# DoDAF META MODEL

version 16.5 beta 2
user's guide

# INTRODUCTION

This document presents the MagicDraw DoDAF Profile structure and its representation in MagicDraw. For more information about DoDAF, see the latest DoDAF specification at http://www.architectureframework.com/dodaf/.

The MagicDraw DoDAF Profile document lists MagicDraw DoDAF 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 DoDAF Profile element description

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

**Attribute Type**
The Attribute Type column provides name of property's type (another MagicDraw DoDAF 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.

# MAGICDRAW DODAF PROFILE

## Table of Contents

# 1. Air Defence Tower

# 2. Aircraft Carrier

# 3. All Views

**Base Classifier**
- DoDAFEntity
- View

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| viewPoint | Viewpoint | View | $AllViews[i].viewPoint |

# 4. AppliedStandard

**Base Classifier**
- DoDAFRelationship

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| appliedAt | TimePeriod | AppliedStandard | $AppliedStandard[i].appliedAt |

# 5. Asset

**Base Classifier**
- LocationHolder

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| actualImplementation | DoDAFEntity | Asset | $Asset[i].actualImplementation |
| position | String | LocationHolder | $Asset[i].position |
| representationType | AssetRepresentationKind | Asset | $Asset[i].representationType |

## 6.  AssetRepresentationKind

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| Operational Activity | Enumeration Literal | AssetRepresentationKind | `$AssetRepresentationKind[i].Operational Activity` |
| Operational Node | Enumeration Literal | AssetRepresentationKind | `$AssetRepresentationKind[i].Operational Node` |
| Organizational Resource | Enumeration Literal | AssetRepresentationKind | `$AssetRepresentationKind[i].Organizational Resource` |
| System | Enumeration Literal | AssetRepresentationKind | `$AssetRepresentationKind[i].System` |
| System Function | Enumeration Literal | AssetRepresentationKind | `$AssetRepresentationKind[i].System Function` |
| Systems Node | Enumeration Literal | AssetRepresentationKind | `$AssetRepresentationKind[i].Systems Node` |

## 7.  AV-1

## 8.  AV-1 package

## 9.  AV-2

## 10.  AV-2 package

## 11.  Backup

**Base Classifier**
- OrganizationalRelationship

## 12.  Capability

**Base Classifier**

- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| mission | Mission | Capability | `$Capability[i].mission` |
| operationalThread | OperationalActivity | Capability | `$Capability[i].operationalThread` |

## 13. CommunicationsLink

**Base Classifier**

- DoDAFRelationship
- InterfaceImplementer
- Standards/PerformanceSubject

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| capacity | String | CommunicationsLink | `$CommunicationsLink[i].capacity` |
| communicationsPath | CommunicationsPath | CommunicationsLink | `$CommunicationsLink[i].communicationsPath` |
| implements | Interface | InterfaceImplementer | `$CommunicationsLink[i].implements` |
| infrastructureTechnology | String | CommunicationsLink | `$CommunicationsLink[i].infrastructureTechnology` |
| measurements | PerformanceMeasurementSet | Standards/PerformanceSubject | `$CommunicationsLink[i].measurements` |
| performanceParameterSet | PerformanceParameterSet | Standards/PerformanceSubject | `$CommunicationsLink[i].performanceParameterSet` |

## 14. CommunicationsNetwork

**Base Classifier**

- System

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| isEncapsulated | Boolean | Block | `$CommunicationsNetwork[i].isEncapsulated` |
| measurements | PerformanceMeasurementSet | Standards/PerformanceSubject | `$CommunicationsNetwork[i].measurements` |
| participant | Participant | System | `$CommunicationsNetwork[i].participant` |
| performanceParameterSet | PerformanceParameterSet | Standards/PerformanceSubject | `$CommunicationsNetwork[i].performanceParameterSet` |
| performedFunctions | SystemFunction | System | `$CommunicationsNetwork[i].performedFunctions` |

| securityClassification | String | CommunicationsNetwork | $CommunicationsNetwork[i].securityClassification |
|---|---|---|---|

## 15. CommunicationsPath

**Base Classifier**
- Block
- DoDAFRelationship
- InterfaceImplementer

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| communicationLinks | CommunicationsLink | CommunicationsPath | $CommunicationsPath[i].communicationLinks |
| implements | Interface | InterfaceImplementer | $CommunicationsPath[i].implements |
| isEncapsulated | Boolean | Block | $CommunicationsPath[i].isEncapsulated |

