

A Brief Introduction to the DoDAF CADM-AP233 Mappings

This document introduces the basics of the US Department of Defense Architecture Framework (DoDAF) Views and the Core Architecture Data Model (CADM). It also explains the relationship between DoDAF CADM and AP233 in terms of the CADM XML Schema.

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1. Project Scope

The project scope has expanded over the past year to include all DODAF Views. The mapping itself is based on CADM Version 1.02.

Warning:

This 4Q2006 release of this Web site adds AP233 support for OV6a, SV10a, SV-8, SV-9, TV-2, OV-7 and SV-11 mappings. The CADM/AP233 mappings for most other DODAF Views have not been updated since their original publication. AP233-related artefacts are still based on AP233 Working Draft 2 published July 2006. The AP233 Committee Draft ballot is due in 1Q or 2Q 2007.

The CADM Mappings pages document mappings between the US Department of Defense Architecture Framework (DoDAF) and the ISO 10303-233 Systems Engineering Application Protocol (AP233). These mappings are defined between the DoDAF Core Architecture Data Model (CADM) XML Schema and the AP233 XML Schema format (based on ISO 10303-28 Edition 2). This documentation is self-contained so that readers need no knowledge of the AP233 ISO standard itself or the ISO EXPRESS language (ISO 10303-11 Edition 2) in which AP233 is standardized. The mapping is documented as the specification of an XML Schema-to-XML Schema translation.

The purpose of this mapping and its related software is to provide an initial capability to translate data between CADM XML documents and AP233 XML documents to prove the feasibility of the use of AP233 in support of the objectives of DoDAF and CADM. The purpose is not to provide a production-quality tool for CADM or AP233 implementation. Several white papers have been written on the subject and this CADM-AP233 mapping can be considered a proof-of-concept supporting the conclusions of those papers (see [Using Systems Engineering Standards in an Architecture Framework](#) (<http://syseng.omg.org/UAF.htm>)). The following figure shows how AP233 would be used.

SysML, DODAF, SE Tool Data Exchange Using AP233

Warning:

AP233 was still undergoing standardization in ISO at the time of the publication of this mapping.

2. Introduction

From the Department of Defense (DoD) Architecture Framework (DoDAF), Version 1.0 Volume I: Definitions and Guidelines:

The Department of Defense (DoD) Architecture Framework (DoDAF), Version 1.0, defines a common approach for DoD architecture description development, presentation, and

integration for both warfighting operations and business operations and processes. The Framework defines three related views of architecture: Operational View (OV), Systems View (SV), and Technical Standards View (TV). Each view is composed of sets of architecture data elements that are depicted via graphic, tabular, or textual products. The All-DoD Core Architecture Data Model (CADM) defines the entities and relationships for architecture data elements.

3. DODAF CADM-AP233 Relationship

The DoD Architecture Framework defines a set of architecture products and views, a set of data elements supporting those products and views, and identifies several possible tool representations for those products and views. Users of software tools then follow the DoDAF approach when defining systems architectures. The CADM XML Schema is also defined as a means of representing the systems architectures information in an XML format.

AP233 is an ISO standard information model defined to support data exchange. It is independent of any tool, organization or architecture framework. The XML Schema representation of AP233 supports the exchange of systems architectures data.

The relationship between DoDAF CADM and AP233 is then that CADM is the DoD XML schema for representing systems architectures data and AP233 is a neutral mechanism for exchanging systems architecture data between disparate software tools. Therefore, the CADM-AP233 mapping provides a path for tools supporting AP233 to provide the DoD their data in CADM format. As AP233 is one of a suite of ISO data exchange standards, the CADM-AP233 mapping also provides a path for DoD to feed CADM data into those other ISO protocols that support other life cycle stages of systems such as detailed design, manufacturing, support engineering and life cycle support.

4. DODAF CADM-AP233 Mappings

The mapping is documented as a set of related Web pages. The AP233 approach to representing various Systems Engineering concepts using the AP233 XML Schema is documented. Then, for each DoDAF view a separate document lists the CADM XML Schema concepts and links into the AP233 approach documentation as appropriate. Any additional guidance is defined for each CADM XML Schema concept as necessary.

In order to be independent of tool, organization or architecture framework, AP233 is necessarily a flexible, extensible information model. See the [AP233 classification](#) (./ap233/index.html#ap233_extclass) documentation for an explanation of how extensibility works with AP233.

4.1. Patterns in the CADM-AP233 Mappings

Because of the flexible, extensible nature of AP233 it is not necessary to explicitly define the CADM-AP233 mapping for every element in the CADM XML Schema in detail. This is because entire classes of CADM elements will map into the AP233 XML Schema in the same way. For example, AP233 has a general purpose capability to define a calendar date. All CADM data elements that contain dates would map into the same AP233 calendar date concept. The type or role the date plays is then specified by classification. The template or pattern in AP233 is straightforward making it simple to apply for all CADM date-related data elements.

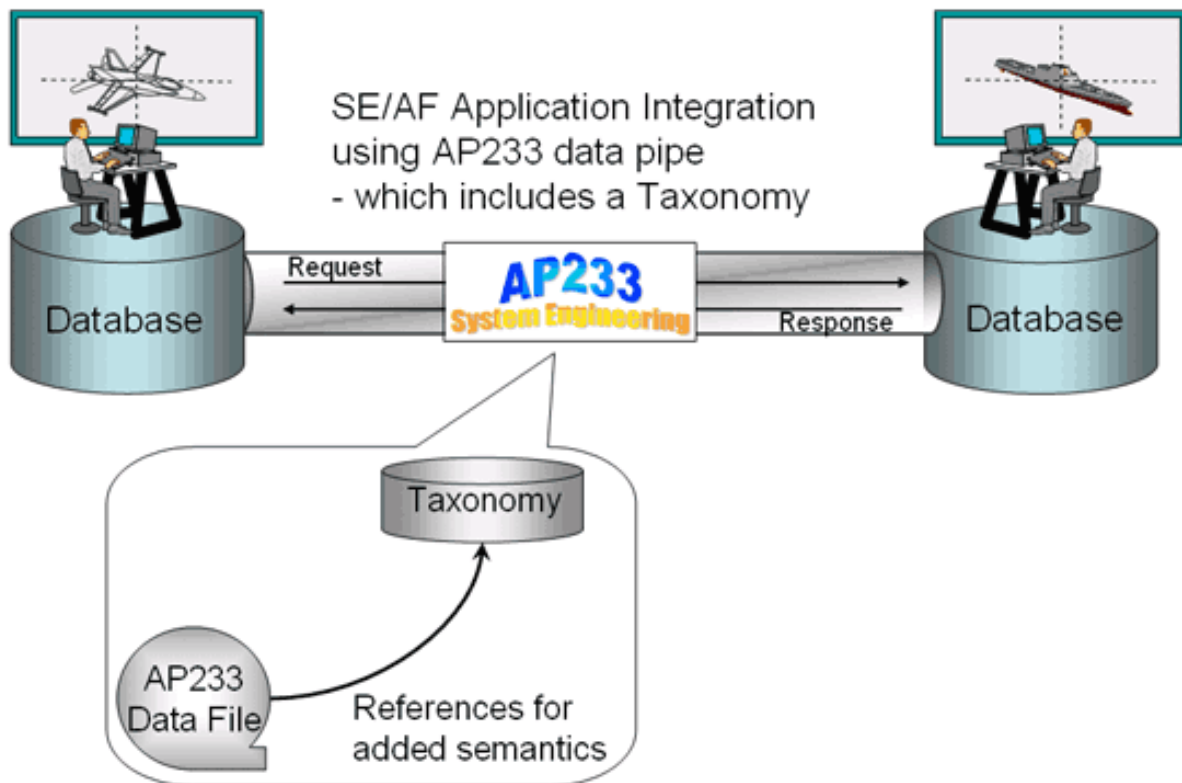
4.2. Core concept mappings

The core concepts in CADM and in AP233 are actually not that different. Typically, the CADM concepts are made more specific by the use of type codes. Typically, the AP233 concepts are made more specific using classification by external class. The CADM type codes will be the source for AP233 external classes to support CADM/AP233 interchange.

