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Unified Architecture Framework (UAF) Traceability

(Informative)

Appendix A

Version 1.1

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Normative Machine Consumable Files:

Metamodel-UAF:
http://www.omg.org/spec/UAF/20190619/UAFP_Profile.xmi

Class library:
http://www.omg.org/spec/UAF/20190620/Class-Library-UAF

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Table of Contents

List of Tables

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 (dtc/2019-05-10). 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 1.1 to DoDAF 2.02 Mapping

Table 2:1 - UAF 1.1 to DoDAF 2.02 Mapping

UAF View Specification	DoDAF 2.02	DoDAF 2.02 Long Name
Actual Resources Connectivity	OV-4 SV-1 SV-2	Organizational Relationships Chart, Systems interface description, Systems resource flow description
Actual Resources Structure	OV-4	Organizational Relationships Chart
Dictionary	AV-2	Integrated Dictionary
Information	DIV-1 DIV-2 DIV-3	Conceptual Data Model Logical Data Model Physical Data Model
Metadata Connectivity	-	
Metadata Constraints	-	
Metadata Processes	-	
Metadata Roadmap	-	
Metadata States	-	
Metadata Structure	-	
Metadata Taxonomy	-	
Metadata Traceability	-	
Operational Connectivity	OV-2 OV-3	Operational Resource Flow Description Operational Resource Flow Matrix

UAF View Specification	DoDAF 2.02	DoDAF 2.02 Long Name
Operational Constraints	OV-6a	Operational Rules Model
Operational Interaction Scenario	OV-6c	Event-Trace Description
Operational Processes	OV-5a OV-5b	Operational Activity Decomposition Tree Operational Activity Model
Operational States	OV-6b	State Transition Description
Operational Structure	OV-2	Operational Resource Flow Description
Operational Taxonomy	OV-1 OV-2	High Level Operational Concept Graphic Operational Resource Flow Description
Operational Traceability	CV-6	Capability to Operational Activities Mapping
Parameters: Environment	-	
Parameters: Measurements	SV-7 SvcV-7	Systems Measures Matrix Services Measures Matrix
Personnel Connectivity	OV-4 SV-6	Organizational Relationships Chart Systems Resource Flow Matrix
Personnel Constraints: Competence	OV-4	Organizational Relationships Chart
Personnel Constraints: Drivers	SV-10a	Systems Rules Model
Personnel Constraints: Performance	SV-7	Systems Measures Matrix
Personnel Interaction Scenarios	SV-10c	Systems Event-Trace Description
Personnel Processes	SV-4	Systems Functionality Description
Personnel Roadmap: Availability	PV-2	Project Timelines
Personnel Roadmap: Evolution	SV-8	Systems Evolution Description
Personnel Roadmap: Forecast	SV-9	Systems Technology & Skills Forecast
Personnel States	SV-10b	Systems State Transition Description
Personnel Structure	OV-4	Organizational Relationships Chart
Personnel Taxonomy	OV-4	Organizational Relationships Chart
Personnel Traceability	SV-5a SV-5b	Operational Activity to Systems Function Traceability Matrix, Operational Activity to Systems Traceability Matrix
Projects Connectivity	PV-2	Project Timelines
Projects Processes	-	
Projects Roadmap	PV-2	Project Timelines
Projects Structure	PV-1	Project Portfolio Relationships
Projects Taxonomy	PV-1	Project Portfolio Relationships
Projects Traceability	PV-3	Project to Capability Mapping
Resources Connectivity	SV-3 SV-6	Systems-Systems Matrix Systems Resource Flow Matrix
Resources Constraints	SV-10a	Systems Rules Model
Resources Interaction Scenarios	SV-10c	Systems Event-Trace Description
Resources Processes	SV-4	Systems Functionality Description
Resources Roadmap: Evolution	SV-8	Systems Evolution Description

UAF View Specification	DoDAF 2.02	DoDAF 2.02 Long Name
Resources Roadmap: Forecast	SV-9	Systems Technology & Skills Forecast
Resources States	SV-10b	Systems State Transition Description
Resources Structure	SV-1 SV-2	Systems Interface Description Systems Resource Flow Description
Resources Taxonomy	SV-1 SV-2	Systems Interface Description Systems Resource Flow Description
Resources Traceability	SV-5a SV-5b	Operational Activity to Systems Function Traceability Matrix Operational Activity to Systems Traceability Matrix
Requirements	-	
Security Connectivity	-	
Security Constraints	-	
Security Processes	-	
Security Structure	-	
Security Taxonomy	-	
Security Traceability	-	
Services Connectivity	SvcV-3a SvcV-3b SvcV-6	Systems-Services Matrix Services-Services Matrix Services Resource Flow Matrix
Services Constraints	SvcV-10a	Services Rules Model
Services Processes	SvcV-4	Services Functionality Description
Services Roadmap: Evolution	SvcV-8	Services Evolution Description
Services Roadmap; Forecast	SvcV-9	Services Technology & Skills Forecast
Services Sequences	SvcV-10c	Services Event-Trace Description
Services States	SvcV-10b	Services State Transition Description
Services Structure	SvcV-1 SvcV-2	Services Context Description Services Resource Flow Description
Services Taxonomy	SvcV-1	Services Context Description
Services Traceability	CV-7 SvcV-5	Capability to Services Mapping Operational Activity to Services Traceability Matrix
Standards Roadmap	StdV-2	Standards Forecast
Standards Structure	StdV-1	Standards Profile
Standards Taxonomy	StdV-1	Standards Profile
Standards Traceability	StdV-1	Standards Profile
Strategic Connectivity	CV-4	Capability Dependencies
Strategic Constraints	-	
Strategic Roadmap: Deployment	CV-5	Capability to Organizational Development Mapping
Strategic Roadmap: Phasing	CV-3	Capability Phasing
Strategic States		
Strategic Structure	CV-1	Vision
Strategic Taxonomy	CV-2	Capability Taxonomy