## 16. CommunicationsSystem

**Base Classifier**
- System

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| isEncapsulated | Boolean | Block | $CommunicationsSystem[i].isEncapsulated |
| measurements | PerformanceMeasurementSet | Standards/PerformanceSubject | $CommunicationsSystem[i].measurements |
| participant | Participant | System | $CommunicationsSystem[i].participant |
| performanceParameterSet | PerformanceParameterSet | Standards/PerformanceSubject | $CommunicationsSystem[i].performanceParameterSet |
| performedFunctions | SystemFunction | System | $CommunicationsSystem[i].performedFunctions |

## 17. Contributing

**Base Classifier**
- OrganizationalRelationship

## 18. Coordination

**Base Classifier**
- OrganizationalRelationship

## 19. Direct

**Base Classifier**
- OrganizationalRelationship

## 20. DISR package

## 21. DoDAFElement

## 22. DoDAFEntity

**Base Classifier**
- DoDAFElement

## 23. DoDAFProduct

**Base Classifier**
- DoDAFElement

## 24. DoDAFRelationship

**Base Classifier**
- DoDAFElement

## 25. Facilities

## 26. Hardware/SoftwareItem

**Base Classifier**
- Standards/PerformanceSubject
- System

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| isEncapsulated | Boolean | Block | `$Hardware/SoftwareItem[i].isEncapsulated` |
| measurements | PerformanceMeasurementSet | Standards/PerformanceSubject | `$Hardware/SoftwareItem[i].measurements` |
| participant | Participant | System | `$Hardware/SoftwareItem[i].participant` |
| performanceParameterSet | PerformanceParameterSet | Standards/PerformanceSubject | `$Hardware/SoftwareItem[i].performanceParamet erSet` |
| performedFunctions | SystemFunction | System | `$Hardware/SoftwareItem[i].performedFunctions` |
| vendors/source | String | Hardware/SoftwareItem | `$Hardware/SoftwareItem[i].vendors/source` |

## 27. Helicopter

## 28. Helicopter2

## 29. Indirect

**Base Classifier**
- OrganizationalRelationship

## 30. InformationElement

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| accuracy | String | InformationElement | `$InformationElement[i].accuracy` |
| content | String | InformationElement | `$InformationElement[i].content` |
| identifier | String | InformationElement | `$InformationElement[i].identifier` |
| implementedBy | SystemDataElement | InformationElement | `$InformationElement[i].implementedBy` |
| language | String | InformationElement | `$InformationElement[i].language` |
| scope | String | InformationElement | `$InformationElement[i].scope` |

## 31. InformationExchange

**Base Classifier**
- DoDAFEntity
- ItemFlow

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| accountability | String | InformationExchange | `$InformationExchange[i].accountability` |
| classification | String | InformationExchange | `$InformationExchange[i].classification` |
| classificationCaveat | String | InformationExchange | `$InformationExchange[i].classificationCaveat` |
| consumedBy | OperationalActivity | InformationExchange | `$InformationExchange[i].consumedBy` |
| criticality | String | InformationExchange | `$InformationExchange[i].criticality` |
| IAAccessControl | String | InformationExchange | `$InformationExchange[i].IAAccessControl` |
| IAAvailability | String | InformationExchange | `$InformationExchange[i].IAAvailability` |
| IAConfidentiality | String | InformationExchange | `$InformationExchange[i].IAConfidentiality` |
| IADisseminationControl | String | InformationExchange | `$InformationExchange[i].IADisseminationControl` |
| IAIntegrity | String | InformationExchange | `$InformationExchange[i].IAIntegrity` |
| identifier | String | InformationExchange | `$InformationExchange[i].identifier` |
| implementedBy | SystemDataExchange | InformationExchange | `$InformationExchange[i].implementedBy` |
| interoperabilityLevelRequired | String | InformationExchange | `$InformationExchange[i].interoperabilityLevelRequired` |
| itemProperty | Property | ItemFlow | `$InformationExchange[i].itemProperty` |
| mission | Mission | InformationExchange | `$InformationExchange[i].mission` |
| periodicity | String | InformationExchange | `$InformationExchange[i].periodicity` |
| producedBy | OperationalActivity | InformationExchange | `$InformationExchange[i].producedBy` |
| protectionDuration | String | InformationExchange | `$InformationExchange[i].protectionDuration` |
| protectionSuspenseCalendarDate | String | InformationExchange | `$InformationExchange[i].protectionSuspenseCalendarDate` |

