UPDM METAMODEL

version 17.0.1
user guide

No Magic, Inc.
2011

All material contained herein is considered proprietary information owned by No Magic, Inc. and is not to be shared, copied, or reproduced by any means. All information copyright 2009-2011 by No Magic, Inc. All Rights Reserved.

INTRODUCTION

This document presents the MagicDraw UPDM Profile structure and its representation in MagicDraw. For more information about UPDM, see the latest UPDM specification at http://updmgroup.org.
The MagicDraw UPDM Profile document lists MagicDraw UPDM Profile elements in alphabetical order. The element description includes table with the following columns: attribute name, attribute type, attribute owner and sample template expression (VTL).
See the sample of the table below.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
allocatedFrom	NamedElement	Allocated	`$Allocated[i].allocatedFrom`
allocatedTo	NamedElement	Allocated	`$Allocated[i].allocatedTo`

Table – sample of MagicDraw UPDM Profile *element description*

Attribute Name
The Attribute Name column provides name of property used in the MagicDraw UPDM Profile.

Attribute Type
The Attribute Type column provides name of property's type (another MagicDraw UPDM Profile element).

Attribute Owner
The Attribute Owner column provides name of property's owner in model hierarchy. Some elements properties are derived from super elements.

Sample Template Expression (VTL) for reports generation

Sample Template Expression (VTL) is the last column from the table, which gives the expression for reports generation. This expression allows to print value of the element's attribute in a report. For more information about VTL code, please see "MagicDraw Report Wizard UserGuide.pdf", "Template Variables" section.

Copyright © 1998-2011 No Magic, Inc

UPDM 2.0 METAMODEL

Table of Contents

Copyright © 1998-2011 No Magic, Inc

Copyright © 1998-2011 No Magic, Inc

Copyright © 1998-2011 No Magic, Inc

Copyright © 1998-2011 No Magic, Inc

Copyright © 1998-2011 No Magic, Inc

Copyright © 1998-2011 No Magic, Inc

Copyright © 1998-2011 No Magic, Inc

1. Activity

UPDM: An abstract element that represents a behavior (i.e. a Function or OperationalActivity) that can be performed by a Performer.
MODAF: NA
DoDAF: Work, not specific to a single organization, weapon system or individual that transforms inputs (Resources) into outputs (Resources) or changes their state.

Base Classifier

- Desirer
- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
activityPerformableUnderCondition	Environment	Activity	`$Activity[i].activityPerformableUnderCondition`
actualPropertySet	ActualPropertySet	UPDMElement	`$Activity[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Activity[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Activity[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$Activity[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Activity[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Activity[i].URL/URI`

2. ActivityPartOfCapability

Base Classifier

- MapsToCapability

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ActivityPartOfCapability[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ActivityPartOfCapability[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ActivityPartOfCapability[i].endBoundaryType`
MapsToCapability.client		MapsToCapability	`$ActivityPartOfCapability[i].MapsToCapability.client`
MapsToCapability.supplier		MapsToCapability	`$ActivityPartOfCapability[i].MapsToCapability.supplier`
propertySet	PropertySet	UPDMElement	`$ActivityPartOfCapability[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ActivityPartOfCapability[i].startBoundaryType`

Copyright © 1998-2011 No Magic, Inc

URL/URI	String	UPDMElement	$ActivityPartOfCapability[i].URL/URI

3. ActivityPartOfProject

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ActivityPartOfProject[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ActivityPartOfProject[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ActivityPartOfProject[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ActivityPartOfProject[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ActivityPartOfProject[i].startBoundaryType
URL/URI	String	UPDMElement	$ActivityPartOfProject[i].URL/URI

4. ActivityPerformedByPerformer

UPDM: Links a Performer to the behavior that it can perform
MODAF: NA
DoDAF:An overlap of an Activity with a Resource, in particular a consuming or producing Activity that expresses an input, output, consumption, or production Activity of the Resource

Base Classifier

- IsCapableOfPerforming

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ActivityPerformedByPerformer[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ActivityPerformedByPerformer[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ActivityPerformedByPerformer[i].endBoundaryType
Performs.client		IsCapableOfPerforming	$ActivityPerformedByPerformer[i].Performs.client
Performs.supplier		IsCapableOfPerforming	$ActivityPerformedByPerformer[i].Performs.supplier
propertySet	PropertySet	UPDMElement	$ActivityPerformedByPerformer[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ActivityPerformedByPerformer[i].startBoundaryType
URL/URI	String	UPDMElement	$ActivityPerformedByPerformer[i].URL/URI

Copyright © 1998-2011 No Magic, Inc

5. ActivitySubject

MODAF: Anything that is acted upon by an OperationalActivity
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$ActivitySubject[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$ActivitySubject[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ActivitySubject[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ActivitySubject[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ActivitySubject[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ActivitySubject[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ActivitySubject[i].URL/URI`

6. ActualLocation

MODAF: A PhysicalLocation (MODAF::ActualLocation) is a location anywhere on the earth. The means of describing the location is a string (locationDescription). The information contained in that string is governed by the taxonomy reference - e.g. if the PhysicalLocation is a "GPS reference", the string will contain the GPS coordinates. NOTE: this has been extended in UPDM to include non-earth locations.
DoDAF: All subtypes of << IndividualType>> Location, such as Facility, Site, etc.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ActualLocation[i].actualPropertySet`
address	String	ActualLocation	`$ActualLocation[i].address`
conformsTo	Standard	UPDMElement	`$ActualLocation[i].conformsTo`
customKind	String	ActualLocation	`$ActualLocation[i].customKind`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ActualLocation[i].endBoundaryType`
locationKind	LocationKind	ActualLocation	`$ActualLocation[i].locationKind`
locationNamedByAddress	Boolean	ActualLocation	`$ActualLocation[i].locationNamedByAddress`
propertySet	PropertySet	UPDMElement	`$ActualLocation[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ActualLocation[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ActualLocation[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

7. ActualMeasurement

UPDM: An actual value of the Measurement.
MODAF: NA
DoDAF: NA

Base Classifier

- ActualProperty

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualMeasurement.definingFeature		ActualMeasurement	`$ActualMeasurement[i].ActualMeasurement.definingFeature`
actualPropertySet	ActualPropertySet	UPDMElement	`$ActualMeasurement[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ActualMeasurement[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ActualMeasurement[i].endBoundaryType`
endDate	ISO8601DateTime	ActualProperty	`$ActualMeasurement[i].endDate`
intention	ActualPropertySetKind	ActualProperty	`$ActualMeasurement[i].intention`
propertySet	PropertySet	UPDMElement	`$ActualMeasurement[i].propertySet`
PropertyValue.definingFeature		ActualProperty	`$ActualMeasurement[i].PropertyValue.definingFeature`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ActualMeasurement[i].startBoundaryType`
startDate	ISO8601DateTime	ActualProperty	`$ActualMeasurement[i].startDate`
URL/URI	String	UPDMElement	`$ActualMeasurement[i].URL/URI`

8. ActualOrganization

MODAF: An actual specific organisation, an instance of an organisation class - e.g. "The US Department of Defense"
DoDAF: [DoDAF::Organization]: A specific real-world assemblage of people and other resources organized for an on-going purpose.

Base Classifier

- ActualOrganizationalResource

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualOrganization.classifier		ActualOrganization	`$ActualOrganization[i].ActualOrganization.classifier`
ActualOrganization.slot		ActualOrganization	`$ActualOrganization[i].ActualOrganization.slot`
actualPropertySet	ActualPropertySet	UPDMElement	`$ActualOrganization[i].actualPropertySet`
code/symbol	String	ActualOrganization	`$ActualOrganization[i].code/symbol`
conformsTo	Standard	UPDMElement	`$ActualOrganization[i].conformsTo`

Copyright © 1998-2011 No Magic, Inc

endBoundaryType	ISO8601DateTime	UPDMElement	$ActualOrganization[i].endBoundaryType
physicalLocation	ActualLocation	LocationHolder	$ActualOrganization[i].physicalLocation
propertySet	PropertySet	UPDMElement	$ActualOrganization[i].propertySet
ratifiedStandards	Standard	ActualOrganization	$ActualOrganization[i].ratifiedStandards
requiredEnvironment	Environment	LocationHolder	$ActualOrganization[i].requiredEnvironment
serviceType	String	ActualOrganization	$ActualOrganization[i].serviceType
startBoundaryType	ISO8601DateTime	UPDMElement	$ActualOrganization[i].startBoundaryType
URL/URI	String	UPDMElement	$ActualOrganization[i].URL/URI

9. ActualOrganizationalResource

UPDM: An ActualOrganization or an ActualPost.
MODAF: An instance of either an actual organisation or an actual post.
DoDAF: A specific real-world assemblage of people and other resources organized for an on-going purpose.

Base Classifier

- CompetenceProvider
- LocationHolder

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ActualOrganizationalResource[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ActualOrganizationalResource[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ActualOrganizationalResource[i].endBoundaryType
physicalLocation	ActualLocation	LocationHolder	$ActualOrganizationalResource[i].physicalLocation
propertySet	PropertySet	UPDMElement	$ActualOrganizationalResource[i].propertySet
requiredEnvironment	Environment	LocationHolder	$ActualOrganizationalResource[i].requiredEnvironment
startBoundaryType	ISO8601DateTime	UPDMElement	$ActualOrganizationalResource[i].startBoundaryType
URL/URI	String	UPDMElement	$ActualOrganizationalResource[i].URL/URI

10. ActualOrganizationRelationship

UPDM: A relationship between two ActualOrganizationResources.
MODAF: A relationship between two actual specific organisations or parts of an organisation.
DoDAF: NA

Copyright © 1998-2011 No Magic, Inc

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualOrganizationRelationship.clone		ActualOrganizationRelationship	`$ActualOrganizationRelationship[i].ActualOrganizationRelationship.clone`
ActualOrganizationRelationship.realizes		ActualOrganizationRelationship	`$ActualOrganizationRelationship[i].ActualOrganizationRelationship.realizes`
ActualOrganizationRelationship.source		ActualOrganizationRelationship	`$ActualOrganizationRelationship[i].ActualOrganizationRelationship.source`
ActualOrganizationRelationship.target		ActualOrganizationRelationship	`$ActualOrganizationRelationship[i].ActualOrganizationRelationship.target`
actualPropertySet	ActualPropertySet	UPDMElement	`$ActualOrganizationRelationship[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ActualOrganizationRelationship[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ActualOrganizationRelationship[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ActualOrganizationRelationship[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ActualOrganizationRelationship[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ActualOrganizationRelationship[i].URL/URI`

11. ActualOrganizationRole

UPDM: Relates an actual specific organization to an actual specific organizational resource that fulfils a role in that organization.
MODAF: NA
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualOrganizationPart.definingFeature		ActualOrganizationRole	`$ActualOrganizationRole[i].ActualOrganizationPart.definingFeature`
ActualOrganizationPart.owningInstance		ActualOrganizationRole	`$ActualOrganizationRole[i].ActualOrganizationPart.owningInstance`
actualPropertySet	ActualPropertySet	UPDMElement	`$ActualOrganizationRole[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ActualOrganizationRole[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ActualOrganizationRole[i].endBoundaryType`

Copyright © 1998-2011 No Magic, Inc

propertySet	PropertySet	UPDMElement	$ActualOrganizationRole[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ActualOrganizationRole[i].startBoundaryType
URL/URI	String	UPDMElement	$ActualOrganizationRole[i].URL/URI

12. ActualPerson

UPDM: Named individual that fulfills an ActualPost. An individual human being (vs Person which is a type), that is recognized by law as the subject of rights and duties.
MODAF: NA
DoDAF: An individual person

Base Classifier

- CompetenceProvider
- LocationHolder

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualPerson.classifier		ActualPerson	$ActualPerson[i].ActualPerson.classifier
actualPropertySet	ActualPropertySet	UPDMElement	$ActualPerson[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ActualPerson[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ActualPerson[i].endBoundaryType
filledPost	ActualPost	ActualPerson	$ActualPerson[i].filledPost
physicalLocation	ActualLocation	LocationHolder	$ActualPerson[i].physicalLocation
propertySet	PropertySet	UPDMElement	$ActualPerson[i].propertySet
requiredEnvironment	Environment	LocationHolder	$ActualPerson[i].requiredEnvironment
startBoundaryType	ISO8601DateTime	UPDMElement	$ActualPerson[i].startBoundaryType
URL/URI	String	UPDMElement	$ActualPerson[i].URL/URI

13. ActualPost

UPDM: An actual, specific post, an instance of a PostType class - e.g. "President of the United States of America."
MODAF: NA
DoDAF: NA

Base Classifier

- ActualOrganizationalResource

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualPost.classifier		ActualPost	$ActualPost[i].ActualPost.classifier
actualPropertySet	ActualPropertySet	UPDMElement	$ActualPost[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ActualPost[i].conformsTo

Copyright © 1998-2011 No Magic, Inc

endBoundaryType	ISO8601DateTime	UPDMElement	$ActualPost[i].endBoundaryType
filledBy	ActualPerson	ActualPost	$ActualPost[i].filledBy
physicalLocation	ActualLocation	LocationHolder	$ActualPost[i].physicalLocation
propertySet	PropertySet	UPDMElement	$ActualPost[i].propertySet
requiredEnvironment	Environment	LocationHolder	$ActualPost[i].requiredEnvironment
startBoundaryType	ISO8601DateTime	UPDMElement	$ActualPost[i].startBoundaryType
URL/URI	String	UPDMElement	$ActualPost[i].URL/URI

14. ActualProject

MODAF: (MODAF::Project): A time-limited endeavour to create a specific set of products or services.
DoDAF: (DoDAF::Project): A temporary endeavor undertaken to create Resources or Desired Effects.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualProject.classifier		ActualProject	$ActualProject[i].ActualProject.classifier
actualPropertySet	ActualPropertySet	UPDMElement	$ActualProject[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ActualProject[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ActualProject[i].endBoundaryType
endDate	ISO8601DateTime	ActualProject	$ActualProject[i].endDate
ownedMilestones	ActualProjectMilestone	ActualProject	$ActualProject[i].ownedMilestones
part	ActualProject	ActualProject	$ActualProject[i].part
propertySet	PropertySet	UPDMElement	$ActualProject[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ActualProject[i].startBoundaryType
startDate	ISO8601DateTime	ActualProject	$ActualProject[i].startDate
URL/URI	String	UPDMElement	$ActualProject[i].URL/URI
whole	ActualProject	ActualProject	$ActualProject[i].whole

15. ActualProjectMilestone

MODAF: (ProjectMilestone): An event in a ActualProject (MODAF::Project) by which progress is measured. Note: in the case of an acquisition project, there are two key types of milestones which shall be represented using subtypes - IncrementMilestone (MODAF::CapabilityIncrement) and OutOfServiceMilestone (MODAF::OutOfService)
DoDAF: NA

Base Classifier

Copyright © 1998-2011 No Magic, Inc

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualProjectMilestone.classifier		ActualProjectMilestone	`$ActualProjectMilestone[i].ActualProjectMilestone.classifier`
ActualProjectMilestone.slot		ActualProjectMilestone	`$ActualProjectMilestone[i].ActualProjectMilestone.slot`
actualPropertySet	ActualPropertySet	UPDMElement	`$ActualProjectMilestone[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ActualProjectMilestone[i].conformsTo`
date	ISO8601DateTime	ActualProjectMilestone	`$ActualProjectMilestone[i].date`
description	String	ActualProjectMilestone	`$ActualProjectMilestone[i].description`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ActualProjectMilestone[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ActualProjectMilestone[i].propertySet`
resource	SystemResource	ActualProjectMilestone	`$ActualProjectMilestone[i].resource`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ActualProjectMilestone[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ActualProjectMilestone[i].URL/URI`

16. ActualProjectMilestoneRole

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ActualProjectMilestoneRole[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ActualProjectMilestoneRole[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ActualProjectMilestoneRole[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ActualProjectMilestoneRole[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ActualProjectMilestoneRole[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ActualProjectMilestoneRole[i].URL/URI`

17. ActualProperty

UPDM:The value of a Measure.
MODAF:NA
DoDAF:NA

Copyright © 1998-2011 No Magic, Inc

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ActualProperty[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ActualProperty[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ActualProperty[i].endBoundaryType`
endDate	ISO8601DateTime	ActualProperty	`$ActualProperty[i].endDate`
intention	ActualPropertySetKind	ActualProperty	`$ActualProperty[i].intention`
propertySet	PropertySet	UPDMElement	`$ActualProperty[i].propertySet`
PropertyValue.definingFeature		ActualProperty	`$ActualProperty[i].PropertyValue.definingFeature`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ActualProperty[i].startBoundaryType`
startDate	ISO8601DateTime	ActualProperty	`$ActualProperty[i].startDate`
URL/URI	String	UPDMElement	`$ActualProperty[i].URL/URI`

18. ActualPropertySet

UPDM: A set or collection of ActualMeasurement(s). A date of measurement can be set. An intent of ActualMeasurementSet can be "Result", "Required", or "Estimate"
MODAF: NA
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ActualPropertySet[i].actualPropertySet`
ActualPropertySet.classifier		ActualPropertySet	`$ActualPropertySet[i].ActualPropertySet.classifier`
ActualPropertySet.slot		ActualPropertySet	`$ActualPropertySet[i].ActualPropertySet.slot`
appliesTo	UPDMElement	ActualPropertySet	`$ActualPropertySet[i].appliesTo`
conformsTo	Standard	UPDMElement	`$ActualPropertySet[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ActualPropertySet[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ActualPropertySet[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ActualPropertySet[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ActualPropertySet[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

19. ActualPropertySetKind

Possible kinds of ActualMeasurementSet intention.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
Actual	Enumeration Literal	ActualPropertySetKind	`$ActualPropertySetKind[i].Actual`
Estimate	Enumeration Literal	ActualPropertySetKind	`$ActualPropertySetKind[i].Estimate`
Required	Enumeration Literal	ActualPropertySetKind	`$ActualPropertySetKind[i].Required`

20. Alias

A UPDM Artifact used to define an alternative name for an element as used by DoDAF or MODAF.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Alias[i].actualPropertySet`
Allias.annotatedElement		Alias	`$Alias[i].Allias.annotatedElement`
conformsTo	Standard	UPDMElement	`$Alias[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Alias[i].endBoundaryType`
nameOwner	String	Alias	`$Alias[i].nameOwner`
propertySet	PropertySet	UPDMElement	`$Alias[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Alias[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Alias[i].URL/URI`

21. ArbitraryConnector

UPDM: Represents a visual indication of a connection used in high level operational concept diagrams. The connections are purely visual and cannot be related to any architectural semantics.
MODAF: NA
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ArbitraryConnector[i].actualPropertySet`
ArbitraryRelationship.client		ArbitraryConnector	`$ArbitraryConnector[i].ArbitraryRelationship.client`

Copyright © 1998-2011 No Magic, Inc

ArbitraryRelationship.supplier		ArbitraryConnector	$ArbitraryConnector[i].ArbitraryRelationship.supplier
conformsTo	Standard	UPDMElement	$ArbitraryConnector[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ArbitraryConnector[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ArbitraryConnector[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ArbitraryConnector[i].startBoundaryType
URL/URI	String	UPDMElement	$ArbitraryConnector[i].URL/URI

22. ArchitecturalDescription

MODAF: A specification of a system of systems at a technical level which also provides the business context for the system of systems.
DoDAF: Information describing an architecture such as an OV-5 Activity Model document.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ArchitecturalDescription[i].actualPropertySet
approvalAuthority	String	ArchitecturalDescription	$ArchitecturalDescription[i].approvalAuthority
architect	String	ArchitecturalDescription	$ArchitecturalDescription[i].architect
ArchitecturalDescription.architectureFramework		ArchitecturalDescription	$ArchitecturalDescription[i].ArchitecturalDescription.architectureFramework
architectureFramework	ArchitectureFrameworkKind	ArchitecturalDescription	$ArchitecturalDescription[i].architectureFramework
assumptionAndConstraint	String	ArchitecturalDescription	$ArchitecturalDescription[i].assumptionAndConstraint
conformsTo	Standard	UPDMElement	$ArchitecturalDescription[i].conformsTo
creatingOrganization	String	ArchitecturalDescription	$ArchitecturalDescription[i].creatingOrganization
dateCompleted	String	ArchitecturalDescription	$ArchitecturalDescription[i].dateCompleted
endBoundaryType	ISO8601DateTime	UPDMElement	$ArchitecturalDescription[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ArchitecturalDescription[i].propertySet
purpose	String	ArchitecturalDescription	$ArchitecturalDescription[i].purpose
recommendations	String	ArchitecturalDescription	$ArchitecturalDescription[i].recommendations
startBoundaryType	ISO8601DateTime	UPDMElement	$ArchitecturalDescription[i].startBoundaryType
summaryOfFindings	String	ArchitecturalDescription	$ArchitecturalDescription[i].summaryOfFindings
toBe	Boolean	ArchitecturalDescription	$ArchitecturalDescription[i].toBe

Copyright © 1998-2011 No Magic, Inc

toolsUsed	String	ArchitecturalDescription	$ArchitecturalDescription[i].toolsUsed
URL/URI	String	UPDMElement	$ArchitecturalDescription[i].URL/URI
viewpoint	String	ArchitecturalDescription	$ArchitecturalDescription[i].viewpoint
views	View	ArchitecturalDescription	$ArchitecturalDescription[i].views

23. ArchitecturalReference

MODAF: Asserts that one architectural description (referrer) refers to another (referred).
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ArchitecturalReference[i].actualPropertySet
ArchitecturalReference.client		ArchitecturalReference	$ArchitecturalReference[i].ArchitecturalReference.client
ArchitecturalReference.supplier		ArchitecturalReference	$ArchitecturalReference[i].ArchitecturalReference.supplier
conformsTo	Standard	UPDMElement	$ArchitecturalReference[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ArchitecturalReference[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ArchitecturalReference[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ArchitecturalReference[i].startBoundaryType
URL/URI	String	UPDMElement	$ArchitecturalReference[i].URL/URI

24. ArchitectureFrameworkKind

Architecture Framework Kind

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
DoDAF	Enumeration Literal	ArchitectureFrameworkKind	$ArchitectureFrameworkKind[i].DoDAF
DoDAF 2.0	Enumeration Literal	ArchitectureFrameworkKind	$ArchitectureFrameworkKind[i].DoDAF 2.0
MODAF	Enumeration Literal	ArchitectureFrameworkKind	$ArchitectureFrameworkKind[i].MODAF
NAF	Enumeration Literal	ArchitectureFrameworkKind	$ArchitectureFrameworkKind[i].NAF

25. ArchitectureMetadata

UPDM: Information on ArchitecturalDescription. It states things like what methodology was used, notation, etc.
MODAF: A Metadata element that applies to the whole architecture.
DoDAF: NA

Copyright © 1998-2011 No Magic, Inc

Base Classifier

- Metadata

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ArchitectureMetadata[i].actualPropertySet`
ArchitectureMetadata.annotatedElement		ArchitectureMetadata	`$ArchitectureMetadata[i].ArchitectureMetadata.annotatedElement`
conformsTo	Standard	UPDMElement	`$ArchitectureMetadata[i].conformsTo`
dublinCoreElement	String	Metadata	`$ArchitectureMetadata[i].dublinCoreElement`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ArchitectureMetadata[i].endBoundaryType`
modMetaDataElement	String	Metadata	`$ArchitectureMetadata[i].modMetaDataElement`
name	String	Metadata	`$ArchitectureMetadata[i].name`
propertySet	PropertySet	UPDMElement	`$ArchitectureMetadata[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ArchitectureMetadata[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ArchitectureMetadata[i].URL/URI`

26. AssociationOfInformation

MODAF: Asserts that there is a relationship between two entities (Entity Relationship).
DoDAF: A relationship or association between two elements of information.

Base Classifier

- EntityRelationship

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$AssociationOfInformation[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$AssociationOfInformation[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$AssociationOfInformation[i].endBoundaryType`
EntityRelationship.endType		EntityRelationship	`$AssociationOfInformation[i].EntityRelationship.endType`
propertySet	PropertySet	UPDMElement	`$AssociationOfInformation[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$AssociationOfInformation[i].startBoundaryType`
URL/URI	String	UPDMElement	`$AssociationOfInformation[i].URL/URI`

27. AsynchronousMessage

MODAF:A signal which is transmitted irregularly with respect to time.
DoDAF: NA

Copyright © 1998-2011 No Magic, Inc

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$AsynchronousMessage[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$AsynchronousMessage[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$AsynchronousMessage[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$AsynchronousMessage[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$AsynchronousMessage[i].startBoundaryType`
URL/URI	String	UPDMElement	`$AsynchronousMessage[i].URL/URI`

28. Capability

MODAF: A high level specification of the enterprise's ability.
DoDAF: The ability to achieve a desired effect under specified [performance] standards and conditions through combinations of ways and means [activities and resources] to perform a set of activities.

