



# **Facility Management Standard (FMSFIE)**

*for facilities, infrastructure, & environment*

## **FMSFIE Information Model**

Version 2.4  
Date – July 20, 2004

The CADD/GIS Technology Center  
*For facilities, infrastructure, and environment*  
Information Technology Laboratory  
U.S. Army Engineer Research and Development Center  
Vicksburg, Mississippi

## Background

Initial development of the FMSFIE began in 1997. An underlying criteria for development of the FMSFIE has been to provide integration with the CADD/GIS Technology Center's CADD (AEC CADD Standard) and GIS (SDSFIE) data standards. Several different strategies were evaluated for integration of the FMSFIE within the SDSFIE and A/E/C CADD Standard. It was determined that, initially, the FMSFIE would be incorporated within the SDSFIE data model (designated as FM Entity Classes within the appropriate SDSFIE Entity Sets). This stage of FMSFIE development focused on: (1) Development of "business" FM, "event," and temporal information (e.g., construction, operation, maintenance, repair, and inspection records) concerning the "real-world" features/objects depicted in the SDSFIE and Architectural, Engineering, and Construction (A/E/C)/CADD Standard, and (2) Development of the capability to link to and share data with "corporate" databases, computerized information management systems, computer maintenance management systems, and commercially available FM software.

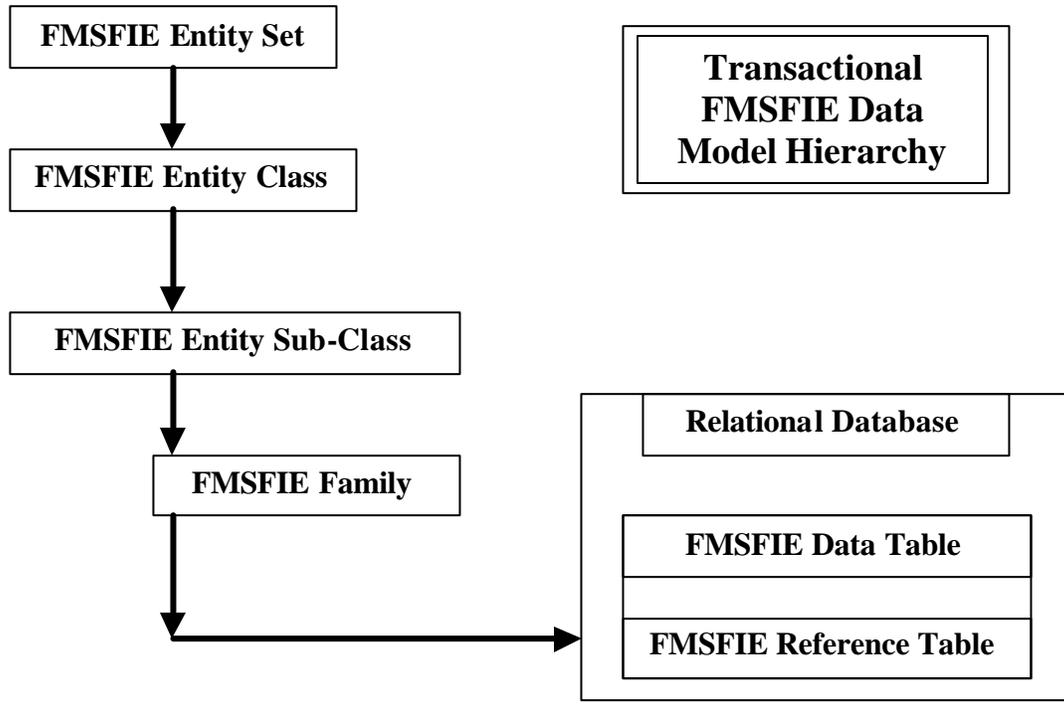
The first release of the FMSFIE (formerly called Tri-Service Facility Management Standards (TSFMS), and Facility Management Standards (FMS)) was published with Release 1.80 of the SDSFIE (formerly called Tri-Service Spatial Data Standards (TSSDS)) in February 1999.

In Fiscal Year 2000, the CADD/GIS Technology Center's Standards Working Group (SWG) and Corporate Staff (CS) approved a FMSFIE development Strategic Plan (<http://tsc.wes.army.mil/products/tssds-tsfms/fms/projects/fmsfiepr.htm>), which provided a framework and strategy for evolution of the FMSFIE to a more robust "transactional" data model closely integrated with the SDSFIE & A/E/C CADD Standard. Development of the "transactional" FMSFIE data model and standard began in Fiscal Year 2000, with an initial focus on Asset Management. Its first release was included in the FMSFIE Release 2.30, completed in October 2003.

The transactional FMSFIE defines a data model and data dictionary for facility management legal and Federal data reporting requirements encompassing the areas of asset management, work management, environmental management, public safety management, organization management, information security management, and financial management. In addition, the design of the FMSFIE will facilitate the sharing of data between various facility management (FM) information management systems (IMS) (e.g., Army Integrated Facilities System (IFS), Air Force Interim Work Information Management System (IWIMS), Air Force Automated Civil Engineer System (ACES), Navy Facility Assets Data Base (NFADB), Army Corps of Engineers Facilities and Maintenance System (FEM), and OSD RPES).

Like the SDSFIE, the transactional FMSFIE is being designed for implementation using commercially available relational database software (e.g., Oracle and SQL Server) and a Microsoft Windows Operating System (e.g., Windows 2000, XP, & NT). The FMSFIE is non-proprietary, thereby permitting other organizations, contractors, and vendors the ability to freely use the data schema and data dictionary, share FMSFIE compliant data with other organizations, and build applications based upon the FMSFIE data schema.

# **FMSFIE Data Model Hierarchy**




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**Organization**

**FMSFIE Entity Set** - Broad grouping of real property management responsibilities.

**FMSFIE Entity Class** – Sub-grouping of an Entity Set providing a grouping of similar real property classifications based on legal reporting requirements.

**FMSFIE Entity Sub-Class** – Sub-grouping of an Entity Class based on similar life-cycle event and temporal real property information.

**FMSFIE Entity Family** – A functional sub-group of the Entity Sub-Class corresponding to different business disciplines, or different perspectives in the way the data is structured below the Entity Sub-Class.