| | | | |
|---|---|---|---|
| protectionTypeName | String | InformationExchange | `$InformationExchange[i].protectionTypeName` |
| timeliness | String | InformationExchange | `$InformationExchange[i].timeliness` |
| transactionType | String | InformationExchange | `$InformationExchange[i].transactionType` |

## 32. InformationFlow

### Base Classifier
- DoDAFRelationship

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| type | InformationElement | InformationFlow | `$InformationFlow[i].type` |

## 33. Interface

### Base Classifier
- DoDAFRelationship

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| implementedBy | InterfaceImplementer | Interface | `$Interface[i].implementedBy` |
| supportedNeedline | Needline | Interface | `$Interface[i].supportedNeedline` |

## 34. InterfaceImplementer

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| implements | Interface | InterfaceImplementer | `$InterfaceImplementer[i].implements` |

## 35. Jet Fighter

## 36. Jet Fighter2

# 37. LAN

**Base Classifier**
- CommunicationsNetwork

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| isEncapsulated | Boolean | Block | `$LAN[i].isEncapsulated` |
| measurements | PerformanceMeasurementSet | Standards/PerformanceSubject | `$LAN[i].measurements` |
| participant | Participant | System | `$LAN[i].participant` |
| performanceParameterSet | PerformanceParameterSet | Standards/PerformanceSubject | `$LAN[i].performanceParameterSet` |
| performedFunctions | SystemFunction | System | `$LAN[i].performedFunctions` |
| securityClassification | String | CommunicationsNetwork | `$LAN[i].securityClassification` |

# 38. Line

**Base Classifier**
- DoDAFRelationship

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| actualImplementation | DoDAFRelationship | Line | `$Line[i].actualImplementation` |
| representationType | LineRepresentationKind | Line | `$Line[i].representationType` |

# 39. LineRepresentationKind

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| Communications Link | Enumeration Literal | LineRepresentationKind | `$LineRepresentationKind[i].Communications Link` |
| Flow | Enumeration Literal | LineRepresentationKind | `$LineRepresentationKind[i].Flow` |
| Interface | Enumeration Literal | LineRepresentationKind | `$LineRepresentationKind[i].Interface` |
| Needline | Enumeration Literal | LineRepresentationKind | `$LineRepresentationKind[i].Needline` |

# 40. LocationHolder

**Base Classifier**

- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| position | String | LocationHolder | `$LocationHolder[i].position` |

## 41. MAN

**Base Classifier**

- CommunicationsNetwork

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| isEncapsulated | Boolean | Block | `$MAN[i].isEncapsulated` |
| measurements | PerformanceMeasurementSet | Standards/PerformanceSubject | `$MAN[i].measurements` |
| participant | Participant | System | `$MAN[i].participant` |
| performanceParameterSet | PerformanceParameterSet | Standards/PerformanceSubject | `$MAN[i].performanceParameterSet` |
| performedFunctions | SystemFunction | System | `$MAN[i].performedFunctions` |
| securityClassification | String | CommunicationsNetwork | `$MAN[i].securityClassification` |

## 42. Milestone

**Base Classifier**

- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| systemGroup | System | Milestone | `$Milestone[i].systemGroup` |
| timePeriod | TimePeriod | Milestone | `$Milestone[i].timePeriod` |
| version | String | Milestone | `$Milestone[i].version` |

## 43. MilitaryServiceKind

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| Air Force | Enumeration Literal | MilitaryServiceKind | `$MilitaryServiceKind[i].Air Force` |
| Army | Enumeration Literal | MilitaryServiceKind | `$MilitaryServiceKind[i].Army` |

| Joint | Enumeration Literal | MilitaryServiceKind | `$MilitaryServiceKind[i].Joint` |
| Marine Corps | Enumeration Literal | MilitaryServiceKind | `$MilitaryServiceKind[i].Marine Corps` |
| Navy | Enumeration Literal | MilitaryServiceKind | `$MilitaryServiceKind[i].Navy` |

