA
ActualCondition	ActualCondition	NA but nearest is an ActualPropertySet	NA. Comment: EnvironmentalFactor exists at the type level to deal with this, not at the individual level. An individual can easily be created however.	Condition
ActualEffect	NA	NA	NA	NA
ActualEnduringTask	ActualEnduringTask	NA but nearest is an instance of an EnduringTask	EnduringTask	NA
ActualEnterprisePhase	ActualEnterprisePhase	NA but nearest is an instance of an EnterprisePhase	EnterprisePhase	NA
ActualEnvironment	ActualEnvironment	NA but nearest is an instance of an ActualPropertySet	NA. Comment: EnvironmentalFactor exists at the type level to deal with this, not at the individual level. An individual can easily be created however.	NA
ActualLocation	ActualLocation	ActualLocation	GeopoliticalLocation	Location
ActualMeasurement	ActualMeasurement	ActualMeasurement	An instance of measure. The IDEAS Foundation element is Measure.	Instance of a Measure
ActualMeasurementSet	ActualMeasurementsSet	ActualPropertySet	A collection of instances of measure.	NA
ActualOrganization	ActualOrganization	ActualOrganization	Organisation	Organization
ActualOrganizationRole	ActualOrganizationRole	ActualOrganizationRole	OrganisationalRole	NA
ActualOutcome	NA	NA	NA	NA
ActualPerson	ActualPerson	ActualPerson	Person	NA
ActualPost	ActualPost	ActualPost	Post	IndividualPersonRole
ActualProject	ActualProject	ActualProject	Project	Project
ActualProjectMilestone	ActualProjectMilestone	ActualProjectMilestone	ProjectMilestone	NA

UAF 1.2 Element Name	UAF 1.1. Name	UPDM 2.1 Name	MODEM Name	DM2 Name
ActualProjectMilestoneRole	ActualProjectMilestoneRole	ActualProjectMilestoneRole	An instance of ProjectMilestone.	NA
ActualProjectRole	ActualProjectRole	NA	An instance of Project.	NA
ActualPropertySet	ActualPropertySet	ActualPropertySet	Instance of Attribute.	NA
ActualResource	ActualResource	NA but it is instance of a SystemResource	IndividualResource	IndividualResource
ActualResourceRelationship	ActualResourceRelationship	ActualOrganizationRelationship	IndividualResourceInteraction	NA
ActualResourceRole	ActualResourceRole	RolekInd	IndividualResourceElementRole	NA
ActualResponsibility	ActualResponsibility	NA but nearest is an Instance of a Responsibility	AgentCapableOfResponsibility	IndividualPersonRole
ActualService	ActualService	NA but nearest is an Instance of a Service	Instance of service	NA
ActualRisk	ActualRisk	NA	NA	NA
Affects	Affects	NA	NA	NA
AffectsInContext	AffectsInContext	NA	NA	NA
Alias	Alias	Alias	MetaData	Representation
ArbitraryConnector	ArbitraryConnector	ArbitraryConnector	NA	NA
ArchitecturalDescription	ArchitecturalDescription	ArchitecturalDescription	ArchitectureDescription	ArchitecturalDescription
ArchitecturalReference	ArchitecturalReference	ArchitecturalReference	ArchitectureReference	NA
Architecture	Architecture	Architecture	Architecture	NA
ArchitectureMetadata	ArchitectureMetadata	ArchitectureMetadata	architectureMetaData	NA
Capability	Capability	Capability	Capability	Capability
CapabilityConfiguration	CapabilityConfiguration	CapabilityConfiguration	CapabilityConfiguration	System
Challenge	NA	NA	NA	NA
CapabilityRole	CapabilityRole	CapabilityProperty	ApplicableMoE	Whole-part on Capability
Command	Command	Command	Commands	NA
ComparesTo	NA	NA	NA	NA
Competence	Competence	Competence	Competence	Skill
CompetenceForRole	CompetenceForRole	RequiresCompetence	competenceForRole	MeasurableSkillofPersonRole
CompetenceToConduct	CompetenceToConduct	ProvidesCompetence	competenceToConduct	NA

UAF 1.2 Element Name	UAF 1.1. Name	UPDM 2.1 Name	MODEM Name	DM2 Name
ConceptRole	ConceptRole	ConceptRole	NA	Instance of a Performer in an operational context
Concern	Concern	Tag on Viewpoint	Concern	NA
Condition	Condition	EnvironmentProperty or ConditionProperty	Property	Condition
Control	Control	Control	Controls	NA
Creates	NA	NA	NA	NA
ResourceInformation	DataElement	ExchangeElement between Resources	DataElement	Data
InformationModel	DataModel	LogicalDataModel or PhysicalDataModel	DataModel	NA
ResourceInformation Role	DataRole	NA	NA	Whole-part on Data
Definition	Definition	Definition	MetaData indicated by definition.	describedBy Information
Desires	DesiredEffect	DesiredEffect	NA	DesiredEffect
Driver	NA	NA	NA	NA
Effect	NA	NA	NA	NA
Enables	NA	NA	NA	NA
EnhancedSecurityControl	EnhancedSecurityControl	NA	Function	Activity
Enhances	Enhances	NA	realisationAsFieldedCapability	NA
EnterpriseGoal	EnterpriseGoal	EnterpriseGoal	StatementOfGoal indicated to by enterpriseGoal.	NA
EnterpriseMission	ActualEnterprisePhase	Mission	NA	NA
EnterpriseObjective	NA	NA	SubGoal	NA
StrategicPhase	EnterprisePhase, Enduring Task	EnterprisePhase, Enduring Task	EnterprisePhase, Enduring Task	NA
EnterpriseVision	EnterpriseVision	EnterpriseVision	VisionStatement indicated by enterpriseVision.	Vision
Environment	Environment	Environment	EnvironmentalFactor	NA