UAF View Specification	DoDAF 2.02	DoDAF 2.02 Long Name
Strategic Traceability	-	
Summary & Overview	AV-1 OV-1	Overview and Summary Information High Level Operational Concept Graphic

2.2 UAF 1.1 to MODAF 1.2 Mapping

Table 1:2 - UAF 1.1 to MODAF 1.2 Mapping

UAF View Specification	MODAF 1.2	MODAF 1.2 Long Name
Actual Resources Connectivity	OV-4 Actual SV-1	Organisational Relationships Chart Resource Interaction Specification
Actual Resources Structure	OV-4 Actual	Organisational Relationships Chart
Dictionary	AV-2	Integrated Dictionary
Information Model	OV-7 SV-11	Information Model Physical Schema
Metadata Connectivity	-	
Metadata Constraints	-	
Metadata Processes	-	
Metadata Roadmap	-	
Metadata States	-	
Metadata Structure	-	
Metadata Taxonomy	-	
Metadata Traceability	-	
Operational Connectivity	OV-2 OV-3	Operational Node Relationships description Operational Information Exchange Matrix
Operational Constraints	OV-6a	Operational Rules Model
Operational Interaction Scenario	OV-6c	Operational Event-Trace Description
Operational Processes	OV-5	Operational Activity Model
Operational States	OV-6b	Operational State Transition Description
Operational Structure	OV-2	Operational Node Relationships description
Operational Taxonomy	OV-1a OV-1b OV-2	High-Level Operational Concept Graphic Operational Concept Description Operational Node Relationships description
Operational Traceability	StV-6	Operational Activity to Capability Mapping
Parameters: Environment	-	
Parameters: Measurements	OV-1c SV-7	Operational Performance Attributes Resource Performance Parameters Matrix
Personnel Connectivity	OV-4 Typical	Organisational Relationships Chart

UAF View Specification	MODAF 1.2	MODAF 1.2 Long Name
	SV-6	Systems Data Exchange Matrix
Personnel Constraints: Competence	OV-4 Typical	Organisational Relationships Chart
Personnel Constraints: Drivers	SV-10a	Resource Constraints Specification
Personnel Constraints: Performance	SV-7	Resource Performance Parameters Matrix
Personnel Interaction Scenarios	SV-10c	Resource Event-Trace Description
Personnel Processes	SV-4	Functionality Description
Personnel Roadmap: Availability	AcV-2	Programme Timelines
Personnel Roadmap: Evolution	SV-8	Capability Configuration Management
Personnel Roadmap: Forecast	SV-9	Technology & Skills Forecast
Personnel States	SV-10b	Resource State Transition Description
Personnel Structure	OV-4 Typical	Organisational Relationships Chart
Personnel Taxonomy	OV-4 Typical	Organisational Relationships Chart
Personnel Traceability	SV-5	Function to Operational Activity / Service Function Traceability Matrix
Projects Connectivity	AcV-2	Programme Timelines
Projects Processes	-	
Projects Roadmap	AcV-2	Programme Timelines
Projects Structure	AcV-1	Acquisition Clusters
Projects Taxonomy	AcV-1	Acquisition Clusters
Projects Traceability	-	
Requirements	-	
Resources Connectivity	SV-1 SV-2b SV-3 SV-6	Resource Interaction Specification System Port Connectivity Description Resource Interaction Matrix Systems Data Exchange Matrix
Resources Constraints	SV-10a	Resource Constraints Specification
Resources Interaction Scenarios	SV-10c	Resource Event-Trace Description
Resources Processes	SV-4	Functionality Description
Resources Roadmap: Evolution	SV-8	Capability Configuration Management
Resources Roadmap: Forecast	SV-9	Technology & Skills Forecast
Resources States	SV-10b	Resource State Transition Description
Resources Structure	SV-1 SV-2c	Resource Interaction Specification System Port Specification System Port Connectivity Description System Connectivity Clusters
Resources Taxonomy	SV-1 SV-2a	Resource Interaction Specification System Port Specification
Resources Traceability	SV-5 SV-12	Function to Operational Activity / Service Function Traceability Matrix Service Provision
Security Connectivity	-	
Security Constraints	-	

UAF View Specification	MODAF 1.2	MODAF 1.2 Long Name
Security Processes	-	
Security Structure	-	
Security Taxonomy	-	
Security Traceability	-	
Services Connectivity	SOV-2	Service Interface Specification
Services Constraints	SOV-4a	Service Constraints
Services Processes	SOV-5	Service Functionality
Services Roadmap: Evolution	-	
Services Sequences	SOV-4c	Service Interaction Specification
Services States	SOV-4b	Service State Model
Services Structure	SOV-2	Service Interface Specification
Services Taxonomy	SOV-1	Service Taxonomy
Services Traceability	SOV-3	Capability to Service Mapping
Standards Roadmap	TV-2	Standards Forecast
Standards Structure	TV-1	Standards Profile
Standards Taxonomy	TV-1	Standards Profile
Standards Traceability	TV-1	Standards Profile
Strategic Connectivity	StV-4	Capability Dependencies
Strategic Constraints	-	
Strategic Roadmap: Deployment	StV-5	Capability to Organisation Deployment Mapping
Strategic Roadmap: Phasing	StV-3	Capability Phasing
Strategic States	-	
Strategic Structure	StV-1	Enterprise Vision
Strategic Taxonomy	StV-2	Capability Taxonomy
Strategic Traceability	-	
Summary & Overview	AV-1 OV-1a OV-1b	Overview & Summary Information High-Level Operational Concept Graphic Operational Concept Description

2.3 UAF 1.1 to NAF 3.1 Mapping

Table 2:2 - UAF 1.1 to NAF 3.1 Mapping

UAF View Specification	NAF 3.1	NAF 3.1 Long Name
Actual Resource Connectivity	NOV-4 Actual NSV-1	Organisational Relationship Chart System Interface Description
Actual Resource Structure	NOV-4 Actual	Organisational Relationship Chart, (IBDs, Parametrics)
Actual Resource Structure	NOV-4 Actual	Organisational Relationship Chart
Dictionary	NAV-2	Integrated Dictionary