Base Classifier

- Capability
- Desirer
- PropertySet

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Capability[i].actualPropertySet`
appliesTo	UPDMElement	PropertySet	`$Capability[i].appliesTo`
Capability.ownedAttribute		Capability	`$Capability[i].Capability.ownedAttribute`
conformsTo	Standard	UPDMElement	`$Capability[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Capability[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$Capability[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Capability[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Capability[i].URL/URI`

29. CapabilityConfiguration

MODAF: A composite structure representing the physical and human resources (and their interactions) in an enterprise.--A CapabilityConfiguration is a set of artefacts or an organisation configured to provide a capability, and should be guided by [doctrine] which may take the form of Standard or OperationalConstraint stereotypes.
DoDAF: Any entity - human, automated, or any aggregation of human and/or automated - that performs an activity and provides a capability (Performer).

Copyright © 1998-2011 No Magic, Inc

Base Classifier

- PhysicalArchitecture

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$CapabilityConfiguration[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$CapabilityConfiguration[i].actualPropertySet`
affectedFunctions	Function	ResourceInteractionItem	`$CapabilityConfiguration[i].affectedFunctions`
appliesTo	UPDMElement	PropertySet	`$CapabilityConfiguration[i].appliesTo`
conformsTo	Standard	UPDMElement	`$CapabilityConfiguration[i].conformsTo`
doctrine	Constraint	CapabilityConfiguration	`$CapabilityConfiguration[i].doctrine`
endBoundaryType	ISO8601DateTime	UPDMElement	`$CapabilityConfiguration[i].endBoundaryType`
milestone	ActualProjectMilestone	SystemResource	`$CapabilityConfiguration[i].milestone`
physicalLocation	ActualLocation	LocationHolder	`$CapabilityConfiguration[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$CapabilityConfiguration[i].propertySet`
requiredEnvironment	Environment	LocationHolder	`$CapabilityConfiguration[i].requiredEnvironment`
Resource.ownedOperation		SystemResource	`$CapabilityConfiguration[i].Resource.ownedOperation`
Resource.ownedPort		SystemResource	`$CapabilityConfiguration[i].Resource.ownedPort`
Resource.performs		SystemResource	`$CapabilityConfiguration[i].Resource.performs`
startBoundaryType	ISO8601DateTime	UPDMElement	`$CapabilityConfiguration[i].startBoundaryType`
URL/URI	String	UPDMElement	`$CapabilityConfiguration[i].URL/URI`

30. CapabilityOfPerformer

UPDM:A couple that represents the capability that a resource, node or enterprise phase exhibits (Exhibits).
MODAF:An assertion that a Node is required to have a Capability (Capability for node).
DoDAF: A couple that represents the capability that a performer has.

Base Classifier

- Exhibits

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$CapabilityOfPerformer[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$CapabilityOfPerformer[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$CapabilityOfPerformer[i].endBoundaryType`

Copyright © 1998-2011 No Magic, Inc

environmentalConditions	Environment	Exhibits	$CapabilityOfPerformer[i].environmentalConditions
Exhibits.client		Exhibits	$CapabilityOfPerformer[i].Exhibits.client
Exhibits.supplier		Exhibits	$CapabilityOfPerformer[i].Exhibits.supplier
propertySet	PropertySet	UPDMElement	$CapabilityOfPerformer[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$CapabilityOfPerformer[i].startBoundaryType
universalCapabilitySet	ActualPropertySet	Exhibits	$CapabilityOfPerformer[i].universalCapabilitySet
URL/URI	String	UPDMElement	$CapabilityOfPerformer[i].URL/URI

31. CapabilityProperty

UPDM: A property of a capability.
MODAF: NA
DoDAF: NA

Base Classifier

- Property

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$CapabilityProperty[i].actualPropertySet
conformsTo	Standard	UPDMElement	$CapabilityProperty[i].conformsTo
defaultValue	String	Property	$CapabilityProperty[i].defaultValue
endBoundaryType	ISO8601DateTime	UPDMElement	$CapabilityProperty[i].endBoundaryType
maxValue	String	Property	$CapabilityProperty[i].maxValue
minValue	String	Property	$CapabilityProperty[i].minValue
propertySet	PropertySet	UPDMElement	$CapabilityProperty[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$CapabilityProperty[i].startBoundaryType
URL/URI	String	UPDMElement	$CapabilityProperty[i].URL/URI

32. CapableElement

UPDM An abstract element that represents a structural element that can perform behaviors (i.e. PerformedActivity).
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$CapableElement[i].actualPropertySet

Copyright © 1998-2011 No Magic, Inc

conformsTo	Standard	UPDMElement	`$CapableElement[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$CapableElement[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$CapableElement[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$CapableElement[i].startBoundaryType`
URL/URI	String	UPDMElement	`$CapableElement[i].URL/URI`

33. ClassificationType

Enumeration of types of security classification, derived from DoDAF.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
C	Enumeration Literal	ClassificationType	`$ClassificationType[i].C`
CTS	Enumeration Literal	ClassificationType	`$ClassificationType[i].CTS`
CTS-B	Enumeration Literal	ClassificationType	`$ClassificationType[i].CTS-B`
CTS-BALK	Enumeration Literal	ClassificationType	`$ClassificationType[i].CTS-BALK`
CTSA	Enumeration Literal	ClassificationType	`$ClassificationType[i].CTSA`
NC	Enumeration Literal	ClassificationType	`$ClassificationType[i].NC`
NCA	Enumeration Literal	ClassificationType	`$ClassificationType[i].NCA`
NR	Enumeration Literal	ClassificationType	`$ClassificationType[i].NR`
NS	Enumeration Literal	ClassificationType	`$ClassificationType[i].NS`
NS-A	Enumeration Literal	ClassificationType	`$ClassificationType[i].NS-A`
NS-S	Enumeration Literal	ClassificationType	`$ClassificationType[i].NS-S`
NSAT	Enumeration Literal	ClassificationType	`$ClassificationType[i].NSAT`
NU	Enumeration Literal	ClassificationType	`$ClassificationType[i].NU`
R	Enumeration Literal	ClassificationType	`$ClassificationType[i].R`
S	Enumeration Literal	ClassificationType	`$ClassificationType[i].S`
TS	Enumeration Literal	ClassificationType	`$ClassificationType[i].TS`
U	Enumeration Literal	ClassificationType	`$ClassificationType[i].U`

34. Climate

MODAF:A type of weather condition, or combination of weather conditions (e.g. high temperature & dry).
DoDAF: NA

Base Classifier

- Environment

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Climate[i].actualPropertySet`

Copyright © 1998-2011 No Magic, Inc

appliesTo	UPDMElement	PropertySet	$Climate[i].appliesTo
conformsTo	Standard	UPDMElement	$Climate[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Climate[i].endBoundaryType
Environment.ownedAttributes		Environment	$Climate[i].Environment.ownedAttributes
propertySet	PropertySet	UPDMElement	$Climate[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$Climate[i].startBoundaryType
URL/URI	String	UPDMElement	$Climate[i].URL/URI

35. Command

MODAF: Asserts that one OrganisationalResource (source) commands another (target)
DoDAF: NA

Base Classifier

- ResourceInteraction

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$Command[i].actualPropertySet
Command.conveyed		Command	$Command[i].Command.conveyed
Command.informationSource		Command	$Command[i].Command.informationSource
Command.informationTarget		Command	$Command[i].Command.informationTarget
conformsTo	Standard	UPDMElement	$Command[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Command[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$Command[i].propertySet
ResourceInteraction.conveyedElement		ResourceInteraction	$Command[i].ResourceInteraction.conveyedElement
ResourceInteraction.informationSource		ResourceInteraction	$Command[i].ResourceInteraction.informationSource
ResourceInteraction.informationTarget		ResourceInteraction	$Command[i].ResourceInteraction.informationTarget
ResourceInteraction.realization		ResourceInteraction	$Command[i].ResourceInteraction.realization
ResourceInteraction.realizingActivityEdge		ResourceInteraction	$Command[i].ResourceInteraction.realizingActivityEdge
ResourceInteraction.realizingConnector		ResourceInteraction	$Command[i].ResourceInteraction.realizingConnector
startBoundaryType	ISO8601DateTime	UPDMElement	$Command[i].startBoundaryType
URL/URI	String	UPDMElement	$Command[i].URL/URI

Copyright © 1998-2011 No Magic, Inc

36. Competence

MODAF: A specific set of abilities defined by knowledge, skills and attitude.
DoDAF: (DoDAF::Skill): The ability, coming from one's knowledge, practice, aptitude, etc., to do something well.

Base Classifier

- PropertySet
- SubjectOfForecast

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Competence[i].actualPropertySet`
appliesTo	UPDMElement	PropertySet	`$Competence[i].appliesTo`
conformsTo	Standard	UPDMElement	`$Competence[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Competence[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$Competence[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Competence[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Competence[i].URL/URI`

37. CompetenceProvider

UPDM:Abstract element used to group ActualPersons and ActualOrganisationalResources.
MODAF:NA
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$CompetenceProvider[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$CompetenceProvider[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$CompetenceProvider[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$CompetenceProvider[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$CompetenceProvider[i].startBoundaryType`
URL/URI	String	UPDMElement	`$CompetenceProvider[i].URL/URI`

38. CompetenceRequirer

UPDM:Abstract element used to group Organizations, Post and Responsibilities.
MODAF:NA
DoDAF:NA

Copyright © 1998-2011 No Magic, Inc

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$CompetenceRequirer[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$CompetenceRequirer[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$CompetenceRequirer[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$CompetenceRequirer[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$CompetenceRequirer[i].startBoundaryType`
URL/URI	String	UPDMElement	`$CompetenceRequirer[i].URL/URI`

39. ConceptItem

UPDM: Abstract, an item which may feature in a high level operational concept.
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ConceptItem[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ConceptItem[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ConceptItem[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ConceptItem[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ConceptItem[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ConceptItem[i].URL/URI`

40. ConceptRole

UPDM: A relationship which asserts that a ConceptItem forms part of the high level operational concept.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ConceptRole[i].actualPropertySet`
ConceptRole.type		ConceptRole	`$ConceptRole[i].ConceptRole.type`
conformsTo	Standard	UPDMElement	`$ConceptRole[i].conformsTo`

Copyright © 1998-2011 No Magic, Inc

endBoundaryType	ISO8601DateTime	UPDMElement	$ConceptRole[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ConceptRole[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ConceptRole[i].startBoundaryType
URL/URI	String	UPDMElement	$ConceptRole[i].URL/URI

41. Condition

MODAF: A definition of the conditions in which something exists or functions. An Environment may be specified in terms of LocationType (e.g. terrain), Climate (e.g. tropical), and LightCondition (e.g. dark, light, dusk, etc.)
DoDAF: An object that encompasses meteorological, geographic, and control features mission significance.

Base Classifier

- Environment

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$Condition[i].actualPropertySet
appliesTo	UPDMElement	PropertySet	$Condition[i].appliesTo
Condition.ownedAttribute		Condition	$Condition[i].Condition.ownedAttribute
conditionKind	String	Condition	$Condition[i].conditionKind
conformsTo	Standard	UPDMElement	$Condition[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Condition[i].endBoundaryType
Environment.ownedAttributes		Environment	$Condition[i].Environment.ownedAttributes
propertySet	PropertySet	UPDMElement	$Condition[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$Condition[i].startBoundaryType
URL/URI	String	UPDMElement	$Condition[i].URL/URI

42. ConditionProperty

MODAF: EnvironmentalProperty: Asserts that an Environment has one or more properties. These may be Climate, LocationType, or LightCondition.
DoDAF: NA

Base Classifier

- EnvironmentProperty

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ConditionProperty[i].actualPropertySet
ConditionProperty.class		ConditionProperty	$ConditionProperty[i].ConditionProperty.class
ConditionProperty.type		ConditionProperty	$ConditionProperty[i].ConditionProperty.type
conformsTo	Standard	UPDMElement	$ConditionProperty[i].conformsTo
defaultValue	String	Property	$ConditionProperty[i].defaultValue

Copyright © 1998-2011 No Magic, Inc

endBoundaryType	ISO8601DateTime	UPDMElement	$ConditionProperty[i].endBoundaryType
EnvironmentalProperty.class		EnvironmentProperty	$ConditionProperty[i].EnvironmentalProperty.class
EnvironmentalProperty.type		EnvironmentProperty	$ConditionProperty[i].EnvironmentalProperty.type
maxValue	String	Property	$ConditionProperty[i].maxValue
minValue	String	Property	$ConditionProperty[i].minValue
propertySet	PropertySet	UPDMElement	$ConditionProperty[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ConditionProperty[i].startBoundaryType
URL/URI	String	UPDMElement	$ConditionProperty[i].URL/URI

43. ConditionType

Abstract element indicating what an EnvironmentProperty can be typed by.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ConditionType[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ConditionType[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ConditionType[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ConditionType[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ConditionType[i].startBoundaryType
URL/URI	String	UPDMElement	$ConditionType[i].URL/URI

44. Contract

A specialization of an "OperationalExchange" a "Contract" specifies an agreement between two or more parties to exchange information. The Contract forms an ontological commitment between parties in a community of interest (CoI) or Community of Practice (CoP). The contract is also used to realize the information exchange requirements of either a needline or a community of interest.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
Contract.conveyed		Contract	$Contract[i].Contract.conveyed

45. Control

MODAF: A type of ResourceInteraction where one Resource (source) controls another (target). --Examples - the driver of a tank, one organisation having operational control of another, a fire control system controlling a weapons system.

Copyright © 1998-2011 No Magic, Inc

DoDAF: NA

Base Classifier

- ResourceInteraction

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Control[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Control[i].conformsTo`
Control.conveyed		Control	`$Control[i].Control.conveyed`
Control.informationSource		Control	`$Control[i].Control.informationSource`
Control.informationTarget		Control	`$Control[i].Control.informationTarget`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Control[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$Control[i].propertySet`
ResourceInteraction.conveyedElement		ResourceInteraction	`$Control[i].ResourceInteraction.conveyedElement`
ResourceInteraction.informationSource		ResourceInteraction	`$Control[i].ResourceInteraction.informationSource`
ResourceInteraction.informationTarget		ResourceInteraction	`$Control[i].ResourceInteraction.informationTarget`
ResourceInteraction.realization		ResourceInteraction	`$Control[i].ResourceInteraction.realization`
ResourceInteraction.realizingActivityEdge		ResourceInteraction	`$Control[i].ResourceInteraction.realizingActivityEdge`
ResourceInteraction.realizingConnector		ResourceInteraction	`$Control[i].ResourceInteraction.realizingConnector`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Control[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Control[i].URL/URI`

46. DataModel

MODAF: A structural specification of data, showing classifications of data elements and relationships between them.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$DataModel[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$DataModel[i].conformsTo`
DataModel.ownedElement		DataModel	`$DataModel[i].DataModel.ownedElement`
endBoundaryType	ISO8601DateTime	UPDMElement	`$DataModel[i].endBoundaryType`

Copyright © 1998-2011 No Magic, Inc

propertySet	PropertySet	UPDMElement	$DataModel[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$DataModel[i].startBoundaryType
URL/URI	String	UPDMElement	$DataModel[i].URL/URI

47. Definition

MODAF: A definition of an element in the architecture.
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$Definition[i].actualPropertySet
author	String	Definition	$Definition[i].author
conformsTo	Standard	UPDMElement	$Definition[i].conformsTo
Definition.annotatedElement		Definition	$Definition[i].Definition.annotatedElement
endBoundaryType	ISO8601DateTime	UPDMElement	$Definition[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$Definition[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$Definition[i].startBoundaryType
URL/URI	String	UPDMElement	$Definition[i].URL/URI

48. DeployedMilestone

MODAF: Asserts that an ActualOrganisationResource started to use, or is slated to start using a CapabilityConfiguration from a specific point in time. --This is used to describe capabilities going into service with specific organisations or posts.
DoDAF: NA

Base Classifier

- ActualProjectMilestone

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualProjectMilestone.classifier		ActualProjectMilestone	$DeployedMilestone[i].ActualProjectMilestone.classifier
ActualProjectMilestone.slot		ActualProjectMilestone	$DeployedMilestone[i].ActualProjectMilestone.slot
actualPropertySet	ActualPropertySet	UPDMElement	$DeployedMilestone[i].actualPropertySet
conformsTo	Standard	UPDMElement	$DeployedMilestone[i].conformsTo
date	ISO8601DateTime	ActualProjectMilestone	$DeployedMilestone[i].date
description	String	ActualProjectMilestone	$DeployedMilestone[i].description

Copyright © 1998-2011 No Magic, Inc

endBoundaryType	ISO8601DateTime	UPDMElement	$DeployedMilestone[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$DeployedMilestone[i].propertySet
resource	SystemResource	ActualProjectMilestone	$DeployedMilestone[i].resource
startBoundaryType	ISO8601DateTime	UPDMElement	$DeployedMilestone[i].startBoundaryType
URL/URI	String	UPDMElement	$DeployedMilestone[i].URL/URI
usedBy	ActualOrganizationalResource	DeployedMilestone	$DeployedMilestone[i].usedBy

49. DesignRule

A design rule is a solution to a problem in a specific context with the following characteristics:
-belongs to a problem domain,
-packages knowledge in a reusable form,
-standardize solutions to design problems within NBD,
-gives value to the re-user.

Base Classifier

- Rule

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$DesignRule[i].actualPropertySet
analysis	String	DesignRule	$DesignRule[i].analysis
conformsTo	Standard	UPDMElement	$DesignRule[i].conformsTo
consequence	String	DesignRule	$DesignRule[i].consequence
context	String	DesignRule	$DesignRule[i].context
date	ISO8601DateTime	DesignRule	$DesignRule[i].date
DesignRule.ruleKind		DesignRule	$DesignRule[i].DesignRule.ruleKind
endBoundaryType	ISO8601DateTime	UPDMElement	$DesignRule[i].endBoundaryType
identifier	String	DesignRule	$DesignRule[i].identifier
metaData	String	DesignRule	$DesignRule[i].metaData
principles	String	DesignRule	$DesignRule[i].principles
problem	String	DesignRule	$DesignRule[i].problem
propertySet	PropertySet	UPDMElement	$DesignRule[i].propertySet
ruleKind	RuleKind	Rule	$DesignRule[i].ruleKind
solution	Element	DesignRule	$DesignRule[i].solution
startBoundaryType	ISO8601DateTime	UPDMElement	$DesignRule[i].startBoundaryType
status	DevelopmentStatus	DesignRule	$DesignRule[i].status
URL/URI	String	UPDMElement	$DesignRule[i].URL/URI
version	String	DesignRule	$DesignRule[i].version

Copyright © 1998-2011 No Magic, Inc

50. DesiredEffect

MODAF:NA
DoDAF:A desired state of a Resource.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$DesiredEffect[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$DesiredEffect[i].conformsTo`
DesiredEffect.client		DesiredEffect	`$DesiredEffect[i].DesiredEffect.client`
DesiredEffect.supplier		DesiredEffect	`$DesiredEffect[i].DesiredEffect.supplier`
desiredResourceFutureState	State	DesiredEffect	`$DesiredEffect[i].desiredResourceFutureState`
endBoundaryType	ISO8601DateTime	UPDMElement	`$DesiredEffect[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$DesiredEffect[i].propertySet`
providedMOE	ActualPropertySet	DesiredEffect	`$DesiredEffect[i].providedMOE`
startBoundaryType	ISO8601DateTime	UPDMElement	`$DesiredEffect[i].startBoundaryType`
URL/URI	String	UPDMElement	`$DesiredEffect[i].URL/URI`

51. DesiredState

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$DesiredState[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$DesiredState[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$DesiredState[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$DesiredState[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$DesiredState[i].startBoundaryType`
URL/URI	String	UPDMElement	`$DesiredState[i].URL/URI`

52. Desirer

Base Classifier

- UPDMElement

Copyright © 1998-2011 No Magic, Inc

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Desirer[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Desirer[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Desirer[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$Desirer[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Desirer[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Desirer[i].URL/URI`

53. Details

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Details[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Details[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Details[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$Details[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Details[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Details[i].URL/URI`

54. DevelopmentStatus

Enumeration of development statuses, used to support the status tag of the DesignRule stereotype.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
Draft	Enumeration Literal	DevelopmentStatus	`$DevelopmentStatus[i].Draft`
Identified	Enumeration Literal	DevelopmentStatus	`$DevelopmentStatus[i].Identified`
Obsolete	Enumeration Literal	DevelopmentStatus	`$DevelopmentStatus[i].Obsolete`
Proposal	Enumeration Literal	DevelopmentStatus	`$DevelopmentStatus[i].Proposal`
Rejected	Enumeration Literal	DevelopmentStatus	`$DevelopmentStatus[i].Rejected`
Verified	Enumeration Literal	DevelopmentStatus	`$DevelopmentStatus[i].Verified`

55. DoDAFProperties

Base Classifier

Copyright © 1998-2011 No Magic, Inc

- InvisibleStereotype

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
appliesFor	Element	DoDAFProperties	`$DoDAFProperties[i].appliesFor`

56. EnduringTask

MODAF: A type of behaviour recognised by an enterprise as being essential to achieving its goals - i.e. a strategic specification of what the enterprise does.
DoDAF: NA

Base Classifier

- Process

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$EnduringTask[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$EnduringTask[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$EnduringTask[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$EnduringTask[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$EnduringTask[i].startBoundaryType`
URL/URI	String	UPDMElement	`$EnduringTask[i].URL/URI`

57. Energy

UPDM: Energy to be exchanged between Nodes.
MODAF: A unit of energy that flows along an EnergyFLow or OperationalActivityEnergyFlow
DoDAF: NA

Base Classifier

- OperationalExchangeItem
- ResourceInteractionItem

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$Energy[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$Energy[i].actualPropertySet`
affectedFunctions	Function	ResourceInteractionItem	`$Energy[i].affectedFunctions`
appliesTo	UPDMElement	PropertySet	`$Energy[i].appliesTo`
conformsTo	Standard	UPDMElement	`$Energy[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Energy[i].endBoundaryType`
physicalLocation	ActualLocation	LocationHolder	`$Energy[i].physicalLocation`

Copyright © 1998-2011 No Magic, Inc

propertySet	PropertySet	UPDMElement	$Energy[i].propertySet
requiredEnvironment	Environment	LocationHolder	$Energy[i].requiredEnvironment
startBoundaryType	ISO8601DateTime	UPDMElement	$Energy[i].startBoundaryType
URL/URI	String	UPDMElement	$Energy[i].URL/URI

58. EnterpriseGoal

MODAF: A specific, required objective of the enterprise that the architecture represents.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$EnterpriseGoal[i].actualPropertySet
benefits	String	EnterpriseGoal	$EnterpriseGoal[i].benefits
conformsTo	Standard	UPDMElement	$EnterpriseGoal[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$EnterpriseGoal[i].endBoundaryType
enterprisePhase	EnterprisePhase	EnterpriseGoal	$EnterpriseGoal[i].enterprisePhase
propertySet	PropertySet	UPDMElement	$EnterpriseGoal[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$EnterpriseGoal[i].startBoundaryType
URL/URI	String	UPDMElement	$EnterpriseGoal[i].URL/URI

59. EnterprisePhase

MODAF: A specific, required objective of the enterprise that the architecture represents.
DoDAF: NA

Base Classifier

- CapableElement
- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$EnterprisePhase[i].actualPropertySet
conformsTo	Standard	UPDMElement	$EnterprisePhase[i].conformsTo
describedBy	ArchitecturalDescription	EnterprisePhase	$EnterprisePhase[i].describedBy
endBoundaryType	ISO8601DateTime	UPDMElement	$EnterprisePhase[i].endBoundaryType
endDate	ISO8601DateTime	EnterprisePhase	$EnterprisePhase[i].endDate
Enterprise from/to		EnterprisePhase	$EnterprisePhase[i].Enterprise from/to
EnterprisePhase.useCase		EnterprisePhase	$EnterprisePhase[i].EnterprisePhase.useCase

Copyright © 1998-2011 No Magic, Inc

fulfills	Mission	EnterprisePhase	`$EnterprisePhase[i].fulfills`
goals	EnterpriseGoal	EnterprisePhase	`$EnterprisePhase[i].goals`
propertySet	PropertySet	UPDMElement	`$EnterprisePhase[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$EnterprisePhase[i].startBoundaryType`
startDate	ISO8601DateTime	EnterprisePhase	`$EnterprisePhase[i].startDate`
statementTasks	EnduringTask	EnterprisePhase	`$EnterprisePhase[i].statementTasks`
URL/URI	String	UPDMElement	`$EnterprisePhase[i].URL/URI`
visions	EnterpriseVision	EnterprisePhase	`$EnterprisePhase[i].visions`

60. EnterpriseVision

MODAF: The overall aims of an enterprise over a given period of time.
DoDAF: (DoDAF::Vision): An end that describes the future state of the enterprise, without regard to how it is to be achieved; a mental image of what the future will or could be like.