UAF 1.2 Element Name	UAF 1.1. Name	UPDM 2.1 Name	MODEM Name	DM2 Name
EnvironmentProperty	EnvironmentProperty	EnvironmentProperty	environmentalContext	NA
Exhibits	Exhibits	Exhibits	exhibitsCapability	capabilityOfPerformer
EvokedBy	NA	NA	NA	NA
FieldedCapability	FieldedCapability	FieldedCapability	FieldedCapabilityConfiguration	IndividualResource
FillsPost	FillsPost	FillsPost	responsibleHumanResourceStateOccupiesPost	NA
Forecast	Forecast	Forecast	Forecast	NA
Function	Function	Function	Function	Activity
FunctionAction	FunctionAction	FunctionAction	Function	IndividualActivity
FunctionControlFlow	FunctionControlFlow	FunctionEdge	ProducerFunction, ConsumerFunction	overlap between Activities
FunctionObjectFlow	FunctionObjectFlow	NA	ResourceExport, ResourceImport	activityProducesResource activityConsumesResource
GeoPoliticalExtentType	GeoPoliticalExtentType	GeoPoliticalExtentType	GeoPoliticalLocationType	GeoPoliticalExtent
GovernedBy	NA	NA	NA	NA
HighLevelOperationalConcept	HighLevelOperationalConcept	HighLevelOperationalConcept	NA	NA
ImpactedBy	NA	NA	NA	NA
Implements	Implements	Implements	activityFunctionMapping, nodeRealization, serviceFunctionFunctionMapping	NA
Information	Information	NA	Information	describedBy Information
OperationalInformation	InformationElement	ExchangeElement between Nodes	InformationElement	Information
OperationalInformationRole	InformationRole	NA	NA	Whole-part on Information
IsCapableToPerform	IsCapableToPerform	ActivityPartOfCapability, MapsToCapability	capableOf	activityPerformedbyPerformer
ISO8601DateTime	ISO8601DateTime	ISO8601DateTime	ISO8601DateTime	NA
KnownResource	KnownResource	KnownResource	KnownResource	NA
Location	Location	Location	GeoPoliticalLocation	Location

UAF 1.2 Element Name	UAF 1.1. Name	UPDM 2.1 Name	MODEM Name	DM2 Name
MapsToCapability	MapsToCapability	MapsToCapability	capabilityForTask	activityMapsToCapability
MapsToGoal	NA	NA	NA	NA
Measurement	Measurement	Measurement	Measurement	Measure
MeasurementSet	MeasurementSet	MeasurementSet	NA	NA
Metadata	Metadata	Metadata	MetaData	describedByInformation
MilestoneDependency	MilestoneDependency	MilestoneSequence	milestoneDependency	NA
Mitigates	Mitigates	NA	NA	NA
MotivatedBy	NA	NA	NA	NA
NaturalResource	NaturalResource	Materiel, Energy	NaturalResourceType, NaturalResource	Materiel
OperationalActivity	OperationalActivity	OperationalActivity	OperationalActivity	Activity
OperationalActivityAction	OperationalActivityAction	OperationalActivityAction	OperationalActivity	IndividualActivity
OperationalArchitecture	OperationalArchitecture	LogicalArchitecture	LogicalArchitecture	Performer
OperationalConnector	OperationalConnector	NeedLine	LogicalFlow	NA
OperationalConstraint	OperationalConstraint	OperationalConstraint	Constraint	Rule
OperationalControlFlow	OperationalControlFlow	OperationalActivityEdge	ProducerActivity, ConsumerActivity	overlap between Activities
OperationalExchange	OperationalExchange	OperationalExchange	LogicalFlow	overlap between Performers
OperationalInterface	OperationalInterface	NA but the nearest it maps to are the OperationalExchanges being passed on the OperationalExchange	ToNode, FromNode	NA
OperationalMessage	OperationalMessage	OperationalMessage	LogicalEvent	NA
OperationalMethod	OperationalMethod	NodeOperation	Operation	NA
OperationalMitigation	OperationalMitigation	NA	LogicalArchitecture, ActivityGroup	NA
OperationalObjectFlow	OperationalObjectFlow	NA	LogicalExport, LogicalImport	activityProducesResource activityConsumesResource