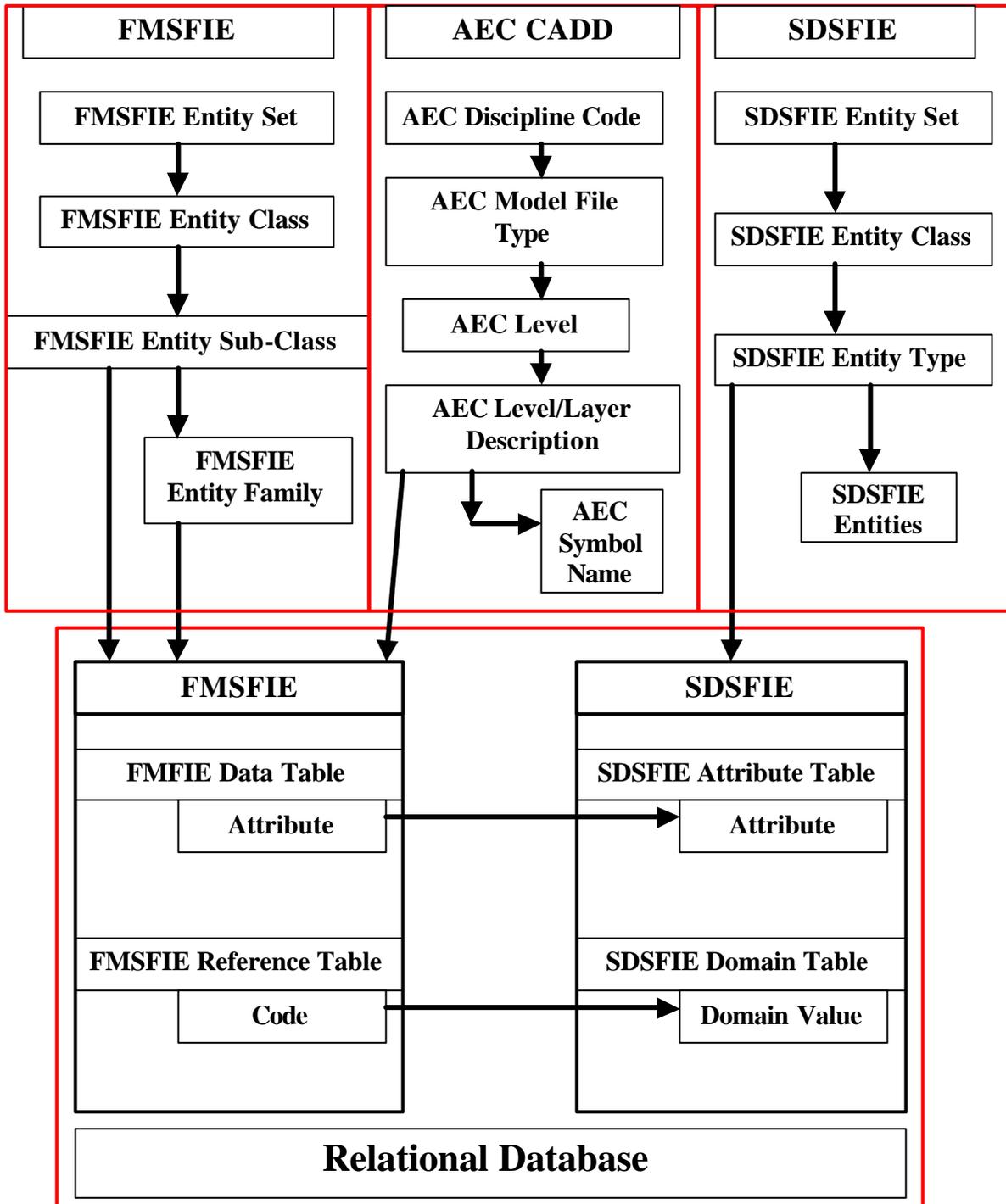
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**Database**

**Data Table** – Relational database table comprising a grouping of similar records. Also called an attribute table.

**Reference Table** – Relational database table containing a listing of valid, permissible, or reference values.

# CADD/GIS/FM Standards Development Data Model



## **FMSFIE Information Model**

## **FMSFIE Information Model Naming Convention Criteria**

- 1. Entity Set** – Broad grouping of real property management responsibilities.
  - a. Name – 32 characters
  - b. Abbreviation – 2 characters
  - c. Class Prefix – 12 characters
  - d. Common Name Prefix – 15 characters
  
- 2. Entity Class** – Sub-grouping of an Entity Set providing a grouping of similar real property classifications based on legal reporting requirements.
  - a. Name – 32 characters
  - b. Abbreviation – 3 characters
  
- 3. Entity Sub-Class** – Sub-grouping of an Entity Class based on similar life-cycle event and temporal real property information. In no functional sub-grouping applies to the entity class, a Sub-Class entitled “Base” (“bas”) will be assigned.
  - a. Name – 32 characters
  - b. Abbreviation – 3 characters
  
- 4. Entity Family** – A functional sub-group of the Sub-Class corresponding to different business disciplines, or different perspectives in the way the data is structured below the Entity Sub-Class. If no functional sub-group applies to the Entity Sub-Class, a Family of "None" ("non") will be assigned.
  - a. Name – 32 characters
  - b. Abbreviation – 3 characters

## **FMSFIE Information Model Code (IMC) Naming Convention Criteria**

The purpose of the FMSFIE Information Model Code (IMC) abbreviation is to permit a methodology for categorizing the Data and Reference tables by an appropriate Entity Set, Entity Class, Entity Sub-Class, and Entity Family grouping. FMSFIE software tools will be able to utilize the IMC abbreviation to permit users to view and build databases based upon the table groupings most applicable to their specific applications.

### **1. Entity Set –**

- a. Abbreviation – 2 characters
- b. Information Model Code Prefix – 2 characters (Entity Set Abbreviation)

### **2. Entity Class –**

- a. Abbreviation – 3 characters
  - b. Information Model Code Prefix – 5 characters
- (Entity Set Abbreviation + Entity Class Abbreviation)

### **3. Entity Sub-Class –**

- a. Abbreviation – 3 characters
  - b. Information Model Code Prefix – 8 characters
- (Entity Set Abbreviation + Entity Class Abbreviation + Entity Sub -Class Abbreviation)

### **4. Entity Family –**

- a. Abbreviation – 3 characters
  - b. Information Model Code Prefix – 11 characters
- (Entity Set Abbreviation + Entity Class Abbreviation + Entity Sub -Class Abbreviation + Family Abbreviation)

## IMC Organizational Criteria

1. Tables (Entities) whose implementation crosses not only multiple Entity Classes, but, potentially multiple Entity Sets are represented by a **“core”** (“cor”) Entity Class designation, and a **“base”** (“bas”) Entity Sub-Class designation. These table (entities) are NOT separately modeled but may be referenced from any of the Facility Management Standard Entity Sets.
2. Tables (Entities) with an Entity Class name of **"core"** and an Entity Sub-Class name of **"base"** are subcategorized into two **"Entity Families"**. These are "reference" ("ref"), which includes those entities containing discrete domain values referenced from multiple attributes, and "generic" ("gen") which contain entities with data common throughout the FMSFIE Standard model.
3. Reference Tables will be designated within the most appropriate Entity Class, Entity Subclass, & Entity Family.

Example:

- Entity Set – Assets
- Table Name – Space Type Reference
- Entity Class – Facility
- Entity Subclass – Building
- Family - Space

## **FMSFIE Entity Sets**

## FMSFIE Entity Sets

**FMSFIE Entity Sets** – Seven Entity Sets are currently established:

- Asset Management
- Environmental Management
- Work Management
- Financial Management
- Public Safety Management
- Organization Management
- Information Security Management

**1. Asset Management** – Items comprising the federal real property inventory and other related entities based on classification and need to support organizational requirements. Includes: (1) Tangible items comprising the federal real property inventory that can be referenced by location, and (2) Non-tangible items that cannot always be defined by a location, or do not exist as an inventory item in the real property management inventory.

**2. Environmental Management** – Defines the stewardship responsibilities as they relate to the federal real property environmental management practices.

**3. Work Management** – Change management processes that consist of planning, programming, acquisition, operations, maintenance, revitalization, evaluation, and disposal actions affecting real property and other related entities.

**4. Financial Management** – Planning, programming, and execution of appropriations associated with real property management.