Base Classifier

- Desirer
- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$EnterpriseVision[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$EnterpriseVision[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$EnterpriseVision[i].endBoundaryType`
enterprisePhase	EnterprisePhase	EnterpriseVision	`$EnterpriseVision[i].enterprisePhase`
propertySet	PropertySet	UPDMElement	`$EnterpriseVision[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$EnterpriseVision[i].startBoundaryType`
statement	VisionStatement	EnterpriseVision	`$EnterpriseVision[i].statement`
URL/URI	String	UPDMElement	`$EnterpriseVision[i].URL/URI`

61. EntityAttribute

MODAF: A defined property of an EntityItem.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)

Copyright © 1998-2011 No Magic, Inc

actualPropertySet	ActualPropertySet	UPDMElement	$EntityAttribute[i].actualPropertySet
conformsTo	Standard	UPDMElement	$EntityAttribute[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$EntityAttribute[i].endBoundaryType
EntityAttribute.canBeAppliedTo		EntityAttribute	$EntityAttribute[i].EntityAttribute.canBeAppliedTo
propertySet	PropertySet	UPDMElement	$EntityAttribute[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$EntityAttribute[i].startBoundaryType
URL/URI	String	UPDMElement	$EntityAttribute[i].URL/URI

62. EntityItem

MODAF: (MODAF::Entity): A definition (type) of an item of interest.
DoDAF: NA

Base Classifier

- SubjectOfOperationalConstraint
- SubjectOfResourceConstraint

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$EntityItem[i].actualPropertySet
conformsTo	Standard	UPDMElement	$EntityItem[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$EntityItem[i].endBoundaryType
EntityItem.ownedAttribute		EntityItem	$EntityItem[i].EntityItem.ownedAttribute
propertySet	PropertySet	UPDMElement	$EntityItem[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$EntityItem[i].startBoundaryType
URL/URI	String	UPDMElement	$EntityItem[i].URL/URI

63. EntityRelationship

MODAF: Asserts that there is a relationship between two EntityItems.
DoDAF: (DoDAF::DataAssociation): A relationship or association between two elements of proceduralized information.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$EntityRelationship[i].actualPropertySet
conformsTo	Standard	UPDMElement	$EntityRelationship[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$EntityRelationship[i].endBoundaryType
EntityRelationship.endType		EntityRelationship	$EntityRelationship[i].EntityRelationship.en

Copyright © 1998-2011 No Magic, Inc

			dType
propertySet	PropertySet	UPDMElement	$EntityRelationship[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$EntityRelationship[i].startBoundaryType
URL/URI	String	UPDMElement	$EntityRelationship[i].URL/URI

64. Environment

MODAF:A definition of the conditions in which something exists or functions.
DoDAF:NA

Base Classifier

- ConditionType
- PropertySet

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$Environment[i].actualPropertySet
appliesTo	UPDMElement	PropertySet	$Environment[i].appliesTo
conformsTo	Standard	UPDMElement	$Environment[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Environment[i].endBoundaryType
Environment.ownedAttributes		Environment	$Environment[i].Environment.ownedAttributes
propertySet	PropertySet	UPDMElement	$Environment[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$Environment[i].startBoundaryType
URL/URI	String	UPDMElement	$Environment[i].URL/URI

65. EnvironmentProperty

MODAF:Asserts that an Environment has one or more properties. These may be Climate, LocationType, or LightCondition.
DoDAF:NA

Base Classifier

- Property

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$EnvironmentProperty[i].actualPropertySet
conformsTo	Standard	UPDMElement	$EnvironmentProperty[i].conformsTo
defaultValue	String	Property	$EnvironmentProperty[i].defaultValue
endBoundaryType	ISO8601DateTime	UPDMElement	$EnvironmentProperty[i].endBoundaryType
EnvironmentalProperty.class		EnvironmentProperty	$EnvironmentProperty[i].EnvironmentalProperty.class
EnvironmentalProperty.type		EnvironmentProperty	$EnvironmentProperty[i].EnvironmentalPropert

Copyright © 1998-2011 No Magic, Inc

			y.type
maxValue	String	Property	$EnvironmentProperty[i].maxValue
minValue	String	Property	$EnvironmentProperty[i].minValue
propertySet	PropertySet	UPDMElement	$EnvironmentProperty[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$EnvironmentProperty[i].startBoundaryType
URL/URI	String	UPDMElement	$EnvironmentProperty[i].URL/URI

66. Exchange

UPDM: Abstract grouping for interactions that exchange messages.
MODAF:NA
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$Exchange[i].actualPropertySet
conformsTo	Standard	UPDMElement	$Exchange[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Exchange[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$Exchange[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$Exchange[i].startBoundaryType
URL/URI	String	UPDMElement	$Exchange[i].URL/URI

67. ExchangeElement

MODAF: A relationship specifying the need to exchange information between nodes.
DoDAF: NA - this is a specialization of OperationalExchange (DoDAF::Interface).

Base Classifier

- OperationalExchangeItem
- ResourceInteractionItem
- SubjectOfOperationalConstraint
- SubjectOfResourceConstraint

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	$ExchangeElement[i].actsUpon
actualPropertySet	ActualPropertySet	UPDMElement	$ExchangeElement[i].actualPropertySet
affectedFunctions	Function	ResourceInteractionItem	$ExchangeElement[i].affectedFunctions
appliesTo	UPDMElement	PropertySet	$ExchangeElement[i].appliesTo

Copyright © 1998-2011 No Magic, Inc

conformsTo	Standard	UPDMElement	$ExchangeElement[i].conformsTo
definedBy	EntityItem	ExchangeElement	$ExchangeElement[i].definedBy
endBoundaryType	ISO8601DateTime	UPDMElement	$ExchangeElement[i].endBoundaryType
exchangeElementKind	ExchangeElementKind	ExchangeElement	$ExchangeElement[i].exchangeElementKind
physicalLocation	ActualLocation	LocationHolder	$ExchangeElement[i].physicalLocation
propertySet	PropertySet	UPDMElement	$ExchangeElement[i].propertySet
requiredEnvironment	Environment	LocationHolder	$ExchangeElement[i].requiredEnvironment
startBoundaryType	ISO8601DateTime	UPDMElement	$ExchangeElement[i].startBoundaryType
URL/URI	String	UPDMElement	$ExchangeElement[i].URL/URI

68. ExchangeElementKind

Enumeration of the types of element being exchanged on an information exchange.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
DataElement	Enumeration Literal	ExchangeElementKind	$ExchangeElementKind[i].DataElement
InformationElement	Enumeration Literal	ExchangeElementKind	$ExchangeElementKind[i].InformationElement

69. Exhibits

UPDM: Relationship between a Node and a capability the node provides.
MODAF: (MODAF::CapabilityForNode): An assertion that a Node is required to have a Capability.
DoDAF: A couple that represents the capability that a performer manifests.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$Exhibits[i].actualPropertySet
conformsTo	Standard	UPDMElement	$Exhibits[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Exhibits[i].endBoundaryType
environmentalConditions	Environment	Exhibits	$Exhibits[i].environmentalConditions
Exhibits.client		Exhibits	$Exhibits[i].Exhibits.client
Exhibits.supplier		Exhibits	$Exhibits[i].Exhibits.supplier
propertySet	PropertySet	UPDMElement	$Exhibits[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$Exhibits[i].startBoundaryType
universalCapabilitySet	ActualPropertySet	Exhibits	$Exhibits[i].universalCapabilitySet
URL/URI	String	UPDMElement	$Exhibits[i].URL/URI

Copyright © 1998-2011 No Magic, Inc

70. ExternalIndividual

MODAF: An individual (i.e. something which has spatial and temporal extent) defined by an external ontology.
DoDAF: NA

Base Classifier

- OntologyReference

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ExternalIndividual[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ExternalIndividual[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ExternalIndividual[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ExternalIndividual[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ExternalIndividual[i].startBoundaryType`
url	String	OntologyReference	`$ExternalIndividual[i].url`
URL/URI	String	UPDMElement	`$ExternalIndividual[i].URL/URI`

71. ExternalTuple

UPDM: An instance of ExternalTupleType defined in an external Ontology.
MODAF:NA
DoDAF:NA

Base Classifier

- OntologyReference

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ExternalTuple[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ExternalTuple[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ExternalTuple[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ExternalTuple[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ExternalTuple[i].startBoundaryType`
url	String	OntologyReference	`$ExternalTuple[i].url`
URL/URI	String	UPDMElement	`$ExternalTuple[i].URL/URI`

72. ExternalTupleType

UPDM: An TupleType defined in an external Ontology.
MODAF:NA
DoDAF:NA

Copyright © 1998-2011 No Magic, Inc

Base Classifier

- ExternalType

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ExternalTupleType[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ExternalTupleType[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ExternalTupleType[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ExternalTupleType[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ExternalTupleType[i].startBoundaryType`
url	String	OntologyReference	`$ExternalTupleType[i].url`
URL/URI	String	UPDMElement	`$ExternalTupleType[i].URL/URI`

73. ExternalType

MODAF: A type defined by an external ontology.
DoDAF: NA

Base Classifier

- OntologyReference

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ExternalType[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ExternalType[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ExternalType[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ExternalType[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ExternalType[i].startBoundaryType`
url	String	OntologyReference	`$ExternalType[i].url`
URL/URI	String	UPDMElement	`$ExternalType[i].URL/URI`

74. FieldedCapability

MODAF: An actual, fully-realised capability. A FieldedCapability must indicate its configuration CapabilityConfiguration.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)

Copyright © 1998-2011 No Magic, Inc

actualPropertySet	ActualPropertySet	UPDMElement	`$FieldedCapability[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$FieldedCapability[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$FieldedCapability[i].endBoundaryType`
FieldedCapability.classifier		FieldedCapability	`$FieldedCapability[i].FieldedCapability.classifier`
propertySet	PropertySet	UPDMElement	`$FieldedCapability[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$FieldedCapability[i].startBoundaryType`
URL/URI	String	UPDMElement	`$FieldedCapability[i].URL/URI`

75. FillsPost

UPDM: Asserts that ActualPerson fills an ActualPost.
MODAF: NA
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$FillsPost[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$FillsPost[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$FillsPost[i].endBoundaryType`
endDate	ISO8601DateTime	FillsPost	`$FillsPost[i].endDate`
FillsPost.client		FillsPost	`$FillsPost[i].FillsPost.client`
FillsPost.supplier		FillsPost	`$FillsPost[i].FillsPost.supplier`
propertySet	PropertySet	UPDMElement	`$FillsPost[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$FillsPost[i].startBoundaryType`
startDate	ISO8601DateTime	FillsPost	`$FillsPost[i].startDate`
URL/URI	String	UPDMElement	`$FillsPost[i].URL/URI`

76. Forecast

MODAF: A statement about the future state of one or more types of system or standard.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Forecast[i].actualPropertySet`

Copyright © 1998-2011 No Magic, Inc

conformsTo	Standard	UPDMElement	$Forecast[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Forecast[i].endBoundaryType
endDate	ISO8601DateTime	Forecast	$Forecast[i].endDate
Forecast.client		Forecast	$Forecast[i].Forecast.client
Forecast.pair		Forecast	$Forecast[i].Forecast.pair
Forecast.supplier		Forecast	$Forecast[i].Forecast.supplier
propertySet	PropertySet	UPDMElement	$Forecast[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$Forecast[i].startBoundaryType
startDate	ISO8601DateTime	Forecast	$Forecast[i].startDate
URL/URI	String	UPDMElement	$Forecast[i].URL/URI

77. Function

MODAF: An activity which is specified in context of the resource (human or machine) that performs it.
DoDAF: Activity: Work, not specific to a single organization, weapon system or individual that transforms inputs (Resources) into outputs (Resources) or changes their state.

Base Classifier

- Activity
- SubjectOfResourceConstraint

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
activityPerformableUnderCondition	Environment	Activity	$Function[i].activityPerformableUnderCondition
actualPropertySet	ActualPropertySet	UPDMElement	$Function[i].actualPropertySet
conformsTo	Standard	UPDMElement	$Function[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Function[i].endBoundaryType
Function.ownedParameter		Function	$Function[i].Function.ownedParameter
propertySet	PropertySet	UPDMElement	$Function[i].propertySet
realizedBy	ResourceOperation	Function	$Function[i].realizedBy
startBoundaryType	ISO8601DateTime	UPDMElement	$Function[i].startBoundaryType
subject	ResourceInteractionItem	Function	$Function[i].subject
URL/URI	String	UPDMElement	$Function[i].URL/URI

78. FunctionAction

UPDM Artifact: The FunctionAction is defined as a call behavior action that invokes the function that needs to be performed. --This concept is required for mapping the architecture with UML and does not have a DoDAF or MoDAF equivalent.

Base Classifier

Copyright © 1998-2011 No Magic, Inc

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$FunctionAction[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$FunctionAction[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$FunctionAction[i].endBoundaryType`
FunctionAction.activity		FunctionAction	`$FunctionAction[i].FunctionAction.activity`
FunctionAction.behavior		FunctionAction	`$FunctionAction[i].FunctionAction.behavior`
propertySet	PropertySet	UPDMElement	`$FunctionAction[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$FunctionAction[i].startBoundaryType`
URL/URI	String	UPDMElement	`$FunctionAction[i].URL/URI`

79. FunctionalStandard

MODAF:NA
DoDAF:Functional standards set forth rules, conditions, guidelines, and characteristics.

Base Classifier

- Standard

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$FunctionalStandard[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$FunctionalStandard[i].conformsTo`
currentStatus	String	Standard	`$FunctionalStandard[i].currentStatus`
endBoundaryType	ISO8601DateTime	UPDMElement	`$FunctionalStandard[i].endBoundaryType`
InformationTechnologyStandardCategory	String	Standard	`$FunctionalStandard[i].InformationTechnologyStandardCategory`
mandatedDate	ISO8601DateTime	Standard	`$FunctionalStandard[i].mandatedDate`
propertySet	PropertySet	UPDMElement	`$FunctionalStandard[i].propertySet`
ratifiedBy	ActualOrganization	Standard	`$FunctionalStandard[i].ratifiedBy`
retiredDate	ISO8601DateTime	Standard	`$FunctionalStandard[i].retiredDate`
shortName	String	Standard	`$FunctionalStandard[i].shortName`
startBoundaryType	ISO8601DateTime	UPDMElement	`$FunctionalStandard[i].startBoundaryType`
URL/URI	String	UPDMElement	`$FunctionalStandard[i].URL/URI`
version	String	Standard	`$FunctionalStandard[i].version`

Copyright © 1998-2011 No Magic, Inc

80. FunctionEdge

UPDM: An extension of <<ActivityEdge>> that is used to model the flow of control/objects through a Function.
MODAF: A FunctionEdge (MODAF::FunctionFlow) is a UML::ObjectFlow between Functions. NOTE: this has been extended in UPDM to additionally include UML::ControlFlows.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$FunctionEdge[i].actualPropertySet`
carriedItem	ResourceInteractionItem	FunctionEdge	`$FunctionEdge[i].carriedItem`
conformsTo	Standard	UPDMElement	`$FunctionEdge[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$FunctionEdge[i].endBoundaryType`
FunctionEdge.owner		FunctionEdge	`$FunctionEdge[i].FunctionEdge.owner`
propertySet	PropertySet	UPDMElement	`$FunctionEdge[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$FunctionEdge[i].startBoundaryType`
URL/URI	String	UPDMElement	`$FunctionEdge[i].URL/URI`

81. GeoPoliticalExtent

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$GeoPoliticalExtent[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$GeoPoliticalExtent[i].conformsTo`
customKind	String	GeoPoliticalExtent	`$GeoPoliticalExtent[i].customKind`
endBoundaryType	ISO8601DateTime	UPDMElement	`$GeoPoliticalExtent[i].endBoundaryType`
geoPoliticalExtentKind	GeoPoliticalExtentKind	GeoPoliticalExtent	`$GeoPoliticalExtent[i].geoPoliticalExtentKind`
propertySet	PropertySet	UPDMElement	`$GeoPoliticalExtent[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$GeoPoliticalExtent[i].startBoundaryType`
URL/URI	String	UPDMElement	`$GeoPoliticalExtent[i].URL/URI`

82. GeoPoliticalExtentKind

Enumeration of geopolitical extent kinds, used to support the geoPoliticalExtentKind tag of the geoPoliticalExtent stereotype.

Copyright © 1998-2011 No Magic, Inc

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
Country	Enumeration Literal	GeoPoliticalExtentKind	`$GeoPoliticalExtentKind[i].Country`
Facility	Enumeration Literal	GeoPoliticalExtentKind	`$GeoPoliticalExtentKind[i].Facility`
GeoFeature	Enumeration Literal	GeoPoliticalExtentKind	`$GeoPoliticalExtentKind[i].GeoFeature`
Installation	Enumeration Literal	GeoPoliticalExtentKind	`$GeoPoliticalExtentKind[i].Installation`
Other	Enumeration Literal	GeoPoliticalExtentKind	`$GeoPoliticalExtentKind[i].Other`
RegionOfCountry	Enumeration Literal	GeoPoliticalExtentKind	`$GeoPoliticalExtentKind[i].RegionOfCountry`
RegionOfWorld	Enumeration Literal	GeoPoliticalExtentKind	`$GeoPoliticalExtentKind[i].RegionOfWorld`
Site	Enumeration Literal	GeoPoliticalExtentKind	`$GeoPoliticalExtentKind[i].Site`

83. GeoPoliticalExtentType

MODAF:NA
DoDAF:A geospatial extent whose boundaries are by declaration or agreement by political parties.

Base Classifier

- ConditionType
- OperationalExchangeItem
- ResourceInteractionItem

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$GeoPoliticalExtentType[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$GeoPoliticalExtentType[i].actualPropertySet`
affectedFunctions	Function	ResourceInteractionItem	`$GeoPoliticalExtentType[i].affectedFunctions`
appliesTo	UPDMElement	PropertySet	`$GeoPoliticalExtentType[i].appliesTo`
conformsTo	Standard	UPDMElement	`$GeoPoliticalExtentType[i].conformsTo`
customKind	String	GeoPoliticalExtentType	`$GeoPoliticalExtentType[i].customKind`
endBoundaryType	ISO8601DateTime	UPDMElement	`$GeoPoliticalExtentType[i].endBoundaryType`
geoPoliticalExtentTypeKind	GeoPoliticalExtentKind	GeoPoliticalExtentType	`$GeoPoliticalExtentType[i].geoPoliticalExtentTypeKind`
physicalLocation	ActualLocation	LocationHolder	`$GeoPoliticalExtentType[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$GeoPoliticalExtentType[i].propertySet`
requiredEnvironment	Environment	LocationHolder	`$GeoPoliticalExtentType[i].requiredEnvironment`
startBoundaryType	ISO8601DateTime	UPDMElement	`$GeoPoliticalExtentType[i].startBoundaryType`
URL/URI	String	UPDMElement	`$GeoPoliticalExtentType[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

84. GeoPoliticalExtentTypeKind

Enumeration of kinds of geopolitical extent type, derived from DoDAF, used to support the geoPoliticalExtentTypeKind tag of the GeopoliticalExtentType stereotype.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
CountryType	Enumeration Literal	GeoPoliticalExtentTypeKind	`$GeoPoliticalExtentTypeKind[i].CountryType`
FacilityType	Enumeration Literal	GeoPoliticalExtentTypeKind	`$GeoPoliticalExtentTypeKind[i].FacilityType`
GeoFeatureType	Enumeration Literal	GeoPoliticalExtentTypeKind	`$GeoPoliticalExtentTypeKind[i].GeoFeatureTyp e`
InstallationType	Enumeration Literal	GeoPoliticalExtentTypeKind	`$GeoPoliticalExtentTypeKind[i].InstallationT ype`
OtherType	Enumeration Literal	GeoPoliticalExtentTypeKind	`$GeoPoliticalExtentTypeKind[i].OtherType`
RegionOfCountryType	Enumeration Literal	GeoPoliticalExtentTypeKind	`$GeoPoliticalExtentTypeKind[i].RegionOfCount ryType`
RegionOfWorldType	Enumeration Literal	GeoPoliticalExtentTypeKind	`$GeoPoliticalExtentTypeKind[i].RegionOfWorld Type`
SiteType	Enumeration Literal	GeoPoliticalExtentTypeKind	`$GeoPoliticalExtentTypeKind[i].SiteType`

85. HighLevelOperationalConcept

MODAF: A generalized model for operations.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$HighLevelOperationalConcept[i].actualProper tySet`
conformsTo	Standard	UPDMElement	`$HighLevelOperationalConcept[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$HighLevelOperationalConcept[i].endBoundaryT ype`
HighLevelOperationalConcept.ownedAttribute		HighLevelOperationalConcept	`$HighLevelOperationalConcept[i].HighLevelOpe rationalConcept.ownedAttribute`
mission	Mission	HighLevelOperationalConcept	`$HighLevelOperationalConcept[i].mission`
propertySet	PropertySet	UPDMElement	`$HighLevelOperationalConcept[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$HighLevelOperationalConcept[i].startBoundar yType`
URL/URI	String	UPDMElement	`$HighLevelOperationalConcept[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

86. Implements

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Implements[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Implements[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Implements[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$Implements[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Implements[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Implements[i].URL/URI`

87. IncrementMilestone

MODAF: (MODAF::CapabilityIncrement): An ActualProjectMilestone (MODAF::ProjectMilestone) that indicates the point in time at which a project is predicted to deliver or has delivered a Capability.
DoDAF: NA

Base Classifier

- ActualProjectMilestone

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualProjectMilestone.classifier		ActualProjectMilestone	`$IncrementMilestone[i].ActualProjectMilestone.classifier`
ActualProjectMilestone.slot		ActualProjectMilestone	`$IncrementMilestone[i].ActualProjectMilestone.slot`
actualPropertySet	ActualPropertySet	UPDMElement	`$IncrementMilestone[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$IncrementMilestone[i].conformsTo`
date	ISO8601DateTime	ActualProjectMilestone	`$IncrementMilestone[i].date`
description	String	ActualProjectMilestone	`$IncrementMilestone[i].description`
endBoundaryType	ISO8601DateTime	UPDMElement	`$IncrementMilestone[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$IncrementMilestone[i].propertySet`
resource	SystemResource	ActualProjectMilestone	`$IncrementMilestone[i].resource`
startBoundaryType	ISO8601DateTime	UPDMElement	`$IncrementMilestone[i].startBoundaryType`
URL/URI	String	UPDMElement	`$IncrementMilestone[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

88. IndividualPersonRole

UPDM: An individual person.
MODAF:NA
DoDAF: An Individual person.

Base Classifier

- ActualPost

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualPost.classifier		ActualPost	`$IndividualPersonRole[i].ActualPost.classifier`
actualPropertySet	ActualPropertySet	UPDMElement	`$IndividualPersonRole[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$IndividualPersonRole[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$IndividualPersonRole[i].endBoundaryType`
filledBy	ActualPerson	ActualPost	`$IndividualPersonRole[i].filledBy`
physicalLocation	ActualLocation	LocationHolder	`$IndividualPersonRole[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$IndividualPersonRole[i].propertySet`
requiredEnvironment	Environment	LocationHolder	`$IndividualPersonRole[i].requiredEnvironment`
startBoundaryType	ISO8601DateTime	UPDMElement	`$IndividualPersonRole[i].startBoundaryType`
URL/URI	String	UPDMElement	`$IndividualPersonRole[i].URL/URI`

89. Information

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Information[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Information[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Information[i].endBoundaryType`
informationKind	InformationKind	Information	`$Information[i].informationKind`
propertySet	PropertySet	UPDMElement	`$Information[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Information[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Information[i].URL/URI`

90. InformationKind

Enumeration of kinds of information, derived from MODAF and DoDAF, used to support the InformationKind tag of the Information stereotype.

Copyright © 1998-2011 No Magic, Inc

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
Data	Enumeration Literal	InformationKind	`$InformationKind[i].Data`
DomainInformation	Enumeration Literal	InformationKind	`$InformationKind[i].DomainInformation`
Information	Enumeration Literal	InformationKind	`$InformationKind[i].Information`
PedigreeInformation	Enumeration Literal	InformationKind	`$InformationKind[i].PedigreeInformation`
PositionReferenceFrame	Enumeration Literal	InformationKind	`$InformationKind[i].PositionReferenceFrame`

91. IsCapableOfPerforming

UPDM: Links a Performer to the behavior that it can perform.
DoDAF: The Performs (DoDAF::activityPerformedByPerformer) relationship is an overlap between a Performer and a PerformedActivity (DoDAF::Activity) wherein the activity is performed by the Performer.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$IsCapableOfPerforming[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$IsCapableOfPerforming[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$IsCapableOfPerforming[i].endBoundaryType`
Performs.client		IsCapableOfPerforming	`$IsCapableOfPerforming[i].Performs.client`
Performs.supplier		IsCapableOfPerforming	`$IsCapableOfPerforming[i].Performs.supplier`
propertySet	PropertySet	UPDMElement	`$IsCapableOfPerforming[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$IsCapableOfPerforming[i].startBoundaryType`
URL/URI	String	UPDMElement	`$IsCapableOfPerforming[i].URL/URI`

92. ISO8601DateTime

MODAF: A date and time specified in the ISO8601 date-time format including timezone designator (TZD): YYYY-MM-DDThh:mm:ssTZD.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ISO8601DateTime[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ISO8601DateTime[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ISO8601DateTime[i].endBoundaryType`

Copyright © 1998-2011 No Magic, Inc

propertySet	PropertySet	UPDMElement	$ISO8601DateTime[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ISO8601DateTime[i].startBoundaryType
URL/URI	String	UPDMElement	$ISO8601DateTime[i].URL/URI

93. KnownResource

MODAF: Asserts that a known Resource plays a part in the architecture.
DoDAF: NA – covered by the more general temporalWholePart element.