UAF 1.2 Element Name	UAF 1.1. Name	UPDM 2.1 Name	MODEM Name	DM2 Name
OperationalParameter	OperationalParameter	OperationalParameter	ResourceFlowRole, InformationRole	NA
OperationalPerformer	OperationalPerformer	Node, Performer	Node	Performer
OperationalPort	OperationalPort	NodePort	Interface	Port
OperationalRole	OperationalRole	NodeRole	NodeUsage	whole-part on Performer
OperationalSignal	OperationalSignal	NA	NA	NA
OperationalSignalProperty	OperationalSignalProperty	NA	NA	NA
OperationalStateDescription	OperationalStateDescription	OperationalStateDescription	StateMachine	NA
Opportunity	NA	NA	NA	NA
Organization	Organization	Organization	OrganisationType	Organization
OrganizationInPhase	OrganizationInEnterprise	NA	organisationInEnterprise	NA
OwnsProcess	OwnsProcess	OwnsProcess	agentParticipation	NA
OwnsRisk	OwnsRisk	NA	NA	NA
OwnsRiskInContext	OwnsRiskInContext	NA	NA	NA
OwnsValue	NA	NA	NA	NA
PerformsInContext	PerformsInContext	Tag on a NodeRole or ResourceRole	agentParticipation	NA
Person	Person	Person	Person	NA
Phases	CapabilityForTask, Exhibits (only in case of ActualEnterprisePhase linked to Capability)	NA but nearest is MapsToCapability	capabilityForTask	NA
Post	Post	Post	Post, PostType	PersonRoleType
PresentedBy	NA	NA	NA	NA
ProblemDomain	ProblemDomain	ProblemDomain	ProblemDomain	NA
Project	Project	Project	Project	Project
ProjectActivity	ProjectActivity	NA	NA	ActivityPartOfProjectType
ProjectActivityAction	ProjectActivityAction	NA	NA	NA
ProjectMilestone	ProjectMilestone	ProjectMilestone	ProjectMilestone	NA

UAF 1.2 Element Name	UAF 1.1. Name	UPDM 2.1 Name	MODEM Name	DM2 Name
ProjectMilestoneRole	ProjectMilestoneRole	ProjectMilestoneRole	milestoneInProject indicating a ProjectMilestone	NA
ProjectRole	ProjectRole	ActualProject with whole part relationship	projectWholePart indicating another Project	whole-part on Project
ProjectSequence	ProjectSequence	ProjectSequence	projectSequence	NA
ProjectStatus	ProjectStatus	ProjectStatus	statusAtMilestone indicating ThreadStatusAtMilestone	NA
ProjectTheme	ProjectTheme	ProjectTheme		NA
Protects	Protects	NA	agentParticipation	NA
ProtectsInContext	ProtectsInContext	NA	agentParticipation	NA
Protocol	Protocol	Protocol	Protocol	TechnicalStandard
ProtocolImplementation	ProtocolImplementation	ProtocolImplementation	protocolStackSuperPort Subtype, protocolStackSuperResourcePortConnectorTypeSubType	NA
ProtocolLayer	ProtocolLayer	ProtocolLayer	A Protocol indicated by isALayerIn a ProtocolStack.	whole-part on TechnicalStandard
ProtocolStack	ProtocolStack	Topmost Protocol containing ProtocolLayers	ProtocolStack	TechnicalStandard
ProvidedServiceLevel	ProvidedServiceLevel	instance of a ServiceAttribute	ServiceLevel	IndividualResource
ProvidesCompetence	ProvidesCompetence	ProvidesCompetence	specifiedCompetence	skillOfPersonRoleType
RequiredServiceLevel	RequiredServiceLevel	instance of a ServiceAttribute	ServiceLevel and the elements that indicated it.	IndividualResource
RequiresCompetence	RequiresCompetence	RequiresCompetence	requiredCompetence	skillOfPersonRoleType
ResourceArchitecture	ResourceArchitecture	PhysicalArchitecture	PhysicalArchitecture	System
ResourceArtifact	ResourceArtifact	ResourceArtifact	ArtefactType	System
ResourceConnector	ResourceConnector	ResourceConnector	PortConnector	NA
ResourceConstraint	ResourceConstraint	ResourceConstraint	Constraint	Rule
ResourceExchange	ResourceExchange	ResourceInteraction	ResourceInteraction	overlap between Systems

UAF 1.2 Element Name	UAF 1.1. Name	UPDM 2.1 Name	MODEM Name	DM2 Name
ResourceInterface	ResourceInterface	NA but the nearest it maps to is the ResourceExchangeItem being passed on the ResourceExchange NOTE it is NOT the same as the ResourceInterface in UPDM 2 which is metaclass Connector	Interface	NA
ResourceMessage	ResourceMessage	ResourceMessage	PhysicalEvent	NA
ResourceMethod	ResourceMethod	ResourceOperation	Operation	NA
ResourceMitigation	ResourceMitigation	NA	PhysicalArchitecture	NA
ResourceParameter	ResourceParameter	ResourceParameter	OperationParameter	NA
ResourcePort	ResourcePort	ResourcePort	ResourceTypeExport, ResourceTypelImport	Port
ResourceRole	ResourceRole	ResourceRole	ResourceUsage	whole-part on System
ResourceService	NA	ServiceInterface	NA	NA
ResourceServiceInterface	NA	ServiceInterface	NA	NA
ResourceSignal	ResourceSignal	NA	NA	NA
ResourceSignalProperty	ResourceSignalProperty	NA	NA	NA
ResourceStateDescription	ResourceStateDescription	ResourceStateMachine	StateMachine	NA
Responsibility	Responsibility	NA	NA	NA
ResponsibleFor	ResponsibleFor	NA	agentCapableOfResponsibilityWholePart, agentCapableOfResponsibilityWholeState, agentCapableOfResponsibilityWholeAndPart	NA
Risk	Risk	NA	Constraint	Rule
SameAs	SameAs	SameAs		NA
SecurityConstraint	SecurityConstraint	NA	Constraint	Rule
SecurityControl	SecurityControl	NA	NA	NA
SecurityControlFamily	SecurityControlFamily	NA	NA	NA
SecurityEnclave	SecurityEnclave	NA but nearest is a Resource	NA	NA
SecurityProcess	SecurityProcess	NA	OperationalActivity	Activity