4.3. External Classes Used In Mapping

Key to the cross-industry approach taken with AP233, a Taxonomy is utilized to allow any level of detailed semantics to the data exchange set. Any Taxonomy can also be standardized within or across organizations and even submitted to standards bodies for approval.

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Semantics Added To AP233 Using Taxonomy

As part of the [AP233 External Class](#) ([../ap233/index.html#ap233_extclass](#)) capability, the CADM-AP233 mapping results in a set of External Classes for use in the AP233 data exchange. For this mapping, the External Classes are delivered as Web Ontology Language (OWL) Classes. OWL is used for several reasons including among others:

- with OWL each class is uniquely identified by a URI
- OWL has an XML format
- OWL has the capability to define a class hierarchy, or taxonomy, and also supports properties associated with the classes
- OWL XML file may be made available for use on the Web simply by putting them on a server
- there are open-source implementations providing APIs and database backends (via RDF) for OWL ontologies

The CADM-AP233 OWL ontology used as part of the mapping is available below.

- [the CADM-AP233 OWL ontology](#) ([../dodaf/cadm_ap233_external_classes.owl](#))

4.4. The CADM XML Schema

The CADM XML Schemas used as the basis for the mapping is available below.

Note:

The XML Schema is fairly large files so be patient as it loads.

- [the CADM XML Schema](#) (../dodaf/CADM102CompletePhysical.xsd)

The following table shows the CADM concept and its related XML element name in the CADM XML Schema.

CADM Concept	XML Element Name
ACTION	ACTION
ACTION ASSERTION RULE	ACT_ASSERTION_RULE
ACTION ASSOCIATION	ACT_ASSOC
ACTION DOCUMENT	ACT_DOC
ACTION GUIDANCE	ACT_GUID
ACTION ORGANIZATION	ACTN_ORG
ACTION ORGANIZATION TYPE	ACT_ORG_TYPE
ACTION VERB	ACT_VRB
ACTIVITY MODEL	ACTV_MODEL
ACTIVITY MODEL INFORMATION ELEMENT ROLE	ACTV_MDL_IE_ROLE
ACTIVITY MODEL INFORMATION ELEMENT ROLE CONTROL	ACTV_MDL_IERL_CTRL
ACTIVITY MODEL INFORMATION ELEMENT ROLE CONTROL AGREEMENT	ACTV_MDL_IERLC_AGR
ACTIVITY MODEL INFORMATION ELEMENT ROLE CONTROL GUIDANCE	ACTV_MDL_IERLC_GDN
ACTIVITY MODEL INFORMATION ELEMENT ROLE GRAPHIC	ACTV_MDL_IERL_GRP
ACTIVITY MODEL INFORMATION ELEMENT ROLE IER	ACTV_MDL_IERL_IER

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ACTIVITY MODEL INFORMATION ELEMENT ROLE INPUT	ACTV_MDL_IERL_INPT
ACTIVITY MODEL INFORMATION ELEMENT ROLE MECHANISM	ACTV_MDL_IERL_MECH
ACTIVITY MODEL INFORMATION ELEMENT ROLE MECHANISM FACILITY	ACTV_MDL_IERLM_FAC
ACTIVITY MODEL INFORMATION ELEMENT ROLE MECHANISM REFERENCE	ACTV_MDL_IERLM_REF
ACTIVITY MODEL INFORMATION ELEMENT ROLE MECHANISM SYSTEM	ACTV_MDL_IERLM_SYS
ACTIVITY MODEL INFORMATION ELEMENT ROLE OUTPUT	ACTV_MDL_IERL_OUT
ACTIVITY MODEL PROCESS ACTIVITY	ACTV_MDL_PROC_ACTV
ACTIVITY MODEL PROCESS ACTIVITY ASSOCIATION	ACTV_MDL_PA_ASSOC
ACTIVITY MODEL PROCESS ACTIVITY GRAPHIC	ACTV_MDL_PA_GRP
ACTIVITY MODEL SPECIFICATION {OV 5}	ACTV_MDL_SPEC
ACTIVITY MODEL SPECIFICATION ELEMENT	ACTV_MDL_SPEC_EL
ACTIVITY MODEL SYSTEM PROCESS ACTIVITY	ACTV_MDL_SYS_PA
ACTIVITY MODEL THREAD	ACTV_MDL_THRD
ACTIVITY MODEL THREAD ELEMENT	ACTV_MDL_THRD_ELEM
ADDRESS BOOK	ADDRESS_BOOK
ADDRESS BOOK ELEMENT	ADRS_BK_ELEMENT
AGREEMENT	AGREEMENT
AGREEMENT ASSOCIATION	AGR_ASSOC
AGREEMENT DOCUMENT	AGRMNT_DCMNT
AGREEMENT GUIDANCE	AGR_GUID
ANALYSIS PROCESS	ANALYSIS_PROC
ANTENNA TYPE	ANTENNA_TYPE

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ANTENNA TYPE BAND	ANTENNA_TYPE_BAND
APPLICATION PROGRAM INTERFACE STANDARD	APPL_PROG_IF_STD
ARCHITECTURE	ARCH
ARCHITECTURE AGREEMENT	ARCH_AGR
ARCHITECTURE ANALYSIS PROCESS RESULT	ARCH_AN_PROC_RSLT
ARCHITECTURE ASSOCIATION	ARCH_ASSOC
ARCHITECTURE BUSINESS SUBFUNCTION	ARCH_BUS_SUBFUNC
ARCHITECTURE CHANGE PROPOSAL	ARCH_CHNG_PROP
ARCHITECTURE CHANGE PROPOSAL ACTION	ARCH_CHNG_PROP_ACT
ARCHITECTURE CHANGE PROPOSAL DETAIL	ARCH_CHNG_PROP_DTL
ARCHITECTURE CHANGE PROPOSAL IMPACT	ARCH_CHNG_PROP_IMP
ARCHITECTURE CHANGE PROPOSAL REASON	ARCH_CHNG_PROP_REA
ARCHITECTURE CHANGE PROPOSAL REVIEW	ARCH_CHNG_PROP_REV
ARCHITECTURE CHANGE PROPOSAL SUPPLEMENT	ARCH_CHNG_PROP_SUP
ARCHITECTURE CHANGE PROPOSAL USER COORDINATION	ARCH_CHNG_PROP_USR
ARCHITECTURE CONSTRAINT	ARCH_CNSTRNT
ARCHITECTURE DATABASE	ARCH_DATABASE
ARCHITECTURE DOCUMENT	ARCH_DOC
ARCHITECTURE FINDING	ARCH_FINDING
ARCHITECTURE FINDING ASSOCIATION	ARCH_FINDING_ASSOC
ARCHITECTURE FINDING REQUIREMENT DOMAIN	ARCH_FINDING_RQ_DM

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ARCHITECTURE FUNCTIONAL AREA	ARCH_FUNCT_AREA
ARCHITECTURE GUIDANCE	ARCH_GUID
ARCHITECTURE ICON CATALOG	ARCH_ICON_CAT
ARCHITECTURE IMPACT	ARCH_IMPACT
ARCHITECTURE INFORMATION ASSET	ARCH_INFO_ASSET
ARCHITECTURE INFORMATION ELEMENT	ARCH_INFO_ELEM
ARCHITECTURE INFORMATION TECHNOLOGY REQUIREMENT	ARCH_IT_REQ
ARCHITECTURE ISSUE	ARCH_ISSUE
ARCHITECTURE MATERIEL ITEM	ARCH_MAT_ITEM
ARCHITECTURE MISSION	ARCH_MSN
ARCHITECTURE NETWORK	ARCH_NTWK
ARCHITECTURE NODE	ARCH_NODE
ARCHITECTURE OPERATIONAL MISSION THREAD	ARCH_OP_MSN_THRD
ARCHITECTURE OPERATIONAL SCENARIO	ARCH_OP_SCEN
ARCHITECTURE ORGANIZATION	ARCH_ORG
ARCHITECTURE ORGANIZATION TYPE	ARCH_ORG_TY
ARCHITECTURE ORGANIZATION TYPE ESTABLISHMENT	ARCH_ORG_TYPE_ESTB
ARCHITECTURE PLAN	ARCH_PLAN
ARCHITECTURE PROJECT	ARCH_PROJ
ARCHITECTURE PROJECT ANALYSIS RESULT	ARCH_PROJ_AN_RSLT
ARCHITECTURE RECOMMENDATION	ARCH_REC
ARCHITECTURE SYSTEM	ARCH_SYS
ARCHITECTURE SYSTEM SYSTEM SOFTWARE ITEM	ARCH_SYS_SYS_SWI
ARCHITECTURE TASK	ARCH_TASK