UAF View Specification	NAF 3.1	NAF 3.1 Long Name
Information Model	NOV-7 NSV-11a NSV-11b	Information Model Logical Data Model Physical Data Model
Metadata Connectivity	-	
Metadata Constraints	-	
Metadata Processes	-	
Metadata Roadmap	-	
Metadata States	-	
Metadata Structure	-	
Metadata Taxonomy	NAV-3a NAV-3b	Architecture Compliance Statement Metadata Extensions
Metadata Traceability	-	
Operational Connectivity	NOV-2 NOV-3	Operational Node Connectivity Description Operational Information Requirements
Operational Constraints	NOV-6a	Operational Rule Model
Operational Interaction Scenarios	NOV-6c	Operational Event-Trace Description
Operational Processes	NOV-5	Operational Activity Model
Operational States	NOV-6b	Operational State Transition Description
Operational Structure	NOV-2	Operational Node Connectivity Description
Operational Taxonomy	NOV-1 NOV-2	High-Level Operational Concept Description Operational Node Connectivity Description
Operational Traceability	NCV-6	Capability to Operational Activities Mapping
Parameters: Environment	-	
Parameters: Measurements	NSV-7	System Quality Requirements Description
Personnel Connectivity	NOV-4 Typical NSV-6	Organisational Relationship Chart Systems Data Exchange Matrix
Personnel Constraints: Competence	NOV-4 Typical	Organisational Relationship Chart
Personnel Constraints: Drivers	NSV-10a	Systems Rules Model
Personnel Constraints: Performance	NSV-7	System Quality Requirements Description
Personnel Interaction Scenarios	NSV-10c	Systems Event-Trace Description
Personnel Processes	NSV-4	System Functionality Description
Personnel Roadmap: Availability	-	
Personnel Roadmap: Evolution	NSV-8	Systems Evolution Description
Personnel Roadmap: Forecast	NSV-9	Technology Forecast
Personnel States	NSV-10b	Systems State Transition Description
Personnel Structure	NOV-4 Typical	Organisational Relationship Chart
Personnel Taxonomy	NOV-4 Typical	Organisational Relationship Chart
Personnel Traceability	NSV-5	Systems Function to Operational Activity Traceability Matrix
Projects Connectivity	NPV-1	Programme Portfolio Relationships
Projects Roadmap	NPV-1	Programme to Capability Mapping
Projects Structure	NPV-1	Programme Portfolio Relationships
Projects Taxonomy	NPV-1	Programme Portfolio Relationships

UAF View Specification	NAF 3.1	NAF 3.1 Long Name
Projects Traceability	NPV-2	Programme to Capability Mapping
Requirements	-	
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
Resources Constraints	NSV-10a	Systems Rules Model
Resources Interaction Scenarios	NSV-10c	Systems Event-Trace Description
Resources Processes	NSV-4	System Functionality Description
Resources Roadmap: Evolution	NSV-8	Systems Evolution Description
Resources Roadmap: Forecast	NSV-9	Technology Forecast
Resources States	NSV-10b	Systems State Transition Description
Resources Structure	NSV-1 NSV-2c	System interface Description System Connectivity Clusters
Resources Taxonomy	NSV-1 NSV-2a	System Interface Description System Port Specification
Resources Traceability	NSV-5 NSV-12	Systems Function to Operational Activity Traceability Matrix Service Provision
Security Connectivity	-	
Security Constraints	-	
Security Processes	-	
Security Structure	-	
Security Taxonomy	-	
Security Traceability	-	
Services Connectivity	NSOV-2	Service Definition
Services Constraints	NSOV-2	Service Definition
Services Processes	NSOV-5	Service Behaviour
Services Roadmap: Evolution	-	
Services Interaction Scenarios	NSOV-4	Service Orchestration
Services States	-	
Services Structure	-	
Services Taxonomy	NSOV-1	Service Taxonomy
Services Traceability	NCV-7 NSOV-3	Capability to Services Mapping Services to Operational Activities Mapping
Standards Roadmap	NTV-2	Technical Standards Forecast
Standards Structure	NTV-3	Standard Configurations
Standards Taxonomy	NTV-1	Technical Standards Profile
Standards Traceability	NTV-1	Technical Standards Profile
Strategic Connectivity	NCV-4	Capability Dependencies。
Strategic Constraints	-	
Strategic Roadmap: Deployment	NCV-5	Capability to Organisational Deployment Mapping
Strategic Roadmap: Phasing	NCV-3	Capability Phasing
Strategic States	-	

UAF View Specification	NAF 3.1	NAF 3.1 Long Name
Strategic Structure	NCV-1	Capability Vision
Strategic Taxonomy	NCV-2	Capability Taxonomy
Strategic Traceability	-	
Summary & Overview	NAV-1	Overview and Summary Information

2.4 UAF 1.1 to NAF 4.0 Mapping

Table 2:3 - UAF 1.1 to NAF 4.0 Mapping

UAF View Specification	NAF 4.0	NAF 4.0 Long Name
Actual Resources Connectivity	-	
Actual Resources Structure	P2	Resource Structure
Dictionary	-	
Information Model	L7 P7	Logical Data Model Physical Data Model
Operational Connectivity	L3 L2-L3	Node Interactions Logical Concept Viewpoint
Operational Constraints	L8	Logical Constraints
Operational Interaction Scenario	L6	Logical Sequence
Operational Processes	L4	Logical Activities
Operational States	L5	Logical States
Operational Structure	L2 L2-L3	Logical Scenario Logical Concept Viewpoint
Operational Taxonomy	L1	Node Types
Operational Traceability	-	
Metadata Connectivity	A3	Architecture Correspondence
Metadata Constraints	-	
Metadata Processes	A4	Methodology Used
Metadata States	A5	Architecture Status
Metadata Structure	A2	Architecture Products
Metadata Roadmap	Ar A6	Architecture Roadmap Architecture Versions
Metadata Taxonomy	A1	Metadata Definitions
Parameters: Environment	-	
Parameters: Measurements	C7 S7	Performance Parameters Service Interface Parameters
Personnel Connectivity	P3	Resource Connectivity
Personnel Constraints: Competence	-	
Personnel Constraints: Drivers	-	
Personnel Constraints: Performance	-	
Personnel Interaction Scenarios	P6	Resource Sequence
Personnel Processes	P4	Resource Functions