UAF 1.2 Element Name	UAF 1.1. Name	UPDM 2.1 Name	MODEM Name	DM2 Name
SecurityProcessAction	SecurityProcessAction	NA	OperationalActivityAction	IndividualActivity
SecurityRisk	Risk	NA	NA	NA
Sequence	NA	NA	beforeAfter	beforeAfter
ServiceConnector	ServiceConnector	ServiceChannel	PortConnector	overlap between Services
ServiceContract	NA	NA	NA	NA
ServiceControlFlow	NA	NA	ProducerActivity, ConsumerActivity	overlap between Activities
ServiceExchange	NA	NA	ServiceFlow	overlap between Services
ServiceFunction	ServiceFunction	ServiceFunction	ServiceFunction	Activity
ServiceFunctionAction	ServiceFunctionAction	ServiceFunctionAction	ServiceFunction	IndividualActivity
ServiceInterface	ServiceInterface	ServiceInterface	Interface	NA
ServiceMessage	ServiceMessage	ServiceMessage	ServiceEvent	NA
ServiceMethod	ServiceMethod	ServiceOperation	Operation	NA
ServiceObjectFlow	NA	NA	ProducerActivity, ConsumerActivity	overlap between Activities
ServiceParameter	ServiceParameter	ServiceParameter	OperationParameter	NA
ServicePolicy	ServicePolicy	ServicePolicy	servicePolicy connecting a ServiceSpecification to a Measure	Rule
ServicePort	ServicePort	ServicePort is Abstract, concretized as Service or Request from SOAML	Interface	ServicePort
ServiceSignal	NA	ServiceMessageHandler	NA	NA
ServiceSignalProperty	NA	NA	NA	NA
Service	ServiceSpecification	ServiceInterface	ServiceSpecification	Service
Service Architecture	ServiceSpecification	NA	NA	NA
ServiceRole	ServiceSpecificationRole	whole-part on a ServiceInterface	ServiceRole	whole-part on Service
ServiceStateDescription	ServiceStateDescription	ServiceStateDescription	StateMachine	NA
Software	Software	Software	SoftwareType	System

UAF 1.2 Element Name	UAF 1.1. Name	UPDM 2.1 Name	MODEM Name	DM2 Name
Standard	Standard	Standard	Standard	Standard, Functional Standard, TechnicalStandard
StandardOperationalActivity	StandardOperationalActivity	StandardOperationalActivity	StandardActivity	Activity
StatusIndicators	StatusIndicators	StatusIndicators	StatusIndicator	NA
StrategicConstraint	NA	NA	NA	NA
StrategicExchange	NA	NA	NA	NA
StrategicInformation	NA	NA	NA	NA
StructuralPart	StructuralPart	StructuralPart	wholePart and its specialisations	NA
Supports	Consumes	MapsToCapability, IsCapableOfPerforming	ServiceConsumerNode Role, LogicalServiceConsumerRole, ConsumerRoleInService connects ServiceLevel to OperationalActivity.	activityPerformedbyPerformer
System	System	System	CapabilityConfiguration	CapabilityConfiguration
Technology	Technology	Resource	Technology	System
TemporalPart	TemporalPart	TemporalPart	temporalWholePart	NA
ValueItem	benefit attribute of EnterpriseGoal	benefit attribute of EnterpriseGoal	BenefitOfGoal	NA
ValueStream	NA	NA	NA	NA
VersionOfConfiguration	VersionOfConfiguration	VersionOfConfiguration	versionOf, versionOfServiceSpecification	whole-part on System
VersionSuccession	VersionSuccession	NA But could be derived from VersionsOfConfiguration,ActualProjectMilestones and MilestoneSequences	VersionSuccession, ServiceSpecificationVersionSuccession	temporal whole-part between Systems
View	View	View	ViewPartOfDescription	DescriptionScheme
Viewpoint	Viewpoint	Viewpoint	ViewpointPartOfFramework	DescriptionScheme
VisionStatement	VisionStatement	Description or Comment on a Vision	VisionStatement	Vision described by Information
WholeLifeConfiguration	WholeLifeConfiguration	WholeLifeConfiguration	ResourceTypeMaster, ServiceSpecificationMaster	System
StrategicPhase	WholeLifeEnterprise, EnterprisePhase, EnduringTask	WholeLifeEnterprise, EnterprisePhase, EnduringTask	EnterprisePhase, EnduringTask	NA

UAF 1.2 Element Name	UAF 1.1. Name	UPDM 2.1 Name	MODEM Name	DM2 Name
WholeLifeEnterprise	ActualEnterprisePhase	ActualEnterprisePhase	WholeLifeEnterprise	NA