Base Classifier

- NodeRole

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$KnownResource[i].actualPropertySet
conformsTo	Standard	UPDMElement	$KnownResource[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$KnownResource[i].endBoundaryType
KnownResrouce.type		KnownResource	$KnownResource[i].KnownResrouce.type
NodeRole.class		NodeRole	$KnownResource[i].NodeRole.class
NodeRole.type		NodeRole	$KnownResource[i].NodeRole.type
performsInContext	OperationalActivity	NodeRole	$KnownResource[i].performsInContext
propertySet	PropertySet	UPDMElement	$KnownResource[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$KnownResource[i].startBoundaryType
URL/URI	String	UPDMElement	$KnownResource[i].URL/URI

94. LightCondition

MODAF: a specification of environmental lighting conditions.

Base Classifier

- Environment

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$LightCondition[i].actualPropertySet
appliesTo	UPDMElement	PropertySet	$LightCondition[i].appliesTo
conformsTo	Standard	UPDMElement	$LightCondition[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$LightCondition[i].endBoundaryType
Environment.ownedAttributes		Environment	$LightCondition[i].Environment.ownedAttributes

Copyright © 1998-2011 No Magic, Inc

propertySet	PropertySet	UPDMElement	$LightCondition[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$LightCondition[i].startBoundaryType
URL/URI	String	UPDMElement	$LightCondition[i].URL/URI

95. Location

DoDAF: All subtypes of << IndividualType>> Location, such as Facility, Site, etc.

Base Classifier

- ActualLocation

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$Location[i].actualPropertySet
address	String	ActualLocation	$Location[i].address
conformsTo	Standard	UPDMElement	$Location[i].conformsTo
customKind	String	ActualLocation	$Location[i].customKind
endBoundaryType	ISO8601DateTime	UPDMElement	$Location[i].endBoundaryType
locationKind	LocationKind	ActualLocation	$Location[i].locationKind
locationNamedByAddress	Boolean	ActualLocation	$Location[i].locationNamedByAddress
propertySet	PropertySet	UPDMElement	$Location[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$Location[i].startBoundaryType
URL/URI	String	UPDMElement	$Location[i].URL/URI

96. LocationHolder

UPDM:Abstract grouping to capture elements that can have a location.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$LocationHolder[i].actualPropertySet
conformsTo	Standard	UPDMElement	$LocationHolder[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$LocationHolder[i].endBoundaryType
physicalLocation	ActualLocation	LocationHolder	$LocationHolder[i].physicalLocation
propertySet	PropertySet	UPDMElement	$LocationHolder[i].propertySet
requiredEnvironment	Environment	LocationHolder	$LocationHolder[i].requiredEnvironment
startBoundaryType	ISO8601DateTime	UPDMElement	$LocationHolder[i].startBoundaryType
URL/URI	String	UPDMElement	$LocationHolder[i].URL/URI

Copyright © 1998-2011 No Magic, Inc

97. LocationKind

Enumeration of location kinds, used to support the locationKind tag of the LocationKind stereotype.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
CircularArea	Enumeration Literal	LocationKind	`$LocationKind[i].CircularArea`
ElipticalArea	Enumeration Literal	LocationKind	`$LocationKind[i].ElipticalArea`
GeoStationaryPoint	Enumeration Literal	LocationKind	`$LocationKind[i].GeoStationaryPoint`
Line	Enumeration Literal	LocationKind	`$LocationKind[i].Line`
Other	Enumeration Literal	LocationKind	`$LocationKind[i].Other`
PlanarSurface	Enumeration Literal	LocationKind	`$LocationKind[i].PlanarSurface`
Point	Enumeration Literal	LocationKind	`$LocationKind[i].Point`
PolygonArea	Enumeration Literal	LocationKind	`$LocationKind[i].PolygonArea`
RectangularArea	Enumeration Literal	LocationKind	`$LocationKind[i].RectangularArea`
SolidVolume	Enumeration Literal	LocationKind	`$LocationKind[i].SolidVolume`
Surface	Enumeration Literal	LocationKind	`$LocationKind[i].Surface`

98. LocationType

MODAF: A general specification of the surroundings / scenario in which an operation may take place. Examples would be: "desert", "arctic", "at sea", etc. DoDAF: A point or extent in space that may be referred to physically or logically. Includes concepts such as: Facility, Installation, RealProperty, Site, , and instances of conditions such as underwater (as specified in UJTLs).

Base Classifier

- ConceptItem
- ConditionType

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$LocationType[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$LocationType[i].conformsTo`
customKind	String	LocationType	`$LocationType[i].customKind`
endBoundaryType	ISO8601DateTime	UPDMElement	`$LocationType[i].endBoundaryType`
locationTypeKind	LocationKind	LocationType	`$LocationType[i].locationTypeKind`
propertySet	PropertySet	UPDMElement	`$LocationType[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$LocationType[i].startBoundaryType`
URL/URI	String	UPDMElement	`$LocationType[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

99. LocationTypeKind

Enumeration of kinds of location types, derived from DoDAF, used to support the LocationTypeKind tag of the LocationTypeKind stereotype.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
CircularAreaType	Enumeration Literal	LocationTypeKind	`$LocationTypeKind[i].CircularAreaType`
ElipticalAreaType	Enumeration Literal	LocationTypeKind	`$LocationTypeKind[i].ElipticalAreaType`
GeoStationaryPointType	Enumeration Literal	LocationTypeKind	`$LocationTypeKind[i].GeoStationaryPointType`
LineType	Enumeration Literal	LocationTypeKind	`$LocationTypeKind[i].LineType`
OtherType	Enumeration Literal	LocationTypeKind	`$LocationTypeKind[i].OtherType`
PlanarSurfaceType	Enumeration Literal	LocationTypeKind	`$LocationTypeKind[i].PlanarSurfaceType`
PointType	Enumeration Literal	LocationTypeKind	`$LocationTypeKind[i].PointType`
PolygonAreaType	Enumeration Literal	LocationTypeKind	`$LocationTypeKind[i].PolygonAreaType`
RectangularAreaType	Enumeration Literal	LocationTypeKind	`$LocationTypeKind[i].RectangularAreaType`
SolidVolumeType	Enumeration Literal	LocationTypeKind	`$LocationTypeKind[i].SolidVolumeType`
SurfaceType	Enumeration Literal	LocationTypeKind	`$LocationTypeKind[i].SurfaceType`

100. LogicalArchitecture

MODAF: A CompositeStructureModel whose parts are either NodeRoles (MODAF::Node), ProblemDomains, or KnownResources.
DoDAF: NA

Base Classifier

- NodeParent

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$LogicalArchitecture[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$LogicalArchitecture[i].actualPropertySet`
appliesTo	UPDMElement	PropertySet	`$LogicalArchitecture[i].appliesTo`
conformsTo	Standard	UPDMElement	`$LogicalArchitecture[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$LogicalArchitecture[i].endBoundaryType`
physicalLocation	ActualLocation	LocationHolder	`$LogicalArchitecture[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$LogicalArchitecture[i].propertySet`
requiredEnvironment	Environment	LocationHolder	`$LogicalArchitecture[i].requiredEnvironment`
startBoundaryType	ISO8601DateTime	UPDMElement	`$LogicalArchitecture[i].startBoundaryType`
URL/URI	String	UPDMElement	`$LogicalArchitecture[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

101. LogicalDataModel

MODAF: A LogicalDataModel is a specification of business information requirements as a formal data structure, where relationships and classes (entities) are used to specify the logic which underpins the information.
DoDAF: A Logical Data Model allows analysis of an architecture's data definition aspect, without consideration of implementation specific or product specific issues.

Base Classifier

- DataModel

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$LogicalDataModel[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$LogicalDataModel[i].conformsTo`
DataModel.ownedElement		DataModel	`$LogicalDataModel[i].DataModel.ownedElement`
endBoundaryType	ISO8601DateTime	UPDMElement	`$LogicalDataModel[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$LogicalDataModel[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$LogicalDataModel[i].startBoundaryType`
URL/URI	String	UPDMElement	`$LogicalDataModel[i].URL/URI`

102. MapsToCapability

MODAF: Asserts that a StandardOperationalActivity is in some way part of a capability.
DoDAF: MapsToCapability (DoDAF::ActivityPartOfCapability) is a disposition to manifest an Activity. An Activity to be performed to achieve a desired effect under specified [performance] standards and conditions through combinations of ways and means.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$MapsToCapability[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$MapsToCapability[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$MapsToCapability[i].endBoundaryType`
MapsToCapability.client		MapsToCapability	`$MapsToCapability[i].MapsToCapability.client`
MapsToCapability.supplier		MapsToCapability	`$MapsToCapability[i].MapsToCapability.supplier`
propertySet	PropertySet	UPDMElement	`$MapsToCapability[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$MapsToCapability[i].startBoundaryType`
URL/URI	String	UPDMElement	`$MapsToCapability[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

103. Materiel

MODAF: Artifact, A type of man-made object. Examples are "car", "radio", "diesel", etc.
DoDAF: Equipment, apparatus or supplies that are of interest, without distinction as to its application for administrative or combat purposes.

Base Classifier

- ResourceInteractionItem

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Materiel[i].actualPropertySet`
affectedFunctions	Function	ResourceInteractionItem	`$Materiel[i].affectedFunctions`
appliesTo	UPDMElement	PropertySet	`$Materiel[i].appliesTo`
conformsTo	Standard	UPDMElement	`$Materiel[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Materiel[i].endBoundaryType`
physicalLocation	ActualLocation	LocationHolder	`$Materiel[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$Materiel[i].propertySet`
requiredEnvironment	Environment	LocationHolder	`$Materiel[i].requiredEnvironment`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Materiel[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Materiel[i].URL/URI`

104. Measure

MODAF:NA
DoDAF:The magnitude of some attribute of an individual.

Base Classifier

- ActualPropertySet

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Measure[i].actualPropertySet`
ActualPropertySet.classifier		ActualPropertySet	`$Measure[i].ActualPropertySet.classifier`
ActualPropertySet.slot		ActualPropertySet	`$Measure[i].ActualPropertySet.slot`
appliesTo	UPDMElement	ActualPropertySet	`$Measure[i].appliesTo`
conformsTo	Standard	UPDMElement	`$Measure[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Measure[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$Measure[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Measure[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Measure[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

105. Measurement

MODAF: MeasurableProperty: A property of something in the physical world, expressed in amounts of a unit of measure. The property may have a required value - either specified by the [defaultValue] from UML::property attribute, or the [minValue] and [maxValue] to specify a required range.
DoDAF: Measure: A Measurement (DoDAF::Measure) is the magnitude of some attribute of an individual.

Base Classifier

- Property

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Measurement[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Measurement[i].conformsTo`
defaultValue	String	Property	`$Measurement[i].defaultValue`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Measurement[i].endBoundaryType`
maxValue	String	Property	`$Measurement[i].maxValue`
minValue	String	Property	`$Measurement[i].minValue`
propertySet	PropertySet	UPDMElement	`$Measurement[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Measurement[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Measurement[i].URL/URI`

106. MeasurementSet

UPDM: A set or collection of Measurement(s).
MODAF: NA
DoDAF: NA

Base Classifier

- PropertySet

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$MeasurementSet[i].actualPropertySet`
appliesTo	UPDMElement	PropertySet	`$MeasurementSet[i].appliesTo`
conformsTo	Standard	UPDMElement	`$MeasurementSet[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$MeasurementSet[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$MeasurementSet[i].propertySet`
PropertySet.ownedAttribute		MeasurementSet	`$MeasurementSet[i].PropertySet.ownedAttribute`
startBoundaryType	ISO8601DateTime	UPDMElement	`$MeasurementSet[i].startBoundaryType`
URL/URI	String	UPDMElement	`$MeasurementSet[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

107. MeasureType

MODAF: NA
DoDAF: A category of Measures.

Base Classifier

- MeasurementSet

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$MeasureType[i].actualPropertySet`
appliesTo	UPDMElement	PropertySet	`$MeasureType[i].appliesTo`
conformsTo	Standard	UPDMElement	`$MeasureType[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$MeasureType[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$MeasureType[i].propertySet`
PropertySet.ownedAttribute		MeasurementSet	`$MeasureType[i].PropertySet.ownedAttribute`
startBoundaryType	ISO8601DateTime	UPDMElement	`$MeasureType[i].startBoundaryType`
URL/URI	String	UPDMElement	`$MeasureType[i].URL/URI`

108. Metadata

MODAF: Annotation that can be applied to any element in the architecture.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Metadata[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Metadata[i].conformsTo`
dublinCoreElement	String	Metadata	`$Metadata[i].dublinCoreElement`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Metadata[i].endBoundaryType`
modMetaDataElement	String	Metadata	`$Metadata[i].modMetaDataElement`
name	String	Metadata	`$Metadata[i].name`
propertySet	PropertySet	UPDMElement	`$Metadata[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Metadata[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Metadata[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

109. MilestoneSequence

MODAF: A MilestoneSequence (MODAF::MilestoneRelationship) is a relationship between two milestones.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$MilestoneSequence[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$MilestoneSequence[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$MilestoneSequence[i].endBoundaryType`
MilestoneSequence.client		MilestoneSequence	`$MilestoneSequence[i].MilestoneSequence.client`
MilestoneSequence.supplier		MilestoneSequence	`$MilestoneSequence[i].MilestoneSequence.supplier`
propertySet	PropertySet	UPDMElement	`$MilestoneSequence[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$MilestoneSequence[i].startBoundaryType`
URL/URI	String	UPDMElement	`$MilestoneSequence[i].URL/URI`

110. Mission

MODAF: A purpose to which a person, organization or autonomous system is tasked.
DoDAF: The task, together with the purpose, that clearly indicates the action to be taken.

Base Classifier

- SubjectOfOperationalConstraint

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Mission[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Mission[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Mission[i].endBoundaryType`
missionArea	String	Mission	`$Mission[i].missionArea`
propertySet	PropertySet	UPDMElement	`$Mission[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Mission[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Mission[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

111. MODAFRoleKind

Enumeration of the roles that a ResourceRole may play in the context of a CapabilityConfiguration or System, derived from MODAF, used to support the MODAFRoleKind tag of a ResourceRole.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
Component	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].Component`
Equipment	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].Equipment`
Hosted Software	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].Hosted Software`
Human Resource	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].Human Resource`
Other	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].Other`
Part	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].Part`
Platform	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].Platform`
Post Role	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].Post Role`
Responsibility Role	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].Responsibility Role`
Service Access Role	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].Service Access Role`
Sub Organization	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].Sub Organization`
Sub System Part	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].Sub System Part`
System	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].System`
Used Configuration	Enumeration Literal	MODAFRoleKind	`$MODAFRoleKind[i].Used Configuration`

112. Needline

MODAF: A relationship between Nodes representing a bundle of InformationExchanges.
DoDAF: A needline documents the requirement to exchange information between nodes. The needline does not indicate how the information transfer is implemented.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Needline[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Needline[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Needline[i].endBoundaryType`
Needline.end		Needline	`$Needline[i].Needline.end`
propertySet	PropertySet	UPDMElement	`$Needline[i].propertySet`
realizedExchange	OperationalExchange	Needline	`$Needline[i].realizedExchange`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Needline[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Needline[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

113. Node

MODAF: A Node (MODAF::NodeType) is a logical entity that performs operational activities. Note: nodes are specified independently of any physical realization.
DoDAF: A Node (DoDAF::OperationalNode) is an element of the operational architecture that produces, consumes, or processes information. NOTE: This is also a specialization of Performer.

Base Classifier

- ActivitySubject
- NodeParent
- SubjectOfOperationalConstraint
- SubjectOfOperationalStateMachine

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$Node[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$Node[i].actualPropertySet`
appliesTo	UPDMElement	PropertySet	`$Node[i].appliesTo`
conformsTo	Standard	UPDMElement	`$Node[i].conformsTo`
connectedNodes	Node	Node	`$Node[i].connectedNodes`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Node[i].endBoundaryType`
Node.ownedPort		Node	`$Node[i].Node.ownedPort`
Node.performs		Node	`$Node[i].Node.performs`
physicalLocation	ActualLocation	LocationHolder	`$Node[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$Node[i].propertySet`
requiredEnvironment	Environment	LocationHolder	`$Node[i].requiredEnvironment`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Node[i].startBoundaryType`
SubjectOfOperationalStateMachine.ownedBehavior		SubjectOfOperationalStateMachine	`$Node[i].SubjectOfOperationalStateMachine.ownedBehavior`
URL/URI	String	UPDMElement	`$Node[i].URL/URI`

114. NodeOperation

UPDM:A partial or full realization of an OperationalActivity.
MODAF:NA
DoDAF:NA

Base Classifier

- UPDMElement

Copyright © 1998-2011 No Magic, Inc

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$NodeOperation[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$NodeOperation[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$NodeOperation[i].endBoundaryType`
NodeOperation.ownedParameter		NodeOperation	`$NodeOperation[i].NodeOperation.ownedParameter`
propertySet	PropertySet	UPDMElement	`$NodeOperation[i].propertySet`
realizes	OperationalActivity	NodeOperation	`$NodeOperation[i].realizes`
startBoundaryType	ISO8601DateTime	UPDMElement	`$NodeOperation[i].startBoundaryType`
URL/URI	String	UPDMElement	`$NodeOperation[i].URL/URI`

115. NodeParent

UPDM: An abstract element representing the owners/context of composite structure at the operational level.
MODAF:The abstract supertype of all elements that can have child Nodes (LogicalArchitecture, ProblemDomain & NodeType)
DoDAF:NA

Base Classifier

- Participant

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$NodeParent[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$NodeParent[i].actualPropertySet`
appliesTo	UPDMElement	PropertySet	`$NodeParent[i].appliesTo`
conformsTo	Standard	UPDMElement	`$NodeParent[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$NodeParent[i].endBoundaryType`
physicalLocation	ActualLocation	LocationHolder	`$NodeParent[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$NodeParent[i].propertySet`
requiredEnvironment	Environment	LocationHolder	`$NodeParent[i].requiredEnvironment`
startBoundaryType	ISO8601DateTime	UPDMElement	`$NodeParent[i].startBoundaryType`
URL/URI	String	UPDMElement	`$NodeParent[i].URL/URI`

116. NodePort

UPDM: A port is a property of a Node that specifies a distinct interaction point between the node and its environment or between the (behavior of the) node and its internal parts. It is the "entry/exit" point where resources (e.g., energy, information/data and people, etc) flow in and out of a node.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)

Copyright © 1998-2011 No Magic, Inc

actualPropertySet	ActualPropertySet	UPDMElement	$NodePort[i].actualPropertySet
conformsTo	Standard	UPDMElement	$NodePort[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$NodePort[i].endBoundaryType
NodePort.type		NodePort	$NodePort[i].NodePort.type
propertySet	PropertySet	UPDMElement	$NodePort[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$NodePort[i].startBoundaryType
URL/URI	String	UPDMElement	$NodePort[i].URL/URI

117. NodeRole

MODAF: A NodeRole (MODAF::Node) is used to link a parent Node to its sub-nodes.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$NodeRole[i].actualPropertySet
conformsTo	Standard	UPDMElement	$NodeRole[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$NodeRole[i].endBoundaryType
NodeRole.class		NodeRole	$NodeRole[i].NodeRole.class
NodeRole.type		NodeRole	$NodeRole[i].NodeRole.type
performsInContext	OperationalActivity	NodeRole	$NodeRole[i].performsInContext
propertySet	PropertySet	UPDMElement	$NodeRole[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$NodeRole[i].startBoundaryType
URL/URI	String	UPDMElement	$NodeRole[i].URL/URI

118. NoLongerUsedMilestone

MODAF: Asserts that an ActualOrganisationResource ceased to use or is slated to cease using a CapabilityConfiguration from a specific point in time. -- This is used to describe capabilities going out of service with specific organisations or posts.
DoDAF:NA

Base Classifier

- ActualProjectMilestone

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualProjectMilestone.classifier		ActualProjectMilestone	$NoLongerUsedMilestone[i].ActualProjectMilestone.classifier
ActualProjectMilestone.slot		ActualProjectMilestone	$NoLongerUsedMilestone[i].ActualProjectMilestone.slot

Copyright © 1998-2011 No Magic, Inc

actualPropertySet	ActualPropertySet	UPDMElement	$NoLongerUsedMilestone[i].actualPropertySet
conformsTo	Standard	UPDMElement	$NoLongerUsedMilestone[i].conformsTo
date	ISO8601DateTime	ActualProjectMilestone	$NoLongerUsedMilestone[i].date
description	String	ActualProjectMilestone	$NoLongerUsedMilestone[i].description
endBoundaryType	ISO8601DateTime	UPDMElement	$NoLongerUsedMilestone[i].endBoundaryType
noLongerUsedBy	ActualOrganizationalResource	NoLongerUsedMilestone	$NoLongerUsedMilestone[i].noLongerUsedBy
propertySet	PropertySet	UPDMElement	$NoLongerUsedMilestone[i].propertySet
resource	SystemResource	ActualProjectMilestone	$NoLongerUsedMilestone[i].resource
startBoundaryType	ISO8601DateTime	UPDMElement	$NoLongerUsedMilestone[i].startBoundaryType
URL/URI	String	UPDMElement	$NoLongerUsedMilestone[i].URL/URI

119. OntologyReference

MODAF: A reference to an element in a recognized external ontology or taxonomy.
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$OntologyReference[i].actualPropertySet
conformsTo	Standard	UPDMElement	$OntologyReference[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$OntologyReference[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$OntologyReference[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$OntologyReference[i].startBoundaryType
url	String	OntologyReference	$OntologyReference[i].url
URL/URI	String	UPDMElement	$OntologyReference[i].URL/URI

120. OperationalActivity

MODAF: A logical process, specified independently of how the process is carried out.DoDAF: An activity is an action performed in conducting the business of an enterprise. It is a general term that does not imply a placement in a hierarchy
(e.g., it could be a process or a task as defined in other documents and it could be at any level of the hierarchy of the OV-5). It is used to portray operational actions not hardware/software system functions. NOTE: This is also a specialization of Activity.
DoDAF:NA

Base Classifier

- Activity
- Process

Copyright © 1998-2011 No Magic, Inc

- SubjectOfOperationalConstraint

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
activityPerformableUnderCondition	Environment	Activity	`$OperationalActivity[i].activityPerformableUnderCondition`
actualPropertySet	ActualPropertySet	UPDMElement	`$OperationalActivity[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$OperationalActivity[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalActivity[i].endBoundaryType`
OperationalActivity.ownedParameter		OperationalActivity	`$OperationalActivity[i].OperationalActivity.ownedParameter`
propertySet	PropertySet	UPDMElement	`$OperationalActivity[i].propertySet`
realizedBy	NodeOperation	OperationalActivity	`$OperationalActivity[i].realizedBy`
startBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalActivity[i].startBoundaryType`
subject	ActivitySubject	OperationalActivity	`$OperationalActivity[i].subject`
URL/URI	String	UPDMElement	`$OperationalActivity[i].URL/URI`

121. OperationalActivityAction

UPDM: The OperationalActivityAction is defined as a call behavior action that invokes the activity that needs to be preformed.
MODAF: Used to relate an OperationalActivity to its sub-activities.
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$OperationalActivityAction[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$OperationalActivityAction[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalActivityAction[i].endBoundaryType`
OperationalActivityAction.activity		OperationalActivityAction	`$OperationalActivityAction[i].OperationalActivityAction.activity`
OperationalActivityAction.behavior		OperationalActivityAction	`$OperationalActivityAction[i].OperationalActivityAction.behavior`
propertySet	PropertySet	UPDMElement	`$OperationalActivityAction[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalActivityAction[i].startBoundaryType`
URL/URI	String	UPDMElement	`$OperationalActivityAction[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

122. OperationalActivityEdge

UPDM An extension of <<ActivityEdge>> that is used to model the flow of control/objects through an OperationalActivity.
MODAF: An OperationalActivityEdge (MODAF::OperationalActivityFlow) is a flow of information, energy or materiel from one activity to another.
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$OperationalActivityEdge[i].actualPropertySet`
carriedItem	OperationalExchangeItem	OperationalActivityEdge	`$OperationalActivityEdge[i].carriedItem`
conformsTo	Standard	UPDMElement	`$OperationalActivityEdge[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalActivityEdge[i].endBoundaryType`
OperationalActivityEdge.owner		OperationalActivityEdge	`$OperationalActivityEdge[i].OperationalActivityEdge.owner`
propertySet	PropertySet	UPDMElement	`$OperationalActivityEdge[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalActivityEdge[i].startBoundaryType`
URL/URI	String	UPDMElement	`$OperationalActivityEdge[i].URL/URI`

123. OperationalConstraint

UPDM: An abstract Class that is extended by OperationalConstraint (A rule governing an operational behaviour or property.) and ResourceConstraint.
MODAF:A rule governing an operational behaviour or property.
DoDAF:A principle or condition that governs behavior; a prescribed guide for conduct or action (Rule).