UAF View Specification	NAF 4.0	NAF 4.0 Long Name
Personnel Roadmap: Availability	-	
Personnel Roadmap: Evolution	-	
Personnel Roadmap: Forecast	-	
Personnel States	P5	Resource States
Personnel Structure	P2	Resource Structure
Personnel Taxonomy	P1	Resource Types
Personnel Traceability	-	
Projects Connectivity	-	
Projects Processes	-	
Projects Roadmap	Lr	Lines of Development
Projects Structure	-	
Projects Taxonomy	-	
Projects Traceability	-	
Requirements	-	
Resources Connectivity	P3	Resource Connectivity
Resources Constraints	P8	Resource Constraints
Resources Interaction Scenarios	P6	Resource Sequence
Resources Processes	P4	Resource Functions
Resources Roadmap: Evolution	Pr	Configuration Management
Resources Roadmap: Forecast	Pr	Configuration Management
Resources States	P5	Resource States
Resources Structure	P2	Resource Structure
Resources Taxonomy	P1	Resource Types
Resources Traceability	L4-P4	Activity to Function Mapping
Security Connectivity	-	
Security Constraints	-	
Security Processes	-	
Security Structure	-	
Security Taxonomy	-	
Security Traceability	-	
Services Connectivity	S3 S7	Service Interfaces Service Interface Parameters
Services Constraints	S8	Service Policy
Services Processes	S4	Service Functions
Services Roadmap: Evolution	Sr	Service Roadmap
Services Interaction Scenarios	S6	Service Interactions
Services States	S5	Service States
Services Structure	-	
Services Taxonomy	S1	Service Taxonomy
Services Traceability	C1-S1	Capability to Service Mapping
Standards Roadmap	A8	Standards
Standards Structure	-	
Standards Taxonomy	A8	Standards
Standards Traceability	A8	Standards

UAF View Specification	NAF 4.0	NAF 4.0 Long Name
Strategic Connectivity	C3	Capability Dependencies
Strategic Constraints	C8	Planning Assumptions
Strategic Roadmap: Deployment	Cr	Capability Roadmap
Strategic Roadmap: Phasing	Cr	Capability Roadmap
Strategic States	C5	Effects
Strategic Structure	C2	Enterprise Vision
Strategic Taxonomy	C1	Capability Taxonomy
Strategic Traceability	-	
Summary & Overview	A2 A4 A5 A6 L2-L3	Architecture Products Methodology Used Architecture Status Architecture Versions Logical Concept Viewpoint

2.5 UAF 1.1 to DNDAF Security Views Mapping

Table 2:5 - UAF 1.1 to DNDAF Security Views Mapping

UAF View Specification	DNDAF	DNDAF Long Name
Security Connectivity	SecV-2, SecV-3	Data Element Security Matrix Aggregated Information Security Matrix
Security Constraints	SecV-1	Risk Assessment
Security Processes	SecV-1	Risk Assessment
Security Structure	-	
Security Taxonomy	-	
Security Traceability	-	

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

Table 3:1 - UAF Element Mapping to UPDM 2.1, MODEM and DoDAF 2.02

UAF Element Name	UPDM 2.1 Name	MODEM Name	DM2 Name
AchievedEffect	NA	NA	NA
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	Condition

UAF Element Name	UPDM 2.1 Name	MODEM Name	DM2 Name
		individual can easily be created however.	
ActualEnduringTask	NA but nearest is an instance of an EnduringTask	EnduringTask	NA
ActualEnterprisePhase	NA but nearest is an instance of an EnterprisePhase	EnterprisePhase	NA
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	GeopoliticalLocation	Location
ActualMeasurement	ActualMeasurement	An instance of measure. The IDEAS Foundation element is Measure.	Instance of a Measure
ActualMeasurementSet	ActualPropertySet	A collection of instances of measure.	NA
ActualOrganization	ActualOrganization	Organisation	Organization
ActualOrganizationRole	ActualOrganizationRole	OrganisationalRole	NA
ActualPerson	ActualPerson	Person	NA
ActualPost	ActualPost	Post	IndividualPersonRole
ActualProject	ActualProject	Project	Project
ActualProjectMilestone	ActualProjectMilestone	ProjectMilestone	NA
ActualProjectMilestoneRole	ActualProjectMilestoneRole	An instance of ProjectMilestone.	NA
ActualProjectRole	NA	An instance of Project.	NA
ActualPropertySet	ActualPropertySet	Instance of Attribute.	NA
ActualResource	NA but it is instance of a SystemResource	IndividualResource	IndividualResource
ActualResourceRelationship	ActualOrganizationRelationship	IndividualResourceInteraction	NA
ActualResourceRole	RolekInd	IndividualResourceElementRole	NA
ActualResponsibility	NA but nearest is an Instance of a Responsibility	AgentCapableOfResponsibility	IndividualPersonRole