## 44. Missile

## 45. Missile2

## 46. Mission

**Base Classifier**
- DoDAFEntity

## 47. Needline

**Base Classifier**
- DoDAFRelationship

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| identifier | String | Needline | `$Needline[i].identifier` |
| implementingInterface | Interface | Needline | `$Needline[i].implementingInterface` |

## 48. Objective

**Base Classifier**
- DoDAFEntity

## 49. Operational View

**Base Classifier**

- DoDAFEntity
- View

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| viewPoint | Viewpoint | View | `$OperationalView[i].viewPoint` |

## 50. OperationalActivity

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| capability | Capability | OperationalActivity | `$OperationalActivity[i].capability` |
| consumes | InformationExchange | OperationalActivity | `$OperationalActivity[i].consumes` |
| cost | float | OperationalActivity | `$OperationalActivity[i].cost` |
| implementedBy | SystemFunction | OperationalActivity | `$OperationalActivity[i].implementedBy` |
| levelIdentifier | String | OperationalActivity | `$OperationalActivity[i].levelIdentifier` |
| performedAt | OperationalNode | OperationalActivity | `$OperationalActivity[i].performedAt` |
| performedBy | Performer | OperationalActivity | `$OperationalActivity[i].performedBy` |
| produces | InformationExchange | OperationalActivity | `$OperationalActivity[i].produces` |

## 51. OperationalActivityAction

**Base Classifier**
- InvisibleStereotype

## 52. OperationalNode

**Base Classifier**
- Block
- DoDAFEntity
- Performer

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| activities | OperationalActivity | OperationalNode | `$OperationalNode[i].activities` |

| implementedBy | SystemsNode | OperationalNode | $OperationalNode[i].implementedBy |
| isEncapsulated | Boolean | Block | $OperationalNode[i].isEncapsulated |
| isExternal | boolean | OperationalNode | $OperationalNode[i].isExternal |
| levelIdentifier | String | OperationalNode | $OperationalNode[i].levelIdentifier |
| operationalRole | OperationalRole | OperationalNode | $OperationalNode[i].operationalRole |
| performers | Performer | OperationalNode | $OperationalNode[i].performers |
| performs | OperationalActivity | Performer | $OperationalNode[i].performs |
| performsAt | OperationalNode | Performer | $OperationalNode[i].performsAt |

## 53. OperationalNodeUsage

**Base Classifier**
- BlockProperty
- InvisibleStereotype

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| operationalRole | OperationalRole | OperationalNodeUsage | $OperationalNodeUsage[i].operationalRole |

## 54. OperationalRole

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| Operational Service Consumer | Enumeration Literal | OperationalRole | $OperationalRole[i].Operational Service Consumer |
| Operational Service Provider | Enumeration Literal | OperationalRole | $OperationalRole[i].Operational Service Provider |
| Operational Unanticipated User | Enumeration Literal | OperationalRole | $OperationalRole[i].Operational Unanticipated User |
| Unspecified | Enumeration Literal | OperationalRole | $OperationalRole[i].Unspecified |

## 55. OperationalRule

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| type | RuleType | OperationalRule | `$OperationalRule[i].type` |

## 56. Organization

**Base Classifier**
- Performer

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| code/symbol | String | Organization | `$Organization[i].code/symbol` |
| isEncapsulated | Boolean | Block | `$Organization[i].isEncapsulated` |
| militaryServiceType | MilitaryServiceKind | Organization | `$Organization[i].militaryServiceType` |
| performs | OperationalActivity | Performer | `$Organization[i].performs` |
| performsAt | OperationalNode | Performer | `$Organization[i].performsAt` |
| responsibility | Responsibility | Organization | `$Organization[i].responsibility` |
| type | OrganizationType | Organization | `$Organization[i].type` |

## 57. OrganizationalRelationship

**Base Classifier**
- DoDAFRelationship

## 58. OrganizationalResourceUsage

**Base Classifier**
- BlockProperty
- InvisibleStereotype

## 59. OrganizationType

**Base Classifier**
- Performer

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
| --- | --- | --- | --- |
| isEncapsulated | Boolean | Block | `$OrganizationType[i].isEncapsulated` |
| performs | OperationalActivity | Performer | `$OrganizationType[i].performs` |
| performsAt | OperationalNode | Performer | `$OrganizationType[i].performsAt` |