4. UAFML Stereotype to SysML and UML Metaclass Mapping

Table 4:1 - UAFML Stereotype to SysML and UML Metaclass Mapping

UAFML Stereotype	SysML Stereotype	UML Metaclass
Achieves	NA	Dependency
ActualCondition	NA	InstanceSpecification
ActualEffect	NA	InstanceSpecification
ActualEnduringTask	NA	InstanceSpecification
ActualEnterprisePhase	NA	InstanceSpecification
ActualEnvironment	NA	InstanceSpecification
ActualLocation	NA	InstanceSpecification
ActualMeasurement	NA	Slot
ActualMeasurementSet	NA	InstanceSpecification
ActualOrganization	NA	InstanceSpecification
ActualOrganizationRole	NA	Slot
ActualOutcome	NA	InstanceSpecification
ActualPerson	NA	InstanceSpecification
ActualPost	NA	InstanceSpecification
ActualProject	NA	InstanceSpecification
ActualProjectMilestone	NA	InstanceSpecification
ActualProjectMilestoneRole	NA	Slot InstanceSpecification
ActualProjectRole	NA	Slot
ActualPropertySet	NA	InstanceSpecification
ActualRisk	NA	InstanceSpecification
ActualResource	NA	InstanceSpecification
ActualResourceRelationship	ItemFlow	NA
ActualResourceRole	NA	Slot
ActualResponsibility	NA	InstanceSpecification
ActualService	NA	InstanceSpecification
Affects	NA	Dependency
AffectsInContext	NA	Dependency
Alias	NA	Comment
ArbitraryConnector	NA	Dependency
ArchitecturalDescription	NA	Package
ArchitecturalReference	NA	Dependency
ArchitectureMetadata	NA	Comment
Capability	Block	Class
CapabilityConfiguration	Block	Class
CapabilityForTask	Allocate	Abstraction
CapabilityRole	NA	Property
Challenge	Block	Class

UAFML Stereotype	SysML Stereotype	UML Metaclass
Command	ItemFlow	InformationFlow
ComparesTo	Trace	Abstraction
Competence	Block	Class
CompetenceForRole	Allocate	Abstraction
CompetenceToConduct	Allocate	Abstraction
ConceptRole	NA	Property
Concern	Block	Class
Condition	ValueType	DataType
Supports	Allocate	Abstraction
Control	ItemFlow	InformationFlow
Creates	NA	Dependency
ResourceInformation	Block	Class
DataModel	NA	Package
ResourceInformationRole	NA	Property
Definition	NA	Comment
Desires	NA	Dependency
Driver	Block	Class
Effect	Block	Class
Enables	NA	Dependency
EnduringTask	Block	Class
EnhancedSecurityControl	Requirement	Class
Enhances	DeriveReq	Abstraction
EnterpriseGoal	Requirement	Class
EnterpriseObjective	Requirement	Class
EnterpriseMission	NA	InstanceSpecification
StrategicPhase	Block	Class
EnterpriseVision	Block	Class
Environment	ValueType	DataType
EnvironmentProperty	NA	Property
Exhibits	Allocate	Abstraction
EvokedBy	NA	Dependency
FieldedCapability	NA	InstanceSpecification
FillsPost	Allocate	Abstraction
Forecast	NA	Dependency
Function	NA	Activity
FunctionAction	NA	CallBehaviorAction
FunctionControlFlow	NA	ControlFlow
FunctionObjectFlow	NA	ObjectFlow
GeoPoliticalExtentType	ValueType	DataType
GovernedBy	Allocate	Abstraction
HighLevelOperationalConcept	Block	Class
ImpactedBy	NA	Abstraction

UAFML Stereotype	SysML Stereotype	UML Metaclass
Implements	Allocate	Abstraction
Information	NA	Comment
OperationalInformation	Block	Class
Opportunity	Block	Class
OperationalInformationRole	NA	Property
IsCapableToPerform	Allocate	Abstraction
ISO8601DateTime	NA	LiteralString
KnownResource	Block	Class
Location	ValueType	DataType
MapsToGoal	Refine	Abstraction
MapsToCapability	Allocate	Abstraction
Measurement	NA	Property
MeasurementSet	ValueType	DataType
Metadata	NA	Comment
MilestoneDependency	NA	Dependency
Mitigates	NA	Dependency
MotivatedBy	NA	Dependency
NaturalResource	Block	Class
OwnsRisk	Allocate	Abstraction
OperationalActivity	NA	Activity
OperationalActivityAction	NA	CallBehaviorAction
OperationalArchitecture	Block	Class
OperationalConnector	NA	Connector
OperationalConstraint	NA	Constraint
OperationalControlFlow	NA	ControlFlow
OperationalExchange	ItemFlow	InformationFlow
OperationalInterface	InterfaceBlock	Class
OperationalMessage	NA	Message
OperationalMethod	NA	Operation
OperationalMitigation	Block	Class
OperationalObjectFlow	NA	ObjectFlow
OperationalParameter	NA	Parameter
OperationalPerformer	Block	Class
OperationalPort	ProxyPort	Port
OperationalRole	NA	Property
OperationalSignal	NA	Signal
OperationalSignalProperty	NA	Property
OperationalStateDescription	NA	StateMachine
Organization	Block	Class
OrganizationInPhase	Allocate	Abstraction
OwnsProcess	Allocate	Abstraction
OwnsRiskInContext	Allocate	Abstraction
OwnsValue	Allocate	Abstraction