**5. Public Safety Management** – Issues related to the protection of personnel and property.

**6. Organization Management** – A structured grouping of personnel and the roles they perform as it relates to an integrated work environment.

**7. Information Security Management** – Controlled access to data and information as it relates to the roles of personnel.

# **Asset Management**

## **Entity Set**

## Asset Management Entity Set

**Definition** – The Asset Management Entity Set comprises items comprising the federal real property inventory and other related entities based on classification and need to support organizational requirements. Includes: (1) Tangible items comprising the federal real property inventory that can be referenced by location, and (2) Non -tangible items that cannot always be defined by a location, or do not exist as an inventory item in the real property management inventory.

**Name** – Assets

**Class Prefix** – assets

**Common Name Prefix** – Assets

**Information Model Code Prefix** - am

### Asset Management - Entity Classes

Six Entity Classes are currently established:

<b>Asset Management Entity Classes</b>			
<b>Entity Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Core</b>	cor	amcor	Common and parent tables for the Asset Entity Set.
<b>Facility</b>	fac	amfac	Inventory of tangible real property improvements, e.g., buildings, structures, and utilities. Comprises Department of Defense (DoD) Real Property Class 2.
<b>Equipment</b>	equ	amequ	Inventory of personal property and plant equipment. Comprises DoD Real Property Classes 3 & 4.
<b>Land</b>	lan	amlan	Inventory of tangible real property associated with land. DoD Real Property Class 1.
<b>Non-Tangible</b>	nta	amnta	Inventory of items which cannot always be defined by a location, or do not exist as an inventory item in real property management.
<b>Transportation</b>	tra	amtra	Inventory of transportation equipment.

## Asset Management - Entity Sub-Classes

### 1. Entity Class – Core – 1 Entity Sub-Class is currently established:

<b>Core Entity Class – Sub-Classes</b>			
Entity Sub-Class Name	Abbreviation	IMC	Definition
<b>Base</b>	bas	amcorbas	Common and parent tables for Asset Entity Set, Core Entity Class.

### 2. Entity Class – Facility – 4 Entity Sub-Classes have been established:

<b>Facility Entity Class – Sub-Classes</b>			
Entity Sub-Class Name	Abbreviation	IMC	Definition
<b>Base</b>	bas	amfacbas	Common and parent tables for Asset Entity Set, Facility Entity Class.
<b>Building</b>	blg	amfacblg	Inventory of tangible real property improvements, which comprise the components of a building (Includes utilities and built-in equipment located within a building) (DoD Real Property Class 2).
<b>Utility</b>	utl	amfacutl	Inventory of tangible real property improvements, which comprise the components of a utility (Includes utilities located exterior of buildings) (DoD Real Property Class 2).
<b>Structure</b>	str	amfacstr	Inventory of tangible real property ground improvements structures not associated with a building or utility (DoD Real Property Class 2).

### 3. Entity Class – Equipment – 4 Entity Sub-Classes have been established:

<b>Equipment Entity Class - Sub-Classes</b>			
Entity Sub-Class Name	Abbreviation	IMC	Definition
<b>Base</b>	bas	amequbas	Common and parent tables for Asset Entity Set, Equipment Entity Class.
<b>Industrial</b>	ind	amequind	Inventory of fixed and large industrial plant equipment (DoD Real Property Class 4).
<b>Minor Property</b>	mpr	amequmpr	Inventory of minor equipment (cost < \$5,000) (DoD Real Property Class 3).
<b>Personal</b>	per	amequper	Inventory of personal equipment (DoD Real Property Class 3).

**4. Entity Class – Land – 6 Entity Sub-Classes have been established:**

<b>Land Entity Class – Sub-Classes</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	amlanbas	Common and parent tables for Asset Entity Set, Land Entity Class.
<b>Improved</b>	imp	amlanimp	Land on which buildings, structures, or other improvements are located, or which has been prepared for a specific use (e.g., golf courses).
<b>Semi-Improved</b>	sim	amlansim	Land which has undergone some preparation for one or more uses (e.g., walking trails).
<b>Unimproved</b>	uim	amlanuim	Land which remains in its natural state.
<b>Easement</b>	eas	amlaneas	A nonprofitable interest in land owned by another that entitles its holder to a specific limited use or enjoyment.
<b>Other</b>	oth	amlanoth	Land which does not conform to the improved, semi-improved, unimproved, or easement category.

**5. Entity Class – Transportation – 4 Entity Sub-Classes have been established:**

<b>Transportation Entity Class – Sub-Classes</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	amtrabas	Common and parent tables for Asset Entity Set, Transportation Entity Class.
<b>Material Handling Equipment</b>	mhe	amtramhe	Equipment whose purpose is earthwork, or moving construction material.
<b>Vehicles</b>	veh	amtraveh	Automobiles, trucks, and other types of vehicles.
<b>Weight Handling Equipment</b>	whe	amtrawhe	Equipment whose purpose is moving heavy items from one location to another.

**6. Entity Class – Non-Tangible – 3 Entity Sub-Classes have been established:**

<b>Non-Tangible Entity Class – Sub-Classes</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	amntabas	Common and parent tables for Asset Entity Set, Non-Tangible Entity Class.
<b>Proposed Leases</b>	ple	amntaple	Leases, which are conceptual in nature, or proposed for implementation some time in the future.
<b>Proposed Assets</b>	pas	amntapas	Physical improvements which are conceptual in nature, or proposed for construction or installation at some time in the future.

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## **Asset Management - Entity Families**

**1. Core Entity Class, Base Subclass – 1 Family is currently established:**

<b>Core Entity Class – Base Sub-Class - Families</b>			
<b>Family Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Reference</b>	ref	amcorbasref	Reference (Domain) Tables for Asset Management Entity Set, Core Entity Class, Base Sub-Class.
<b>Generic</b>	Gen	amcorbasgen	Tables applicable to more than one FMSFIE Entity Class and/or Entity Subclass.

**2. Facility Entity Class, Building Subclass – 9 Families are currently established:**

<b>Facility Entity Class – Building Sub-Class - Families</b>			
<b>Family Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Architectural</b>	arc	amfacblgarc	Inventory of tangible real property improvements associated with building architectural aspects.
<b>Structural</b>	str	amfacblgstr	Inventory of tangible real property improvements associated with building structural aspects.
<b>Mechanical</b>	mec	amfacblgmec	Inventory of tangible real property improvements associated with mechanical systems located inside of buildings.
<b>Electrical</b>	ele	amfacblgele	Inventory of tangible real property improvements associated with building electrical systems.

<b>Plumbing</b>	plu	amfacblgplu	Inventory of tangible real property improvements associated with building plumbing systems.
<b>Security</b>	sec	amfacblgsec	Inventory of tangible real property improvements associated with building security systems.
<b>Telecommunications</b>	tel	amfacblgtel	Inventory of real property improvements associated with building telecommunications systems.
<b>Fire Protection</b>	fir	amfacblgfir	Inventory of real property improvements associated with building fire protection.
<b>Interior Design</b>	int	amfacblgint	Inventory of real property improvements associated with building interior design.