## 60. OV-1

## 61. OV-1 package

## 62. OV-2

## 63. OV-2 package

## 64. OV-3

## 65. OV-3 package

## 66. OV-4

## 67. OV-4 package

## 68. OV-5

69. **OV-5 package**

70. **OV-6 package**

71. **OV-6a**

72. **OV-6a package**

73. **OV-6b**

74. **OV-6b package**

75. **OV-6c**

76. **OV-6c package**

77. **OV-7**

78. **OV-7 package**

# 79. Participant

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| System Service Consumer | Enumeration Literal | Participant | `$Participant[i].System Service Consumer` |
| System Service Provider | Enumeration Literal | Participant | `$Participant[i].System Service Provider` |
| Unspecified | Enumeration Literal | Participant | `$Participant[i].Unspecified` |

# 80. PerformanceMeasurement

**Base Classifier**
- DoDAFEntity

# 81. PerformanceMeasurementSet

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| measuredSystem | Standards/PerformanceSubject | PerformanceMeasurementSet | `$PerformanceMeasurementSet[i].measuredSystem` |
| timePeriod | TimePeriod | PerformanceMeasurementSet | `$PerformanceMeasurementSet[i].timePeriod` |

# 82. PerformanceParameterSet

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| measuredSystems | Standards/PerformanceSubject | PerformanceParameterSet | `$PerformanceParameterSet[i].measuredSystems` |

# 83. PerformanceParameterType

**Base Classifier**

- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| objectiveValue | String | PerformanceParameterType | `$PerformanceParameterType[i].objectiveValue` |
| thresholdValue | String | PerformanceParameterType | `$PerformanceParameterType[i].thresholdValue` |
| unitOfMeasure | String | PerformanceParameterType | `$PerformanceParameterType[i].unitOfMeasure` |

## 84. Performer

**Base Classifier**

- Block
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| isEncapsulated | Boolean | Block | `$Performer[i].isEncapsulated` |
| performs | OperationalActivity | Performer | `$Performer[i].performs` |
| performsAt | OperationalNode | Performer | `$Performer[i].performsAt` |

## 85. Person

**Base Classifier**

- Performer

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| isEncapsulated | Boolean | Block | `$Person[i].isEncapsulated` |
| performs | OperationalActivity | Performer | `$Person[i].performs` |
| performsAt | OperationalNode | Performer | `$Person[i].performsAt` |
| responsibilities | Responsibility | Person | `$Person[i].responsibilities` |
| roles | Role | Person | `$Person[i].roles` |

## 86. ReferenceModel

**Base Classifier**

- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| source | String | ReferenceModel | `$ReferenceModel[i].source` |

## 87. Responsibility

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| persons | Person | Responsibility | `$Responsibility[i].persons` |
| roles | Role | Responsibility | `$Responsibility[i].roles` |

## 88. Role

**Base Classifier**
- Performer

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| isEncapsulated | Boolean | Block | `$Role[i].isEncapsulated` |
| performs | OperationalActivity | Performer | `$Role[i].performs` |
| performsAt | OperationalNode | Performer | `$Role[i].performsAt` |
| persons | Person | Role | `$Role[i].persons` |
| responsibilities | Responsibility | Role | `$Role[i].responsibilities` |

## 89. RuleType

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| Action Assertion | Enumeration Literal | RuleType | `$RuleType[i].Action Assertion` |
| Derivation | Enumeration Literal | RuleType | `$RuleType[i].Derivation` |
| Structural Assertion | Enumeration Literal | RuleType | `$RuleType[i].Structural Assertion` |

## 90.  **Satellite**

## 91.  **Satellite2**

## 92.  **Service**

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| status | String | Service | $Service[i].status |

## 93.  **ServiceArea**

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| version/date | String | ServiceArea | $ServiceArea[i].version/date |

## 94.  **ServiceSpecification**

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| serviceDescription | String | ServiceSpecification | $ServiceSpecification[i].serviceDescription |

## 95.  **Ship**

## 96. SituationDependent

**Base Classifier**
- OrganizationalRelationship

## 97. SoaService

**Base Classifier**
- DoDAFEntity

## 98. Standard

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| endDate | String | Standard | `$Standard[i].endDate` |
| options | String | Standard | `$Standard[i].options` |
| parameters | String | Standard | `$Standard[i].parameters` |
| startDate | String | Standard | `$Standard[i].startDate` |
| type | StandardType | Standard | `$Standard[i].type` |