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AREA FACILITY	AREA_FAC
ATM SWITCH	ATM_SWITCH
AUTOMATED INFORMATION SYSTEM	AIS
BATTLEFIELD FUNCTION	BFLD_FUNC
BATTLEFIELD FUNCTIONAL AREA PROPONENT	BFA_PROP
BUILDING	BLDG
BUILDING COMMUNICATION CABLE	BLDG_COMM_CABLE
BUILDING COSTING PROFILE	BLDG_COST_PROFILE
BUILDING OUTSIDE PLANT CABLE INVENTORY	BLDG_OP_CABLE_INV
BUILDING UTILITY SYSTEM	BLDG_UTIL_SYS
BUSINESS SUBFUNCTION	BUS_SUBFUNC
CALL EVENT	CALL_EVENT
CAPABILITY	CAPABILITY
CAPABILITY ASSOCIATION	CAPABILITY_ASSOC
CAPABILITY DOCUMENT	CAPABILITY_DOC
CATEGORY RELATIONSHIP	CATEGORY_REL
CAVEATED SECURITY CLASSIFICATION	CAV_SCTY_CLASS
CHANGE EVENT	CHANGE_EVENT
CIRCUIT SWITCH MATERIEL	CIRCUIT_SWITCH_MAT
CIRCUIT SWITCH TYPE	CIRCUIT_SWITCH_TY
COMMUNICATION CHANNEL	COMM_CHANNEL
COMMUNICATION CIRCUIT	COMM_CRCT
COMMUNICATION CIRCUIT INFORMATION TECHNOLOGY REQUIREMENT	COMM_CRCT_IT_REQ
COMMUNICATION CIRCUIT THREAD ELEMENT	COMM_CIR_THRD_ELEM

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COMMUNICATION CIRCUIT TYPE	COMM_CIR_TY
COMMUNICATION FACILITY	COMM_FAC
COMMUNICATION LINK	COMM_LINK
COMMUNICATION LINK INFORMATION TECHNOLOGY REQUIREMENT	COMM_LINK_IT_REQ
COMMUNICATION LINK TYPE	COMM_LNK_TY
COMMUNICATION MEANS	COMM_MEANS
COMMUNICATION MEANS ROUTE SEGMENT	COMM_MEANS_RTE_SEG
COMMUNICATION MEDIUM	COMM_MEDIUM
COMMUNICATION SPACE USE CLASS	COMM_SPACE_USE_CLS
COMMUNICATION SYSTEM	COMM_SYSTEM
COMMUNICATION SYSTEM MATERIEL ITEM APPLICABILITY	COMM_SYS_MATI_APPL
COMMUNICATION SYSTEM USE DETAIL	COMM_SYS_USE_DTL
COMPOSITE PROCESS STATE	COMP_PROC_ST
COMPOSITE PROCESS STATE SUBSTATE	COMP_PROC_ST_SUBST
COMPUTER DEVICE MATERIEL	COMPUTER_DEV_MAT
COMPUTER WORKSTATION TYPE	COMPUTER_WS_TYPE
CONCEPT GRAPHIC {OV 1}	CONCEPT_GRAPHIC
CONCEPTUAL DATA MODEL	CONC_DATA_MODEL
CONCEPTUAL DATA MODEL VIEW	CONC_DM_VIEW
CONCEPTUAL DATA MODEL VIEW DATA ENTITY	CONC_DM_VIEW_DA_EN
CONE VOLUME	CONE_VOL
COST BASIS	COST_BASIS
COUNTRY	CTRY
DATA ATTRIBUTE	DATA_ATTR
DATA ATTRIBUTE ASSOCIATION	DATA_ATTR_ASSOC

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DATA ATTRIBUTE DATA TYPE	DATA_ATTR_DATA_TY
DATA CLASS	DATA_CLASS
DATA DICTIONARY	DATA_DICT
DATA DICTIONARY ELEMENT	DATA_DICT_EL
DATA DICTIONARY ELEMENT ASSOCIATION	DATA_DICT_EL_ASSOC
DATA DICTIONARY SPECIFICATION	DATA_DICT_SPEC
DATA DOMAIN	DATA_DOMAIN
DATA DOMAIN LIST	DATA_DOMAIN_LST
DATA DOMAIN LIST VALUE	DATA_DOMAIN_LSTVAL
DATA DOMAIN LIST VALUE ASSOCIATION	DATA_DOMAIN_LVASSN
DATA DOMAIN RANGE	DATA_DOMAIN_RANGE
DATA DOMAIN STRUCTURE RULE ASSOCIATION	DATA_DOMAIN_STRRLA
DATA ENTITY	DATA_ENT
DATA ENTITY ACTIVITY MODEL INFORMATION ELEMENT ROLE	DATA_ENT_ACMDLIERL
DATA ENTITY DATA ATTRIBUTE	DATA_ENT_DATA_ATTR
DATA ENTITY RELATIONSHIP	DATA_ENT_REL
DATA ENTITY RELATIONSHIP DATA ATTRIBUTE	DATA_ENT_REL_ATTR
DATA ITEM	DATA_ITEM
DATA ITEM TYPE	DATA_ITEM_TYPE
DATA MODEL STANDARD	DATA_MODEL_STD
DATA STANDARD	DATA_STANDARD
DATA STANDARD CONCEPTUAL DATA MODEL VIEW	DATA_STD_CNC_DM_VW
DATA STORE	DATA_STORE
DATABASE RULE	DATABASE_RULE

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DECISION MILESTONE	DECISION_MILESTONE
DEFENSE OCCUPATIONAL SPECIALTY CROSS REFERENCE	DEF_OCCSPEC_CR_REF
DEPLOYMENT LOCATION TYPE	DEPL_LOC_TYPE
DIRECTED CONSTRAINT	DIR_CONSTRAINT
DOCUMENT	DOC
DOCUMENT ASSOCIATION	DOC_ASSOC
DOCUMENT CAVEATED SECURITY CLASSIFICATION	DOC_CAV_SCTY_CLASS
DOCUMENT CONTENT	DOC_CNTNT
DOCUMENT MESSAGE	DOC_MESSAGE
ELLIPSE AREA	ELLIPSE_AREA
EQUIPMENT TYPE	EQUIP_TYPE
EQUIPMENT TYPE NODE ICON	EQUIP_TY_NODE_ICON
EQUIPMENT TYPE SOFTWARE ITEM	EQUIP_TYPE_SW_ITEM
EVENT	EVENT
EVENT ASSOCIATION	EVT_ASSOC
EVENT DOCUMENT	EV_DOC
EVENT NODE CROSS LINK	EV_NODE_CROSS_LINK
EVENT TRACE DESCRIPTION {OV 6c; SV 10c}	EV_TRC_DESCR
EVENT TRACE DESCRIPTION ELEMENT	EV_TRC_DESCR_EL
EVENT TRACE DESCRIPTION ELEMENT ASSOCIATION	EV_TRC_DESCR_ELASN
EVENT TYPE	EVNT_TYP
EXCHANGE NEED LINE REQUIREMENT	EXCH_NEED_LINE_REQ
EXCHANGE RELATIONSHIP TYPE	EXCH_REL_TY
FACILITY	FACILITY