UAF Element Name	UPDM 2.1 Name	MODEM Name	DM2 Name
ActualService	NA but nearest is an Instance of a Service	Instance of service	NA
ActualRisk	NA	NA	NA
Affects	NA	NA	NA
AffectsInContext	NA	NA	NA
Alias	Alias	MetaData	Representation
ArbitraryConnector	ArbitraryConnector	NA	NA
ArchitecturalDescription	ArchitecturalDescription	ArchitectureDescription	ArchitecturalDescription
ArchitecturalReference	ArchitecturalReference	ArchitectureReference	NA
Architecture	Architecture	Architecture	NA
ArchitectureMetadata	ArchitectureMetadata	architectureMetaData	NA
Capability	Capability	Capability	Capability
CapabilityConfiguration	CapabilityConfiguration	CapabilityConfiguration	System
CapabilityForTask	NA but nearest is MapsToCapbility	capabilityForTask	NA
CapabilityRole	CapabilityProperty	ApplicableMoE	Whole-part on Capability
Command	Command	Commands	NA
Competence	Competence	Competence	Skill
CompetenceForRole	RequiresCompetence	competenceForRole	MeasurableSkillofPersonRole
CompetenceToConduct	ProvidesCompetence	competenceToConduct	NA
ConceptRole	ConceptRole	NA	Instance of a Performer in an operational context
Concern	Tag on Viewpoint	Concern	NA
Condition	EnvironmentProperty or ConditionProperty	Property	Condition
Control	Control	Controls	NA
DataElement	ExchangeElement between Resources	DataElement	Data
DataModel	ConceptualDataModel, LogicalDataModel or PhysicalDataModel	DataModel	NA
DataRole	NA	NA	Whole-part on Data

UAF Element Name	UPDM 2.1 Name	MODEM Name	DM2 Name
Definition	Definition	MetaData indicated by definition.	describedBy Information
DesiredEffect	DesiredEffect	NA	DesiredEffect
EnduringTask	EnduringTask	EnduringTask	NA
EnhancedSecurityControl	NA	Function	Activity
Enhances	NA	realisationAsFieldedCapability	NA
EnterpriseGoal	EnterpriseGoal	StatementOfGoal indicated to by enterpriseGoal.	NA
EnterprisePhase	EnterprisePhase	EnterprisePhase	NA
EnterpriseVision	EnterpriseVision	VisionStatement indicated by enterpriseVision.	Vision
Environment	Environment	EnvironmentalFactor	NA
EnvironmentProperty	EnvironmentProperty	environmentalContext	NA
Exhibits	Exhibits	exhibitsCapability	capabilityOfPerformer
FieldedCapability	FieldedCapability	FieldedCapabilityConfiguration	IndividualResource
FillsPost	FillsPost	responsibleHumanResourceStateOccupiesPost	NA
Forecast	Forecast	Forecast	NA
Function	Function	Function	Activity
FunctionAction	FunctionAction	Function	IndividualActivity
FunctionControlFlow	FunctionEdge	ProducerFunction, ConsumerFunction	overlap between Activities
FunctionObjectFlow	NA	ResourceExport, ResourceImport	activityProducesResource activityConsumesResource
GeoPoliticalExtentType	GeoPoliticalExtentType	GeoPoliticalLocationType	GeoPoliticalExtent
HighLevelOperationalConcept	HighLevelOperationalConcept	NA	NA
Implements	Implements	activityFunctionMapping, nodeRealization, serviceFunctionFunctionMapping	NA

UAF Element Name	UPDM 2.1 Name	MODEM Name	DM2 Name
Information	NA	Information	describedBy Information
InformationElement	ExchangeElement between Nodes	InformationElement	Information
InformationRole	NA	NA	Whole-part on Information
IsCapableToPerform	ActivityPartOfCapability, MapsToCapbility	capableOf	activityPerformedbyPerformer
ISO8601DateTime	ISO8601DateTime	ISO8601DateTime	NA
KnownResource	KnownResource	KnownResource	NA
Location	Location	GeoPoliticalLocation	Location
MapsToCapability	MapsToCapability	capabilityForTask	activityMapsToCapability
Measurement	Measurement	Measurement	Measure
MeasurementSet	MeasurementSet	NA	NA
Metadata	Metadata	MetaData	describedBy Information
MilestoneDependency	MilestoneSequence	milestoneDependency	NA
Mitigates	NA	NA	NA
NaturalResource	NA	NaturalResourceType, NaturalResource	Materiel
OperationalActivity	OperationalActivity	OperationalActivity	Activity
OperationalActivityAction	OperationalActivityAction	OperationalActivity	IndividualActivity
OperationalArchitecture	LogicalArchitecture	LogicalArchitecture	Performer
OperationalConnector	NeedLine	LogicalFlow	NA
OperationalConstraint	OperationalConstraint	Constraint	Rule
OperationalControlFlow	OperationalActivityEdge	Produc erActivity, ConsumerActivity	overlap between Activities
OperationalExchange	OperationalExchange	LogicalFlow	overlap between Performers

UAF Element Name	UPDM 2.1 Name	MODEM Name	DM2 Name
OperationalInterface	NA but the nearest it maps to are the OperationalExchangeItems being passed on the OperationalExchange	ToNode, FromNode	NA
OperationalMessage	OperationalMessage	LogicalEvent	NA
OperationalMethod	NodeOperation	Operation	NA
OperationalMitigation	NA	LogicalArchitecture, ActivityGroup	NA
OperationalObjectFlow	NA	LogicalExport, LogicalImport	activityProducesResource activityConsumesResource
OperationalParameter	OperationalParameter	ResourceFlowRole, InformationRole	NA
OperationalPerformer	Node,Performer	Node	Performer
OperationalPort	NodePort	Interface	Port
OperationalRole	NodeRole	NodeUsage	whole-part on Performer
OperationalSignal	NA	NA	NA
OperationalSignalProperty	NA	NA	NA
OperationalStateDescription	OperationalStateDescription	StateMachine	NA
Organization	Organization	OrganisationType	Organization
OrganizationInEnterprise	NA	organisationInEnterprise	NA
OwnsProcess	OwnsProcess	agentParticipation	NA
OwnsRisk	NA	NA	NA
OwnsRiskInContext	NA	NA	NA
PerformsInContext	Tag on a NodeRole or ResourceRole	agentParticipation	NA
Person	Person	Person	NA
Post	Post	Post, PostType	PersonRoleType
ProblemDomain	ProblemDomain	ProblemDomain	NA
Project	Project	Project	Project
ProjectMilestone	ProjectMilestone	ProjectMilestone	NA