## 99. Standards/PerformanceSubject

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| measurements | PerformanceMeasurementSet | Standards/PerformanceSubject | `$Standards/PerformanceSubject[i].measurements` |
| performanceParameterSet | PerformanceParameterSet | Standards/PerformanceSubject | `$Standards/PerformanceSubject[i].performanceParameterSet` |

## 100. StandardsForecastProfile

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| basedOn | ReferenceModel | StandardsForecastProfile | $StandardsForecastProfile[i].basedOn |

## 101. StandardsProfile

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| applicableDate | String | StandardsProfile | $StandardsProfile[i].applicableDate |
| basedOn | ReferenceModel | StandardsProfile | $StandardsProfile[i].basedOn |

## 102. StandardStatusType

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| Approved | Enumeration Literal | StandardStatusType | $StandardStatusType[i].Approved |
| COTS Implementation Available | Enumeration Literal | StandardStatusType | $StandardStatusType[i].COTS Implementation Available |
| Draft Available | Enumeration Literal | StandardStatusType | $StandardStatusType[i].Draft Available |
| Obsolete | Enumeration Literal | StandardStatusType | $StandardStatusType[i].Obsolete |
| Replaced | Enumeration Literal | StandardStatusType | $StandardStatusType[i].Replaced |
| Updated | Enumeration Literal | StandardStatusType | $StandardStatusType[i].Updated |

## 103. StandardType

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| De Facto | Enumeration Literal | StandardType | $StandardType[i].De Facto |
| De Jure | Enumeration Literal | StandardType | $StandardType[i].De Jure |
| Organizational | Enumeration Literal | StandardType | $StandardType[i].Organizational |
| Project Specific | Enumeration Literal | StandardType | $StandardType[i].Project Specific |

104. **Submarine**

105. **Submarine2**

106. **SV-1**

107. **SV-1 package**

108. **SV-10 package**

109. **SV-10a**

110. **SV-10a package**

111. **SV-10b**

112. **SV-10b package**

113. **SV-10c**

**114. SV-10c package**

**115. SV-11**

**116. SV-11 package**

**117. SV-2**

**118. SV-2 package**

**119. SV-3**

**120. SV-3 package**

**121. SV-4**

**122. SV-4 package**

**123. SV-5**

**124. SV-5 package**

**125. SV-6**

**126. SV-6 package**

**127. SV-7**

**128. SV-7 package**

**129. SV-8**

**130. SV-8 package**

**131. SV-9**

**132. SV-9 package**

**133. System**

**Base Classifier**

- Block
- DoDAFEntity
- Standards/PerformanceSubject

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| isEncapsulated | Boolean | Block | `$System[i].isEncapsulated` |
| measurements | PerformanceMeasurementSet | Standards/PerformanceSubject | `$System[i].measurements` |
| participant | Participant | System | `$System[i].participant` |
| performanceParameterSet | PerformanceParameterSet | Standards/PerformanceSubject | `$System[i].performanceParameterSet` |
| performedFunctions | SystemFunction | System | `$System[i].performedFunctions` |

## 134. SystemDataElement

**Base Classifier**
- DoDAFEntity
- Standards/PerformanceSubject

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| accuracy | String | SystemDataElement | `$SystemDataElement[i].accuracy` |
| content | String | SystemDataElement | `$SystemDataElement[i].content` |
| formatType | String | SystemDataElement | `$SystemDataElement[i].formatType` |
| identifier | String | SystemDataElement | `$SystemDataElement[i].identifier` |
| implements | InformationElement | SystemDataElement | `$SystemDataElement[i].implements` |
| measurements | PerformanceMeasurementSet | Standards/PerformanceSubject | `$SystemDataElement[i].measurements` |
| mediaType | String | SystemDataElement | `$SystemDataElement[i].mediaType` |
| performanceParameterSet | PerformanceParameterSet | Standards/PerformanceSubject | `$SystemDataElement[i].performanceParameterSet` |
| systemDataStandard | Standard | SystemDataElement | `$SystemDataElement[i].systemDataStandard` |
| unitOfMeasurement | String | SystemDataElement | `$SystemDataElement[i].unitOfMeasurement` |