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FACILITY ASSOCIATION	FAC_ASSOC
FACILITY BASIC CATEGORY	FAC_BASIC_CATEGORY
FACILITY CATEGORY	FAC_CATEGORY
FACILITY CLASS	FAC_CLASS
FACILITY HOLDING MATERIEL ITEM	FAC_HLD_MATI
FACILITY IMPROVEMENT ACTIVITY	FAC_IMPR_ACT
FACILITY INFRASTRUCTURE IMPROVEMENT	FAC_INFR_IMPR
FACILITY PARTITION	FAC_PARTITION
FACILITY POINT	FAC_PT
FACILITY TELECOMMUNICATION REQUIREMENT	FAC_TELECM_REQ
FACILITY TELECOMMUNICATIONS IMPROVEMENT CATEGORY	FAC_TLC_IMPR_CAT
FACILITY TELECOMMUNICATIONS INFRASTRUCTURE IMPROVEMENT	FAC_TLC_INFRA_IMPR
FACILITY TYPE	FAC_TY
FACILITY TYPE NODE ICON	FAC_TY_NODE_ICON
FACILITY USE	FAC_USE
FAN AREA	FAN_AREA
FEATURE	FEA
FEATURE ASSOCIATION	FEA_ASSOC
FEATURE DOCUMENT	FEA_DOC
FEATURE LOCATION	FEA_LOC
FUNCTIONAL AREA	FUNCTIONAL_AREA
FUNCTIONAL PROCESS FUNCTION	FPA_FUNCTION
FUNCTIONAL SPECIFICATION	FUNC_SPEC
GEOMETRIC SPATIAL ELEMENT	GEOMETRIC_SPAT_ELM
GEOMETRIC SURFACE	GEOMETRIC_SURF

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GEOMETRIC SURFACE REGION	GEOMETRIC_SURF_RGN
GEOMETRIC SURFACE REGION BOUNDING LINE	GEOMSURF_RGNBDNGLN
GEOMETRIC VOLUME	GEOMETRIC_VOL
GEOMETRIC VOLUME SURFACE	GEOMETRIC_VOL_SURF
GRAPHIC	GRAPHIC
GUIDANCE	GUIDANCE
GUIDANCE ASSOCIATION	GUID_ASSOC
GUIDANCE DOCUMENT	GUID_DOC
GUIDANCE OPERATIONAL SCENARIO	GUID_OP_SCEN
HAND RECEIPT	HAND_RECEIPT
HUMAN BEHAVIOR TASK	HUMAN_BEHAV_TSK
ICON CATALOG	ICON_CAT
ICON CATALOG ASSOCIATION	ICON_CAT_ASSN
ICON CATALOG INSPECTOR	ICON_CAT_INSP
ICON DATA CATEGORY	ICON_DATA_CAT
ICON DATA REQUIREMENT	ICON_DATA_REQ
IDENTIFICATION FRIEND FOE	ID_FRIEND_FOE
IMPLEMENTATION TIME FRAME	IMPL_TIMEFRAME
INFLATION FACTOR	INFL_FACTOR
INFORMATION ASSET	INFO_ASSET
INFORMATION ASSET AGREEMENT	INFO_ASSET_AGR
INFORMATION ASSET DOCUMENT	INFO_ASSET_DOC
INFORMATION ASSET GUIDANCE	INFO_ASSET_GUID
INFORMATION ASSET INFORMATION ELEMENT	INFO_ASSET_INFO_EL
INFORMATION ASSET RELATION	INFO_ASSET_RELTN

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INFORMATION ELEMENT	INFO_ELEM
INFORMATION ELEMENT ASSOCIATION	INFO_ELEM_ASSOC
INFORMATION ELEMENT DATA DICTIONARY ELEMENT	INFO_ELEM_DAT_DICT
INFORMATION ELEMENT DOCUMENT	INFO_ELEM_DOC
INFORMATION EXCHANGE MATRIX {OV 3; SV 6}	INFO_EXCH_MATRX
INFORMATION EXCHANGE MATRIX ELEMENT	INFO_EXCH_MATRX_EL
INFORMATION EXCHANGE MATRIX ELEMENT AGREEMENT	INFO_EX_MAT_EL_AGR
INFORMATION EXCHANGE MATRIX ELEMENT ASSOCIATION	INFO_EX_MAT_EL_ASC
INFORMATION EXCHANGE MATRIX ELEMENT GUIDANCE	INFO_EX_MAT_EL_GD
INFORMATION EXCHANGE MATRIX ELEMENT SYSTEM FUNCTION	INFO_EX_MAT_EL_SF
INFORMATION EXCHANGE MATRIX ELEMENT TASK	INFO_EX_MAT_EL_TSK
INFORMATION EXCHANGE MATRIX ELEMENT TECHNICAL INTERFACE	INFO_EX_MAT_EL_TI
INFORMATION EXCHANGE MATRIX OPERATIONAL MISSION THREAD	IEM_OP_MSN_THRD
INFORMATION EXCHANGE REQUIREMENT	IER
INFORMATION EXCHANGE REQUIREMENT ASSURANCE	IER_ASSURANCE
INFORMATION EXCHANGE REQUIREMENT ELEMENT	IER_ELEMENT
INFORMATION EXCHANGE REQUIREMENT ELEMENT DEPLOYMENT MISSION TYPE	IER_ELEM_DEPL_MSNT
INFORMATION EXCHANGE REQUIREMENT ELEMENT DEPLOYMENT PHASE	IER_ELEM_DEPL_PH
INFORMATION EXCHANGE REQUIREMENT	IER_ELEMENT_METH

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ELEMENT METHOD	
INFORMATION EXCHANGE REQUIREMENT ELEMENT PRODUCT	IER_ELEMENT_PROD
INFORMATION EXCHANGE REQUIREMENT FAILURE IMPACT DETAIL	IER_FAIL_IMPCT_DTL
INFORMATION EXCHANGE REQUIREMENT TRIGGER	IER_TRIGGER
INFORMATION EXCHANGE REQUIREMENT TRIGGER OPERATIONAL RULE	IER_TRIGGER_OPRULE
INFORMATION LINK	INFO_LINK
INFORMATION PROCESSING SYSTEM	INFO_PROC_SYSTEM
INFORMATION REQUIREMENT	INFO_REQ
INFORMATION REQUIREMENT DATA ITEM TYPE	INF_REQ_DAT_ITM_TY
INFORMATION SYSTEM	INFO_SYS
INFORMATION SYSTEM SYSTEM PLATFORM	INFO_SYS_SYS_PLT
INFORMATION TECHNOLOGY REGISTRATION	IT_REGIS
INFORMATION TECHNOLOGY REQUIREMENT	IT_REQ
INFORMATION TECHNOLOGY REQUIREMENT COMMUNICATION MEDIUM	IT_REQ_COMM_MEDIUM
INFORMATION TECHNOLOGY REQUIREMENT FUNCTIONAL AREA	IT_REQ_FUNC_AREA
INFORMATION TECHNOLOGY REQUIREMENT INFORMATION ASSET	IT_REQ_INFO_ASSET
INFORMATION TECHNOLOGY REQUIREMENT MATERIEL ITEM	IT_REQ_MAT_ITEM
INFORMATION TECHNOLOGY REQUIREMENT MISSION AREA	IT_REQ_MSN_AREA
INFORMATION TECHNOLOGY REQUIREMENT NETWORK NODE	IT_REQ_NTWK_NODE

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INFORMATION TECHNOLOGY REQUIREMENT SYSTEM	IT_REQ_SYS
INFORMATION TECHNOLOGY REQUIREMENT TASK	IT_REQ_TASK
INFORMATION TECHNOLOGY STANDARD	IT_STD
INFORMATION TECHNOLOGY STANDARD CATEGORY	IT_STD_CAT
INFORMATION TECHNOLOGY STANDARD COST MANAGEMENT	IT_STD_COST_MGMNT
INFORMATION TECHNOLOGY STANDARD OPTION	STD_OPTION
INFORMATION TECHNOLOGY STANDARD PARAMETER	STD_PARAMETER
INFORMATION TECHNOLOGY STANDARD PROFILE	IT_STD_PROFILE
INFORMATION TECHNOLOGY STANDARD TECHNICAL SERVICE	IT_STD_TECH_SVC
INFORMATION TECHNOLOGY STANDARD TECHNICAL SERVICE AREA	IT_STD_TECH_SVC_AR
INTERFACE CONTROL DOCUMENT	IF_CONTROL_DOC
INTERNAL DATA FIELD	INTRNL_DATA_FIELD
INTERNAL DATA MODEL	INTRNL_DATA_MDL
INTERNAL DATA MODEL TYPE	INTRNL_DATA_MDL_TY
INTERNAL RECORD	INTRNL_RECORD
INTERNET ADDRESS	INTNT_ADRS
INTERNET ADDRESS ASSOCIATION	INTNT_ADRS_ASSOC
INTEROPERABILITY DOCUMENT TYPE	INTEROP_DOC_TY
JOINT PUBLICATION	JOINT_PUB
LANGUAGE	LANG
LINE	LINE
LINE OF BUSINESS	LINE_OF_BUSINESS