Base Classifier

- Rule

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$OperationalConstraint[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$OperationalConstraint[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalConstraint[i].endBoundaryType`
OperationalConstraint.constrainedElement		OperationalConstraint	`$OperationalConstraint[i].OperationalConstraint.constrainedElement`
propertySet	PropertySet	UPDMElement	`$OperationalConstraint[i].propertySet`
ruleKind	RuleKind	Rule	`$OperationalConstraint[i].ruleKind`
startBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalConstraint[i].startBoundaryType`

Copyright © 1998-2011 No Magic, Inc

URL/URI	String	UPDMElement	`$OperationalConstraint[i].URL/URI`

124. OperationalEventTrace

MODAF: An OperationalEventTrace (MODAF::OperationalInteractionSpecification) is a specification of the interactions between nodes in an operational architecture.
DoDAF: The Operational Event-Trace Description (OV-6c) DoDAF-described View provides a time ordered examination of the resource flows as a result of a particular scenario. Each event-trace diagram will have an accompanying description that defines the particular scenario or situation.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$OperationalEventTrace[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$OperationalEventTrace[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalEventTrace[i].endBoundaryType`
OperationalEventTrace.message		OperationalEventTrace	`$OperationalEventTrace[i].OperationalEventTrace.message`
OperationalEventTrace.owner		OperationalEventTrace	`$OperationalEventTrace[i].OperationalEventTrace.owner`
propertySet	PropertySet	UPDMElement	`$OperationalEventTrace[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalEventTrace[i].startBoundaryType`
URL/URI	String	UPDMElement	`$OperationalEventTrace[i].URL/URI`

125. OperationalExchange

UPDM: An utility element used as common flow for:
- InformationExchange
- OrganizationalExchange
- EnergyExchange
- MaterielExchange
- ConfigurationExchange
- GeoPoliticalExtent
An operational exchange is formed when an activity of one operational node consumes items produced by another activity of a different operational node. An operational exchange describes the characteristics of the exchanged item, such as the content, format (voice, imagery, text and message format, etc.), throughput requirements, security or classification level, timeliness requirement, and the degree of interoperability.

MODAF: An OperationalExchange (MODAF::LogicalFlow) asserts that a flow exists or is required between Nodes (e.g. flows of information, people, materiel, or energy).

Copyright © 1998-2011 No Magic, Inc

Base Classifier

- Exchange
- SubjectOfOperationalConstraint

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$OperationalExchange[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$OperationalExchange[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalExchange[i].endBoundaryType`
exchangeKind	OperationalExchangeKind	OperationalExchange	`$OperationalExchange[i].exchangeKind`
OperationalExchange.conveyed		OperationalExchange	`$OperationalExchange[i].OperationalExchange.conveyed`
OperationalExchange.informationSource		OperationalExchange	`$OperationalExchange[i].OperationalExchange.informationSource`
OperationalExchange.informationTarget		OperationalExchange	`$OperationalExchange[i].OperationalExchange.informationTarget`
OperationalExchange.realization/realizingConnector		OperationalExchange	`$OperationalExchange[i].OperationalExchange.realization/realizingConnector`
OperationalExchange.realizingActivityEdge		OperationalExchange	`$OperationalExchange[i].OperationalExchange.realizingActivityEdge`
OperationalExchange.realizingMessage		OperationalExchange	`$OperationalExchange[i].OperationalExchange.realizingMessage`
propertySet	PropertySet	UPDMElement	`$OperationalExchange[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalExchange[i].startBoundaryType`
URL/URI	String	UPDMElement	`$OperationalExchange[i].URL/URI`

126. OperationalExchangeItem

UPDM An abstract utility element used as common ancestor for:
- InformationElement
- ResourceArtifact
- Energy
- OrganizationalResource
- CapabilityConfiguration
- GeoPoliticalExtent

Base Classifier

- ActivitySubject
- Resource

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)

Copyright © 1998-2011 No Magic, Inc

actsUpon	OperationalActivity	ActivitySubject	$OperationalExchangeItem[i].actsUpon
actualPropertySet	ActualPropertySet	UPDMElement	$OperationalExchangeItem[i].actualPropertySet
appliesTo	UPDMElement	PropertySet	$OperationalExchangeItem[i].appliesTo
conformsTo	Standard	UPDMElement	$OperationalExchangeItem[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$OperationalExchangeItem[i].endBoundaryType
physicalLocation	ActualLocation	LocationHolder	$OperationalExchangeItem[i].physicalLocation
propertySet	PropertySet	UPDMElement	$OperationalExchangeItem[i].propertySet
requiredEnvironment	Environment	LocationHolder	$OperationalExchangeItem[i].requiredEnvironment
startBoundaryType	ISO8601DateTime	UPDMElement	$OperationalExchangeItem[i].startBoundaryType
URL/URI	String	UPDMElement	$OperationalExchangeItem[i].URL/URI

127. OperationalExchangeKind

Enumeration of operational exchange kinds, used to support the exchangeKind tag of the OperationalExchange stereotype.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ConfigurationExchange	Enumeration Literal	OperationalExchangeKind	$OperationalExchangeKind[i].ConfigurationExchange
EnergyExchange	Enumeration Literal	OperationalExchangeKind	$OperationalExchangeKind[i].EnergyExchange
GeoPoliticalExtentExchange	Enumeration Literal	OperationalExchangeKind	$OperationalExchangeKind[i].GeoPoliticalExtentExchange
InformationExchange	Enumeration Literal	OperationalExchangeKind	$OperationalExchangeKind[i].InformationExchange
MaterielExchange	Enumeration Literal	OperationalExchangeKind	$OperationalExchangeKind[i].MaterielExchange
OrganizationalExchange	Enumeration Literal	OperationalExchangeKind	$OperationalExchangeKind[i].OrganizationalExchange

128. OperationalMessage

UPDM: Message for use in an Operational Event-Trace which carries any of the subtypes of OperationalExchange. This is used to provide additional information about OperationalMessages for display on an OV-6c.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$OperationalMessage[i].actualPropertySet

Copyright © 1998-2011 No Magic, Inc

carries	OperationalExchange	OperationalMessage	$OperationalMessage[i].carries
conformsTo	Standard	UPDMElement	$OperationalMessage[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$OperationalMessage[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$OperationalMessage[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$OperationalMessage[i].startBoundaryType
URL/URI	String	UPDMElement	$OperationalMessage[i].URL/URI

129. OperationalParameter

UPDM Represents inputs and outputs of an OperationalActivity. It is typed by OperationalExchangeItem.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$OperationalParameter[i].actualPropertySet
conformsTo	Standard	UPDMElement	$OperationalParameter[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$OperationalParameter[i].endBoundaryType
OperationalParameter.type		OperationalParameter	$OperationalParameter[i].OperationalParameter.type
propertySet	PropertySet	UPDMElement	$OperationalParameter[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$OperationalParameter[i].startBoundaryType
URL/URI	String	UPDMElement	$OperationalParameter[i].URL/URI

130. OperationalState

Base Classifier

- DesiredState

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$OperationalState[i].actualPropertySet
conformsTo	Standard	UPDMElement	$OperationalState[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$OperationalState[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$OperationalState[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$OperationalState[i].startBoundaryType
URL/URI	String	UPDMElement	$OperationalState[i].URL/URI

Copyright © 1998-2011 No Magic, Inc

131. OperationalStateDescription

UPDM: A state machine describing an operational behavior or property.
MODAF: An OperationalStateMachine (MODAF::OperationalStateDescription) is a rule governing an operational behaviour or property.
DoDAF: The Operational State Transition Description (OV-6b) DoDAF-described View is a graphical method of describing how an Operational Activity responds to various events by changing its state. The diagram represents the sets of events to which the Architecture will respond (by taking an action to move to a new state) as a function of its current state. Each transition specifies an event and an action.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$OperationalStateDescription[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$OperationalStateDescription[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalStateDescription[i].endBoundaryType`
OperationalStateDescription.owner		OperationalStateDescription	`$OperationalStateDescription[i].OperationalStateDescription.owner`
propertySet	PropertySet	UPDMElement	`$OperationalStateDescription[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$OperationalStateDescription[i].startBoundaryType`
URL/URI	String	UPDMElement	`$OperationalStateDescription[i].URL/URI`

132. Organization

MODAF: A group of persons, associated for a particular purpose.
DoDAF: A type of Organization.

Base Classifier

- OrganizationalResource

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$Organization[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$Organization[i].actualPropertySet`
affectedFunctions	Function	ResourceInteractionItem	`$Organization[i].affectedFunctions`
appliesTo	UPDMElement	PropertySet	`$Organization[i].appliesTo`
conformsTo	Standard	UPDMElement	`$Organization[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Organization[i].endBoundaryType`
milestone	ActualProjectMilestone	SystemResource	`$Organization[i].milestone`

Copyright © 1998-2011 No Magic, Inc

physicalLocation	ActualLocation	LocationHolder	$Organization[i].physicalLocation
propertySet	PropertySet	UPDMElement	$Organization[i].propertySet
requiredEnvironment	Environment	LocationHolder	$Organization[i].requiredEnvironment
Resource.ownedOperation		SystemResource	$Organization[i].Resource.ownedOperation
Resource.ownedPort		SystemResource	$Organization[i].Resource.ownedPort
Resource.performs		SystemResource	$Organization[i].Resource.performs
startBoundaryType	ISO8601DateTime	UPDMElement	$Organization[i].startBoundaryType
URL/URI	String	UPDMElement	$Organization[i].URL/URI

133. Organization

DoDAF:A specific real-world assemblage of people and other resources organized for an on-going purpose.

Base Classifier

- ActualOrganization

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualOrganization.classifier		ActualOrganization	$Organization[i].ActualOrganization.classifier
ActualOrganization.slot		ActualOrganization	$Organization[i].ActualOrganization.slot
actualPropertySet	ActualPropertySet	UPDMElement	$Organization[i].actualPropertySet
code/symbol	String	ActualOrganization	$Organization[i].code/symbol
conformsTo	Standard	UPDMElement	$Organization[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Organization[i].endBoundaryType
physicalLocation	ActualLocation	LocationHolder	$Organization[i].physicalLocation
propertySet	PropertySet	UPDMElement	$Organization[i].propertySet
ratifiedStandards	Standard	ActualOrganization	$Organization[i].ratifiedStandards
requiredEnvironment	Environment	LocationHolder	$Organization[i].requiredEnvironment
serviceType	String	ActualOrganization	$Organization[i].serviceType
startBoundaryType	ISO8601DateTime	UPDMElement	$Organization[i].startBoundaryType
URL/URI	String	UPDMElement	$Organization[i].URL/URI

134. OrganizationalProjectRelationship

MODAF:A relationship between an ActualOrganisation and a Project.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$OrganizationalProjectRelationship[i].actual

Copyright © 1998-2011 No Magic, Inc

			PropertySet
conformsTo	Standard	UPDMElement	$OrganizationalProjectRelationship[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$OrganizationalProjectRelationship[i].endBoundaryType
OrganizationalProjectRelationship.client		OrganizationalProjectRelationship	$OrganizationalProjectRelationship[i].OrganizationalProjectRelationship.client
OrganizationalProjectRelationship.supplier		OrganizationalProjectRelationship	$OrganizationalProjectRelationship[i].OrganizationalProjectRelationship.supplier
propertySet	PropertySet	UPDMElement	$OrganizationalProjectRelationship[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$OrganizationalProjectRelationship[i].startBoundaryType
URL/URI	String	UPDMElement	$OrganizationalProjectRelationship[i].URL/URI

135. OrganizationalResource

UPDM An abstract element that represents Organizations and Posts.
MODAF: Either an organization, or a post.

Base Classifier

- PhysicalResource

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	$OrganizationalResource[i].actsUpon
actualPropertySet	ActualPropertySet	UPDMElement	$OrganizationalResource[i].actualPropertySet
affectedFunctions	Function	ResourceInteractionItem	$OrganizationalResource[i].affectedFunctions
appliesTo	UPDMElement	PropertySet	$OrganizationalResource[i].appliesTo
conformsTo	Standard	UPDMElement	$OrganizationalResource[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$OrganizationalResource[i].endBoundaryType
milestone	ActualProjectMilestone	SystemResource	$OrganizationalResource[i].milestone
physicalLocation	ActualLocation	LocationHolder	$OrganizationalResource[i].physicalLocation
propertySet	PropertySet	UPDMElement	$OrganizationalResource[i].propertySet
requiredEnvironment	Environment	LocationHolder	$OrganizationalResource[i].requiredEnvironment
Resource.ownedOperation		SystemResource	$OrganizationalResource[i].Resource.ownedOperation
Resource.ownedPort		SystemResource	$OrganizationalResource[i].Resource.ownedPort

Copyright © 1998-2011 No Magic, Inc

Resource.performs		SystemResource	$OrganizationalResource[i].Resource.performs
startBoundaryType	ISO8601DateTime	UPDMElement	$OrganizationalResource[i].startBoundaryType
URL/URI	String	UPDMElement	$OrganizationalResource[i].URL/URI

136. OrganizationType

DoDAF:A type of Organization.

Base Classifier

- Organization

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	$OrganizationType[i].actsUpon
actualPropertySet	ActualPropertySet	UPDMElement	$OrganizationType[i].actualPropertySet
affectedFunctions	Function	ResourceInteractionItem	$OrganizationType[i].affectedFunctions
appliesTo	UPDMElement	PropertySet	$OrganizationType[i].appliesTo
conformsTo	Standard	UPDMElement	$OrganizationType[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$OrganizationType[i].endBoundaryType
milestone	ActualProjectMilestone	SystemResource	$OrganizationType[i].milestone
physicalLocation	ActualLocation	LocationHolder	$OrganizationType[i].physicalLocation
propertySet	PropertySet	UPDMElement	$OrganizationType[i].propertySet
requiredEnvironment	Environment	LocationHolder	$OrganizationType[i].requiredEnvironment
Resource.ownedOperation		SystemResource	$OrganizationType[i].Resource.ownedOperation
Resource.ownedPort		SystemResource	$OrganizationType[i].Resource.ownedPort
Resource.performs		SystemResource	$OrganizationType[i].Resource.performs
startBoundaryType	ISO8601DateTime	UPDMElement	$OrganizationType[i].startBoundaryType
URL/URI	String	UPDMElement	$OrganizationType[i].URL/URI

137. OutOfServiceMilestone

MODAF: An OutOfServiceMilestone (MODAF::OutOfService) is a ProjectMilestone that indicates a project's deliverable is to go out of service.
DoDAF: NA

Base Classifier

- ActualProjectMilestone

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualProjectMilestone.classifier		ActualProjectMilestone	$OutOfServiceMilestone[i].ActualProjectMilestone.classifier
ActualProjectMilestone.slot		ActualProjectMilestone	$OutOfServiceMilestone[i].ActualProjectMilestone.slot

Copyright © 1998-2011 No Magic, Inc

actualPropertySet	ActualPropertySet	UPDMElement	$OutOfServiceMilestone[i].actualPropertySet
conformsTo	Standard	UPDMElement	$OutOfServiceMilestone[i].conformsTo
date	ISO8601DateTime	ActualProjectMilestone	$OutOfServiceMilestone[i].date
description	String	ActualProjectMilestone	$OutOfServiceMilestone[i].description
endBoundaryType	ISO8601DateTime	UPDMElement	$OutOfServiceMilestone[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$OutOfServiceMilestone[i].propertySet
resource	SystemResource	ActualProjectMilestone	$OutOfServiceMilestone[i].resource
startBoundaryType	ISO8601DateTime	UPDMElement	$OutOfServiceMilestone[i].startBoundaryType
URL/URI	String	UPDMElement	$OutOfServiceMilestone[i].URL/URI

138. Overlap

IDEAS:A couple of wholePart couples where the part in each couple is the same.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$Overlap[i].actualPropertySet
conformsTo	Standard	UPDMElement	$Overlap[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Overlap[i].endBoundaryType
Overlap.client		Overlap	$Overlap[i].Overlap.client
Overlap.supplier		Overlap	$Overlap[i].Overlap.supplier
propertySet	PropertySet	UPDMElement	$Overlap[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$Overlap[i].startBoundaryType
URL/URI	String	UPDMElement	$Overlap[i].URL/URI

139. OwnsProcess

UPDM:Asserts that an ActualOrganizationalResource owns a Process.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$OwnsProcess[i].actualPropertySet
conformsTo	Standard	UPDMElement	$OwnsProcess[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$OwnsProcess[i].endBoundaryType
OwnsProcess.client		OwnsProcess	$OwnsProcess[i].OwnsProcess.client
OwnsProcess.supplier		OwnsProcess	$OwnsProcess[i].OwnsProcess.supplier
propertySet	PropertySet	UPDMElement	$OwnsProcess[i].propertySet

Copyright © 1998-2011 No Magic, Inc

startBoundaryType	ISO8601DateTime	UPDMElement	$OwnsProcess[i].startBoundaryType
URL/URI	String	UPDMElement	$OwnsProcess[i].URL/URI

140. Participant

UPDM: A participant is the abstract type of a provider and/or consumer of services. In the business domain a participant may be a person, organization or system. In the systems domain a participant may be a system, application or component.

Base Classifier

- CapableElement
- ConceptItem
- Desirer
- OperationalExchangeItem
- Participant

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	$Participant[i].actsUpon
actualPropertySet	ActualPropertySet	UPDMElement	$Participant[i].actualPropertySet
appliesTo	UPDMElement	PropertySet	$Participant[i].appliesTo
conformsTo	Standard	UPDMElement	$Participant[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Participant[i].endBoundaryType
physicalLocation	ActualLocation	LocationHolder	$Participant[i].physicalLocation
propertySet	PropertySet	UPDMElement	$Participant[i].propertySet
requiredEnvironment	Environment	LocationHolder	$Participant[i].requiredEnvironment
startBoundaryType	ISO8601DateTime	UPDMElement	$Participant[i].startBoundaryType
URL/URI	String	UPDMElement	$Participant[i].URL/URI

141. Performer

MODAF:NA
DoDAF:Any entity - human, automated, or any aggregation of human and/or automated - that performs an activity and provides a capability. An alias for Node in DoDAF.

Base Classifier

- Node

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	$Performer[i].actsUpon
actualPropertySet	ActualPropertySet	UPDMElement	$Performer[i].actualPropertySet
appliesTo	UPDMElement	PropertySet	$Performer[i].appliesTo

Copyright © 1998-2011 No Magic, Inc

conformsTo	Standard	UPDMElement	`$Performer[i].conformsTo`
connectedNodes	Node	Node	`$Performer[i].connectedNodes`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Performer[i].endBoundaryType`
Node.ownedPort		Node	`$Performer[i].Node.ownedPort`
Node.performs		Node	`$Performer[i].Node.performs`
physicalLocation	ActualLocation	LocationHolder	`$Performer[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$Performer[i].propertySet`
requiredEnvironment	Environment	LocationHolder	`$Performer[i].requiredEnvironment`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Performer[i].startBoundaryType`
SubjectOfOperationalStateMachine.ownedBehavior		SubjectOfOperationalStateMachine	`$Performer[i].SubjectOfOperationalStateMachine.ownedBehavior`
URL/URI	String	UPDMElement	`$Performer[i].URL/URI`

142. Person

UPDM: A type of a human being that is recognized by law as the subject of rights and duties. This is used to define the characteristics that require capturing for ActualPersons (e.g. properties such as address, rank, telephone number, etc).
MODAF: NA
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Person[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Person[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Person[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$Person[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Person[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Person[i].URL/URI`

143. PersonType

DoDAF:A category of persons defined by the role or roles they share that are relevant to an architecture. Includes assigned materiel.
MODAF:NA

Base Classifier

- Post

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$PersonType[i].actsUpon`

Copyright © 1998-2011 No Magic, Inc

actualPropertySet	ActualPropertySet	UPDMElement	$PersonType[i].actualPropertySet
affectedFunctions	Function	ResourceInteractionItem	$PersonType[i].affectedFunctions
appliesTo	UPDMElement	PropertySet	$PersonType[i].appliesTo
conformsTo	Standard	UPDMElement	$PersonType[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$PersonType[i].endBoundaryType
milestone	ActualProjectMilestone	SystemResource	$PersonType[i].milestone
physicalLocation	ActualLocation	LocationHolder	$PersonType[i].physicalLocation
propertySet	PropertySet	UPDMElement	$PersonType[i].propertySet
requiredEnvironment	Environment	LocationHolder	$PersonType[i].requiredEnvironment
Resource.ownedOperation		SystemResource	$PersonType[i].Resource.ownedOperation
Resource.ownedPort		SystemResource	$PersonType[i].Resource.ownedPort
Resource.performs		SystemResource	$PersonType[i].Resource.performs
startBoundaryType	ISO8601DateTime	UPDMElement	$PersonType[i].startBoundaryType
URL/URI	String	UPDMElement	$PersonType[i].URL/URI

144. PhysicalArchitecture

MODAF:A configuration of Resources for a purpose.
DoDAF:NA

Base Classifier

- SystemResource

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	$PhysicalArchitecture[i].actsUpon
actualPropertySet	ActualPropertySet	UPDMElement	$PhysicalArchitecture[i].actualPropertySet
affectedFunctions	Function	ResourceInteractionItem	$PhysicalArchitecture[i].affectedFunctions
appliesTo	UPDMElement	PropertySet	$PhysicalArchitecture[i].appliesTo
conformsTo	Standard	UPDMElement	$PhysicalArchitecture[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$PhysicalArchitecture[i].endBoundaryType
milestone	ActualProjectMilestone	SystemResource	$PhysicalArchitecture[i].milestone
physicalLocation	ActualLocation	LocationHolder	$PhysicalArchitecture[i].physicalLocation
propertySet	PropertySet	UPDMElement	$PhysicalArchitecture[i].propertySet
requiredEnvironment	Environment	LocationHolder	$PhysicalArchitecture[i].requiredEnvironment
Resource.ownedOperation		SystemResource	$PhysicalArchitecture[i].Resource.ownedOperation
Resource.ownedPort		SystemResource	$PhysicalArchitecture[i].Resource.ownedPort
Resource.performs		SystemResource	$PhysicalArchitecture[i].Resource.performs
startBoundaryType	ISO8601DateTime	UPDMElement	$PhysicalArchitecture[i].startBoundaryType
URL/URI	String	UPDMElement	$PhysicalArchitecture[i].URL/URI

Copyright © 1998-2011 No Magic, Inc

145. PhysicalDataModel

MODAF: A PhysicalDataModel is an implementable specification of a data structure. A PhysicalDataModel realises a LogicalDataModel, taking into account implementation restrictions and performance issues whilst still enforcing the constraints, relationships and typing of the logical model.
DoDAF: A Physical Data Model defines the structure of the various kinds of system or service data that are utilized by the systems or services in the Architecture.

Base Classifier

- DataModel

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$PhysicalDataModel[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$PhysicalDataModel[i].conformsTo`
DataModel.ownedElement		DataModel	`$PhysicalDataModel[i].DataModel.ownedElement`
endBoundaryType	ISO8601DateTime	UPDMElement	`$PhysicalDataModel[i].endBoundaryType`
physicalDataModelType	String	PhysicalDataModel	`$PhysicalDataModel[i].physicalDataModelType`
propertySet	PropertySet	UPDMElement	`$PhysicalDataModel[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$PhysicalDataModel[i].startBoundaryType`
URL/URI	String	UPDMElement	`$PhysicalDataModel[i].URL/URI`

146. PhysicalResource

Base Classifier

- SystemResource

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$PhysicalResource[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$PhysicalResource[i].actualPropertySet`
affectedFunctions	Function	ResourceInteractionItem	`$PhysicalResource[i].affectedFunctions`
appliesTo	UPDMElement	PropertySet	`$PhysicalResource[i].appliesTo`
conformsTo	Standard	UPDMElement	`$PhysicalResource[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$PhysicalResource[i].endBoundaryType`
milestone	ActualProjectMilestone	SystemResource	`$PhysicalResource[i].milestone`
physicalLocation	ActualLocation	LocationHolder	`$PhysicalResource[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$PhysicalResource[i].propertySet`
requiredEnvironment	Environment	LocationHolder	`$PhysicalResource[i].requiredEnvironment`
Resource.ownedOperation		SystemResource	`$PhysicalResource[i].Resource.ownedOperation`
Resource.ownedPort		SystemResource	`$PhysicalResource[i].Resource.ownedPort`
Resource.performs		SystemResource	`$PhysicalResource[i].Resource.performs`

Copyright © 1998-2011 No Magic, Inc

startBoundaryType	ISO8601DateTime	UPDMElement	$PhysicalResource[i].startBoundaryType
URL/URI	String	UPDMElement	$PhysicalResource[i].URL/URI

147. Post

MODAF: A Post (MODAF::PostType) is a type of point of contact or responsible person. Note that this is the type of post - e.g. Desk Officer, Commander Land Component, etc.
DoDAF: A Post (DoDAF:: PersonType) is a category of persons defined by the role or roles they share that are relevant to an architecture.