UAFML Stereotype	SysML Stereotype	UML Metaclass
PerformsInContext	Allocate	Abstraction
Person	Block	Class
Phases	NA	Abstraction
Post	Block	Class
PresentedBy	NA	Dependency
ProblemDomain	NA	Property
Project	Block	Class
ProjectActivity	NA	Activity
ProjectActivityAction	NA	CallBehaviorAction
ProjectMilestone	Block	Class
ProjectMilestoneRole	NA	Property
ProjectRole	NA	Property
ProjectSequence	NA	Dependency
ProjectStatus	NA	Slot
ProjectTheme	NA	Property
Protects	NA	Dependency
ProtectsInContext	NA	Dependency
Protocol	Block	Class
ProtocolLayer	NA	Property
ProtocolStack	Block	Class
ProvidedServiceLevel	NA	InstanceSpecification
ProvidesCompetence	NA	Dependency
RequiredServiceLevel	NA	InstanceSpecification
RequiresCompetence	Allocate	Abstraction
ResourceArchitecture	Block	Class
ResourceArtifact	Block	Class
ResourceConnector	NA	Connector
ResourceConstraint	NA	Constraint
ResourceExchange	ItemFlow	InformationFlow
ResourceInterface	InterfaceBlock	Class
ResourceMessage	NA	Message
ResourceMethod	NA	Operation
ResourceMitigation	Block	Class
ResourceParameter	NA	Parameter
ResourcePort	ProxyPort	Port
ResourceRole	NA	Property
ResourceService	Block	Class
ResourceServiceInterface	InterfaceBlock	Class
ResourceSignal	NA	Signal
ResourceSignalProperty	NA	Property
ResourceStateDescription	NA	StateMachine
Responsibility	Block	Class

UAFML Stereotype	SysML Stereotype	UML Metaclass
ResponsibleFor	Allocate	Abstraction
Risk	NA	Constraint
SameAs	NA	Dependency
SecurityConstraint	NA	Constraint
SecurityControl	Requirement	Class
SecurityControlFamily	Requirement	Class
SecurityEnclave	Block	Class
SecurityProcess	NA	Activity
SecurityProcessAction	NA	CallBehaviorAction
SecurityRisk	NA	Constraint
ServiceArchitecture	Block	Class
ServiceConnector	NA	Connector
ServiceContract	NA	Constraint
ServiceControlFlow	NA	ControlFlow
ServiceExchange	ItemFlow	InformationFlow
ServiceFunction	NA	Activity
ServiceFunctionAction	NA	CallBehaviorAction
ServiceInterface	InterfaceBlock	Class
ServiceMessage	NA	Message
ServiceMethod	NA	Operation
ServiceObjectFlow	NA	ObjectFlow
ServiceParameter	NA	Parameter
ServicePolicy	NA	Constraint
ServicePort	ProxyPort	Port
Service	Block	Class
ServiceRole	NA	Property
ServiceSignal	NA	Signal
ServiceSignalProperty	NA	Property
ServiceStateDescription	NA	StateMachine
Sequence	NA	Dependency
Software	Block	Class
Standard	Block	Class
StandardOperationalActivity	NA	Activity
StatusIndicators	ValueType	Enumeration
StrategicConstraint	NA	Constraint
StrategicExchange	ItemFlow	InformationFlow
StrategicInformation	Block	Class
StructuralPart	NA	Property
System	Block	Class
Technology	Block	Class
TemporalPart	NA	Property
ValueItem	ValueType	DataType
ValueStream	NA	InstanceSpecification

UAFML Stereotype	SysML Stereotype	UML Metaclass
VersionOfConfiguration	NA	Property
VersionSuccession	NA	Dependency
View	View	Class
Viewpoint	Viewpoint	Class
VisionStatement	NA	Comment
WholeLifeConfiguration	Block	Class
WholeLifeEnterprise	NA	InstanceSpecification

5. UAF Element to BPMN Mapping

Table 5:1 - UAF Element to BPMN Mapping

UAF Element	BPMN Element
CapabilityConfiguration	Resource BPMNMessage
OperationalInformation	Resource ItemDefinition where ItemDefinition.kind=physical BPMNMessage
KnownResource	Resource BPMNMessage
NaturalResource	Resource ItemDefinition where ItemDefinition.kind=physical BPMNMessage
OperationalPerformer	Resource
OperationalRole	ResourceRole
OperationalActivity	BPMNProcess
OperationalActivityAction	CallActivity
OperationalControlFlow	SequenceFlow
OperationalExchange	MessageFlow
OperationalObjectFlow	DataInputAssociation DataOutputAssociation
Organization	Resource ItemDefinition where ItemDefinition.kind=physical BPMNMessage
Person	Resource ItemDefinition where ItemDefinition.kind=physical BPMNMessage
Post	Resource ItemDefinition where ItemDefinition.kind=physical BPMNMessage
ProblemDomain	ResourceRole
ResourceArchitecture	Resource BPMNMessage
ResourceArtifact	Resource ItemDefinition where ItemDefinition.kind=physical BPMNMessage
ResourceMitigation	Resource BPMNMessage
Responsibility	Resource ItemDefinition where ItemDefinition.kind=physical BPMNMessage
SecurityEnclave	Resource BPMNMessage
Software	Resource ItemDefinition where ItemDefinition.kind=physical BPMNMessage
Technology	Resource ItemDefinition where ItemDefinition.kind=physical BPMNMessage

Appendix A - A1

The grid was developed as way of showing how the various view specifications correspond to the domains (horizontal rows) and the model kinds. The grids in this annex are intended to capture the information that is present in the donor frameworks that contribute to the UAF.