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LINE POINT	LINE_PT
LINK ICON	LINK_ICON
LOCATION	LOC
LOGICAL DATA MODEL {OV 7}	LOG_DATA_MDL
MANHOLE	MANHOLE
MATERIEL	MATERIEL
MATERIEL ASSOCIATION	MAT_ASSOC
MATERIEL CUSTODY	MAT_CUSTODY
MATERIEL FIELDING	MAT_FIELDING
MATERIEL HOLDING MATERIEL ITEM	MAT_HLD_MATI
MATERIEL ITEM	MATERIEL_ITEM
MATERIEL ITEM ASSOCIATION	MAT_ITM ASSO
MATERIEL ITEM CAPABILITY NORM	MATI_CAP_NORM
MATERIEL ITEM COST	MAT_ITEM_COST
MATERIEL ITEM DOCUMENT	MATI_DOCUMENT
MATERIEL ITEM ESTABLISHMENT	MAT_ITEM_ESTB
MATERIEL ITEM ESTABLISHMENT MATERIEL ITEM DETAIL	MATI_ESTB_MATI_DTL
MATERIEL LOCATOR	MAT_LOCATOR
MATERIEL MATERIEL ITEM ESTABLISHMENT MATERIEL ITEM DETAIL	MAT_MATIE_MATID
MATERIEL ORGANIZATION	MAT_ORG
MATERIEL ORGANIZATION TYPE ESTABLISHMENT MATERIEL ITEM DETAIL	MAT_ORGTE_MATID
MEASURE UNIT	MSR_UN
MEASURED ELEVATION POINT	MEAS_ELEV_PT
MESSAGE STANDARD	MSG_STD
MESSAGE STANDARD INFORMATION	MSG_STD_IE

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ELEMENT	
MESSAGE STANDARD POINT OF CONTACT	MSG_STD_POC
MILITARY PLATFORM	MIL_PLTFRM
MILITARY PLATFORM ASSOCIATION	MIL_PLTFRM_ASSOC
MILITARY PLATFORM COMMUNICATION SYSTEM	MIL_PLTFRM_COMMSYS
MILITARY PLATFORM SENSOR SYSTEM	MIL_PLTFRM_SNS_SYS
MILITARY PLATFORM WEAPON SYSTEM	MIL_PLTFRM_WPN_SYS
MILITARY TELECOMMUNICATION USE	MIL_TELECM_USE
MILITARY UNIT LEVEL	MIL_UN_LVL
MISSION	MSN
MISSION AREA	MSN_AREA
MISSION AREA FUNCTIONAL AREA	MSN_AR_FUNCT_AR
MISSION AREA MISSION	MSN_AREA_MSN
MISSION AREA PROCESS ACTIVITY	MSN_AR_PROC_ACTV
MISSION ASSOCIATION	MSN_ASSOC
MISSION ESSENTIAL TASK	MSN_ESSNTL_TSK
MISSION ESSENTIAL TASK LIST	MSN_ESS_TASK_LST
MISSION ESSENTIAL TASK LIST ELEMENT	MSN_ESS_TASK_LSTEL
MISSION ESSENTIAL TASK STANDARD	MSN_ESS_TASK_STD
MISSION FUNCTIONAL AREA	MSN_FUNCT_AREA
MISSION GUIDANCE	MSN_GUID
MISSION MILITARY PLATFORM	MSN_MIL_PLAT
MISSION MILITARY PLATFORM CAPABILITY	MSN_MIL_PLT_CAP
MISSION MILITARY PLATFORM SENSOR SYSTEM	MSN_MIL_PLT_SNSY
MISSION MILITARY PLATFORM SENSOR SYSTEM CAPABILITY	MSN_MIL_PLT_SNSYCP

A Brief Introduction to the DoDAF CADM-AP233 Mappings

MISSION ORGANIZATION	MSN_ORG
MISSION TASK	MSN_TSK
MISSION TASK OPERATIONAL CONDITION	MSN_TASK_COND
MODELING AND SIMULATION COMMENT	MS_COMMENT
MODELING AND SIMULATION JUSTIFICATION	MS_JUST
NESTING PROCESS STATE	NESTG_PROC_STATE
NETWORK	NTWK
NETWORK ARCHITECTURE DOCUMENT	NTWK_ARCH_DOC
NETWORK ASSOCIATION	NTWK_ASSOC
NETWORK CAPABILITY	NTWK_CAP
NETWORK COMMUNICATION MEDIUM	NTWK_COMM_MED
NETWORK CONTROLLER TYPE	NTWK_CTRLLR_TYPE
NETWORK DEMARCATION POINT	NTWK_DEMARCTN_PT
NETWORK DETAIL	NTWK_DETAIL
NETWORK DEVICE MATERIEL	NTWK_DEV_MAT
NETWORK DEVICE MATERIEL INFORMATION TECHNOLOGY STANDARD	NTWK_DVM_IT_STD
NETWORK DEVICE MATERIEL INTERNET ADDRESS	NTWK_DVM_INTN_ADRS
NETWORK DEVICE MATERIEL WORKSTATION	NTWK_DVM_WKSTN
NETWORK DEVICE MATERIEL WORKSTATION SOFTWARE ITEM	NTWK_DVM_WS_SWI
NETWORK DOCUMENT	NTWK_DOC
NETWORK ECHELON	NTWK_ECH
NETWORK INFORMATION TECHNOLOGY STANDARD	NTWK_IT_STD
NETWORK INTERNET ADDRESSING	NTWK_INTNT_ADRSG

A Brief Introduction to the DoDAF CADM-AP233 Mappings

NETWORK NODE	NTWK_NODE
NETWORK ORGANIZATION	NTWK_ORG
NETWORK ORGANIZATION TYPE ESTABLISHMENT MATERIEL ITEM DETAIL	NTWK_OT_EST_MI_DTL
NETWORK PATH	NTWK_PATH
NETWORK PATH LINK	NTWK_PATH_LINK
NETWORK SYSTEM	NTWK_SYSTEM
NETWORK TECHNOLOGY FORECAST	NTWK_TECH_FRCST
NETWORK TYPE	NTWK_TYPE
NETWORK TYPE NODE ICON	NTWK_TY_NODE_ICON
NODE	NODE
NODE ACTIVITY MODEL INFORMATION ELEMENT ROLE	NODE_ACT_INFO_ELEM
NODE ACTIVITY MODEL THREAD	NODE_ACTV_MDL_THRD
NODE ASSOCIATION	NODE_ASSOC
NODE ASSOCIATION DOCUMENT	NODE_ASSOC_DOC
NODE ASSOCIATION INFORMATION TECHNOLOGY REQUIREMENT	NODE_ASSOC_IT_REQ
NODE ASSOCIATION NETWORK	NODE_ASSOC_NTWK
NODE ASSOCIATION SYSTEM ASSOCIATION	NODE_ASSOC_SYS_ASS
NODE ASSOCIATION SYSTEM ASSOCIATION DOCUMENT	NODE_AS_SYS_AS_DOC
NODE COMMUNICATION MEDIUM	NODE_COMM_MEDIUM
NODE CONNECTIVITY DESCRIPTION {OV 2}	NODE_CONN_DESCR
NODE CONNECTIVITY DESCRIPTION ELEMENT	NODE_CONN_DESCR_EL
NODE DATA ITEM TYPE	NODE_DAT_ITM_TY
NODE DETAIL	NODE_DETAIL
NODE DETAIL NODE ORGANIZATION TYPE	NODE_DTL_NODE_ORGT