Base Classifier

- CompetenceRequirer
- OrganizationalResource

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	$Post[i].actsUpon
actualPropertySet	ActualPropertySet	UPDMElement	$Post[i].actualPropertySet
affectedFunctions	Function	ResourceInteractionItem	$Post[i].affectedFunctions
appliesTo	UPDMElement	PropertySet	$Post[i].appliesTo
conformsTo	Standard	UPDMElement	$Post[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Post[i].endBoundaryType
milestone	ActualProjectMilestone	SystemResource	$Post[i].milestone
physicalLocation	ActualLocation	LocationHolder	$Post[i].physicalLocation
propertySet	PropertySet	UPDMElement	$Post[i].propertySet
requiredEnvironment	Environment	LocationHolder	$Post[i].requiredEnvironment
Resource.ownedOperation		SystemResource	$Post[i].Resource.ownedOperation
Resource.ownedPort		SystemResource	$Post[i].Resource.ownedPort
Resource.performs		SystemResource	$Post[i].Resource.performs
startBoundaryType	ISO8601DateTime	UPDMElement	$Post[i].startBoundaryType
URL/URI	String	UPDMElement	$Post[i].URL/URI

148. ProblemDomain

MODAF: The boundary containing those Nodes which may be realised by functional resources specified in SV-1. There may be more than one alternative solution for a given ProblemDomain specified as a set of SV suites. There may be only one ProblemDomain in a LogicalArchitecture.
DoDAF: NA – covered by the more general temporalWholePart element.

Base Classifier

- NodeRole

Copyright © 1998-2011 No Magic, Inc

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ProblemDomain[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ProblemDomain[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ProblemDomain[i].endBoundaryType`
NodeRole.class		NodeRole	`$ProblemDomain[i].NodeRole.class`
NodeRole.type		NodeRole	`$ProblemDomain[i].NodeRole.type`
performsInContext	OperationalActivity	NodeRole	`$ProblemDomain[i].performsInContext`
ProblemDomain.class		ProblemDomain	`$ProblemDomain[i].ProblemDomain.class`
ProblemDomain.type		ProblemDomain	`$ProblemDomain[i].ProblemDomain.type`
propertySet	PropertySet	UPDMElement	`$ProblemDomain[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ProblemDomain[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ProblemDomain[i].URL/URI`

149. Process

MODAF:The abstract supertype of OperationalActivity and EnduringTask.
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Process[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Process[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Process[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$Process[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Process[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Process[i].URL/URI`

150. Project

DoDAF:A temporary endeavor undertaken to create Resources or Desired Effects.

Base Classifier

- ActualProject

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActualProject.classifier		ActualProject	`$Project[i].ActualProject.classifier`
actualPropertySet	ActualPropertySet	UPDMElement	`$Project[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Project[i].conformsTo`

Copyright © 1998-2011 No Magic, Inc

endBoundaryType	ISO8601DateTime	UPDMElement	$Project[i].endBoundaryType
endDate	ISO8601DateTime	ActualProject	$Project[i].endDate
ownedMilestones	ActualProjectMilestone	ActualProject	$Project[i].ownedMilestones
part	ActualProject	ActualProject	$Project[i].part
propertySet	PropertySet	UPDMElement	$Project[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$Project[i].startBoundaryType
startDate	ISO8601DateTime	ActualProject	$Project[i].startDate
URL/URI	String	UPDMElement	$Project[i].URL/URI
whole	ActualProject	ActualProject	$Project[i].whole

151. ProjectActivity

MOAF: NA
DoDAF: An activity carried out during a project.

Base Classifier

- Activity

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
activityPerformableUnderCondition	Environment	Activity	$ProjectActivity[i].activityPerformableUnderCondition
actualPropertySet	ActualPropertySet	UPDMElement	$ProjectActivity[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ProjectActivity[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ProjectActivity[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ProjectActivity[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ProjectActivity[i].startBoundaryType
URL/URI	String	UPDMElement	$ProjectActivity[i].URL/URI

152. ProjectMilestone

UPDM: An element representing a collection of themes (e.g. DLOD or DOTMLPF) which is connected to a Project as part of a Project's definition. This is used as a template for ActualProjectMilestones.
MODAF: An event in a Project by which progress is measured.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ProjectMilestone[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ProjectMilestone[i].conformsTo

Copyright © 1998-2011 No Magic, Inc

endBoundaryType	ISO8601DateTime	UPDMElement	$ProjectMilestone[i].endBoundaryType
ProjectMilestone.ownedAttributes		ProjectMilestone	$ProjectMilestone[i].ProjectMilestone.ownedAttributes
ProjectMilestone.ownedThemes		ProjectMilestone	$ProjectMilestone[i].ProjectMilestone.ownedThemes
propertySet	PropertySet	UPDMElement	$ProjectMilestone[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ProjectMilestone[i].startBoundaryType
URL/URI	String	UPDMElement	$ProjectMilestone[i].URL/URI

153. ProjectMilestoneRole

UPDM: An instance of a ProjectMilestoneRole in the context of an ActualProject.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ProjectMilestoneRole[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ProjectMilestoneRole[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ProjectMilestoneRole[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ProjectMilestoneRole[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ProjectMilestoneRole[i].startBoundaryType
URL/URI	String	UPDMElement	$ProjectMilestoneRole[i].URL/URI

154. ProjectOwnership

MODAF:A type of OrganisationProjectRelationship where the organisation is the party responsible for the project.

Base Classifier

- OrganizationalProjectRelationship

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ProjectOwnership[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ProjectOwnership[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ProjectOwnership[i].endBoundaryType
OrganizationalProjectRelationship.client		OrganizationalProjectRelationship	$ProjectOwnership[i].OrganizationalProjectRelationship.client
OrganizationalProjectRelationship.supplier		OrganizationalProjectRelationship	$ProjectOwnership[i].OrganizationalProjectRelationship.supplier
propertySet	PropertySet	UPDMElement	$ProjectOwnership[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ProjectOwnership[i].startBoundaryType

Copyright © 1998-2011 No Magic, Inc

URL/URI	String	UPDMElement	`$ProjectOwnership[i].URL/URI`

155. ProjectSequence

MODAF: Asserts that one ActualProject (MODAF::Project) follows from another - i.e. the target ActualProject cannot start until the source ActualProject has ended.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ProjectSequence[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ProjectSequence[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ProjectSequence[i].endBoundaryType`
ProjectSequence.client		ProjectSequence	`$ProjectSequence[i].ProjectSequence.client`
ProjectSequence.supplier		ProjectSequence	`$ProjectSequence[i].ProjectSequence.supplier`
propertySet	PropertySet	UPDMElement	`$ProjectSequence[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ProjectSequence[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ProjectSequence[i].URL/URI`

156. ProjectStatus

MODAF: A ProjectStatus (MODAF::StatusAtMilestone) is a relationship between a Status and a milestone that asserts the status (i.e. level of progress) of a ProjectTheme for the project at the time of the ActualProjectMilestone (MODAF::Milestone).
DoDAF: NA

Base Classifier

- ActualProperty

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ProjectStatus[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ProjectStatus[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ProjectStatus[i].endBoundaryType`
endDate	ISO8601DateTime	ActualProperty	`$ProjectStatus[i].endDate`
intention	ActualPropertySetKind	ActualProperty	`$ProjectStatus[i].intention`
ProjectStatus.definingFeature		ProjectStatus	`$ProjectStatus[i].ProjectStatus.definingFeature`
propertySet	PropertySet	UPDMElement	`$ProjectStatus[i].propertySet`

Copyright © 1998-2011 No Magic, Inc

PropertyValue.definingFeature		ActualProperty	$ProjectStatus[i].PropertyValue.definingFeature
startBoundaryType	ISO8601DateTime	UPDMElement	$ProjectStatus[i].startBoundaryType
startDate	ISO8601DateTime	ActualProperty	$ProjectStatus[i].startDate
URL/URI	String	UPDMElement	$ProjectStatus[i].URL/URI

157. ProjectTheme

MODAF:An aspect by which the progress of various Projects may be measured. In UK MOD, this could be one of the defence lines of development (DLOD), or DOTMLPF in the US.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ProjectTheme[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ProjectTheme[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ProjectTheme[i].endBoundaryType
ProjecTheme.type		ProjectTheme	$ProjectTheme[i].ProjecTheme.type
propertySet	PropertySet	UPDMElement	$ProjectTheme[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ProjectTheme[i].startBoundaryType
URL/URI	String	UPDMElement	$ProjectTheme[i].URL/URI

158. ProjectType

MODAF: A Project (MODAF::ProjectType) is used to define a category of project: For example, "Programme", “Acquisition Project” or “Training Programme".
DoDAF: NA (only Individual Project in DoDAF).

Base Classifier

- Desirer
- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ProjectType[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ProjectType[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ProjectType[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ProjectType[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ProjectType[i].startBoundaryType

Copyright © 1998-2011 No Magic, Inc

URL/URI	String	UPDMElement	`$ProjectType[i].URL/URI`

159. Property

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Property[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Property[i].conformsTo`
defaultValue	String	Property	`$Property[i].defaultValue`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Property[i].endBoundaryType`
maxValue	String	Property	`$Property[i].maxValue`
minValue	String	Property	`$Property[i].minValue`
propertySet	PropertySet	UPDMElement	`$Property[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Property[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Property[i].URL/URI`

160. PropertySet

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$PropertySet[i].actualPropertySet`
appliesTo	UPDMElement	PropertySet	`$PropertySet[i].appliesTo`
conformsTo	Standard	UPDMElement	`$PropertySet[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$PropertySet[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$PropertySet[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$PropertySet[i].startBoundaryType`
URL/URI	String	UPDMElement	`$PropertySet[i].URL/URI`

161. Protocol

MODAF: A Standard for communication. Protocols may be composite (i.e. a stack).
DoDAF: NA, See TechnicalStandard.

Copyright © 1998-2011 No Magic, Inc

Base Classifier

- Standard

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Protocol[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Protocol[i].conformsTo`
currentStatus	String	Standard	`$Protocol[i].currentStatus`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Protocol[i].endBoundaryType`
InformationTechnologyStandardCategory	String	Standard	`$Protocol[i].InformationTechnologyStandardCategory`
mandatedDate	ISO8601DateTime	Standard	`$Protocol[i].mandatedDate`
propertySet	PropertySet	UPDMElement	`$Protocol[i].propertySet`
ratifiedBy	ActualOrganization	Standard	`$Protocol[i].ratifiedBy`
retiredDate	ISO8601DateTime	Standard	`$Protocol[i].retiredDate`
shortName	String	Standard	`$Protocol[i].shortName`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Protocol[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Protocol[i].URL/URI`
version	String	Standard	`$Protocol[i].version`

162. ProtocolImplementation

UPDM: Abstract element: A connector that implements a specific Protocol.
MODAF: An element that can implement a Protocol.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ProtocolImplementation[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ProtocolImplementation[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ProtocolImplementation[i].endBoundaryType`
implements	Protocol	ProtocolImplementation	`$ProtocolImplementation[i].implements`
propertySet	PropertySet	UPDMElement	`$ProtocolImplementation[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ProtocolImplementation[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ProtocolImplementation[i].URL/URI`

163. ProtocolLayer

MODAF: Asserts that a Protocol (upperLayer) uses another Protocol (lowerLayer)

Copyright © 1998-2011 No Magic, Inc

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ProtocolLayer[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ProtocolLayer[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ProtocolLayer[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ProtocolLayer[i].propertySet`
ProtocolLayer.class		ProtocolLayer	`$ProtocolLayer[i].ProtocolLayer.class`
ProtocolLayer.type		ProtocolLayer	`$ProtocolLayer[i].ProtocolLayer.type`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ProtocolLayer[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ProtocolLayer[i].URL/URI`

164. ProvidesCompetence

UPDM: Asserts that a Resource type provides a competence.
MODAF: Asserts that a Role requires a Competence (MODAF::CompetenceForRole).
DoDAF: An overlap between a Personnel Type and the Skills it entails (DoDAF:: skillPartOfPersonType)

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ProvidesCompetence[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ProvidesCompetence[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ProvidesCompetence[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ProvidesCompetence[i].propertySet`
ProvidesCompetence.client		ProvidesCompetence	`$ProvidesCompetence[i].ProvidesCompetence.client`
ProvidesCompetence.supplier		ProvidesCompetence	`$ProvidesCompetence[i].ProvidesCompetence.supplier`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ProvidesCompetence[i].startBoundaryType`
universalPropertySet	ActualPropertySet	ProvidesCompetence	`$ProvidesCompetence[i].universalPropertySet`
URL/URI	String	UPDMElement	`$ProvidesCompetence[i].URL/URI`

165. Request

UPDM:From SOAML A Request represents a feature of a Participant that is the consumption of a service by one participant provided by others using well-defined terms, conditions and interfaces. A

Copyright © 1998-2011 No Magic, Inc

Request designates ports that define the connection point through which a Participant meets its needs through the consumption of services provided by others.
MODAF:Simil to requires, Asserts that a Resource requires a Service to be provided in order to function correctly.
DoDAF: Similar to ServicePort, A part of a Performer that specifics a distinct interaction point through which the Performer interacts with other Performers. This isolates dependencies between performers to particular interaction points rather than to the performer as a whole.

Base Classifier

- RequestPoint
- ServicePort

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Request[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Request[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Request[i].endBoundaryType`
isConjugated	Boolean	RequestPoint	`$Request[i].isConjugated`
propertySet	PropertySet	UPDMElement	`$Request[i].propertySet`
providedByResource	ServiceLevelValueSet	ServicePort	`$Request[i].providedByResource`
ServicePort.actualPropertySets		ServicePort	`$Request[i].ServicePort.actualPropertySets`
ServicePort.type		ServicePort	`$Request[i].ServicePort.type`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Request[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Request[i].URL/URI`

166. RequiresCompetence

MODAF:: Asserts that an Role requires a Competence (MODAF::CompetenceForRole).
DoDAF: An overlap between a Personnel Type and the Skills it entails (DoDAF:: SkillPartOfPersonType).

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$RequiresCompetence[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$RequiresCompetence[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$RequiresCompetence[i].endBoundaryType`
measurementSet	ActualPropertySet	RequiresCompetence	`$RequiresCompetence[i].measurementSet`
propertySet	PropertySet	UPDMElement	`$RequiresCompetence[i].propertySet`
RequiresCompetence.client		RequiresCompetence	`$RequiresCompetence[i].RequiresCompetence.client`
RequiresCompetence.supplier		RequiresCompetence	`$RequiresCompetence[i].RequiresCompetence.su`

Copyright © 1998-2011 No Magic, Inc

			pplier
startBoundaryType	ISO8601DateTime	UPDMElement	$RequiresCompetence[i].startBoundaryType
URL/URI	String	UPDMElement	$RequiresCompetence[i].URL/URI

167. Resource

UPDM: Abstract element placeholder to indicate that resources can be exchanged in Operational and Systems views.
MODAF: NA.
DoDAF: Data, Information, Performers, Materiel, or Personnel Types that are produced or consumed.

Base Classifier

- LocationHolder
- PropertySet
- SubjectOfResourceConstraint

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$Resource[i].actualPropertySet
appliesTo	UPDMElement	PropertySet	$Resource[i].appliesTo
conformsTo	Standard	UPDMElement	$Resource[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Resource[i].endBoundaryType
physicalLocation	ActualLocation	LocationHolder	$Resource[i].physicalLocation
propertySet	PropertySet	UPDMElement	$Resource[i].propertySet
requiredEnvironment	Environment	LocationHolder	$Resource[i].requiredEnvironment
startBoundaryType	ISO8601DateTime	UPDMElement	$Resource[i].startBoundaryType
URL/URI	String	UPDMElement	$Resource[i].URL/URI

168. ResourceArtifact

UPDM: A combination of physical element, energy, and data that are combined used to accomplish a task or function.
MODAF: A type of man-made object. Examples are "car", "radio", "fuel", etc. (MODAF:: Artefact).

Base Classifier

- PhysicalResource

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	$ResourceArtifact[i].actsUpon
actualPropertySet	ActualPropertySet	UPDMElement	$ResourceArtifact[i].actualPropertySet
affectedFunctions	Function	ResourceInteractionItem	$ResourceArtifact[i].affectedFunctions
appliesTo	UPDMElement	PropertySet	$ResourceArtifact[i].appliesTo
conformsTo	Standard	UPDMElement	$ResourceArtifact[i].conformsTo

Copyright © 1998-2011 No Magic, Inc

endBoundaryType	ISO8601DateTime	UPDMElement	$ResourceArtifact[i].endBoundaryType
milestone	ActualProjectMilestone	SystemResource	$ResourceArtifact[i].milestone
physicalLocation	ActualLocation	LocationHolder	$ResourceArtifact[i].physicalLocation
propertySet	PropertySet	UPDMElement	$ResourceArtifact[i].propertySet
requiredEnvironment	Environment	LocationHolder	$ResourceArtifact[i].requiredEnvironment
Resource.ownedOperation		SystemResource	$ResourceArtifact[i].Resource.ownedOperation
Resource.ownedPort		SystemResource	$ResourceArtifact[i].Resource.ownedPort
Resource.performs		SystemResource	$ResourceArtifact[i].Resource.performs
startBoundaryType	ISO8601DateTime	UPDMElement	$ResourceArtifact[i].startBoundaryType
URL/URI	String	UPDMElement	$ResourceArtifact[i].URL/URI

169. ResourceConnector

UPDM: A physical connection between two resources that implements protocols through which the source resource can transmit items to the destination resource.
MODAF: Asserts that a connection exists between two ports belonging to parts in a system composite structure model (MODAF::SystemPortConnector).
DoDAF: NA

Base Classifier

- ProtocolImplementation

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ResourceConnector[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ResourceConnector[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ResourceConnector[i].endBoundaryType
implements	Protocol	ProtocolImplementation	$ResourceConnector[i].implements
propertySet	PropertySet	UPDMElement	$ResourceConnector[i].propertySet
realizedExchange	ResourceInteraction	ResourceConnector	$ResourceConnector[i].realizedExchange
realizedInterface	ResourceInterface	ResourceConnector	$ResourceConnector[i].realizedInterface
ResourceConnector.end		ResourceConnector	$ResourceConnector[i].ResourceConnector.end
startBoundaryType	ISO8601DateTime	UPDMElement	$ResourceConnector[i].startBoundaryType
URL/URI	String	UPDMElement	$ResourceConnector[i].URL/URI

170. ResourceConstraint

MODAF: A rule governing the structural or functional aspects of an implementation - this may also include constraints on OrganisationalResources that are part of an implementation.
DoDAF: The range of permissible states for an object (DoDAF::Constraint).

Base Classifier

Copyright © 1998-2011 No Magic, Inc

- Rule

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ResourceConstraint[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ResourceConstraint[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ResourceConstraint[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ResourceConstraint[i].propertySet`
ResourceConstraint.constrainedElement		ResourceConstraint	`$ResourceConstraint[i].ResourceConstraint.constrainedElement`
ruleKind	RuleKind	Rule	`$ResourceConstraint[i].ruleKind`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ResourceConstraint[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ResourceConstraint[i].URL/URI`

171. ResourceEventTrace

UPDM: A UPDM artifact that extends a UML Interaction.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ResourceEventTrace[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ResourceEventTrace[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ResourceEventTrace[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ResourceEventTrace[i].propertySet`
ResourceEventTrace.message		ResourceEventTrace	`$ResourceEventTrace[i].ResourceEventTrace.message`
ResourceEventTrace.owner		ResourceEventTrace	`$ResourceEventTrace[i].ResourceEventTrace.owner`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ResourceEventTrace[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ResourceEventTrace[i].URL/URI`

172. ResourceInteraction

UPDM: ResourceInteraction represents data that is exchanged between the resources
MODAF: An assertion that two FunctionalResources interact. Examples : data exchange between systems, conversations between people, people using systems.
DoDAF: NA

Base Classifier

Copyright © 1998-2011 No Magic, Inc

- Exchange
- SubjectOfResourceConstraint

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ResourceInteraction[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ResourceInteraction[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ResourceInteraction[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ResourceInteraction[i].propertySet`
ResourceInteraction.conveyedElement		ResourceInteraction	`$ResourceInteraction[i].ResourceInteraction.conveyedElement`
ResourceInteraction.informationSource		ResourceInteraction	`$ResourceInteraction[i].ResourceInteraction.informationSource`
ResourceInteraction.informationTarget		ResourceInteraction	`$ResourceInteraction[i].ResourceInteraction.informationTarget`
ResourceInteraction.realization		ResourceInteraction	`$ResourceInteraction[i].ResourceInteraction.realization`
ResourceInteraction.realizingActivityEdge		ResourceInteraction	`$ResourceInteraction[i].ResourceInteraction.realizingActivityEdge`
ResourceInteraction.realizingConnector		ResourceInteraction	`$ResourceInteraction[i].ResourceInteraction.realizingConnector`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ResourceInteraction[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ResourceInteraction[i].URL/URI`

173. ResourceInteractionItem

UPDM Abstract: Represents the item(s) exchanged between the resources through a ResourceInteraction.
MODAF: Formalised representation of data which is managed by or exchanged between systems (MODAF::DataElement).
DoDAF: Representation of information in a formalized manner suitable for communication, interpretation, or processing by humans or by automatic means (DoDAF::Data).

Base Classifier

- Resource

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ResourceInteractionItem[i].actualPropertySet`
affectedFunctions	Function	ResourceInteractionItem	`$ResourceInteractionItem[i].affectedFunctions`
appliesTo	UPDMElement	PropertySet	`$ResourceInteractionItem[i].appliesTo`

Copyright © 1998-2011 No Magic, Inc

conformsTo	Standard	UPDMElement	$ResourceInteractionItem[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ResourceInteractionItem[i].endBoundaryType
physicalLocation	ActualLocation	LocationHolder	$ResourceInteractionItem[i].physicalLocation
propertySet	PropertySet	UPDMElement	$ResourceInteractionItem[i].propertySet
requiredEnvironment	Environment	LocationHolder	$ResourceInteractionItem[i].requiredEnvironment
startBoundaryType	ISO8601DateTime	UPDMElement	$ResourceInteractionItem[i].startBoundaryType
URL/URI	String	UPDMElement	$ResourceInteractionItem[i].URL/URI

174. ResourceInterface

UPDM: ResourceInterface is a contractual agreement between two resources that implement protocols through which the source resource to the destination resource.
MODAF: NA
DoDAF: An overlap between Performers for the purpose of producing a Resource that is consumed by the other (DoDAF:: Interface).

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ResourceInterface[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ResourceInterface[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ResourceInterface[i].endBoundaryType
identifier	String	ResourceInterface	$ResourceInterface[i].identifier
propertySet	PropertySet	UPDMElement	$ResourceInterface[i].propertySet
realizedExchange	ResourceInteraction	ResourceInterface	$ResourceInterface[i].realizedExchange
realizingConnector	ResourceConnector	ResourceInterface	$ResourceInterface[i].realizingConnector
ResourceInterface.end		ResourceInterface	$ResourceInterface[i].ResourceInterface.end
startBoundaryType	ISO8601DateTime	UPDMElement	$ResourceInterface[i].startBoundaryType
URL/URI	String	UPDMElement	$ResourceInterface[i].URL/URI

175. ResourceMessage

UPDM: Message for use in a Resource Event-Trace, implements a ResourceInteraction.
MODAF: A specification of the interactions between aspects of a Resources architecture (MODAF::ResourceInteractionSpecification).
DoDAF: An overlap of an Activity with a Resource, in particular a consuming or producing Activity that expresses an input, output, consumption, or production Activity of the Resource (DoDAF:: activityResourceOverlap).

Copyright © 1998-2011 No Magic, Inc

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ResourceMessage[i].actualPropertySet`
carries	ResourceInteraction	ResourceMessage	`$ResourceMessage[i].carries`
conformsTo	Standard	UPDMElement	`$ResourceMessage[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ResourceMessage[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ResourceMessage[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ResourceMessage[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ResourceMessage[i].URL/URI`

176. ResourceOperation

UPDM:A partial or full realization of Function.
MODAF:NA
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ResourceOperation[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ResourceOperation[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ResourceOperation[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ResourceOperation[i].propertySet`
realizes	Function	ResourceOperation	`$ResourceOperation[i].realizes`
ResourceOperation.ownedParameter		ResourceOperation	`$ResourceOperation[i].ResourceOperation.ownedParameter`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ResourceOperation[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ResourceOperation[i].URL/URI`

177. ResourceParameter

UPDM: Represents inputs and outputs of Function. It is typed by ResourceInteractionItem.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ResourceParameter[i].actualPropertySet`

Copyright © 1998-2011 No Magic, Inc

conformsTo	Standard	UPDMElement	$ResourceParameter[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ResourceParameter[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ResourceParameter[i].propertySet
ResourceParameter.type		ResourceParameter	$ResourceParameter[i].ResourceParameter.type
startBoundaryType	ISO8601DateTime	UPDMElement	$ResourceParameter[i].startBoundaryType
URL/URI	String	UPDMElement	$ResourceParameter[i].URL/URI

178. ResourcePort

UPDM: Port is an interaction point for a resource through which it can interact with the outside environment.
MODAF: An interface (logical or physical) provided by a System. A SystemPort may implement a PortType though there is no requirement for SystemPorts to be typed (MODAF:: SystemPort).
DoDAF: An interface (logical or physical) provided by a System (DoDAF::Port).