## 135. SystemDataExchange

**Base Classifier**
- DoDAFEntity
- Standards/PerformanceSubject

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| automates | InformationExchange | SystemDataExchange | `$SystemDataExchange[i].automates` |
| classification | String | SystemDataExchange | `$SystemDataExchange[i].classification` |
| classificationCaveat | String | SystemDataExchange | `$SystemDataExchange[i].classificationCaveat` |
| consumedBy | SystemFunction | SystemDataExchange | `$SystemDataExchange[i].consumedBy` |
| criticality | String | SystemDataExchange | `$SystemDataExchange[i].criticality` |
| IAAccessControl | String | SystemDataExchange | `$SystemDataExchange[i].IAAccessControl` |
| IAAvailability | String | SystemDataExchange | `$SystemDataExchange[i].IAAvailability` |
| IAConfidentiality | String | SystemDataExchange | `$SystemDataExchange[i].IAConfidentiality` |
| IADisseminationControl | String | SystemDataExchange | `$SystemDataExchange[i].IADisseminationContro l` |
| IAIntegrity | String | SystemDataExchange | `$SystemDataExchange[i].IAIntegrity` |
| IANonRepudiationConsumer | String | SystemDataExchange | `$SystemDataExchange[i].IANonRepudiationConsu mer` |
| IANonRepudiationProducer | String | SystemDataExchange | `$SystemDataExchange[i].IANonRepudiationProdu cer` |
| identifier | String | SystemDataExchange | `$SystemDataExchange[i].identifier` |
| interoperabilityLevelAchievable | String | SystemDataExchange | `$SystemDataExchange[i].interoperabilityLevel Achievable` |
| measurements | PerformanceMeasurementSet | Standards/PerformanceSubject | `$SystemDataExchange[i].measurements` |
| performanceParameterSet | PerformanceParameterSet | Standards/PerformanceSubject | `$SystemDataExchange[i].performanceParameterS et` |
| periodicity | String | SystemDataExchange | `$SystemDataExchange[i].periodicity` |
| producedBy | SystemFunction | SystemDataExchange | `$SystemDataExchange[i].producedBy` |
| protectionDurationCode | String | SystemDataExchange | `$SystemDataExchange[i].protectionDurationCod e` |
| protectionSuspenseCalendarDate | String | SystemDataExchange | `$SystemDataExchange[i].protectionSuspenseCal endarDate` |
| protectionTypeName | String | SystemDataExchange | `$SystemDataExchange[i].protectionTypeName` |
| releasability | String | SystemDataExchange | `$SystemDataExchange[i].releasability` |
| securityStandard | Standard | SystemDataExchange | `$SystemDataExchange[i].securityStandard` |
| size | String | SystemDataExchange | `$SystemDataExchange[i].size` |
| throughput | String | SystemDataExchange | `$SystemDataExchange[i].throughput` |
| timeliness | String | SystemDataExchange | `$SystemDataExchange[i].timeliness` |
| transactionType | String | SystemDataExchange | `$SystemDataExchange[i].transactionType` |

# 136. SystemDataFlow

**Base Classifier**

- DoDAFRelationship

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| type | SystemDataElement | SystemDataFlow | `$SystemDataFlow[i].type` |

## 137. SystemDataRepository

**Base Classifier**
- DoDAFEntity

## 138. SystemFunction

**Base Classifier**
- DoDAFEntity
- Standards/PerformanceSubject

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| allocatedAt | SystemsNode | SystemFunction | `$SystemFunction[i].allocatedAt` |
| consumes | SystemDataExchange | SystemFunction | `$SystemFunction[i].consumes` |
| implements | OperationalActivity | SystemFunction | `$SystemFunction[i].implements` |
| measurements | PerformanceMeasurementSet | Standards/PerformanceSubject | `$SystemFunction[i].measurements` |
| parent | SystemFunction | SystemFunction | `$SystemFunction[i].parent` |
| performanceParameterSet | PerformanceParameterSet | Standards/PerformanceSubject | `$SystemFunction[i].performanceParameterSet` |
| performedBy | System | SystemFunction | `$SystemFunction[i].performedBy` |
| produces | SystemDataExchange | SystemFunction | `$SystemFunction[i].produces` |
| subfunction | SystemFunction | SystemFunction | `$SystemFunction[i].subfunction` |