A Brief Introduction to the DoDAF CADM-AP233 Mappings

NODE FACILITY	NODE_FAC
NODE HIERARCHY	NODE_HIERARCHY
NODE ICON	NODE_ICON
NODE INFORMATION ASSET	NODE_INFO_ASSET
NODE INTERNET ADDRESS	NODE_INTNT_ADRS
NODE LINK	NODE_LINK
NODE LINK ASSOCIATION	NODE_LINK_ASSOC
NODE LINK CAPABILITY	NODE_LINK_CAP
NODE LINK COMMUNICATION MEDIUM	NODE_LINK_COMM_MED
NODE LINK COMMUNICATION ROUTE SEGMENT	ND_LNK_COMM_RT_SEG
NODE LINK INFORMATION TECHNOLOGY STANDARD	NODE_LINK_IT_STD
NODE LINK TECHNOLOGY FORECAST	NODE_LINK_TCH_FCST
NODE MATERIEL	NODE_MATERIEL
NODE MILITARY PLATFORM	NODE_MIL_PLTFRM
NODE MISSION AREA	NODE_MISSION_AREA
NODE OPERATIONAL ROLE	NODE_OPER_ROLE
NODE OPERATIONAL ROLE HUMAN BEHAVIOR TASK	NODE_OPRL_HUMBETSK
NODE ORGANIZATION	NODE_ORG
NODE ORGANIZATION TYPE	NODE_ORG_TYPE
NODE PORT	NODE_PORT
NODE PROCESS ACTIVITY	NODE_PROCESS_ACT
NODE SUPPORT	NODE_SPRT
NODE SYSTEM	NODE_SYSTEM
NODE SYSTEM ASSET OWNERSHIP	NODE_SYS_ASSET_OWN
NODE SYSTEM ASSOCIATION	NODE_SYS_ASSOC

A Brief Introduction to the DoDAF CADM-AP233 Mappings

NODE SYSTEM COST MANAGEMENT	NODE_SYS_COST_MAN
NODE SYSTEM SOFTWARE ITEM	NODE_SYS_SWI
NODE SYSTEM TRANSMISSION	NODE_SYS_TRANSM
NODE TASK	NODE_TASK
NODE TREE	NODE_TREE
NODE TREE NODE HIERARCHY	NODE_TRE_NODE_HIER
NONSTANDARD DATA ELEMENT	NONSTD_DATA_ELEM
NONSTANDARD DATA ELEMENT STANDARD DATA ELEMENT RELATION	NDE_SDE_RELATION
OCCUPATION	OCCUP
OPERATIONAL ARCHITECTURE	OP_ARCH
OPERATIONAL CAPABILITY TASK	OP_CAPAB_TSK
OPERATIONAL CONDITION	OP_CONDITION
OPERATIONAL CONDITION ASSOCIATION	OP_CONDITION_ASSOC
OPERATIONAL CONDITION DESCRIPTOR	OP_COND_DESCRIPTOR
OPERATIONAL DEPLOYMENT MISSION TYPE	OP_DEPL_MSN_TYPE
OPERATIONAL DEPLOYMENT PHASE	OP_DEPL_PHASE
OPERATIONAL ELEMENT	OE
OPERATIONAL FACILITY	OPFAC
OPERATIONAL FACILITY ECHELON	OPFAC_ECH
OPERATIONAL FACILITY PROPONENT	OPFAC_PROP
OPERATIONAL MISSION THREAD	OP_MSN_THREAD
OPERATIONAL MISSION THREAD CAPABILITY	OP_MSN_THREAD_CAP
OPERATIONAL MISSION THREAD ELEMENT	OP_MSN_THREAD_ELEM
OPERATIONAL NETWORK NODE	OP_NTWK_NODE
OPERATIONAL ROLE	OP_ROLE

A Brief Introduction to the DoDAF CADM-AP233 Mappings

OPERATIONAL ROLE PROCESS ACTIVITY	OP_ROLE_PROC_ACTV
OPERATIONAL RULE	OP_RULE
OPERATIONAL SCENARIO	OP_SCENARIO
OPERATIONAL SCENARIO MISSION	OP_SCEN_MSN
OPERATIONAL SCENARIO OPERATIONAL CONDITION	OP_SCEN_COND
ORGANIZATION	ORG
ORGANIZATION AGREEMENT	ORG_AGR
ORGANIZATION ARCHITECTURE DETAIL	ORG_ARCH_DETAIL
ORGANIZATION ASSOCIATION	ORG_ASSOC
ORGANIZATION CAPABILITY ESTIMATE	ORG_CAP_EST
ORGANIZATION DOCUMENT	ORG_DOC
ORGANIZATION FACILITY	ORG_FAC
ORGANIZATION GUIDANCE	ORG_GUID
ORGANIZATION HOLDING MATERIEL ITEM	ORG_HLD_MATI
ORGANIZATION HOLDING ORGANIZATION TYPE	ORG_HLD_ORGT
ORGANIZATION MISSION AREA	ORG_MSN_AREA
ORGANIZATION OPERATIONAL ROLE	ORG_OP_ROLE
ORGANIZATION ORGANIZATION TYPE ESTABLISHMENT	ORG_ORGT_ESTB
ORGANIZATION POINT	ORG_PT
ORGANIZATION PROCESS ACTIVITY	ORG_PROC_ACTVTY
ORGANIZATION TYPE	ORG_TY
ORGANIZATION TYPE ASSIGNED MATERIEL ITEM DETAIL	OPFAC_ASG_MATI_DTL
ORGANIZATION TYPE ASSOCIATION	ORG_TY_ASSOC
ORGANIZATION TYPE CAPABILITY NORM	ORGT_CAPAB_NORM

A Brief Introduction to the DoDAF CADM-AP233 Mappings

ORGANIZATION TYPE DOCUMENT	ORGT_DOC
ORGANIZATION TYPE ESTABLISHMENT	ORGT_ESTB
ORGANIZATION TYPE ESTABLISHMENT CROSS REFERENCE ASSOCIATION	ORGT_ESTB_XREF_ASC
ORGANIZATION TYPE ESTABLISHMENT FORCE STRUCTURE	ORGTE_FOR_STRUC
ORGANIZATION TYPE ESTABLISHMENT MATERIEL ITEM DETAIL	ORGT_ESTB_MATI_DTL
ORGANIZATION TYPE ESTABLISHMENT ORGANIZATION TYPE DETAIL	ORGT_ESTB_ORGT_DTL
ORGANIZATION TYPE ESTABLISHMENT ORGANIZATION TYPE DETAIL ELEMENT	ORGTE_ORGTD_ELEM
ORGANIZATION TYPE ESTABLISHMENT PERSON TYPE DETAIL	ORGT_ESTB_PERT_DTL
ORGANIZATION TYPE ESTABLISHMENT POSITION DETAIL	ORGTE_POS_DTL
ORGANIZATION TYPE ESTABLISHMENT SYSTEM DETAIL	ORGT_ESTB_SYS_DTL
ORGANIZATION TYPE MISSION AREA	ORGT_MSN_AREA
ORGANIZATION TYPE NODE ICON	ORGT_NODE_ICON
ORGANIZATION TYPE OPERATIONAL ROLE	ORGT_OP_ROLE
ORGANIZATION TYPE ORGANIZATION	ORGT_ORG
ORGANIZATION TYPE PROCESS ACTIVITY	ORGT_PROC_ACTVTY
ORGANIZATIONAL RELATIONSHIP CHART {OV 4}	ORG_REL_CHART
ORGANIZATIONAL RELATIONSHIP CHART ELEMENT	ORG_REL_CHART_ELEM
PEDESTAL	PEDESTAL
PERIOD	PERIOD
PERSON TYPE	PER_TYP
PERSON TYPE CAPABILITY NORM	PER_TY_CAP_NORM