### 3. Facility Entity Class, Utility Subclass – 10 Families are currently established:

<b>Facility Entity Class – Utility Sub-Class - Families</b>			
<b>Family Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Water</b>	wat	amfacutlwat	Inventory of real property improvements associated with utility water distribution and supply systems (typically located beyond 5 feet from buildings).
<b>Wastewater</b>	wwt	amfacutlwwt	Inventory of real property improvements associated with utility wastewater collection and treatment systems (typically located beyond 5 feet from buildings).
<b>Storm Water</b>	swt	amfacutlswt	Inventory of real property improvements associated with utility storm water collection and control systems (typically located beyond 5 feet from buildings).
<b>Fuel</b>	ful	amfacutlful	Inventory of real property improvements associated with utility fuel transfer and distribution systems (typically located beyond 5 feet from buildings).
<b>Natural Gas</b>	gas	amfacutlgas	Inventory of real property improvements associated with utility natural gas distribution systems (typically located beyond 5 feet from buildings).
<b>Electrical</b>	ele	amfacutlele	Inventory of real property improvements associated with utility primary and secondary electrical systems (typically located beyond 5 feet from buildings).
<b>HVAC</b>	hvc	amfacutlfvc	Inventory of real property improvements associated with utility heating, ventilation,

			and cooling systems (typically located beyond 5 feet from buildings).
<b>Tanks</b>	tan	amfacutltan	Inventory of real property improvements associated with utility water, wastewater, and fuel storage tanks.
<b>Cathodic Protection</b>	cat	amfacutlcat	Inventory of real property improvements associated with utility cathodic protection.

**4. Facility Entity Class, Structure Sub-Class – 10 Families are currently established:**

<b>Facility Entity Class – Structure Sub-Class - Families</b>			
<b>Family Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Vehicle</b>	veh	amfacstrveh	Inventory of real property improvements associated with vehicular transportation structures (e.g., roads, highways, and parking lots).
<b>Rail</b>	rai	amfacstrrai	Inventory of real property improvements associated with rail transportation structures (e.g., railroads).
<b>Air</b>	air	amfacstrair	Inventory of real property improvements associated with air transportation structures (e.g., airport runways and aprons).
<b>Pedestrian</b>	ped	amfacstrped	Inventory of real property improvements associated with pedestrian transportation structures (e.g., sidewalks).
<b>Marine</b>	mar	amfacstrmar	Inventory of real property improvements associated with marine transportation structures (docks, marinas).
<b>Flood Control</b>	flo	amfacstrflo	Inventory of real property improvements associated with flood control structures.
<b>Navigation</b>	nav	amfacstrnav	Inventory of real property improvements associated with navigation structures (e.g., locks and dams).
<b>Ground Improvements</b>	gro	amfacstrgro	Inventory of real property improvements associated with ground improvement structures (e.g., flag poles).
<b>Ports &amp; Harbors</b>	por	amfacstrpor	Inventory of real property improvements associated with port and harbor structures.
<b>Recreation</b>	rec	amfacstrrec	Inventory of real property improvements associated with recreation structures.
<b>Military Range &amp; Training</b>	mrt	amfacstrmrt	Inventory of real property improvements associated with military range and training structures.
<b>Signs</b>	sig	amfacstrsig	Inventory of real property improvements associated with signs.

# **Environmental Management**

## **Entity Set**

## Environmental Management Entity Set

**Definition** – The Environmental Management Entity Set defines the environmental stewardship responsibilities as they relate to the federal real property environmental management practices.

**Name** – Environmental

**Class Prefix** – env

**Common Name Prefix** – Environmental

**Information Model Code Prefix** - em

### Environmental Management - Entity Classes

5 Entity Classes are currently established:

<b>Environmental Management Entity Set</b>			
<b>Entity Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Core</b>	cor	emcor	Common and parent tables for Environmental Entity Set.
<b>Compliance</b>	com	emcom	Includes all activities and projects that utilize end-of-pipe treatment or disposal methods to meet applicable environmental requirements (DOD Instruction 4715.4 Pollution Prevention). An end-of-pipe discharge is waste that is released directly out of the end of a pipe into an environmental media such as soil, water, air, or groundwater. An end-of-pipe treatment is any effort to control, limit, or reduce the toxicity of such a discharge before it is released into the environment. (derived from <a href="#">GSA's Storm Water Pollution Prevention Fact Sheet</a> dated November 1998)
<b>Restoration</b>	res	emres	The term "environmental restoration" means actions taken consistent with a permanent remedy to prevent or minimize the release of hazardous substances into the environment so that such substances do not migrate to cause substantial danger to present or future public health or welfare or the environment. (10 USC <a href="#">2701 Notes</a> )
<b>Pollution Prevention</b>	pol	empol	Means "source reduction," as defined in the Pollution Prevention Act (PPA), and other practices that reduce or eliminate the creation of pollutants through increased efficiency in the use of raw materials, energy, water, or other resources; or protection of natural resources by

			<p>conservation or recycling. "Source Reduction" means any practice which reduces the amount of any hazardous substance, pollutant, or contaminant entering any waste stream or otherwise released into the environment (including fugitive emissions) prior to recycling, treatment, or disposal; and reduces the hazards to public health and the environment associated with the release of such substances, pollutants, or contaminants. The term includes equipment or technology modifications, process or procedure modifications, reformulation or redesign of products, substitution of raw materials, and improvements in housekeeping, maintenance, training, or inventory control. "Source reduction" does not include any practice which alters the physical, chemical, or biological characteristics or the volume of a hazardous substance, pollutant, or contaminant through a process or activity which itself is not integral to and necessary for the production of a product or the providing of a service. <a href="#">(derived from 42 USC 11001 Notes and 42 USC 13102.)</a></p>
<b>Conservation</b>	con	emcon	<p>The terms "conserve", "conserving", and "conservation" mean to use, and the use of, such methods and procedures which are necessary to ensure, to the maximum extent practicable, the well being and enhancement of fish and wildlife and their habitats for the ecological, educational, esthetic, cultural, recreational, and scientific enrichment of the public. Such methods and procedures may include, but are not limited to, any activity associated with scientific resources management, such as research, census, law enforcement, habitat acquisition, maintenance, development, information education, population manipulation, propagation, technical assistance to private landowners, live trapping, and transplantation <a href="#">(16 USC 2902)</a></p>

## Environmental Management - Entity Sub-Classes

### 1. Entity Class – Core – 1 Entity Sub-Class is currently established:

<b>Core Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	emcorbas	Common and parent tables for Environmental Management Entity Set, Base Entity Class.

### 2. Entity Class – Compliance – 17 Entity Sub-Classes are currently established:

<b>Compliance Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	emcombas	Common and parent tables for Environmental Management Entity Set, Compliance Entity Class.
<b>NPDES Permit</b>	npd	emcomnpd	Processes and functions associated with the acquisition and monitoring of National Pollutant Discharge Elimination System (NPDES) permits.
<b>Air Emission Permit</b>	aep	emcomaep	Processes and functions associated with the acquisition and monitoring of air emission permits.
<b>Solid &amp; Hazardous Wast</b>	shw	emcomshw	Processes and functions associated with the management, handling, transport, & disposal/treatment of solid and hazardous waste.
<b>Hazardous Material</b>	hmt	emcomhmt	Processes and functions associated with the management, handling, transport, & disposal/treatment of hazardous materials.
<b>Regulated Storage Tank</b>	rst	emcomrst	Processes and functions associated with the management, use, monitoring, and closing of regulated storage tanks.
<b>Drinking Water Quality</b>	dwq	emcomdwq	Processes and functions associated with the management, protection, and monitoring of drinking water quality.
<b>Right to Know</b>	rtk	emcomrtk	Processes and functions associated with compliance with the Federal right-to-know laws and regulations.
<b>Toxic Releases</b>	trl	emcomtrl	Processes and functions associated with monitoring, response, and compliance with the Federal laws and regulations associated with toxic releases.