Base Classifier

- ProtocolImplementation

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ResourcePort[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ResourcePort[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ResourcePort[i].endBoundaryType
implements	Protocol	ProtocolImplementation	$ResourcePort[i].implements
propertySet	PropertySet	UPDMElement	$ResourcePort[i].propertySet
ResourcePort.type		ResourcePort	$ResourcePort[i].ResourcePort.type
startBoundaryType	ISO8601DateTime	UPDMElement	$ResourcePort[i].startBoundaryType
URL/URI	String	UPDMElement	$ResourcePort[i].URL/URI

179. ResourceRole

UPDM: abstract element.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ResourceRole[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ResourceRole[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ResourceRole[i].endBoundaryType
MODAFRoleKind	MODAFRoleKind	ResourceRole	$ResourceRole[i].MODAFRoleKind
performsInContext	Function	ResourceRole	$ResourceRole[i].performsInContext
propertySet	PropertySet	UPDMElement	$ResourceRole[i].propertySet

Copyright © 1998-2011 No Magic, Inc

ResouceRole.type		ResourceRole	$ResourceRole[i].ResouceRole.type
ResourceRole.class		ResourceRole	$ResourceRole[i].ResourceRole.class
startBoundaryType	ISO8601DateTime	UPDMElement	$ResourceRole[i].startBoundaryType
URL/URI	String	UPDMElement	$ResourceRole[i].URL/URI

180. ResourceState

UPDM: State identified in the context of an ResourceStateDescription.
MODAF:N/A
DoDAF:N/A

Base Classifier

- DesiredState

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ResourceState[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ResourceState[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ResourceState[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ResourceState[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$ResourceState[i].startBoundaryType
URL/URI	String	UPDMElement	$ResourceState[i].URL/URI

181. ResourceStateMachine

UPDM Artifact that extends a UML StateMachine allied to Resources.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ResourceStateMachine[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ResourceStateMachine[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ResourceStateMachine[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ResourceStateMachine[i].propertySet
ResourceStateMachine.owner		ResourceStateMachine	$ResourceStateMachine[i].ResourceStateMachine.owner
startBoundaryType	ISO8601DateTime	UPDMElement	$ResourceStateMachine[i].startBoundaryType
URL/URI	String	UPDMElement	$ResourceStateMachine[i].URL/URI

Copyright © 1998-2011 No Magic, Inc

182. Responsibility

UPDM:Asserts that a Post or Organization has specific responsibilities.
MODAF:NA
DoDAF:NA

Base Classifier

- CompetenceRequirer
- OrganizationalResource

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$Responsibility[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$Responsibility[i].actualPropertySet`
affectedFunctions	Function	ResourceInteractionItem	`$Responsibility[i].affectedFunctions`
appliesTo	UPDMElement	PropertySet	`$Responsibility[i].appliesTo`
conformsTo	Standard	UPDMElement	`$Responsibility[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Responsibility[i].endBoundaryType`
milestone	ActualProjectMilestone	SystemResource	`$Responsibility[i].milestone`
physicalLocation	ActualLocation	LocationHolder	`$Responsibility[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$Responsibility[i].propertySet`
requiredEnvironment	Environment	LocationHolder	`$Responsibility[i].requiredEnvironment`
Resource.ownedOperation		SystemResource	`$Responsibility[i].Resource.ownedOperation`
Resource.ownedPort		SystemResource	`$Responsibility[i].Resource.ownedPort`
Resource.performs		SystemResource	`$Responsibility[i].Resource.performs`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Responsibility[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Responsibility[i].URL/URI`

183. RoleType

MODAF: An aspect of a person or organization that enables them to fulfill a particular function.

Base Classifier

- Responsibility

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$RoleType[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$RoleType[i].actualPropertySet`
affectedFunctions	Function	ResourceInteractionItem	`$RoleType[i].affectedFunctions`
appliesTo	UPDMElement	PropertySet	`$RoleType[i].appliesTo`
conformsTo	Standard	UPDMElement	`$RoleType[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$RoleType[i].endBoundaryType`

Copyright © 1998-2011 No Magic, Inc

milestone	ActualProjectMilestone	SystemResource	$RoleType[i].milestone
physicalLocation	ActualLocation	LocationHolder	$RoleType[i].physicalLocation
propertySet	PropertySet	UPDMElement	$RoleType[i].propertySet
requiredEnvironment	Environment	LocationHolder	$RoleType[i].requiredEnvironment
Resource.ownedOperation		SystemResource	$RoleType[i].Resource.ownedOperation
Resource.ownedPort		SystemResource	$RoleType[i].Resource.ownedPort
Resource.performs		SystemResource	$RoleType[i].Resource.performs
startBoundaryType	ISO8601DateTime	UPDMElement	$RoleType[i].startBoundaryType
URL/URI	String	UPDMElement	$RoleType[i].URL/URI

184. Rule

MODAF: An abstract Class that is extended by OperationalConstraint (A rule governing an operational behaviour or property.) and ResourceConstraint (A rule governing the structural or functional aspects of an implementation - this may also include constraints on OrganisationalResources that are part of an implementation).
DoDAF: Rule: A principle or condition that governs behavior; a prescribed guide for conduct or action. Subtype: Constraint: The range of permissible states for an object.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$Rule[i].actualPropertySet
conformsTo	Standard	UPDMElement	$Rule[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$Rule[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$Rule[i].propertySet
ruleKind	RuleKind	Rule	$Rule[i].ruleKind
startBoundaryType	ISO8601DateTime	UPDMElement	$Rule[i].startBoundaryType
URL/URI	String	UPDMElement	$Rule[i].URL/URI

185. RuleKind

Enumeration of possible kinds for constraints.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
ActionAssertion	Enumeration Literal	RuleKind	$RuleKind[i].ActionAssertion
Agreement	Enumeration Literal	RuleKind	$RuleKind[i].Agreement
Constraint	Enumeration Literal	RuleKind	$RuleKind[i].Constraint
Derivation	Enumeration Literal	RuleKind	$RuleKind[i].Derivation

Copyright © 1998-2011 No Magic, Inc

Guidance	Enumeration Literal	RuleKind	`$RuleKind[i].Guidance`
SecurityPolicy	Enumeration Literal	RuleKind	`$RuleKind[i].SecurityPolicy`
StructuralAssertion	Enumeration Literal	RuleKind	`$RuleKind[i].StructuralAssertion`

186. SameAs

MODAF: Asserts that two elements refer to the same real-world thing.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$SameAs[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$SameAs[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$SameAs[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$SameAs[i].propertySet`
SameAs.client		SameAs	`$SameAs[i].SameAs.client`
SameAs.supplier		SameAs	`$SameAs[i].SameAs.supplier`
startBoundaryType	ISO8601DateTime	UPDMElement	`$SameAs[i].startBoundaryType`
URL/URI	String	UPDMElement	`$SameAs[i].URL/URI`

187. SecurityAttributesGroup

MODAF:NA
DoDAF:The group of Information Security Marking attributes in which the use of attributes 'classification' and 'ownerProducer' is required. This group is to be contrasted with group 'SecurityAttributesOptionGroup' in which use of those attributes is optional.

Base Classifier

- PropertySet

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$SecurityAttributesGroup[i].actualPropertySet`
appliesTo	UPDMElement	PropertySet	`$SecurityAttributesGroup[i].appliesTo`
conformsTo	Standard	UPDMElement	`$SecurityAttributesGroup[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$SecurityAttributesGroup[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$SecurityAttributesGroup[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$SecurityAttributesGroup[i].startBoundaryType`
URL/URI	String	UPDMElement	`$SecurityAttributesGroup[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

188. SecurityDomain

MODAF:NA
DoDAF: A NodeType whose members (other Nodes, KnownResources) all share a common security policy.

Base Classifier

- Node

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$SecurityDomain[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$SecurityDomain[i].actualPropertySet`
appliesTo	UPDMElement	PropertySet	`$SecurityDomain[i].appliesTo`
conformsTo	Standard	UPDMElement	`$SecurityDomain[i].conformsTo`
connectedNodes	Node	Node	`$SecurityDomain[i].connectedNodes`
endBoundaryType	ISO8601DateTime	UPDMElement	`$SecurityDomain[i].endBoundaryType`
Node.ownedPort		Node	`$SecurityDomain[i].Node.ownedPort`
Node.performs		Node	`$SecurityDomain[i].Node.performs`
physicalLocation	ActualLocation	LocationHolder	`$SecurityDomain[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$SecurityDomain[i].propertySet`
requiredEnvironment	Environment	LocationHolder	`$SecurityDomain[i].requiredEnvironment`
startBoundaryType	ISO8601DateTime	UPDMElement	`$SecurityDomain[i].startBoundaryType`
SubjectOfOperationalStateMachine.ownedBehavior		SubjectOfOperationalStateMachine	`$SecurityDomain[i].SubjectOfOperationalStateMachine.ownedBehavior`
URL/URI	String	UPDMElement	`$SecurityDomain[i].URL/URI`

189. Semantic

A specialization of "InformationElement" the enables the specification of a complete dataset, which is considered meaningful to a community, organization, system or application; meeting one or more of the information flow requirements specification for a needline. The semantic is defined by the community, needline or application interface.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
containedTransactionals	Transactional	Semantic	`$Semantic[i].containedTransactionals`
identifier	Transactional	Semantic	`$Semantic[i].identifier`
Semantic.ownedAttribute		Semantic	`$Semantic[i].Semantic.ownedAttribute`

190. SemanticAttribute

Specialization of Entity Attribute that enables the relationship between logical/Interim-Processing and Operational/Business naming conventions.

Copyright © 1998-2011 No Magic, Inc

191. Service

MODAF:A type of delivered functionality, specified independently of the resources that provide it.
DoDAF: mechanism to enable access to a set of one or more capabilities , where the access is provided using a prescribed interface and is exercised consistent with constraints and policies as specified by the service description. The mechanism is a Performer. The "capabilities" accessed are Resources -- Information, Data, Materiel, Performers, and Geo-political Extents.

Base Classifier

- ServicePoint
- ServicePort

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Service[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Service[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Service[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$Service[i].propertySet`
providedByResource	ServiceLevelValueSet	ServicePort	`$Service[i].providedByResource`
ServicePort.actualPropertySets		ServicePort	`$Service[i].ServicePort.actualPropertySets`
ServicePort.type		ServicePort	`$Service[i].ServicePort.type`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Service[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Service[i].URL/URI`

192. ServiceAccess

Base Classifier

- SystemResource

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$ServiceAccess[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$ServiceAccess[i].actualPropertySet`
affectedFunctions	Function	ResourceInteractionItem	`$ServiceAccess[i].affectedFunctions`
appliesTo	UPDMElement	PropertySet	`$ServiceAccess[i].appliesTo`
conformsTo	Standard	UPDMElement	`$ServiceAccess[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceAccess[i].endBoundaryType`
milestone	ActualProjectMilestone	SystemResource	`$ServiceAccess[i].milestone`
physicalLocation	ActualLocation	LocationHolder	`$ServiceAccess[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$ServiceAccess[i].propertySet`
requiredEnvironment	Environment	LocationHolder	`$ServiceAccess[i].requiredEnvironment`
Resource.ownedOperation		SystemResource	`$ServiceAccess[i].Resource.ownedOperation`

Copyright © 1998-2011 No Magic, Inc

Resource.ownedPort		SystemResource	`$ServiceAccess[i].Resource.ownedPort`
Resource.performs		SystemResource	`$ServiceAccess[i].Resource.performs`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceAccess[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ServiceAccess[i].URL/URI`

193. ServiceAttribute

MODAF: A property of Service.
DoDAF: NA

Base Classifier

- Property

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ServiceAttribute[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ServiceAttribute[i].conformsTo`
defaultValue	String	Property	`$ServiceAttribute[i].defaultValue`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceAttribute[i].endBoundaryType`
maxValue	String	Property	`$ServiceAttribute[i].maxValue`
minValue	String	Property	`$ServiceAttribute[i].minValue`
propertySet	PropertySet	UPDMElement	`$ServiceAttribute[i].propertySet`
ServiceAttribute.type		ServiceAttribute	`$ServiceAttribute[i].ServiceAttribute.type`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceAttribute[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ServiceAttribute[i].URL/URI`

194. ServiceDescription

Base Classifier

- ArchitecturalDescription

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ServiceDescription[i].actualPropertySet`
approvalAuthority	String	ArchitecturalDescription	`$ServiceDescription[i].approvalAuthority`
architect	String	ArchitecturalDescription	`$ServiceDescription[i].architect`
ArchitecturalDescription.architectureFramework		ArchitecturalDescription	`$ServiceDescription[i].ArchitecturalDescription.architectureFramework`
architectureFramework	ArchitectureFrameworkKind	ArchitecturalDescription	`$ServiceDescription[i].architectureFramework`
assumptionAndConstraint	String	ArchitecturalDescription	`$ServiceDescription[i].assumptionAndConstraint`

Copyright © 1998-2011 No Magic, Inc

conformsTo	Standard	UPDMElement	$ServiceDescription[i].conformsTo
creatingOrganization	String	ArchitecturalDescription	$ServiceDescription[i].creatingOrganization
dateCompleted	String	ArchitecturalDescription	$ServiceDescription[i].dateCompleted
endBoundaryType	ISO8601DateTime	UPDMElement	$ServiceDescription[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ServiceDescription[i].propertySet
purpose	String	ArchitecturalDescription	$ServiceDescription[i].purpose
recommendations	String	ArchitecturalDescription	$ServiceDescription[i].recommendations
startBoundaryType	ISO8601DateTime	UPDMElement	$ServiceDescription[i].startBoundaryType
summaryOfFindings	String	ArchitecturalDescription	$ServiceDescription[i].summaryOfFindings
toBe	Boolean	ArchitecturalDescription	$ServiceDescription[i].toBe
toolsUsed	String	ArchitecturalDescription	$ServiceDescription[i].toolsUsed
URL/URI	String	UPDMElement	$ServiceDescription[i].URL/URI
viewpoint	String	ArchitecturalDescription	$ServiceDescription[i].viewpoint
views	View	ArchitecturalDescription	$ServiceDescription[i].views

195. ServiceFeature

UPDM:Abstract grouping used to ServiceFunctions to Serviceoperations and ServiceMessageHandlers.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ServiceFeature[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ServiceFeature[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ServiceFeature[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ServiceFeature[i].propertySet
ServiceFeature.ownedParameter		ServiceFeature	$ServiceFeature[i].ServiceFeature.ownedParameter
ServiceFeature.owner		ServiceFeature	$ServiceFeature[i].ServiceFeature.owner
startBoundaryType	ISO8601DateTime	UPDMElement	$ServiceFeature[i].startBoundaryType
URL/URI	String	UPDMElement	$ServiceFeature[i].URL/URI

196. ServiceFunction

UPDM: A ServiceFunction describes the abstract behavior of ServiceOperations, regardless of the actual implementation.
MODAF: A type of activity describing the functionality of a service.
DoDAF: Information necessary to interact with the service in such terms as the service inputs, outputs, and associated semantics. The service description also conveys what is accomplished when the service is invoked and the conditions for using the service.

Base Classifier

Copyright © 1998-2011 No Magic, Inc

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ServiceFunction[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ServiceFunction[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceFunction[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ServiceFunction[i].propertySet`
ServiceFunction.ownedParameter		ServiceFunction	`$ServiceFunction[i].ServiceFunction.ownedParameter`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceFunction[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ServiceFunction[i].URL/URI`

197. ServiceFunctionAction

UPDM: A call behavior action that invokes the ServiceFunction that needs to be preformed. --This concept is required for mapping the architecture with UML and does not have a DoDAF or MoDAF equivalent.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ServiceFunctionAction[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ServiceFunctionAction[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceFunctionAction[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ServiceFunctionAction[i].propertySet`
ServiceFunctionAction.activity		ServiceFunctionAction	`$ServiceFunctionAction[i].ServiceFunctionAction.activity`
ServiceFunctionAction.behavior		ServiceFunctionAction	`$ServiceFunctionAction[i].ServiceFunctionAction.behavior`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceFunctionAction[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ServiceFunctionAction[i].URL/URI`

198. ServiceFunctionEdge

UPDM: An extension of <<ActivityEdge>> that is used to model the flow of control/objects through a ServiceFunction.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ServiceFunctionEdge[i].actualPropertySet`

Copyright © 1998-2011 No Magic, Inc

conformsTo	Standard	UPDMElement	$ServiceFunctionEdge[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ServiceFunctionEdge[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ServiceFunctionEdge[i].propertySet
ServiceFunctionEdge.owner		ServiceFunctionEdge	$ServiceFunctionEdge[i].ServiceFunctionEdge.owner
startBoundaryType	ISO8601DateTime	UPDMElement	$ServiceFunctionEdge[i].startBoundaryType
URL/URI	String	UPDMElement	$ServiceFunctionEdge[i].URL/URI

199. ServiceInteraction

UPDM: Interaction for a service interface
MODAF: A model representing how a set of Service classes interacts with one another (MODAF::ServiceInteractionSpecification).

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ServiceInteraction[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ServiceInteraction[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ServiceInteraction[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ServiceInteraction[i].propertySet
ServiceInteraction.message		ServiceInteraction	$ServiceInteraction[i].ServiceInteraction.message
ServiceInteraction.owner		ServiceInteraction	$ServiceInteraction[i].ServiceInteraction.owner
startBoundaryType	ISO8601DateTime	UPDMElement	$ServiceInteraction[i].startBoundaryType
URL/URI	String	UPDMElement	$ServiceInteraction[i].URL/URI

200. ServiceInterface

UPDM: A contractual agreement between two resources that implement protocols through which the source service interacts to the destination resource.
A physical connection between two resources that implements protocols through which the source resource can transmit items to the destination resource.
MODAF: The mechanism by which a Service communicates.
DoDAF: An overlap between Performers for the purpose of producing a Resource that is
consumed by the other. (DoDAF::Interface).
SOAML: Defines the interface to a Service Point or Request Point and is the type of a role in a service contract.

Base Classifier

- PropertySet

Copyright © 1998-2011 No Magic, Inc

- ServiceInterface

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ServiceInterface[i].actualPropertySet`
appliesTo	UPDMElement	PropertySet	`$ServiceInterface[i].appliesTo`
conformsTo	Standard	UPDMElement	`$ServiceInterface[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceInterface[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ServiceInterface[i].propertySet`
serviceInteraction	ServiceInteraction	ServiceInterface	`$ServiceInterface[i].serviceInteraction`
ServiceInterface.feature		ServiceInterface	`$ServiceInterface[i].ServiceInterface.feature`
ServiceInterface.ownedAttribute		ServiceInterface	`$ServiceInterface[i].ServiceInterface.ownedAttribute`
ServiceInterface.ownedRule		ServiceInterface	`$ServiceInterface[i].ServiceInterface.ownedRule`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceInterface[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ServiceInterface[i].URL/URI`

201. ServiceLevelValue

MODAF:A ServiceAttributes indicating the level to which a Resource delivers a Service, in a particular environment.
DoDAF:NA

Base Classifier

- ActualProperty

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ServiceLevelValue[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ServiceLevelValue[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceLevelValue[i].endBoundaryType`
endDate	ISO8601DateTime	ActualProperty	`$ServiceLevelValue[i].endDate`
intention	ActualPropertySetKind	ActualProperty	`$ServiceLevelValue[i].intention`
propertySet	PropertySet	UPDMElement	`$ServiceLevelValue[i].propertySet`
PropertyValue.definingFeature		ActualProperty	`$ServiceLevelValue[i].PropertyValue.definingFeature`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceLevelValue[i].startBoundaryType`
startDate	ISO8601DateTime	ActualProperty	`$ServiceLevelValue[i].startDate`
URL/URI	String	UPDMElement	`$ServiceLevelValue[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

202. ServiceLevelValueSet

MODAF:A value specification for a set of ServiceAttributes indicating the level to which a Resource delivers a Service, in a particular environment.
DoDAF:NA

Base Classifier

- ActualPropertySet

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ServiceLevelValueSet[i].actualPropertySet`
ActualPropertySet.classifier		ActualPropertySet	`$ServiceLevelValueSet[i].ActualPropertySet.classifier`
ActualPropertySet.slot		ActualPropertySet	`$ServiceLevelValueSet[i].ActualPropertySet.slot`
appliesTo	UPDMElement	ActualPropertySet	`$ServiceLevelValueSet[i].appliesTo`
conformsTo	Standard	UPDMElement	`$ServiceLevelValueSet[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceLevelValueSet[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ServiceLevelValueSet[i].propertySet`
resourceBoundary	ServicePort	ServiceLevelValueSet	`$ServiceLevelValueSet[i].resourceBoundary`
ServiceLevelValueSet.slot		ServiceLevelValueSet	`$ServiceLevelValueSet[i].ServiceLevelValueSet.slot`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceLevelValueSet[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ServiceLevelValueSet[i].URL/URI`

203. ServiceMessage

UPDM: Message for use in a Service Interaction Specification, implements a resourceInteraction or any of the subtypes.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ServiceMessage[i].actualPropertySet`
carries	Exchange	ServiceMessage	`$ServiceMessage[i].carries`
conformsTo	Standard	UPDMElement	`$ServiceMessage[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceMessage[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ServiceMessage[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceMessage[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ServiceMessage[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

204. ServiceMessageHandler

UPDM:An instance of an AsynchronousMessage, applied in the service domain.

Base Classifier

- ServiceFeature

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ServiceMessageHandler[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ServiceMessageHandler[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceMessageHandler[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ServiceMessageHandler[i].propertySet`
ServiceFeature.ownedParameter		ServiceFeature	`$ServiceMessageHandler[i].ServiceFeature.ownedParameter`
ServiceFeature.owner		ServiceFeature	`$ServiceMessageHandler[i].ServiceFeature.owner`
ServiceMessageHandler.signal		ServiceMessageHandler	`$ServiceMessageHandler[i].ServiceMessageHandler.signal`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceMessageHandler[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ServiceMessageHandler[i].URL/URI`

205. ServiceOperation

UPDM: A ServiceOperation provides the access point for invoking the behavior of a provided service. The ServiceOperations are defined on ServiceInterfaces and mirrored on the providing Resource to handle calls forwarded on by the interface.
MODAF: a function or procedure which enables programmatic communication with a Service via a ServiceInterface (MODAF:: ServiceInterfaceOpration).

Base Classifier

- ServiceFeature

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
abstractBehavior	ServiceFunction	ServiceOperation	`$ServiceOperation[i].abstractBehavior`
actualPropertySet	ActualPropertySet	UPDMElement	`$ServiceOperation[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ServiceOperation[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceOperation[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ServiceOperation[i].propertySet`
ServiceFeature.ownedParameter		ServiceFeature	`$ServiceOperation[i].ServiceFeature.ownedParameter`
ServiceFeature.owner		ServiceFeature	`$ServiceOperation[i].ServiceFeature.owner`
ServiceOperation.ownedParamet		ServiceOperation	`$ServiceOperation[i].ServiceOperation.ownedP`

Copyright © 1998-2011 No Magic, Inc

er			arameter
startBoundaryType	ISO8601DateTime	UPDMElement	$ServiceOperation[i].startBoundaryType
URL/URI	String	UPDMElement	$ServiceOperation[i].URL/URI

206. ServiceParameter

UPDM: Represents inputs and outputs of Service. It is typed by ResourceInteractionItem.
MODAF: A constant or variable passed into or out of a ServiceInterface as part of the execution of a ServiceInterfaceOperation (MODAF:: ServiceInterfaceParameter).
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ServiceParameter[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ServiceParameter[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ServiceParameter[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ServiceParameter[i].propertySet
ServiceParameter.type		ServiceParameter	$ServiceParameter[i].ServiceParameter.type
startBoundaryType	ISO8601DateTime	UPDMElement	$ServiceParameter[i].startBoundaryType
URL/URI	String	UPDMElement	$ServiceParameter[i].URL/URI

207. ServicePolicy

UPDM: A constraint governing the consumers and providers of services
MODAF: A constraint governing one or more Services.
DoDAF: Agreement: A consent among parties regarding the terms and conditions of activities that said parties participate in.