A Brief Introduction to the DoDAF CADM-AP233 Mappings

PHYSICAL SCHEMA SPECIFICATION {SV 11}	PHYS_SCHEMA_SPEC
PLAN	PLN
PLAN ASSOCIATION	PLN_ASSOC
PLAN DOCUMENT	PLAN_DOC
PLAN GUIDANCE	PLN_GUID
PLAN ORGANIZATION	PLN_ORG
PLANNED ACTION	PLND_ACT
PLATFORM APPLICATION SOFTWARE ELEMENT	PLAT_APPL_SOFTWARE
PLATFORM ELEMENT	PLATFORM_ELEMENT
PLATFORM TYPE NODE ICON	PLAT_TY_ND_ICON
POINT	POINT
POINT OF CONTACT	POINT_OF_CONTACT
POINT OF CONTACT ASSOCIATION	POC_ASSOC
POINT OF CONTACT TYPE	POC_TYPE
POSITION	POSN
PROCESS ACTIVITY	PROC_ACTVTY
PROCESS ACTIVITY ACTION	PROC_ACTVTY_ACTION
PROCESS ACTIVITY ASSOCIATION	PROC_ACTVTY_ASSOC
PROCESS ACTIVITY CAPABILITY	PROC_ACTVTY_CAP
PROCESS ACTIVITY DOCUMENT	PROC_ACTVTY_DOC
PROCESS ACTIVITY EXCHANGE REQUIREMENT	PROC_ACTV_EX_REQ
PROCESS ACTIVITY FUNCTIONAL PROCESS	FPA_PROCESS
PROCESS ACTIVITY INTERFACE THREAD	PRACT_IFTHRD
PROCESS ACTIVITY INTERFACE THREAD ELEMENT	PRACT_IFTHRD_EL
PROCESS ACTIVITY INTERFACE THREAD	PRACT_IFTHRD_ELASS

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ELEMENT ASSOCIATION	
PROCESS ACTIVITY TASK	PROC_ACTVTY_TSK
PROCESS EVENT	PROC_EVENT
PROCESS PSEUDO STATE	PROC_PSEUDO_STATE
PROCESS STATE	PROC_STATE
PROCESS STATE ACTION	PROC_STATE_ACT
PROCESS STATE VERTEX	PROC_STATE_VERTEX
PROJECT	PROJ
PROTOCOL STANDARD	PROTOCOL_STD
QUALITATIVE DATA DOMAIN	QUAL_DATA_DOMAIN
QUANTITATIVE DATA DOMAIN	QN_DAT_DOM
QUANTITATIVE DATA DOMAIN MEASUREMENT UNIT	QN_DAT_DOM_MSRUN
RADIO	RADIO
RADIO TYPE	RADIO_TYPE
RECORD TRACKING	RECORD_TRACKING
RECTANGLE AREA	RECTANGLE_AREA
REFERENCE MODEL	REF_MDL
REFERENCE MODEL SERVICE	REF_MDL_SVC
REFERENCE MODEL TECHNICAL SERVICE AREA	REF_MDL_TEC_SVC_AR
REGIONAL COST FACTOR	REGN_COST_FACTOR
REGULAR AREA	REG_AREA
RELATION TYPE	RELATION_TYPE
REQUIRED INFORMATION TECHNOLOGY CAPABILITY	REQ_IT_CAPAB
REQUIRED REFERENCE MODEL SERVICE	REQD_REF_MDL_SVC
ROOM	ROOM

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ROOM ASSOCIATION	ROOM_ASSOC
ROOM TYPE	ROOM_TYPE
ROUTER	ROUTER
RULE MODEL {OV 6a; SV 10a}	RUL_MDL
RULE MODEL OPERATIONAL RULE	RUL_MDL_OP_RUL
RULE MODEL OPERATIONAL RULE DATA ATTRIBUTE	RUL_MDL_OP_RUL_ATT
RULE MODEL OPERATIONAL RULE DATA ENTITY	RUL_MDL_OP_RUL_ENT
RULE MODEL OPERATIONAL RULE DATA ENTITY RELATIONSHIP	RUL_MDL_OPRUL_ENRL
RULE MODEL OPERATIONAL RULE INTERNAL RECORD	RUL_MDL_OPRUL_INRC
RULE MODEL OPERATIONAL RULE PROCESS ACTIVITY	RUL_MDL_OP_RUL_PA
RULE MODEL OPERATIONAL RULE SYSTEM	RUL_MDL_OP_RUL_SYS
SATELLITE	SAT
SATELLITE ANTENNA TYPE	SAT_ANTENNA_TYPE
SATELLITE ASSOCIATION	SAT_ASSOC
SECURITY ACCESS COMPARTMENT	SCTY_ACCESS_CMPRT
SECURITY CLASSIFICATION	SCTY_CLASS
SENSOR SYSTEM	SENSOR_SYS
SHIP	SHIP
SHIP TYPE	SHIP_TYPE
SIGNAL EVENT	SIGNAL_EVENT
SKILL	SKILL
SOFTWARE	SW
SOFTWARE APPLICATION	SW_APPL
SOFTWARE APPLICATION PROCEDURE	SW_APPL_PROC

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SOFTWARE APPLICATION PROCEDURE PROCESS ACTIVITY	SW_APPL_PROC_PA
SOFTWARE ITEM	SW_ITEM
SOFTWARE ITEM ASSOCIATION	SW_ITEM_ASSOC
SOFTWARE ITEM INTERFACE	SW_ITEM_IF
SOFTWARE ITEM INTERFACE MATRIX	SW_ITEM_IF_MTRX
SOFTWARE ITEM INTERFACE MATRIX ELEMENT	SW_ITEM_IF_MTRXEL
SOFTWARE ITEM NODE ICON	SW_ITEM_ND_ICON
SOFTWARE ITEM ORGANIZATION TYPE ESTABLISHMENT MATERIEL ITEM DETAIL	SW_ITEM_OTE_MID
SOFTWARE ITEM REFERENCE MODEL SERVICE	SW_ITEM_RM_SVC
SOFTWARE ITEM USE	SW_ITEM_USE
SOFTWARE LICENSE	SW_LIC
SOFTWARE LICENSE MATERIEL	SW_LIC_MAT
SOFTWARE LICENSE USING ORGANIZATION	SW_LIC_ORG
SOFTWARE OBJECT	SW_OBJ
SOFTWARE SERIES	SW_SRS
SOFTWARE SERIES TYPE	SW_SRS_TYP
STANDARD DATA ELEMENT	STD_DATA_ELEM
STANDARD DATA ELEMENT SOFTWARE APPLICATION	STD_DATA_ELEM_APPL
STANDARD GENERIC ELEMENT	STD_GENERIC_ELEM
STANDARD PRIME WORD	STD_PRIME_WORD
STANDARD TRANSACTION	STD_TRANSACTION
STATE TRANSITION DESCRIPTION {OV 6b; SV 10b}	ST_TRANS_DESCR
STATE TRANSITION DESCRIPTION TRANSITION PROCESS	ST_TRANS_DSC_TR_PR

A Brief Introduction to the DoDAF CADM-AP233 Mappings

STRUCTURAL ASSERTION RULE	STR_ASSERTION_RULE
STRUCTURE FACILITY	STRUCT_FAC
SWITCH TYPE	SWITCH_TYPE
SYSTEM	SYSTEM
SYSTEM ARCHITECTURE	SYS_ARCH
SYSTEM ASSOCIATION	SYS_ASSOC
SYSTEM ASSOCIATION DIRECTED CONSTRAINT	SYS_ASSOC_CONSTRNT
SYSTEM ASSOCIATION DOCUMENT	SYS_ASSOC_DOC
SYSTEM ASSOCIATION MEANS	SYS_ASSOC_MEANS
SYSTEM ASSOCIATION MIGRATION	SYS_ASSOC_MIGRA
SYSTEM CAPABILITY	SYS_CAPABILITY
SYSTEM CAVEATED SECURITY CLASSIFICATION	SYS_CAV_SEC_CLASS
SYSTEM COMMUNICATION DESCRIPTION {SV 2}	SYS_COMM_DESCR
SYSTEM CRITERIA PROFILE	SYS_CRIT_PROF
SYSTEM DETAIL	SYS_DETAIL
SYSTEM DETAIL INTEROPERABILITY DOCUMENT	SYS_DTL_INTROP_DOC
SYSTEM DETAIL NODE TYPE	SYS_DETAIL_NODE_TY
SYSTEM DETAIL POINT OF CONTACT	SYS_DETAIL_POC
SYSTEM DIRECTED CONSTRAINT	SYS_DIR_CONSTRAINT
SYSTEM DOCUMENT	SYSTEM_DOC
SYSTEM ELEMENT	SYS_ELEMENT
SYSTEM EQUIPMENT TYPE	SYS_EQUIP_TYPE
SYSTEM EVOLUTION DESCRIPTION {SV 8}	SYS_EVOL_DESCR
SYSTEM FUNCTION	SYS_FUNC