<b>NEPA</b>	nep	emcomnep	Processes and functions associated with compliance with the Federal laws and regulations associated with the National Environmental Protection Act (NEPA).
<b>Asbestos</b>	asb	emcomasb	Processes and functions associated with asbestos monitoring, abatement, and compliance with the Federal laws and regulations associated with asbestos .
<b>Noise</b>	noi	emcomnoi	Processes and functions associated with noise monitoring, abatement, and compliance with the Federal laws and regulations associated with noise.
<b>Environmental Audits</b>	eau	emcomeau	Processes and functions associated with conducting environmental audits.
<b>Indoor Air Quality</b>	iaq	emcomiaq	Processes and functions associated with indoor air quality monitoring and compliance with the Federal laws and regulations associated with indoor air quality.
<b>Toxic Substances</b>	tsb	emcomtsb	Processes and functions associated with toxic substances monitoring and control, and compliance with the Federal laws and regulations associated with toxic substances (e.g., lead, pcbs).
<b>Sustainable Development</b>	sud	emcomsud	Processes and functions associated with sustainable development, and compliance with the Federal laws and regulations associated with sustainable development.
<b>Sampling</b>	sam	emcomsam	The all-encompassing act of monitoring the environment, measuring, collecting and analyzing samples of air, water, soil, foodstuffs, biota, and other media from various sites and their environs. Its purpose is to show that applicable standards are met, to assess exposures to members of the public, and to assess effects, if any, on the environment. <a href="#">[Jefferson Labs, US Department of Energy 2003]</a>

### 3. Entity Class – Restoration – 10 Entity Sub-Classes are currently established:

<b>Restoration Entity Class – Sub-Classes</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	emresbas	Common and parent tables for Environmental Management Entity Set, Restoration Entity Class.
<b>Preliminary Assessment</b>	pas	emrespas	Processes and functions associated with the accomplishment of an initial review (consisting of a field reconnaissance &

			record search) of a geographic area for the purpose of determining if current or past usage is suspected to have contributed to pollutants in the soil, sediment, surface water, or groundwater.
<b>Site Assessment</b>	sas	emressas	Processes and functions associated with the accomplishment of a follow-up review of a geographic area for the purpose of determining if current or past usage is suspected to have contributed to pollutants in the soil, sediment, surface water, or groundwater.
<b>Confirmation Study</b>	cst	emrescst	Processes and functions associated with the accomplishment of a thorough investigation of a geographic area for the purpose of verifying the extent of pollution to the soil, sediment, surface water, or groundwater.
<b>Record of Decision</b>	rod	emresrod	Processes and functions associated with the accomplishment of a record of decision, an agreement between environmental regulatory agency and organization concerning schedule and methodology for accomplishing an environmental remediation effort.
<b>State Coordination</b>	scr	emresscr	Processes and functions as sociated with coordination with state environmental regulatory agencies concerning environmental restoration efforts.
<b>Remedial Design</b>	red	emresred	Processes and functions associated with the preparation of plans and specifications for accomplishment of an environmental restoration effort.
<b>Remedial Action</b>	rac	emresrac	Processes and functions associated with the construction of remediation facilities and completion of an environmental restoration effort.
<b>Long Term Monitoring</b>	ltm	emresltm	Processes and func tions associated with the monitoring of remediation facilities (e.g., wells) constructed as a part of an environmental restoration effort.
<b>UXO Clean-up</b>	uxo	emresuxo	Processes and functions associated with the removal and clean-up of unexploded ordnance.

**4. Entity Class – Pollution Prevention** – 4 Entity Sub-Classes are currently established:

<b>Pollution Prevention Entity Class – Sub-Classes</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	empolbas	Common and parent tables for Environmental Management Entity Set, Pollution Prevention Entity Class.
<b>Fuel</b>	ful	empolful	Processes and functions associated with the prevention of fuel spills and hazards.
<b>Hazardous Material</b>	hma	empolhma	Processes and functions associated with the prevention of hazardous material spills and hazards.
<b>Risk Management</b>	rma	empolrma	Processes and functions associated with the prevention, or minimization, of exposure of humans to environmental pollution and hazards.

**5. Entity Class – Conservation** – 10 Entity Sub-Classes are currently established:

<b>Conservation Entity Class – Sub-Classes</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	emconbas	Common and parent tables for Environmental Management Entity Set, Conservation Entity Class.
<b>Watershed &amp; Source Water</b>	wat	emconwat	Processes and functions associated with the protection and conservation of watersheds and source water supplies.
<b>Wetlands</b>	wet	emconwet	Processes and functions associated with the protection and conservation of wetlands.
<b>Cultural &amp; Historical Resources</b>	cul	emconcul	Processes and functions associated with the protection and conservation of cultural and historical resources.
<b>Endangered Species</b>	esp	emconesp	Processes and functions associated with the protection and conservation of endangered species.
<b>Fish &amp; Wildlife</b>	fwi	emconfwi	Processes and functions associated with the protection and conservation of fish and wildlife.
<b>Forestry</b>	for	emconfor	Processes and functions associated with the protection and conservation of forested areas.
<b>Land Use</b>	lau	emconlau	Processes and functions associated with comprehensive planning, and designation of areas for specific land uses.

<b>Public Education</b>	ped	emconped	Processes and functions associated with the development and administration of public education activities.
<b>Recreation</b>	rec	emconrec	Processes and functions associated with the development, maintenance, and conservation of designated areas for recreational purposes.

## Environmental Management - Entity Families

### 1. Core Entity Class, Base Subclass – 1 Family is currently established:

<b>Core Entity Class – Base Sub-Class - Families</b>			
<b>Family Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Reference</b>	ref	emcorbasref	Reference (Domain Tables) for Asset Management Entity Set, Core Entity Class, Base Sub-Class.

### 2. Compliance Entity Class, Environmental Sampling Entity Sub-Class – 4 Entity Families are currently established:

<b>Compliance Entity Class - Environmental Sampling Entity Sub-Class</b>			
<b>Entity FamilyName</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	emcomsambas	Common and parent tables for Environmental Management Entity Set, Environmental Sampling Entity Class.
<b>Sample Collection</b>	sco	emcomsamsco	Processes and functions associated with the collection, packaging, recording, preservation, and shipment of environmental samples.
<b>Sample Analysis</b>	san	emcomsamsan	Processes and functions associated with the analytical analysis (laboratory or in-the-field) of environmental samples.
<b>Sample Results</b>	sre	emcomsamsre	Processes and functions associated with the management, interpretation, and validation of environmental sample analytical results.

# **Work Management**

## **Entity Set**

## Work Management Entity Set

**Definition** – The Work Management Entity Set change management processes that consist of planning, programming, acquisition, operations, maintenance, revitalization, evaluation, and disposal actions affecting real property and other related entities.