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

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

UAF Element Name	UPDM 2.1 Name	MODEM Name	DM2 Name
ServiceConnector	ServiceChannel	PortConnector	overlap between Services
ServiceFunction	ServiceFunction	ServiceFunction	Activity
ServiceFunctionAction	ServiceFunctionAction	ServiceFunction	IndividualActivity
ServiceInterface	ServiceInterface	Interface	NA
ServiceMessage	ServiceMessage	ServiceEvent	NA
ServiceMethod	ServiceOperation	Operation	NA
ServiceParameter	ServiceParameter	OperationParameter	NA
ServicePolicy	ServicePolicy	servicePolicy connecting a ServiceSpecification to a Measure	Rule
ServicePort	ServicePort is Abstract, concretized as Service or Request from SOAML	Interface	ServicePort
ServiceSpecification	ServiceInterface	ServiceSpecification	Service
ServiceSpecificationRole	whole-part on a ServiceInteface	ServiceRole	whole-part on Service
ServiceStateDescription	ServiceStateDescription	StateMachine	NA
Software	Software	SoftwareType	System
Standard	Standard	Standard	Standard, Functional Standard, TechnicalStandard
StandardOperationalActivity	StandardOperationalActivity	StandardActivity	Activity
StatusIndicators	StatusIndicators	StatusIndicator	NA
StructuralPart	StructuralPart	wholePart and its specialisations	NA
Supports	MapsToCapability, IsCapableOfPerforming	ServiceConsumerNodeRole, LogicalServiceConsumerRole, ConsumerRoleInService connects ServiceLevel to OperationalActivity.	activityPerformedbyPerformer
System	System	CapabilityConfiguration	CapabilityConfiguration
Technology	Resource	Technology	System
TemporalPart	TemporalPart	temporalWholePart	NA

UAF Element Name	UPDM 2.1 Name	MODEM Name	DM2 Name
VersionOfConfiguration	VersionOfConfiguration	versionOf, versionOfServiceSpecification	whole-part on System
VersionSuccession	NA But could be derived from VersionsOfConfiguration, ActualProjectMilestones and MilestoneSequences	VersionSuccession, ServiceSpecificationVersionSuccession	temporal whole-part between Systems
View	View	ViewPartOfDescription	DescriptionScheme
Viewpoint	Viewpoint	ViewpointPartOfFramework	DescriptionScheme
VisionStatement	Description or Comment on a Vision	VisionStatement	Vision described by Information
WholeLifeConfiguration	WholeLifeConfiguration	ResourceTypeMaster, ServiceSpecificationMaster	System
WholeLifeEnterprise	WholeLifeEnterprise	WholeLifeEnterprise	NA

4. UAFP Stereotype to SysML and UML Metaclass Mapping

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

UAFP Stereotype	SysML Stereotype	UML Metaclass
AchievedEffect	NA	Dependency
ActualCondition	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
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
Command	ItemFlow	InformationFlow
Competence	Block	Class
CompetenceForRole	Allocate	Abstraction

UAFP Stereotype	SysML Stereotype	UML Metaclass
CompetenceToConduct	Allocate	Abstraction
ConceptRole	NA	Property
Concern	Block	Class
Condition	ValueType	DataType
Consumes	Allocate	Abstraction
Control	ItemFlow	InformationFlow
DataElement	Block	Class
DataModel	NA	Package
DataRole	NA	Property
Definition	NA	Comment
DesiredEffect	NA	Dependency
EnduringTask	Block	Class
EnhancedSecurityControl	Requirement	Class
Enhances	DeriveReqt	Abstraction
EnterpriseGoal	Requirement	Class
EnterprisePhase	Block	Class
EnterpriseVision	Block	Class
Environment	ValueType	DataType
EnvironmentProperty	NA	Property
Exhibits	Allocate	Abstraction
FieldedCapability	NA	InstanceSpecification
FillsPost	Allocate	Abstraction
Forecast	NA	Dependency
Function	NA	Activity
FunctionAction	NA	CallBehaviorAction
FunctionControlFlow	NA	ControlFlow
FunctionObjectFlow	NA	ObjectFlow
GeoPoliticalExtentType	ValueType	DataType
HighLevelOperationalConcept	Block	Class
Implements	Allocate	Abstraction
Information	NA	Comment
InformationElement	Block	Class
InformationRole	NA	Property
IsCapableToPerform	Allocate	Abstraction
ISO8601DateTime	NA	LiteralString
KnownResource	Block	Class
Location	ValueType	DataType
MapsToCapability	Allocate	Abstraction
Measurement	NA	Property
MeasurementSet	ValueType	DataType
Metadata	NA	Comment
MilestoneDependency	NA	Dependency
Mitigates	NA	Dependency

UAFP Stereotype	SysML Stereotype	UML Metaclass
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
OrganizationInEnterprise	Allocate	Abstraction
OwnsProcess	Allocate	Abstraction
OwnsRiskInContext	Allocate	Abstraction
PerformsInContext	Allocate	Abstraction
Person	Block	Class
Post	Block	Class
ProblemDomain	NA	Property
Project	Block	Class
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