UAF	Motivation Mv	Taxonomy Tx	Structure Sr	Connectivity Cn	Processes Pr	States St	Sequences Sq	Information If	Parameters Pm	Constraints Ct	Roadmap Rm	Traceability Tr
Architecture Management Am	Architecture Principles Am-Mv	Architecture Extensions Am-Tx	Architecture Views Am-Sr	Architecture References Am-Cn	Architecture Development Method Am-Pr	Architecture Status Am-St		Dictionary Am-If	Architecture Parameters Am-Pm	Architecture Constraints Am-Ct	Architecture Roadmap Am-Rm	Architecture Traceability Am-Tr
Summary & Overview Sm-Ov												
Strategic St	Strategic Motivation St-Mv	Strategic Taxonomy St-Tx	Strategic Structure St-Sr	Strategic Connectivity St-Cn	Strategic Processes St-Pr	Strategic States St-St		Strategic Information St-If	Environment En-Pm-E and Measurements Me-Pm-M and Risks Rk-Pm-R	Strategic Constraints St-Ct	Strategic Deployment, Strategic Phasing St-Rm-D, St-Rm-P	Strategic Traceability St-Tr
Operational Op	Requirements Rq-Mv	Operational Taxonomy Op-Tx	Operational Structure Op-Sr	Operational Connectivity Op-Cn	Operational Processes Op-Pr	Operational States Op-St	Operational Sequences Op-Sq	Operational Information Op-If		Operational Constraints Op-Ct		Operational Traceability Op-Tr
Services Sv		Services Taxonomy Sv-Tx	Services Structure Sv-Sr	Services Connectivity Sv-Cn	Services Processes Sv-Pr	Services States Sv-St	Services Sequences Sv-Sq			Services Constraints Sv-Ct	Services Roadmap Sv-Rm	Services Traceability Sv-Tr
Personnel Ps		Personnel Taxonomy Ps-Tx	Personnel Structure Ps-Sr	Personnel Connectivity Ps-Cn	Personnel Processes Ps-Pr	Personnel States Ps-St	Personnel Sequences Ps-Sq			Resources Information Rs-If	Personnel Availability Ps-Rm-A, Personnel Evolution Ps-Rm-E, Personnel Forecast Ps-Rm-F	Personnel Traceability Ps-Tr
Resources Rs	Resources Taxonomy Rs-Tx	Resources Structure Rs-Sr	Resources Connectivity Rs-Cn	Resources Processes Rs-Pr	Resources States Rs-St	Resources Sequences Rs-Sq	Resources Constraints Rs-Ct	Resources evolution Rs-Rm-E, Resources forecast Rs-Rm-F			Resources Traceability Rs-Tr	
Security Sc	Security Controls Sc-Mv	Security Taxonomy Sc-Tx	Security Structure Sc-Sr	Security Connectivity Sc-Cn	Security Processes Sc-Pr					Security Constraints Sc-Ct		Security Traceability Sc-Tr
Projects Pj		Projects Taxonomy Pj-Tx	Projects Structure Pj-Sr	Projects Connectivity Pj-Cn	Projects Processes Pj-Pr						Projects Roadmap Pj-Rm	Projects Traceability Pj-Tr
Standards Sd		Standards Taxonomy Sd-Tx	Standards Structure Sd-Sr								Standards Roadmap Sd-Rm	Standards Traceability Sd-Tr
Actual Resources Ar			Actual Resources Structure, Ar-Sr	Actual Resources Connectivity, Ar-Cn	Simulation					Parametric Execution/Evaluation		

Figure A:1 - UAF Grid Overview

UAF UNIFIED ARCHITECTURE FRAMEWORK	Motivation Mv	Taxonomy Tx	Structure Sr	Connectivity Cn	Processes Pr	States St	Sequences Sq	Information If	Parameters Pm	Constraints Ct	Roadmap Rm	Traceability Tr	
Architecture Management Am	-	-	-	-	-	-		AV-2	-	-	-	-	
Summary & Overview AV-1													
Strategic St	-	CV-2		CV-4	CV-1	-		DIV-1	SvcV -7	-	CV-3 CV-5	-	
Operational Op		OV-1		OV-3	OV-5a OV-5b	OV-6b	OV-6c	DIV-2		OV-6a		CV-6	
		OV-2											
Services Sv		SvcV-1	SvcV-1 SvcV-2	SvcV-3a SvcV-3b SvcV-6	SvcV-4	SvcV-10b	SvcV-10c			SvcV-10a	SvcV-8 SvcV-9	SvcV-5 CV-7	
Personnel Ps		OV-4		SV-3 SV-6	SV-4	SV-10b	SV-10c	DIV-3		OV-4 SV-10a SV-7	SV-8 SV-9	SV-5a SV-5b	
Resources Rs		SV-1 SV-2		SV-3 SV-6	SV-4	SV-10b	SV-10c				SV-10a	SV-8 SV-9	SV-5a SV-5b
Security Sc	-	-	-	-	-						-		-
Projects Pj		PV-1		PV-2	-							PV-2	PV-3
Standards Sd		StdV-1										StdV-2	StdV-1
Actual Resources Ar			OV-4	OV-4 SV-1 SV-2		-					-		