**Name** – Work

**Class Prefix** – work

**Common Name Prefix** – Work

**Information Model Code Prefix** - w m

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### Work Management - Entity Classes

6 Entity Classes are currently established:

Work Management Entity Set			
Entity Class Name	Entity Class Abbreviation	Information Model Code Prefix	Definition
Core	cor	wmcor	<b>Common and parent tables for Work Entity Set.</b>
Service	svc	wmsvc	Useful labor that does not produce a tangible commodity. Can include “management and professional support services” which means labor that provides engineering or technical support, assistance, advice, or training for the efficient and effective management and operation of organizations, activities, or systems. Those services include efforts that support or contribute to improved organization or program management, logistics management, project monitoring and reporting, data collection, budgeting, accounting, auditing, and administrative or technical support for conferences and training programs. Service also includes, “engineering and technical services” means labor that take the form of advice, assistance, training, or hands -on training necessary to maintain and operate fielded weapon systems, equipment, and components (including software when applicable) at design or required levels of effectiveness. Can also include custodial services. (31 USC 1105 and 10 USC 2212)

<b>Construction</b>	con	wmcon	Construction includes surveys and site preparation; acquisition, conversion, rehabilitation, and installation of facilities; acquisition and installation of equipment and appurtenances integral to the project; acquisition and installation of supporting facilities (including utilities) and appurtenances incident to the project; and planning, supervision, administration, and overhead incident to the project. ( <a href="#">10 USC 2802</a> )
<b>Operations</b>	ops	wmops	A military action or the carrying out of a strategic, operational, tactical, service, training, or administrative military mission. Includes research, development, testing and evaluation (T&E), and range and training, ( <a href="#">Joint Publication 1-02 "Department of Defense Dictionary of Military and Associated Terms," 9 January 2003</a> and <a href="#">MFS working group 4-1-2003</a> ).
<b>Lease</b>	lea	wmlea	An agreement conveying the right to use property, plant, or equipment (land, depreciable assets, or both), usually for a stated period of time. For financial statement reporting and disclosure purposes, leases are classified as either capital or operating based on specific criteria. Capital leases are contracts or agreements for the use of personal or real property items that possess the characteristics of a purchase and transfers all the benefits and risks of ownership to the lessee. An operating lease is an agreement conveying the right to use property for a limited time in exchange for periodic rental payments. [ <a href="#">US Department of Commerce Accounting Principles for NOAA -</a> ]
<b>Equipment Installation</b>	equ	wmequ	Modifications to real property improvements such as buildings, structures, ground improvement structures, and utilities required solely for the installation of an item of personal property. Such personal property includes accessories and furnishings that are moveable and not affixed or integral to the facility. [ <a href="#">OPNAV 11010.20 Facilities Project Manual</a> ]

## Work Management - Entity Sub-Classes

### 1. Entity Class – Core – 1 Entity Sub-Class is currently established:

<b>Work Management Entity Set – Core Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	wmcorbas	Common and parent tables for Work Management Entity Set, Core Entity Class.

### 2. Entity Class – Service – 5 Entity Sub-Classes are currently established:

<b>Work Management Entity Set – Service Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Entity Sub-Class Abbreviation</b>	<b>Information Model Code Prefix</b>	<b>Definition</b>
<b>Base</b>	bas	wmsvcbas	Common and parent tables for Work Management Entity Set, Service Entity Class.
<b>Design</b>	des	wmsvcdes	The process of preparing a specific plan for the construction, repair, demolition, or renovation of one or more assets.
<b>Inspection</b>	ins	wmsvcins	The process of observing and recording the physical appearance, condition, or status of one or more assets.
<b>Custodial</b>	cus	wmsvccus	The process of performing routine cleaning and maintenance activities associated with one or more assets.
<b>Moves</b>	mov	wmsvcmov	The process of managing spaces.

### 3. Entity Class – Construction – 5 Entity Sub-Classes are currently established:

<b>Work Management Entity Set – Construction Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Entity Sub-Class Abbreviation</b>	<b>Information Model Code Prefix</b>	<b>Definition</b>
<b>Base</b>	bas	wmconbas	Common and parent tables for Work Management Entity Set, Construction Entity Class.
<b>Alterations</b>	alt	wmconalt	The process of altering, or renovating, one or more existing assets (e.g., adding a room to an existing building).
<b>Improvements</b>	imp	wmconimp	The process of constructing, or installing, one or more new assets (e.g., constructing a new building).
<b>Repair/Demolition</b>	rde	wmconrde	The process of repairing, or

			demolishing, one or more existing assets (e.g., demolishing an existing building).
<b>Maintenance</b>	mnt	wmcomnt	The process of performing maintenance activities associated with one or more assets (e.g., painting a building).

**4. Entity Class – Operations – 6 Entity Sub-Classes are currently established:**

<b>Work Management Entity Set – Operations Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Entity Sub-Class Abbreviation</b>	<b>Information Model Code Prefix</b>	<b>Definition</b>
<b>Base</b>	bas	wmopsbas	Common and parent tables for Work Management Entity Set, Operations Entity Class.
<b>Transportation</b>	tra	wmopstra	Processes and functions associated with the operation of transportation facilities.
<b>Utility</b>	utl	wmopsutl	Processes and functions associated with the operation of utility facilities.
<b>Airfield</b>	air	wmopsair	Processes and functions associated with the operation of airfield facilities.
<b>Real Estate</b>	res	wmopsres	Processes and functions associated with the management of real estate.
<b>Range &amp; Training</b>	rtr	wmopsrtr	Processes and functions associated with the operation of range and training facilities.

**5. Entity Class – Lease – 5 Entity Sub-Classes are currently established:**

<b>Work Management Entity Set – Lease Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Entity Sub-Class Abbreviation</b>	<b>Information Model Code Prefix</b>	<b>Definition</b>
<b>Base</b>	bas	wmleabas	Common and parent tables for Work Management Entity Set, Lease Entity Class.
<b>Building</b>	blg	wmleablg	Processes and functions associated with the leasing of buildings.
<b>Relocatable</b>	rel	wmlearel	Processes and functions associated with the leasing of relocatable assets.
<b>Equipment</b>	equ	wmleaequ	Processes and functions associated with the leasing of equipment.
<b>Land</b>	lnd	wmlealnd	Processes and functions associated with the leasing of land.

**6. Entity Class – Equipment – 4 Entity Sub-Classes are currently established:**

<b>Work Management Entity Set – Equipment Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Entity Sub-Class Abbreviation</b>	<b>Information Model Code Prefix</b>	<b>Definition</b>
<b>Base</b>	bas	wmequbas	Common and parent tables for Work Management Entity Set, Equipment Entity Class.
<b>Installation</b>	ins	wmequins	Processes and functions associated with the installation and setup of equipment.
<b>Maintenance</b>	mnt	wmequmnt	Processes and functions associated with the maintenance of equipment.
<b>Disposal</b>	dis	wmequdis	Processes and functions associated with the disposal of equipment.

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### **Work Management - Entity Families**

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Family sub-groups have not yet been defined.

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# **Financial Management**

## **Entity Set**

## Financial Management Entity Set

**Definition** – The Financial Management Entity Set comprise planning, programming, and execution of appropriations associated with real property management.