UAFP Stereotype	SysML Stereotype	UML Metaclass
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
ResourceSignal	NA	Signal
ResourceSignalProperty	NA	Property
ResourceStateDescription	NA	StateMachine
Responsibility	Block	Class
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
ServiceConnector	NA	Connector
ServiceFunction	NA	Activity
ServiceFunctionAction	NA	CallBehaviorAction
ServiceInterface	InterfaceBlock	Class
ServiceMessage	NA	Message
ServiceMethod	NA	Operation
ServiceParameter	NA	Parameter
ServicePolicy	NA	Constraint
ServicePort	ProxyPort	Port
ServiceSpecification	Block	Class
ServiceSpecificationRole	NA	Property
ServiceStateDescription	NA	StateMachine
Software	Block	Class
Standard	Block	Class
StandardOperationalActivity	NA	Activity
StatusIndicators	ValueType	Enumeration

UAFP Stereotype	SysML Stereotype	UML Metaclass
StructuralPart	NA	Property
System	Block	Class
Technology	Block	Class
TemporalPart	NA	Property
VersionOfConfiguration	NA	Property
VersionSuccession	NA	Dependency
View	View	Class
Viewpoint	Viewpoint	Class
VisionStatement	NA	Comment
WholeLifeConfiguration	Block	Class
WholeLifeEnterprise	Block	Class

5. UAF Element to BPMN Mapping

Table 5:1 - UAF Element to BPMN Mapping

UAF Element	BPMN Element
CapabilityConfiguration	Resource BPMNMessage
InformationElement	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

UAF Element	BPMN Element
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

Annex A

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.

	Taxonomy Tx	Structure Sr	Connectivity Cn	Processes Pr	States St	Interaction Scenarios Is	Information If	Parameters Pm	Constraints Ct	Roadmap Rm	Traceability Tr
Metadata Md	Metadata Taxonomy Md-Tx	Metadata Structure Md-Sr	Metadata Connectivity Md-Cn	Metadata Processes Md-Pr	Metadata States Md-St	-			Metadata Constraints Md-Ct	Metadata Roadmap Md-Rm	Metadata Traceability Md-Tr
Strategic St	Strategic Taxonomy St-Tx	Strategic Structure St-Sr	Strategic Connectivity St-Cn	-	Strategic States St-St	-			Strategic Constraints St-Ct	Strategic Deployment, St-Rm Strategic Phasing St-Rm	Strategic Traceability St-Tr
Operational 0p	Operational Taxonomy Op-Tx	Operational Structure Op-Sr	Operational Connectivity Op-Cn	Operational Processes Op-Pr	Operational States Op-St	Operational Interaction Scenarios Op-Is			Operational Constraints Op-Ct	-	Operational Traceability Op-Tr
Services Sv	Service Taxonomy Sv-Tx	Service Structure Sv-Sr	Service Connectivity Sv-Cn	Service Processes Sv-Pr	Service States Sv-St	Service Interaction Scenarios Sv-Is	Conceptual Data Model,	Environment Pm-En	Service Constraints Sv-Ct	Service Roadmap Sv-Rm	Service Traceability Sv-Tr
Personnel Pr	Personnel Taxonomy Pr-Tx	Personnel Structure Pr-Sr	Personnel Connectivity Pr-Cn	Personnel Processes Pr-Pr	Personnel States Pr-St	Personnel Interaction Scenarios Pr-Is	Logical Data Model,		Competence, Drivers, Performance Pr-Ct	Personnel Availability, Personnel Evolution, Personnel Forecast Pr-Rm	Personnel Traceability Pr-Tr
Resources Rs	Resource Taxonomy Rs-Tx	Resource Structure Rs-Sr	Resource Connectivity Rs-Cn	Resource Processes Rs-Pr	Resource States Rs-St	Resource Interaction Scenarios Rs-Is	Physical schema, real world results	Measurements Pm-Me	Resource Constraints Rs-Ct	Resource evolution, Resource forecast Rs-Rm	Resource Traceability Rs-Tr
Security Sc	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	Project Taxonomy Pj-Tx	Project Structure Pj-Sr	Project Connectivity Pj-Cn	Project Processes Pj-Pr	-	-			-	Project Roadmap Pj-Rm	Project Traceability Pj-Tr
Standards Sd	Standard 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	-	-
Dictionary Dc											
Summary & Overview Sm-Ov											
Requirements Req											

Figure A:1 - UAF Grid Overview

	Taxonomy Tx	Structure Sr	Connectivity Cn	Processes Pr	States St	Interaction Scenarios Is	Information If	Parameters Pm	Constraints Ct	Roadmap Rm	Traceability Tr
Metadata Md	-	-	-	-	-	-	DIV-1 DIV-2 DIV-3	ScV-7 SV-7	-	-	-
Strategic St	CV-2	CV-1	CV-4	-	-	-			-	CV-3 CV-5	CV-6
Operational Op	OV-2 OV-1	OV-2	OV-2 OV-3	OV-5a OV-5b	OV-6b	OV-6c			OV-6a	-	-
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 Pr	OV-4	OV-4	OV-4 SV-6	SV-4	SV-10b	SV-10c			OV-4 SV-10a SV-7	PV-2 SV-8 SV-9	SV-5a SV-5b
Resources Rs	SV-1 SV-2	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-1	PV-2	-	-	-			-	PV-2	PV-3
Standards Sd	StdV-1	StdV-1	-	-	-	-			-	StdV-2	StdV-1
Actual Resources Ar		OV-4	OV-4 SV-1 & SV-2	Simulation					Parametric Execution/Evaluation	-	-
Dictionary Dc (AV-2)											
Summary & Overview SmOv (AV-1, OV-1)											
Requirements -											