Figure A:2 - Overlay of DoDAF Views onto the UAF Grid

UAF UNIFIED ARCHITECTURE FRAMEWORK	Motivation Mv	Taxonomy Tx	Structure Sr	Connectivity Cn	Processes Pr	States St	Sequences Sq	Information If	Parameters Pm	Constraints Ct	Roadmap Rm	Traceability Tr
Architecture Management Am	-	-	-	-	-	-		AV-2	-	-	-	-
Summary & Overview AV-1												
Strategic St	-	StV-2		StV-4	StV-1	-		-	OV-1c	-	StV-3 StV-5	-
Operational Op	OV-1a, OV-1b		OV-3		OV-5	OV-6b	OV-6c	OV-7		OV-6a		StV-6
	OV-2											
Services Sv	SOV-1	SOV-2		SOV-5	SOV-4b	SOV-4c				SOV-4a	-	SOV-3
Personnel Ps	OV-4 Typical		OV-4 Typical SV-6	SV-4	SV-10b	SV-10c	SV-11	OV-4 Typical SV-10a SV-7		SV-8 SV-9	SV-5a	
Resources Rs	SV-1		SV-1 SV-2b SV-3 SV-6	SV-4	SV-10b	SV-10c		SV-7		SV-10a	SV-8 SV-9	SV-5 SV-12
Security Sc	-	-	-	-	-					-		-
Projects Pj	AcV-1		AcV-2	-						AcV-2	AcV-1	
Standards Sd	TV-1									StdV-2	StdV-1	
Actual Resources Ar			OV-4 Actual	OV-4 Actual SV-1								

Figure A:3 - Overlay of MODAF views onto UAF Grid

UAF UNIFIED ARCHITECTURE FRAMEWORK	Motivation Mv	Taxonomy Tx	Structure Sr	Connectivity Cn	Processes Pr	States St	Sequences Sq	Information If	Parameters Pm	Constraints Ct	Roadmap Rm	Traceability Tr	
Architecture Management Am	-	NAV-3	-	-	-	-		NAV-2	-	-	-	-	
Summary & Overview NAV-1													
Strategic St	-	NCV-2		NCV-4	NCV-1	-		-	NSV-2d NSV-7	-	NCV-3 NCV-5	-	
Operational Op		NOV-1		NOV-3	NOV-5	NOV-6b	NOV-6c	NOV-7		NOV-6a		NCV-6	
		NOV-2											
Services Sv		NSOV-1	-	NSOV-2	NSOV-5	-	NSOV-4			NSOV-2	-	NCV-7 NSOV-3	
Personnel Ps		NOV-4 Typical		NOV-4 Typical NSV-6	NSV-4	NSV-10b	NSV-10c			NOV-4 Typical NSV-10a NSV-7	NSV-8 NSV-9	NSV-5	
Resources Rs		NSV-1		NSV-2b NSV-3 NSV-6	NSV-4	NSV-10b	NSV-10c			NSV-11a NSV-11b	NSV-10a	NSV-8 NSV-9	NSV-5 NSV-12
		NSV-2a	NSV-2c										
Security Sc	-	-	-	-	-						-		-
Projects Pj		NPV-1			-						NPV-1	NPV-2	
Standards Sd		NTV-1	NTV-3								NTV-2	NTV-1	
Actual Resources Ar			NOV-4 Actual	NOV-4 Actual NSV-1		-				-			

Figure A:4 - Overlay of NAF 3.1 views onto UAF Grid


 UAF UNIFIED ARCHITECTURE FRAMEWORK	Motivation Mv	Taxonomy Tx	Structure Sr	Connectivity Cn	Processes Pr	States St	Sequences Sq	Information If	Parameters Pm	Constraints Ct	Roadmap Rm	Traceability Tr	
Architecture Management Am	-	Meta-Data Definitions A1	Architecture Products A2	-	Methodology Used A4	Architecture Status A5		Meta-Data Definitions A1	-	Architecture Compliance A7	Architecture Roadmap Ar, A6	-	
Strategic St	-	Capability Taxonomy C1		Capability Dependencies C3	Enterprise Vision C2	Effects C5		-	Performance Parameters C7	Planning Assumptions C8	Capability Roadmap Cr	-	
Operational Op	-	Node Types L1	Logical Scenario L2, L2-L3	Node Interactions L3	Logical Activities L4	Logical States L5	Logical Sequence L6	Information Model L7		Logical Constraints L8		-	
Services Sv		Service Taxonomy S1	Service Structure S2	Service Interfaces S3	Service Functions S4	Service States S5	Service Interactions S6			Service Policy S8	Service Roadmap Sr	Service Traceability C1-S1	
Personnel Ps		Resource Types P1	Resource Structure P2	Resource Connectivity P3	Resource Functions P4	Resource States P5	Resource Sequence P6	Data Model P7		Resource Constraints P8	Configuration Management Pr	Resource Traceability L4-P4	
Resources Rs													
Security Sc		-	-	-	-	-						-	
Projects Pj			-	-	-	-						Lines of Development Lr	-
Standards Sd			Standards A8	-									Standards A8
Actual Resources Ar				Resource Structure P2	-								

Figure A:5 - Overlay of NAF 4.0 views onto UAF Grid