**Name** – Financial

**Class Prefix** – financial

**Common Name Prefix** – Financial

**Information Model Code Prefix** - fm

### Financial Management - Entity Classes

**6 Entity Classes are currently established:**

<b>Financial Management Entity Set</b>			
<b>Entity Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Core</b>	cor	fmcors	Common and parent tables for Financial Entity Set.
<b>Contract</b>	cnt	fmcnt	A mutually binding legal relationship obligating the seller to furnish the supplies or services (including construction) and the buyer to pay for them. It includes all types of written commitments that obligate the Government to an expenditure of appropriated funds. ( <a href="#">48 CFR 2.101</a> )
<b>Civilian Workforce</b>	civ	fmciv	All appointive positions in the executive, judicial, and legislative branches of the Government of the United States, except positions in the uniformed service. ( <a href="#">5 USC 2101</a> )
<b>Material</b>	mat	fmmt	Any article, commodity, machinery, equipment, accessory, part, component, assembly, work in process, maintenance, repair, and operating supplies, and any product of any kind. ( <a href="#">41 USC 103</a> )
<b>Training</b>	trg	fmtrg	Program of instruction, including but not limited to on-the-job, classroom, and apprenticeship, designed to increase the effectiveness of employees. May be either vocational or college-level ( <a href="#">48 CFR 31.205-44</a> )
<b>Travel</b>	trv	fmtrv	Costs for transportation, lodging, meals, and incidental expenses. ( <a href="#">48 CFR 31.205-46</a> )

## Financial Management - Entity Sub-Classes

**1. Entity Class – Core** – 1 Entity Sub-Class is currently established:

<b>Financial Management Entity Set – Core Entity Class</b>			
Entity Sub-Class Name	Abbreviation	IMC	Definition
<b>Base</b>	bas	fmcorbass	Common and parent tables for Financial Management Entity Set, Base Entity Class.

**2. Entity Class – Contract** – 1 Entity Sub-Class is currently established:

<b>Financial Management Entity Set – Contract Entity Class</b>			
Entity Sub-Class Name	Abbreviation	IMC	Definition
<b>Base</b>	bas	fmcntbas	Common and parent tables for Financial Management Entity Set, Contracts Entity Class.

**3. Entity Class – Civilian Workforce** – 1 Entity Sub-Class is currently established:

<b>Financial Management Entity Set – Civilian Workforce Entity Class</b>			
Entity Sub-Class Name	Abbreviation	IMC	Definition
<b>Base</b>	bas	fmcivbas	Common and parent tables for Financial Management Entity Set, Civilian Workforce Entity Class.

**4. Entity Class – Material** – 1 Entity Sub-Class is currently established:

<b>Financial Management Entity Set – Material Entity Class</b>			
Entity Sub-Class Name	Abbreviation	IMC	Definition
<b>Base</b>	bas	fmmatbas	Common and parent tables for Financial Management Entity Set, Material Entity Class.

**5. Entity Class – Training** – 1 Entity Sub-Class is currently established:

<b>Financial Management Entity Set – Training Entity Class</b>			
Entity Sub-Class Name	Abbreviation	IMC	Definition
<b>Base</b>	bas	fmtrgbas	Common and parent tables for Financial Management Entity Set, Training Entity Class.

**6. Entity Class – Travel – 1 Entity Sub-Class is currently established:**

<b>Financial Management Entity Set – Travel Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	fmtrvbas	Common and parent tables for Financial Management Entity Set, Travel Entity Class.

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**Financial Management - Entity Families**

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Family sub-groups have not yet been defined.

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# **Public Safety Management**

## **Entity Set**

## Public Safety Management Entity Set

**Definition** – The Public Safety Management Entity Set focuses on issues related to the protection of personnel and property.

**Name** – Public Safety

**Class Prefix** – safety

**Common Name Prefix** – Public Safety

**Information Model Code Prefix** - sm

### Public Safety Management - Entity Classes

7 Entity Classes have been established:

Public Safety Management Entity Set			
Entity Class Name	Abbreviation	IMC	Definition
<b>Core</b>	cor	smcor	Common and parent tables for Public Safety Entity Set.
<b>Environmental Work Place</b>	env	smenv	Relating to the establishment and other locations where one or more employees are working or are present as a condition of their employment. The work environment includes not only physical locations, but also the equipment or materials used by the employee during the course of his or her work. <a href="#">[29 CFR 1904.5(b)]</a>
<b>Emergency Response</b>	emg	smemg	Means a response effort by employees from outside the immediate release area or by other designated responders (i.e., mutual aid groups, local fire departments, etc.) to an occurrence that results, or is likely to result, in an uncontrolled release of a hazardous substance. Responses to incidental releases of hazardous substances where the substance can be absorbed, neutralized, or otherwise controlled at the time of release by employees in the immediate release area, or by maintenance personnel are not considered to be emergency responses within the scope of this standard. Responses to releases of hazardous substances where there is no potential safety or health hazard (i.e., fire,

			explosion, or chemical exposure) are not considered to be emergency responses. (29 CFR 1910.120)
<b>Explosives</b>	exp	smexp	Any chemical compound mixture, or device, the primary or common purpose of which is to function by explosion; the term includes, but is not limited to, dynamite and other high explosives, black powder, pellet powder, initiating explosives, detonators, safety fuses, squibs, detonating cord, igniter cord, and igniters. (18 USC 841)
<b>Force Protection</b>	for	smfor	Security program developed to protect Service members, civilian employees, family members, facilities and equipment, in all locations and situations, accomplished through the planned and integrated application of combating terrorism, physical security, operations security, personal protective services supported by intelligence, counterintelligence, and other security programs [1998 FBI Guidance Publication ]
<b>Occupational Safety &amp; Health</b>	osh	smosh	The conditions, or the adoption or use of one or more practices, means, methods, operations, or processes, reasonably necessary or appropriate to provide safe or healthful employment and places of employment. [29 USC 652]
<b>Fire Protection</b>	fir	smfir	The term "fire protection" includes personal services and equipment required for fire prevention, the protection of life and property from fire, and fire fighting; The term "fire organization" means any governmental entity or public or private corporation or association maintaining fire protection facilities within the United States, its Territories and possessions, and any governmental entity or public or private corporation or association which maintains fire protection facilities in any foreign country in the vicinity of any installation of the United States (42 USC 1856)

## Public Safety Management - Entity Sub-Classes

### 1. Entity Class – Core – 1 Entity Sub-Class is currently established:

<b>Public Safety Entity Set – Core Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	smcorbas	Common and parent tables for Public Safety Management Entity Set, Core Entity Class.

### 2. Entity Class – Explosives – 4 Entity Sub-Classes are currently established:

<b>Public Safety Entity Set – Explosives Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	smexpbas	Common and parent tables for Public Safety Management Entity Set, Explosives Entity Class.
<b>Ordnance Inventory</b>	ord	smexpord	Processes and functions associated with safe management and control of stored ordnance.
<b>Mishap</b>	mis	smexpmis	Processes and functions associated with recording, investigation, and documentation of findings associated with explosives mishaps.
<b>UXO</b>	uxo	smexpuxo	Processes and functions associated with safe management and control of areas containing unexploded ordnance.

### 3. Entity Class – Fire – 3 Entity Sub-Classes are currently established:

<b>Public Safety Entity Set – Fire Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	smfirbas	Common and parent tables for Public Safety Management Entity Set, Fire Entity Class.
<b>Suppression</b>	sup	smfirsup	Processes and functions associated with the suppression of fire.
<b>Prevention</b>	pre	smfirpre	Processes and functions associated with the prevention of fire.