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

	Taxonomy Tx	Structure Sr	Connectivity Cn	Processes Pr	States St	Interaction Scenarios Is	Information If	Parameters Pm	Constraints Ct	Roadmap Rm	Traceability Tr
Metadata Md	-	-	-	-	-	-			-	-	-
Strategic St	StV-1 StV-2	StV-1	StV-4	-	-	-			-	StV-5 StV-3	-
Operational Op	OV-1a OV-1b OV-2	OV-2	OV-2 OV-3	OV-5	OV-6b	OV-6c			OV-6a	-	StV-6
Services Sv	SOV-1	SOV-2	SOV-2	SOV-5	SOV-4b	SOV-5c	OV-7	OV-1c	SOV-4a	-	SOV-3
Personnel Pr	OV-4 Typical	OV-4 Typical	OV-4 Typical SV-6	SV-4	SV-10b	SV-10c	SV-11	SV-7	OV-4 Typical SV-10a SV-7	AcV-2 SV-8 SV-9	SV-5
Resources Rs	SV-1 SV-2a	SV-1 SV-2c	SV-1 SV-2b SV-3 SV-6	SV-4	SV-10b	SV-10c			SV-10a	SV-8 SV-9	SV-5 SV-12
Security Sc	-	-	-	-	-	-			-	-	-
Projects Pj	AcV-1	AcV-1	AcV-2	-	-	-			-	AcV-2	-
Standards Sd	TV-1	TV-1	-	-	-	-			-	TV-2	TV-1
Actual Resources Ar		OV-4 Actual	OV-4 SV-1 & SV-2	Simulation					Parametric Execution/Evaluation	-	-
Dictionary Dc (AV-2)											
Summary & Overview SmOv (AV-1, OV-1a, OV-1b)											
Requirements Rq -											

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

	Taxonomy Tx	Structure Sr	Connectivity Cn	Processes Pr	States St	Interaction Scenarios Is	Information[c] If	Parameters Pm	Constraints Ct	Roadmap Rm	Traceability Tr
Metadata Md	NAV-3	-	-	-	-	-	NOV-7	NSV-2d NSV-7	-	-	-
Strategic St	NCV-1 NCV-2	NCV-1	NCV-4	-	-	-			-	NCV-5 NCV-3	-
Operational Op	NOV-1 NOV-2	NOV-2	NOV-2 NOV-3	NOV-5	NOV-6b	NOV-6c			NOV-6a	-	NCV-6
Services Sv	NSOV-1	-	NSOV-2	NSOV-5	-	NSOV-4			NSOV-2	-	NCV-7 NSOV-3
Personnel Pr	NOV-4 Typical	NOV-4 Typical	NOV-4 Typical SV-6	NSV-4	NSV-10b	NSV-10c			NOV-4 NSV-10a NSV-7	NSV-8 NSV-9	NSV-5
Resources Rs	NSV-1 NSV-2a	NSV-1 NSV-2c	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
Security Sc	-	-	-	-	-	-			-	-	-
Projects Pj	NPV-1	NPV-1	NPV-1	-	-	-			-	NPV-1	NPV-2
Standards Sd	NTV-1	NTV-3	-	-	-	-			-	NTV-2	NTV-1
Actuals Resources Ar	-	NOV-4 Actual	NOV-4 Actual NSV1	Simulation					Parametric Execution/Evaluation	-	-
Dictionary Dc (NAV-2)											
Summary & Overview SmOv (NAV-1, NOV-1)											
Requirements Rq -											

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

<table>
<tr><th></th><th>Taxonomy
Tx</th><th>Structure
Sr</th><th>Connectivity
Cn</th><th>Processes
Pr</th><th>States
St</th><th>Interaction Scenarios
Is</th><th>Information
If</th><th>Parameters
Pm</th><th>Constraints
Ct</th><th>Roadmap
Rm</th><th>Traceability
Tr</th></tr>
<tr><td>Metadata
Md</td><td>Metadata Definitions
A1</td><td>Architecture Products
A2</td><td>Architecture Correspondence
A3</td><td>Methodology Used
A4</td><td>Architecture Status
A5</td><td>-</td><td rowspan="9">Logical Data Model
L7

Physical Data Model
P7</td><td rowspan="9">Performance Parameters
C7

Service I/F Parameters
S7</td><td>-</td><td>Architecture Roadmap
Ar, A6</td><td>-</td></tr>
<tr><td>Strategic
St</td><td>Capability Taxonomy
C1</td><td>Enterprise Vision
C2</td><td>Capability Dependencies
C3</td><td>Standard Processes
C4-</td><td>Effects
C5</td><td>-</td><td>Planning Assumptions
C8</td><td>Capability Roadmap
Cr</td><td>-</td></tr>
<tr><td>Operational
0p</td><td>Node Types
L1</td><td>Logical Scenario
L2, L2-L3</td><td>Node Interactions
L3, L2-L3</td><td>Logical Activities
L4</td><td>Logical States
L5</td><td>Logical Sequence
L6</td><td>Logical Constraints
L8</td><td>-</td><td>-</td></tr>
<tr><td>Services
Sv</td><td>Service Taxonomy
S1</td><td>-</td><td>Service Interfaces
S3, S7</td><td>Service Functions
S4</td><td>Service States
S5</td><td>Service Interactions
S6</td><td>Service Policy
S8</td><td>Service Roadmap
Sr</td><td>Service Traceability
C1-S1</td></tr>
<tr><td>Personnel
Pr</td><td rowspan="2">Resource Types
P1</td><td rowspan="2">Resource Structure
P2</td><td rowspan="2">Resource Connectivity
P3</td><td rowspan="2">Resource Functions
P4</td><td rowspan="2">Resource States
P5</td><td rowspan="2">Resource Sequence
P6</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td>Resources
Rs</td><td>Resource Constraints
P8</td><td>Configuration Management
Pr</td><td>Resource Traceability
L4-P4</td></tr>
<tr><td>Security
Sc</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr>
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Pj</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>Lines of Development
Lr</td><td>-</td></tr>
<tr><td>Standards
Sd</td><td>Standards
A8</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td colspan="2">Standards
A8</td></tr>
<tr><td>Actual Resources
Ar</td><td></td><td>Resource Structure
P2</td><td>-</td><td colspan="3">-</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td colspan="11">Dictionary -</td></tr>
<tr><td colspan="11">Summary & Overview A2, A4, A5, A6, L2-L3</td></tr>
<tr><td colspan="11">Requirements -</td></tr>
</table>

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