## 139. SystemFunctionAction

**Base Classifier**
- InvisibleStereotype

## 140. SystemRule

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| type | RuleType | SystemRule | `$SystemRule[i].type` |

## 141. Systems View

**Base Classifier**
- DoDAFEntity
- View

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| viewPoint | Viewpoint | View | `$SystemsView[i].viewPoint` |

## 142. SystemsNode

**Base Classifier**
- Block
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| allocatedFunctions | SystemFunction | SystemsNode | `$SystemsNode[i].allocatedFunctions` |
| implements | OperationalNode | SystemsNode | `$SystemsNode[i].implements` |
| isEncapsulated | Boolean | Block | `$SystemsNode[i].isEncapsulated` |

## 143. SystemsNodeUsage

**Base Classifier**
- BlockProperty
- InvisibleStereotype

## 144. SystemUsage

**Base Classifier**

- BlockProperty
- InvisibleStereotype

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| participant | Participant | SystemUsage | `$SystemUsage[i].participant` |

## 145. Tank

## 146. Tank2

## 147. TargetArea

**Base Classifier**

- LocationHolder

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| position | String | LocationHolder | `$TargetArea[i].position` |

## 148. Technical Standards View

**Base Classifier**

- DoDAFEntity
- View

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| viewPoint | Viewpoint | View | `$TechnicalStandardsView[i].viewPoint` |

## 149. Technology

**Base Classifier**

- DoDAFEntity

## 150. TechnologyForecastProfile

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| basedOn | StandardsProfile | TechnologyForecastProfile | $TechnologyForecastProfile[i].basedOn |
| basedOn | ReferenceModel | TechnologyForecastProfile | $TechnologyForecastProfile[i].basedOn |
| timePeriod | TimePeriod | TechnologyForecastProfile | $TechnologyForecastProfile[i].timePeriod |

## 151. Time Periods

## 152. TimedStandardsForecast

**Base Classifier**
- DoDAFRelationship

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| discussion | String | TimedStandardsForecast | $TimedStandardsForecast[i].discussion |
| requires | TimedTechnologyForecast | TimedStandardsForecast | $TimedStandardsForecast[i].requires |
| standardStatus | StandardStatusType | TimedStandardsForecast | $TimedStandardsForecast[i].standardStatus |
| timePeriod | TimePeriod | TimedStandardsForecast | $TimedStandardsForecast[i].timePeriod |

## 153. TimedTechnologyForecast

**Base Classifier**
- DoDAFRelationship

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| discussion | String | TimedTechnologyForecast | $TimedTechnologyForecast[i].discussion |
| requiredBy | TimedStandardsForecast | TimedTechnologyForecast | $TimedTechnologyForecast[i].requiredBy |

| | | | |
|---|---|---|---|
| retiredStandard | Standard | TimedTechnologyForecast | $TimedTechnologyForecast[i].retiredStandard |
| timePeriod | TimePeriod | TimedTechnologyForecast | $TimedTechnologyForecast[i].timePeriod |

## 154. TimePeriod

**Base Classifier**
- DoDAFEntity

## 155. TimePeriodList

**Base Classifier**
- DoDAFEntity

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| timePeriods | TimePeriod | TimePeriodList | $TimePeriodList[i].timePeriods |

## 156. Troops

## 157. Troops2

## 158. TV-1

## 159. TV-1 package

## 160. TV-2

## 161. TV-2 package

## 162. Vehicle

## 163. Vehicle2

## 164. WAN

**Base Classifier**

- CommunicationsNetwork

| Attribute Name | Attribute Type | Attribute Owner | Sample Template Expression (VTL) |
|---|---|---|---|
| isEncapsulated | Boolean | Block | $WAN[i].isEncapsulated |
| measurements | PerformanceMeasurementSet | Standards/PerformanceSubject | $WAN[i].measurements |
| participant | Participant | System | $WAN[i].participant |
| performanceParameterSet | PerformanceParameterSet | Standards/PerformanceSubject | $WAN[i].performanceParameterSet |
| performedFunctions | SystemFunction | System | $WAN[i].performedFunctions |
| securityClassification | String | CommunicationsNetwork | $WAN[i].securityClassification |