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SYSTEM FUNCTION TRACEABILITY MATRIX {SV 5}	SYS_FUNC_TRC_MTRX
SYSTEM FUNCTION TRACEABILITY MATRIX ELEMENT	SYS_FCTN_TRC_MTXEL
SYSTEM FUNCTIONALITY DESCRIPTION {SV 4}	SYS_FUNC_DESCR
SYSTEM IMPLEMENTATION TIME FRAME	SYS_IMPL_TIME_FR
SYSTEM INFORMATION ASSET	SYS_INFO_ASSET
SYSTEM INFORMATION TECHNOLOGY STANDARD	SYS_IT_STD
SYSTEM INTERFACE DESCRIPTION {SV 1}	SYS_IF_DESCR
SYSTEM INTERFACE DESCRIPTION ELEMENT	SYS_IF_DESCR_EL
SYSTEM MIGRATION EVOLUTION	SYS_MIGRA_EVOL
SYSTEM MISSION AREA	SYS_MSN_AREA
SYSTEM OPERATIONAL CAPABILITY TASK	SYS_OPER_CAPAB_TSK
SYSTEM ORGANIZATION	SYS_ORG
SYSTEM ORGANIZATION TYPE	SYS_ORG_TYPE
SYSTEM ORGANIZATION TYPE ESTABLISHMENT MATERIEL ITEM DETAIL	SYS_MATI_ORGT_ED
SYSTEM PERFORMANCE PARAMETER MATRIX {SV 7}	SYS_PERF_PAR_MTX
SYSTEM PERFORMANCE PARAMETER MATRIX ELEMENT	SYS_PERF_PAR_MTXEL
SYSTEM PLATFORM	SYS_PLAT
SYSTEM PROCESS ACTIVITY	SYS_PROC_ACT
SYSTEM PROCESS ACTIVITY STANDARD	SYS_PROC_ACT_STD
SYSTEM PROCUREMENT STATUS	SYS_PROC_STATUS
SYSTEM PROPONENT	SYS_PROPONENT
SYSTEM SATELLITE	SYS_SAT

A Brief Introduction to the DoDAF CADM-AP233 Mappings

SYSTEM SOFTWARE ITEM	SYS_SOFTWARE_ITEM
SYSTEM STATUS	SYS_STATUS
SYSTEM STATUS DEPENDENCY	SYS_STATUS_DEPEND
SYSTEM STATUS REQUIRED INFORMATION TECHNOLOGY CAPABILITY	SYS_STA_REQ_IT_CAP
SYSTEM STATUS TECHNICAL STANDARD PROFILE ELEMENT	SYS_STA_TECHS_PRFE
SYSTEM STATUS TECHNOLOGY FORECAST	SYS_STA_TECH_FCST
SYSTEM STATUS TYPE	SYS_STATUS_TY
SYSTEM STATUS TYPE SYSTEM	SYS_STATUS_TY_SYS
SYSTEM SYSTEM ARCHITECTURE	SYS_SYS_ARCH
SYSTEM SYSTEM MATRIX {SV 3}	SYS_SYS_MTRX
SYSTEM SYSTEM MATRIX ELEMENT	SYS_SYS_MTRX_EL
SYSTEM SYSTEM MATRIX ELEMENT DATA DOMAIN LIST VALUE	SYS_SYS_MATEL_DDLV
SYSTEM SYSTEM TYPE	SYS_SYS_TYPE
SYSTEM TECHNICAL INTERFACE TYPE	SYS_TECH_INTF_TY
SYSTEM TECHNOLOGY FORECAST {SV 9}	SYS_TECH_FCST
SYSTEM TECHNOLOGY FORECAST PROFILE	SYS_TECH_FCST_PRF
SYSTEM TRANSMISSION	SYS_TRANSM
SYSTEM TYPE	SYS_TYPE
SYSTEM TYPE ASSOCIATION	SYS_TYPE_ASSOC
SYSTEM USAGE	SYS_USAGE
TACTICAL OPERATION CENTER ORGANIZATION	TOC
TASK	TSK
TASK ASSOCIATION	TASK_ASSOCIATION
TASK MATERIEL ITEM	TASK_MATI

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TASK MEASURE	TASK_MEASURE
TASK MISSION AREA	TASK_MISSION_AREA
TECHNICAL ARCHITECTURE	TECH_ARCH
TECHNICAL ARCHITECTURE STANDARD	TECH_ARCH_STD
TECHNICAL CRITERIA DOCUMENT	TECH_CRIT_DOC
TECHNICAL CRITERION	TECH_CRIT
TECHNICAL CRITERION PROFILE	TECH_CRIT_PROF
TECHNICAL CRITERION PROFILE AGREEMENT	TECH_CRIT_PROF_AGR
TECHNICAL GUIDELINE	TECH_GUIDELINE
TECHNICAL GUIDELINE ELEMENT	TECH_GUIDLN_ELEM
TECHNICAL GUIDELINE ELEMENT INFORMATION TECHNOLOGY STANDARD	TECH_GUIDEL_IT_STD
TECHNICAL INTERFACE	TECH_INTF
TECHNICAL INTERFACE CAPABILITY	TECH_INTF_CAP
TECHNICAL INTERFACE INFORMATION TECHNOLOGY REQUIREMENT	TECH_INTF_IT_REQ
TECHNICAL INTERFACE NETWORK PATH	TECH_INTF_NTWK_PTH
TECHNICAL INTERFACE ORGANIZATION	TECH_INTF_ORG
TECHNICAL INTERFACE STANDARD TRANSACTION	TECH_INTF_STD_TRNS
TECHNICAL INTERFACE TYPE	TECH_INTF_TY
TECHNICAL SERVICE	TECH_SVC
TECHNICAL SERVICE AREA	TECH_SVC_AREA
TECHNICAL STANDARD FORECAST {TV 2}	TECH_STD_FORECAST
TECHNICAL STANDARD FORECAST ELEMENT	TECH_STD_FRECAST_EL
TECHNICAL STANDARD PROFILE {TV 1}	TECH_STD_PROF
TECHNICAL STANDARD PROFILE ELEMENT	TECH_STD_PROF_EL

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TECHNOLOGY	TECH
TECHNOLOGY ASSOCIATION	TECH_ASSOC
TECHNOLOGY CAPABILITY	TECH_CAP
TECHNOLOGY COUNTERMEASURE	TECH_CM
TECHNOLOGY FORECAST	TECH_FORECAST
TECHNOLOGY ISSUE	TECH_ISSUE
TELECOMMUNICATION DISTRIBUTION FACILITY	TELECOMM_DISTR_FAC
TELEPHONE ADDRESS	TLPHN_ADRS
TIME EVENT	TIME_EVENT
TRANSITION PROCESS	TRANS_PROC
TRANSITION PROCESS ASSOCIATION	TRANS_PROC_ASSOC
TRANSITION PROCESS RESULTING ACTION	TRANS_PROC_RES_ACT
UNIFORMED SERVICE ORGANIZATION	UNIF_SVC_ORG
UNIFORMED SERVICE ORGANIZATION COMPONENT TYPE	UNIF_SVC_ORG_CMPTY
UNIFORMED SERVICE RANK	UNIF_SVC_RANK
UNPLANNED ACTION	UNPLND_ACT
USER PRESENTATION VIEW	USR_PRS_VW
USER PRESENTATION VIEW FIELD	USR_PRS_VW_FIELD
USER PRESENTATION VIEW SYSTEM PLATFORM	USR_PRS_VW_SYSPLAT
UTILITY POLE	UTILITY_POLE
UTILITY SYSTEM	UTILITY_SYS
UTILITY SYSTEM NODE ICON	UTIL_SYS_NODE_ICON
WEAPON SYSTEM	WEAPON_SYSTEM

Table 1: CADM Concepts and CADM XML Element Names