**4. Entity Class – Environmental** – 3 Entity Sub-Classes are currently established:

<b>Public Safety Entity Set – Environmental Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	smenvbas	Common and parent tables for Public Safety Management Entity Set, Environmental Entity Class.
<b>Training</b>	tra	smenvtra	Processes and functions associated with the training of personnel in the proper use of personal protective equipment (PPE) and safe conductance of environmental remediation, monitoring, or compliance activities.
<b>Ergonomics</b>	erg	smenverg	Processes and functions associated with the design and implementation of measures focusing on improving working conditions through prevention of noise and vibration problems, prevention of electric shock hazards, minimization of working conditions that contribute to discomfort (e.g., control temperature, humidity, lighting, color schemes, furniture, computer monitors).

**5. Entity Class – Force Protection** – 1 Entity Sub-Class is currently established:

<b>Public Safety Entity Set – Force Protection Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	smforbas	Common and parent tables for Public Safety Management Entity Set, Force Protection Entity Class.

**6. Entity Class – Occupational Safety & Health** – 1 Entity Sub-Class is currently established:

<b>Public Safety Entity Set – Occupational Safety &amp; Health Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	smoshbas	Common and parent tables for Public Safety Management Entity Set, Occupational Safety & Health Entity Class.

**7. Entity Class – Emergency Response** – 1 Entity Sub-Class is currently established:

<b>Public Safety Entity Set – Emergency Response Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Base</b>	bas	smengbas	Common and parent tables for Public Safety Management Entity Set, Emergency Response Entity Class.

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## **Public Safety Management - Entity Families**

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Family sub-groups have not yet been defined.

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# **Organization Management**

## **Entity Set**

## Organization Management Entity Set

**Definition** – The Organization Management Entity Set comprises a structured grouping of personnel and the roles they perform as it relates to an integrated work environment.

**Name** – Organization

**Class Prefix** – organization

**Common Name Prefix** – Organization

**Information Model Code Prefix** - om

### Organization Management - Entity Classes

4 Entity Classes have been established:

<b>Organization Management Entity Set</b>			
Entity Class Name	Abbreviation	IMC	Definition
<b>Core</b>	cor	omcor	Common and parent tables for Organization Management Entity Set.
<b>People</b>	peo	ompeo	
<b>Roles</b>	rol	omrol	
<b>Workflow</b>	wrk	omwrk	

### Organization Management - Entity Sub-Classes

**1. Entity Class – Core** – 1 Entity Sub-Class is currently established:

<b>Organization Management Entity Set – Core Entity Class</b>			
Entity Sub-Class Name	Entity Sub-Class Abbreviation	Information Model Code Prefix	Definition
<b>Base</b>	bas	omcorbas	Common and parent tables for Organization Management Entity Set, Core Entity Class.

**2. Entity Class – People** – 4 Entity Sub-Classes are currently established:

<b>Organization Management Entity Set –People Entity Class</b>			
Entity Sub-Class Name	Entity Sub-Class Abbreviation	Information Model Code Prefix	Definition
<b>Base</b>	bas	ompeobas	Common and parent tables for Organization Management Entity Set, People Entity Class.

			Management Entity Set, People Entity Class.
<b>Civilian</b>	civ	ompeociv	Processes and functions associated with organization of civilian employees.
<b>Military</b>	mil	ompeomil	Processes and functions associated with organization of military employees.
<b>Contractors</b>	con	ompeocon	Processes and functions associated with organization of contractor employees.

**3. Entity Class – Roles – 1 Entity Sub-Class is currently established:**

<b>Organization Management Entity Set –Roles Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Entity Sub-Class Abbreviation</b>	<b>Information Model Code Prefix</b>	<b>Definition</b>
<b>Base</b>	bas	omrolbas	Common and parent tables for Organization Management Entity Set, Roles Entity Class.

**4. Entity Class – Workflow – 1 Entity Sub-Class is currently established:**

<b>Organization Management Entity Set –Workflow Entity Class</b>			
<b>Entity Sub-Class Name</b>	<b>Entity Sub-Class Abbreviation</b>	<b>Information Model Code Prefix</b>	<b>Definition</b>
<b>Base</b>	bas	omwrkbas	Common and parent tables for Organization Management Entity Set, Workflow Entity Class.

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## **Organization Management - Entity Families**

**1. Core Entity Class, Base Subclass – 1 Family is currently established:**

<b>Asset Management Entity Set – Core Entity Class – Base Sub-Class</b>			
<b>Family Name</b>	<b>Abbreviation</b>	<b>IMC</b>	<b>Definition</b>
<b>Reference</b>	ref	omcorbasref	Reference (Domain Tables) for Organization Management Entity Set, Core Entity Class, Base Sub-Class.

# **Information Security Management**

## **Entity Set**

## Information Security Management Entity Set

**Definition** – The Information Security Management Entity Set focuses on controlled access to data and information as it relates to the roles of personnel.

**Name** – Information Security

**Class Prefix** – information

**Common Name Prefix** – Information

**Information Model Code Prefix** - im

### Information Security Management - Entity Classes

4 Entity Classes have been established:

Information Security Management Entity Set			
Entity Class Name	Abbreviation	IMC	Definition
<b>Core</b>	cor	imcor	Common and parent tables for Information Security Management Entity Set.
<b>Database</b>	dbs	imdbs	1. A set of data that is required for a specific purpose or is fundamental to a system, project, enterprise, or business. A database may consist of one or more data banks and be geographically distributed among several repositories. 2. A formally structured collection of facts, concepts, or instructions suitable for communication, interpretation, or processing by humans or by automatic means. Data includes any representations such as characters or analog quantities to which meaning is or might be assigned. (ANSI T1.523-2001, approved February 28, 2001).
<b>Network</b>	net	imnet	An interconnection of three or more communicating entities, or an interconnection of usually passive electronic components that performs a specific function (ANSI T1.523-2001, approved February 28, 2001).
<b>Application</b>	app	imapp	Software that performs a specific task or function, such as word-processing, creation of spreadsheets, generation of graphics, or facilitating electronic mail. <i>Software</i> is a set of computer programs, procedures, and associated documentation concerned with the

			operation of a data processing system such as a computer. (ANSI T1.523-2001, approved February 28, 2001).
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## **Information Security Management - Entity Families**

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Family sub-groups have not yet been defined.

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# **APPENDIX A**

## **Definitions**

## Definitions

**Transactional** - Transactional is defined as communicative actions or activities, involving multiple parties or things that reciprocally affect each other in a near real time setting that is based on life cycle events.

**Facilities, Infrastructure, and Environment** - Facilities, Infrastructure, and Environment is recognized as the focal point for utilization and management capabilities that Computer Aided Drafting and Design, Geospatial Information, and Facility Management support. The Facilities, Infrastructure and Environmental establishes a cooperative interaction of private, public, and academic resources for the investigation, verification, and transfer of integrated information.

**Table** – A grouping of similar data in a database. Data is arranged in fields (also called columns or attributes), and rows (also called records).

**Database** - A structured collection of data arranged for ease and speed of retrieval, as by a computer. Data in a database is typically stored in tables.

**Relational Database** – Data is stored in tables, which consist of columns/fields with rows/records of data. All data consists of two basic components:

Domains – Set of valid values.

Relationships – The way tables are joined consisting of Primary Keys (uniquely identify each record of a table) and Foreign Keys (data that is foreign to a table, but is necessary to establish a relationship).