Base Classifier

- Rule

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$ServicePolicy[i].actualPropertySet
conformsTo	Standard	UPDMElement	$ServicePolicy[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$ServicePolicy[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$ServicePolicy[i].propertySet
ruleKind	RuleKind	Rule	$ServicePolicy[i].ruleKind
startBoundaryType	ISO8601DateTime	UPDMElement	$ServicePolicy[i].startBoundaryType
URL/URI	String	UPDMElement	$ServicePolicy[i].URL/URI

Copyright © 1998-2011 No Magic, Inc

208. ServicePort

MODAF:ServiceInterface,The mechanism by which a Service communicates.
DoDAF:A part of a Performer that specifics a distinct interaction point through which the Performer interacts with other Performers. This isolates dependencies between performers to particular interaction points rather than to the performer as a whole.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ServicePort[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ServicePort[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ServicePort[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ServicePort[i].propertySet`
providedByResource	ServiceLevelValueSet	ServicePort	`$ServicePort[i].providedByResource`
ServicePort.actualPropertySets		ServicePort	`$ServicePort[i].ServicePort.actualPropertySets`
ServicePort.type		ServicePort	`$ServicePort[i].ServicePort.type`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ServicePort[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ServicePort[i].URL/URI`

209. ServiceStateMachine

UPDM Artifact that extends a UML StateMachine.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$ServiceStateMachine[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$ServiceStateMachine[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceStateMachine[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$ServiceStateMachine[i].propertySet`
ServiceStateMachine.owner		ServiceStateMachine	`$ServiceStateMachine[i].ServiceStateMachine.owner`
startBoundaryType	ISO8601DateTime	UPDMElement	`$ServiceStateMachine[i].startBoundaryType`
URL/URI	String	UPDMElement	`$ServiceStateMachine[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

210. Skill

MODAF:A specific set of abilities defined by knowledge, skills and attitude (Competence).
DoDAF:The ability, coming from one's knowledge, practice, aptitude, etc., to do something well.

Base Classifier

- Competence

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Skill[i].actualPropertySet`
appliesTo	UPDMElement	PropertySet	`$Skill[i].appliesTo`
conformsTo	Standard	UPDMElement	`$Skill[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Skill[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$Skill[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Skill[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Skill[i].URL/URI`

211. SkillOfPersonType

Base Classifier

- ProvidesCompetence

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$SkillOfPersonType[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$SkillOfPersonType[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$SkillOfPersonType[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$SkillOfPersonType[i].propertySet`
ProvidesCompetence.client		ProvidesCompetence	`$SkillOfPersonType[i].ProvidesCompetence.client`
ProvidesCompetence.supplier		ProvidesCompetence	`$SkillOfPersonType[i].ProvidesCompetence.supplier`
startBoundaryType	ISO8601DateTime	UPDMElement	`$SkillOfPersonType[i].startBoundaryType`
universalPropertySet	ActualPropertySet	ProvidesCompetence	`$SkillOfPersonType[i].universalPropertySet`
URL/URI	String	UPDMElement	`$SkillOfPersonType[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

212. Software

MODAF: An executable computer programme.
DoDAF: Materiel: Equipment, apparatus or supplies that are of interest, without distinction as to its application for administrative or combat purposes.

Base Classifier

- ResourceArtifact

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$Software[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$Software[i].actualPropertySet`
affectedFunctions	Function	ResourceInteractionItem	`$Software[i].affectedFunctions`
appliesTo	UPDMElement	PropertySet	`$Software[i].appliesTo`
conformsTo	Standard	UPDMElement	`$Software[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Software[i].endBoundaryType`
milestone	ActualProjectMilestone	SystemResource	`$Software[i].milestone`
physicalLocation	ActualLocation	LocationHolder	`$Software[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$Software[i].propertySet`
requiredEnvironment	Environment	LocationHolder	`$Software[i].requiredEnvironment`
Resource.ownedOperation		SystemResource	`$Software[i].Resource.ownedOperation`
Resource.ownedPort		SystemResource	`$Software[i].Resource.ownedPort`
Resource.performs		SystemResource	`$Software[i].Resource.performs`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Software[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Software[i].URL/URI`

213. Standard

MODAF: A ratified and peer-reviewed specification that is used to guide or constrain the architecture. A Standard may be applied to any element in the architecture via the [constrainedItem] property of UML::Constraint.
DoDAF: A formal agreement documenting generally accepted specifications or criteria for products, processes, procedures, policies, systems, and/or personnel.

Base Classifier

- SubjectOfForecast

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Standard[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Standard[i].conformsTo`
currentStatus	String	Standard	`$Standard[i].currentStatus`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Standard[i].endBoundaryType`

Copyright © 1998-2011 No Magic, Inc

InformationTechnologyStandardCategory	String	Standard	$Standard[i].InformationTechnologyStandardCategory
mandatedDate	ISO8601DateTime	Standard	$Standard[i].mandatedDate
propertySet	PropertySet	UPDMElement	$Standard[i].propertySet
ratifiedBy	ActualOrganization	Standard	$Standard[i].ratifiedBy
retiredDate	ISO8601DateTime	Standard	$Standard[i].retiredDate
shortName	String	Standard	$Standard[i].shortName
startBoundaryType	ISO8601DateTime	UPDMElement	$Standard[i].startBoundaryType
URL/URI	String	UPDMElement	$Standard[i].URL/URI
version	String	Standard	$Standard[i].version

214. StandardConfiguration

MODAF: A UML::Comment that when attached to a CapabilityConfiguration indicates that it is a standard pattern for re-use in the architecture.
DoDAF: NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$StandardConfiguration[i].actualPropertySet
conformsTo	Standard	UPDMElement	$StandardConfiguration[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$StandardConfiguration[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$StandardConfiguration[i].propertySet
StandardConfiguration.annotatedElement		StandardConfiguration	$StandardConfiguration[i].StandardConfiguration.annotatedElement
startBoundaryType	ISO8601DateTime	UPDMElement	$StandardConfiguration[i].startBoundaryType
URL/URI	String	UPDMElement	$StandardConfiguration[i].URL/URI

215. StandardOperationalActivity

MODAF: An OperationalActivity that is a standard procedure that is doctrinal . Note: This is equivalent to what some defence organisations call JETLs.
DoDAF: Work, not specific to a single organization, weapon system or individual, that transforms inputs into outputs or changes their state (DoDAF:: Activity).

Base Classifier

- OperationalActivity

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)

Copyright © 1998-2011 No Magic, Inc

activityPerformableUnderCondition	Environment	Activity	$StandardOperationalActivity[i].activityPerformableUnderCondition
actualPropertySet	ActualPropertySet	UPDMElement	$StandardOperationalActivity[i].actualPropertySet
conformsTo	Standard	UPDMElement	$StandardOperationalActivity[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$StandardOperationalActivity[i].endBoundaryType
OperationalActivity.ownedParameter		OperationalActivity	$StandardOperationalActivity[i].OperationalActivity.ownedParameter
propertySet	PropertySet	UPDMElement	$StandardOperationalActivity[i].propertySet
realizedBy	NodeOperation	OperationalActivity	$StandardOperationalActivity[i].realizedBy
startBoundaryType	ISO8601DateTime	UPDMElement	$StandardOperationalActivity[i].startBoundaryType
subject	ActivitySubject	OperationalActivity	$StandardOperationalActivity[i].subject
URL/URI	String	UPDMElement	$StandardOperationalActivity[i].URL/URI

216. StatusIndicators

UPDM: Specifies a status for a ProjectTheme (such as training status).
MODAF: An enumeration of the possible statuses (MODAF::StatusIndicator) for one of more ProjectThemes.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$StatusIndicators[i].actualPropertySet
conformsTo	Standard	UPDMElement	$StatusIndicators[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$StatusIndicators[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$StatusIndicators[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$StatusIndicators[i].startBoundaryType
URL/URI	String	UPDMElement	$StatusIndicators[i].URL/URI

217. StereotypeExtension

MODAF: Defines an additional stereotype used in the architecture which is not defined in this meta-model. The body attribute contains the name of the new stereotype. The extendedStereotype tagged value shall contain the name of the meta-model stereotype which is extended. The ontologyReference tagged value shall be populated with a reference to the external ontology element represented by the new stereotype.
DoDAF: NA

Base Classifier

- UPDMElement

Copyright © 1998-2011 No Magic, Inc

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$StereotypeExtension[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$StereotypeExtension[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$StereotypeExtension[i].endBoundaryType`
ontologyReference	OntologyReference	StereotypeExtension	`$StereotypeExtension[i].ontologyReference`
propertySet	PropertySet	UPDMElement	`$StereotypeExtension[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$StereotypeExtension[i].startBoundaryType`
StereotypeExtension.annotatedElement		StereotypeExtension	`$StereotypeExtension[i].StereotypeExtension.annotatedElement`
URL/URI	String	UPDMElement	`$StereotypeExtension[i].URL/URI`

218. StructuralPart

UPDM: An EnterprisePhase can be sub-divided into structural and temporal parts. StructuralPart describes the EnterprisePhase elements that describe the structure.
MODAF: Asserts that one EnterprisePhase is a spatial part of another, (MODAF::EnterpriseStructure) Note:- This is a topological structuring relationship, hence the EnterprisePhase may be physically disjoint

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$StructuralPart[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$StructuralPart[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$StructuralPart[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$StructuralPart[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$StructuralPart[i].startBoundaryType`
StructuralPart.class		StructuralPart	`$StructuralPart[i].StructuralPart.class`
StructuralPart.type		StructuralPart	`$StructuralPart[i].StructuralPart.type`
URL/URI	String	UPDMElement	`$StructuralPart[i].URL/URI`

219. SubjectOfForecast

MODAF: Abstract Any element that may be subject to a Forecast.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$SubjectOfForecast[i].actualPropertySet`

Copyright © 1998-2011 No Magic, Inc

conformsTo	Standard	UPDMElement	$SubjectOfForecast[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$SubjectOfForecast[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$SubjectOfForecast[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$SubjectOfForecast[i].startBoundaryType
URL/URI	String	UPDMElement	$SubjectOfForecast[i].URL/URI

220. SubjectOfOperationalConstraint

MODAF: Abstract. An element of the architecture that may be subject to an OperationalConstraint or OperationalStateDescription.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$SubjectOfOperationalConstraint[i].actualPropertySet
conformsTo	Standard	UPDMElement	$SubjectOfOperationalConstraint[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$SubjectOfOperationalConstraint[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$SubjectOfOperationalConstraint[i].propertySet
startBoundaryType	ISO8601DateTime	UPDMElement	$SubjectOfOperationalConstraint[i].startBoundaryType
URL/URI	String	UPDMElement	$SubjectOfOperationalConstraint[i].URL/URI

221. SubjectOfOperationalStateMachine

UPDM Abstract Element: The element being described by the state machine.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	$SubjectOfOperationalStateMachine[i].actualPropertySet
conformsTo	Standard	UPDMElement	$SubjectOfOperationalStateMachine[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$SubjectOfOperationalStateMachine[i].endBoundaryType
propertySet	PropertySet	UPDMElement	$SubjectOfOperationalStateMachine[i].propertySet

Copyright © 1998-2011 No Magic, Inc

startBoundaryType	ISO8601DateTime	UPDMElement	`$SubjectOfOperationalStateMachine[i].startBoundaryType`
SubjectOfOperationalStateMachine.ownedBehavior		SubjectOfOperationalStateMachine	`$SubjectOfOperationalStateMachine[i].SubjectOfOperationalStateMachine.ownedBehavior`
URL/URI	String	UPDMElement	`$SubjectOfOperationalStateMachine[i].URL/URI`

222. SubjectOfResourceConstraint

MODAF: Abstract. Anything that may be constrained by a ResourceConstraint.

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$SubjectOfResourceConstraint[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$SubjectOfResourceConstraint[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$SubjectOfResourceConstraint[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$SubjectOfResourceConstraint[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$SubjectOfResourceConstraint[i].startBoundaryType`
URL/URI	String	UPDMElement	`$SubjectOfResourceConstraint[i].URL/URI`

223. System

A DoDAF alias for ResourceArtifact.

Base Classifier

- ResourceArtifact

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	`$System[i].actsUpon`
actualPropertySet	ActualPropertySet	UPDMElement	`$System[i].actualPropertySet`
affectedFunctions	Function	ResourceInteractionItem	`$System[i].affectedFunctions`
appliesTo	UPDMElement	PropertySet	`$System[i].appliesTo`
conformsTo	Standard	UPDMElement	`$System[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$System[i].endBoundaryType`
milestone	ActualProjectMilestone	SystemResource	`$System[i].milestone`
physicalLocation	ActualLocation	LocationHolder	`$System[i].physicalLocation`
propertySet	PropertySet	UPDMElement	`$System[i].propertySet`

Copyright © 1998-2011 No Magic, Inc

requiredEnvironment	Environment	LocationHolder	$System[i].requiredEnvironment
Resource.ownedOperation		SystemResource	$System[i].Resource.ownedOperation
Resource.ownedPort		SystemResource	$System[i].Resource.ownedPort
Resource.performs		SystemResource	$System[i].Resource.performs
startBoundaryType	ISO8601DateTime	UPDMElement	$System[i].startBoundaryType
URL/URI	String	UPDMElement	$System[i].URL/URI

224. SystemResource

UPDM: Abstract supertype for physical resources such as OrganizationalResource.
MODAF: A PhysicalAsset, OrganisationalResource or FunctionalResource that can contribute towards fulfilling a capability (MODAF::ResourceType).

Base Classifier

- OperationalExchangeItem
- Participant
- ResourceInteractionItem
- SubjectOfForecast

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actsUpon	OperationalActivity	ActivitySubject	$SystemResource[i].actsUpon
actualPropertySet	ActualPropertySet	UPDMElement	$SystemResource[i].actualPropertySet
affectedFunctions	Function	ResourceInteractionItem	$SystemResource[i].affectedFunctions
appliesTo	UPDMElement	PropertySet	$SystemResource[i].appliesTo
conformsTo	Standard	UPDMElement	$SystemResource[i].conformsTo
endBoundaryType	ISO8601DateTime	UPDMElement	$SystemResource[i].endBoundaryType
milestone	ActualProjectMilestone	SystemResource	$SystemResource[i].milestone
physicalLocation	ActualLocation	LocationHolder	$SystemResource[i].physicalLocation
propertySet	PropertySet	UPDMElement	$SystemResource[i].propertySet
requiredEnvironment	Environment	LocationHolder	$SystemResource[i].requiredEnvironment
Resource.ownedOperation		SystemResource	$SystemResource[i].Resource.ownedOperation
Resource.ownedPort		SystemResource	$SystemResource[i].Resource.ownedPort
Resource.performs		SystemResource	$SystemResource[i].Resource.performs
startBoundaryType	ISO8601DateTime	UPDMElement	$SystemResource[i].startBoundaryType
URL/URI	String	UPDMElement	$SystemResource[i].URL/URI

Copyright © 1998-2011 No Magic, Inc

225. TechnicalStandard

MODAF:A ratified and peer-reviewed specification that is used to guide or constrain the architecture. A Standard may be applied to any element in the architecture via the [constrainedItem] property of UML::Constraint (Standard).
DoDAF:Technical standards document specific technical methodologies and practices to design and implement.

Base Classifier

- Standard

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$TechnicalStandard[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$TechnicalStandard[i].conformsTo`
currentStatus	String	Standard	`$TechnicalStandard[i].currentStatus`
endBoundaryType	ISO8601DateTime	UPDMElement	`$TechnicalStandard[i].endBoundaryType`
InformationTechnologyStandardCategory	String	Standard	`$TechnicalStandard[i].InformationTechnologyStandardCategory`
mandatedDate	ISO8601DateTime	Standard	`$TechnicalStandard[i].mandatedDate`
propertySet	PropertySet	UPDMElement	`$TechnicalStandard[i].propertySet`
ratifiedBy	ActualOrganization	Standard	`$TechnicalStandard[i].ratifiedBy`
retiredDate	ISO8601DateTime	Standard	`$TechnicalStandard[i].retiredDate`
shortName	String	Standard	`$TechnicalStandard[i].shortName`
startBoundaryType	ISO8601DateTime	UPDMElement	`$TechnicalStandard[i].startBoundaryType`
URL/URI	String	UPDMElement	`$TechnicalStandard[i].URL/URI`
version	String	Standard	`$TechnicalStandard[i].version`

226. TemporalPart

UPDM Artifact: An EnterprisePhase can be sub-divided into structural and temporal parts. TemporalPart describes the EnterprisePhase elements that have a time based nature.
MODAF: Asserts that one EnterprisePhase is a temporal part of another. Note: This means that both EnterprisePhases have the same spatial extent - i..e this is only a temporal structure (MODAF:: EnterpriseTemporalPart).

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$TemporalPart[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$TemporalPart[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$TemporalPart[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$TemporalPart[i].propertySet`

Copyright © 1998-2011 No Magic, Inc

startBoundaryType	ISO8601DateTime	UPDMElement	`$TemporalPart[i].startBoundaryType`
TemporalPart.class		TemporalPart	`$TemporalPart[i].TemporalPart.class`
TemporalPart.type		TemporalPart	`$TemporalPart[i].TemporalPart.type`
URL/URI	String	UPDMElement	`$TemporalPart[i].URL/URI`

227. Transactional

A specialization of "InformationElement" the enables the specification of reusable information building blocks, upon which multiple community semantics can be built. Transactionals describe the constructions plans for data sets realizable from the underlying information/data store. The transactional links the community semantics to the structures and business rules information/data store.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
containedTransactionals	Transactional	Transactional	`$Transactional[i].containedTransactionals`
identifier	Wrapper	Transactional	`$Transactional[i].identifier`
representedWrappers	Wrapper	Transactional	`$Transactional[i].representedWrappers`
Transactional.ownedAttribute		Transactional	`$Transactional[i].Transactional.ownedAttribute`

228. TransactionalAttribute

Specialization of Entity Attribute that enables the relationship between logical and Interim processing Attribute naming conventions.

229. Trustline

MODAF:Asserts that the trustingParty (either a Node or a KnownResource) trusts the trustedParty to a given level (indicated by the level attribute). Note: No unit of measure is associated with the level - security architects muist define their own scale of trust levels for a given architecture or set of architectures.
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Trustline[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Trustline[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Trustline[i].endBoundaryType`
level	String	Trustline	`$Trustline[i].level`
propertySet	PropertySet	UPDMElement	`$Trustline[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Trustline[i].startBoundaryType`
Trustline.client		Trustline	`$Trustline[i].Trustline.client`

Copyright © 1998-2011 No Magic, Inc

Trustline.supplier		Trustline	`$Trustline[i].Trustline.supplier`
URL/URI	String	UPDMElement	`$Trustline[i].URL/URI`

230. UPDMElement

UPDM Artifact: Super type for many of the UPDM elements. It provides a means of extending UPDM elements in a common way. With links to the measurement set, it also allows quantitative metrics to be associated with structural and behavioral elements.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$UPDMElement[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$UPDMElement[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$UPDMElement[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$UPDMElement[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$UPDMElement[i].startBoundaryType`
URL/URI	String	UPDMElement	`$UPDMElement[i].URL/URI`

231. VersionOfConfiguration

MODAF:Asserts that a CapabilityConfiguration is a version of a WholeLifeConfiguration.
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$VersionOfConfiguration[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$VersionOfConfiguration[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$VersionOfConfiguration[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$VersionOfConfiguration[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$VersionOfConfiguration[i].startBoundaryType`
URL/URI	String	UPDMElement	`$VersionOfConfiguration[i].URL/URI`
VersionOfConfiguration.class		VersionOfConfiguration	`$VersionOfConfiguration[i].VersionOfConfiguration.class`
VersionOfConfiguration.type		VersionOfConfiguration	`$VersionOfConfiguration[i].VersionOfConfiguration.type`

Copyright © 1998-2011 No Magic, Inc

232. View

MODAF:A specification of a way to present an aspect of the architecture. Views are defined with one or more purposes in mind - e.g. showing the logical topology of the enterprise, describing a process model, defining a data model, etc.
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$View[i].actualPropertySet`
architecturalElements	UPDMElement	View	`$View[i].architecturalElements`
conformsTo	Standard	UPDMElement	`$View[i].conformsTo`
coversPhase	EnterprisePhase	View	`$View[i].coversPhase`
description	String	View	`$View[i].description`
endBoundaryType	ISO8601DateTime	UPDMElement	`$View[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$View[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$View[i].startBoundaryType`
URL/URI	String	UPDMElement	`$View[i].URL/URI`
viewpoints	Viewpoint	View	`$View[i].viewpoints`

233. Viewpoint

MODAF:An instance of the specified View.
DoDAF:NA

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Viewpoint[i].actualPropertySet`
concerns	String	Viewpoint	`$Viewpoint[i].concerns`
conformsTo	Standard	UPDMElement	`$Viewpoint[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Viewpoint[i].endBoundaryType`
languages	String	Viewpoint	`$Viewpoint[i].languages`
methods	String	Viewpoint	`$Viewpoint[i].methods`
propertySet	PropertySet	UPDMElement	`$Viewpoint[i].propertySet`
purpose	String	Viewpoint	`$Viewpoint[i].purpose`
stakeholders	String	Viewpoint	`$Viewpoint[i].stakeholders`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Viewpoint[i].startBoundaryType`
URL/URI	String	UPDMElement	`$Viewpoint[i].URL/URI`

Copyright © 1998-2011 No Magic, Inc

234. Vision

MODAF:The overall aims of an enterprise over a given period of time. (EnterpriseVision)
DoDAF:An end that describes the future state of the enterprise, without regard to how it is to be achieved; a mental image of what the future will or could be like.

Base Classifier

- EnterpriseVision

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$Vision[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$Vision[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$Vision[i].endBoundaryType`
enterprisePhase	EnterprisePhase	EnterpriseVision	`$Vision[i].enterprisePhase`
propertySet	PropertySet	UPDMElement	`$Vision[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$Vision[i].startBoundaryType`
statement	VisionStatement	EnterpriseVision	`$Vision[i].statement`
URL/URI	String	UPDMElement	`$Vision[i].URL/URI`

235. VisionStatement

MODAF: A high-level textual description of an EnterpriseVision.
DoDAF: An end that describes the future state of the enterprise, without regard to how it is to be achieved; a mental image of what the future will or could be like (DODAF::Vision).

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$VisionStatement[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$VisionStatement[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$VisionStatement[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$VisionStatement[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$VisionStatement[i].startBoundaryType`
URL/URI	String	UPDMElement	`$VisionStatement[i].URL/URI`

236. WholeLifeConfiguration

MODAF:A set of versions of a CapabilityConfiguration over time.
DoDAF:NA

Copyright © 1998-2011 No Magic, Inc

Base Classifier

- UPDMElement

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$WholeLifeConfiguration[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$WholeLifeConfiguration[i].conformsTo`
endBoundaryType	ISO8601DateTime	UPDMElement	`$WholeLifeConfiguration[i].endBoundaryType`
propertySet	PropertySet	UPDMElement	`$WholeLifeConfiguration[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$WholeLifeConfiguration[i].startBoundaryType`
URL/URI	String	UPDMElement	`$WholeLifeConfiguration[i].URL/URI`

237. WholeLifeEnterprise

UPDM: A WholeLifeEnterprise is a purposeful endeavor of any size involving people, organizations and supporting systems (including physical systems and/or processes).
MODAF: An EnterprisePhase that represents the whole existance of an enterprise.
DoDAF: NA

Base Classifier

- EnterprisePhase

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
actualPropertySet	ActualPropertySet	UPDMElement	`$WholeLifeEnterprise[i].actualPropertySet`
conformsTo	Standard	UPDMElement	`$WholeLifeEnterprise[i].conformsTo`
describedBy	ArchitecturalDescription	EnterprisePhase	`$WholeLifeEnterprise[i].describedBy`
endBoundaryType	ISO8601DateTime	UPDMElement	`$WholeLifeEnterprise[i].endBoundaryType`
endDate	ISO8601DateTime	EnterprisePhase	`$WholeLifeEnterprise[i].endDate`
Enterprise from/to		EnterprisePhase	`$WholeLifeEnterprise[i].Enterprise from/to`
EnterprisePhase.useCase		EnterprisePhase	`$WholeLifeEnterprise[i].EnterprisePhase.useCase`
fulfills	Mission	EnterprisePhase	`$WholeLifeEnterprise[i].fulfills`
goals	EnterpriseGoal	EnterprisePhase	`$WholeLifeEnterprise[i].goals`
propertySet	PropertySet	UPDMElement	`$WholeLifeEnterprise[i].propertySet`
startBoundaryType	ISO8601DateTime	UPDMElement	`$WholeLifeEnterprise[i].startBoundaryType`
startDate	ISO8601DateTime	EnterprisePhase	`$WholeLifeEnterprise[i].startDate`
statementTasks	EnduringTask	EnterprisePhase	`$WholeLifeEnterprise[i].statementTasks`
URL/URI	String	UPDMElement	`$WholeLifeEnterprise[i].URL/URI`
visions	EnterpriseVision	EnterprisePhase	`$WholeLifeEnterprise[i].visions`

Copyright © 1998-2011 No Magic, Inc

238. Wrapper

A specialization of "EntityItem" that links a Transactional to the logical information/data model Elements (e.g., DB Table). Wrappers represent a single instance of "EntityItem" data.

Attribute Name	Attribute Type	Attribute Owner	Sample Template Expression (VTL)
Wrapper.ownedAttribute		Wrapper	`$Wrapper[i].Wrapper.ownedAttribute`

239. WrapperAttribute

Specialization of Entity Attribute that enables the relationship between physical and logical attribute naming conventions.

Copyright © 1998-2011 No Magic, Inc