

Facility Management Standard Strategic and Tactical Plans

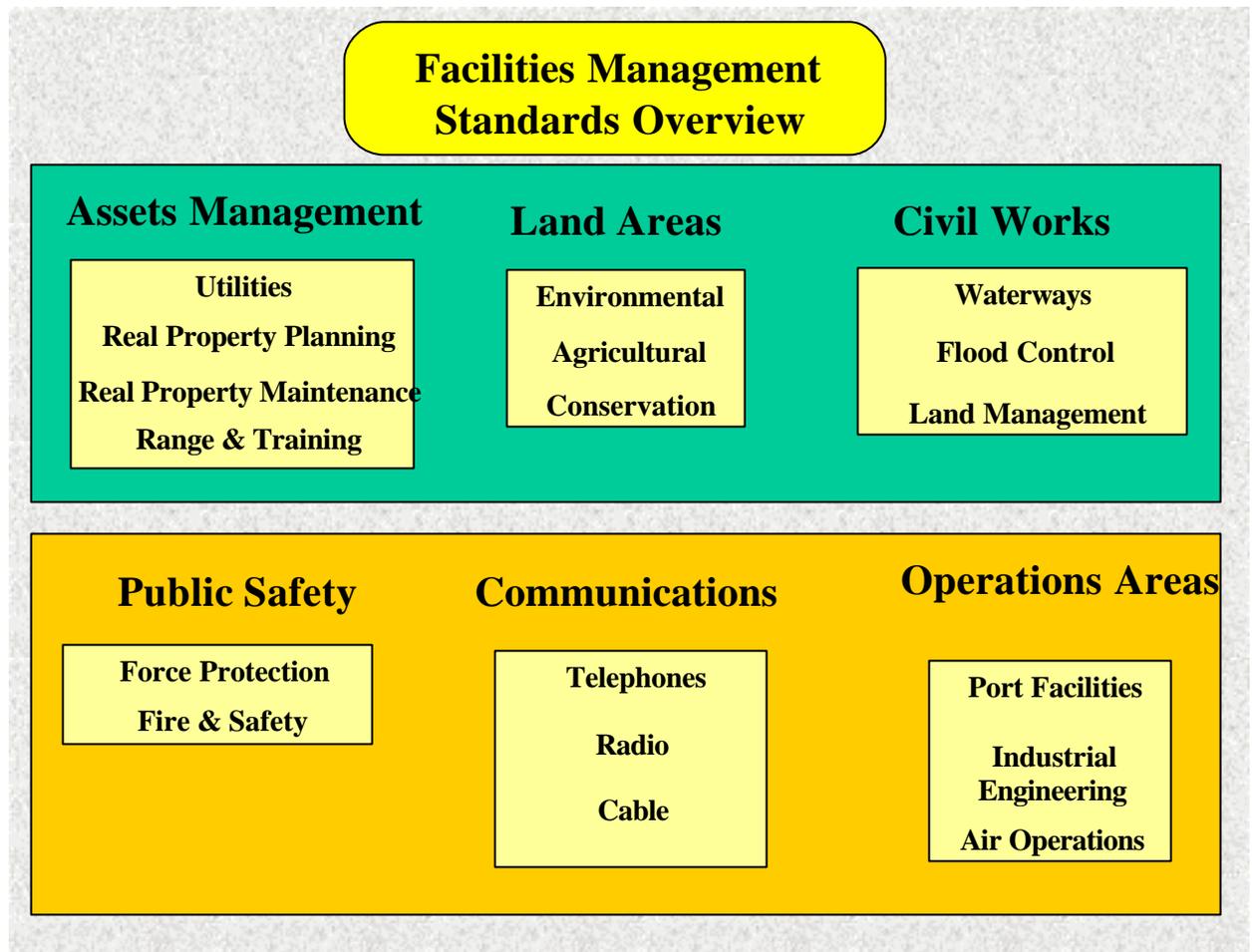
History

- **January 2000** – meeting to prepare draft FMS Strategic Plan
- **June 2000** – RFI announcement in CBD
- **July 2000** – 6 responses to RFI
- **August-Sept 2000** – review of RFI responses
- **Oct 2000** – SWG meeting to update FMS Strategic Plan
- **Nov 2000** -Corporate Staff approved FM Plan
- **Dec 2000** - Focus group (Proposed Framework)

Corporate Staff Definition

Focus areas This is within the Facilities, Infrastructure and Environment Business Plan for the Center

Work with the **Associated areas** as the need to support the **Focus area** development.



FM Strategic Plan

- The FMS will consist of a relational database schema and data dictionary for data describing the control and reporting of real property and derived entities that must be considered in its use.
- provides overall guidance for developing and managing data standards for FM while working toward a object orientation
- establishes the shared vision for FM by outlining the goals, and associated objectives and strategies to accomplish the standardization of FM data.
- This will be defined by the Core Focus Areas and Associated areas.

Goals & Objectives of the FM Strategic Plan

Goal 1. The standard should foster joint cooperation and collaboration between governments and industry that will allow interoperability.

Objective 1.1. Develop a working relationship with commercial FM vendors and integrators to ensure that the standard will be used with commercial products

Objective 1.2. Encourage and solicit support of commercial vendors in adopting FM Standards as their default data model

Objective 1.3. Ensure consistency with other National and International Standards

Objective 1.4. Coordinate FM Standards development with other standards development organizations.

Objective 1.5. Enable data interoperability between commercial FM technologies (for example CADD, GIS, CMMS, CAFMS)

Goals & Objectives of the FM Strategic Plan

Goal 2. The standard should be customer driven, flexible, modular, and maintainable

- Objective 2.1.** Ensure FM standard meets the needs of the facilities, infrastructure, and environmental communities.
- Objective 2.2.** Stay abreast of current and future CADD/GIS/FM technological developments.
- Objective 2.3.** Utilize centralized configuration management

Goals & Objectives of the FM Strategic Plan

Goal 3. The Standard should promote consistency within the Center's Facilities, Infrastructure, Environmental standards

Objective 3.1. The FM standard must be aligned with existing SDSFIE and AEC CADD Standards (short-term).

Objective 3.2. Consolidate SDSFIE, AEC CADD Standards and FM standards. (long-term)

Objective 3.3. Promote benefits of using the standard.

Objective 3.4. Facilitate effective communications among users

Goals & Objectives of the FM Strategic Plan

Goal 4. The standard should provide a framework which supports asset management, civil works and land management (focus areas).

Objective 4.1. Provide the capability to capture temporal data

Objective 4.2. Maintain an efficient FIE model that defines the scope of FM focus and associated areas (operations area support, communications support, public safety).

Objective 4.3. Develop a transactional relational data model which will support multi-user environments with large user bases.

Goals & Objectives of the FM Strategic Plan

Goal 5. The standard should provide support for Life Cycle management process (From Planning to Disposal)

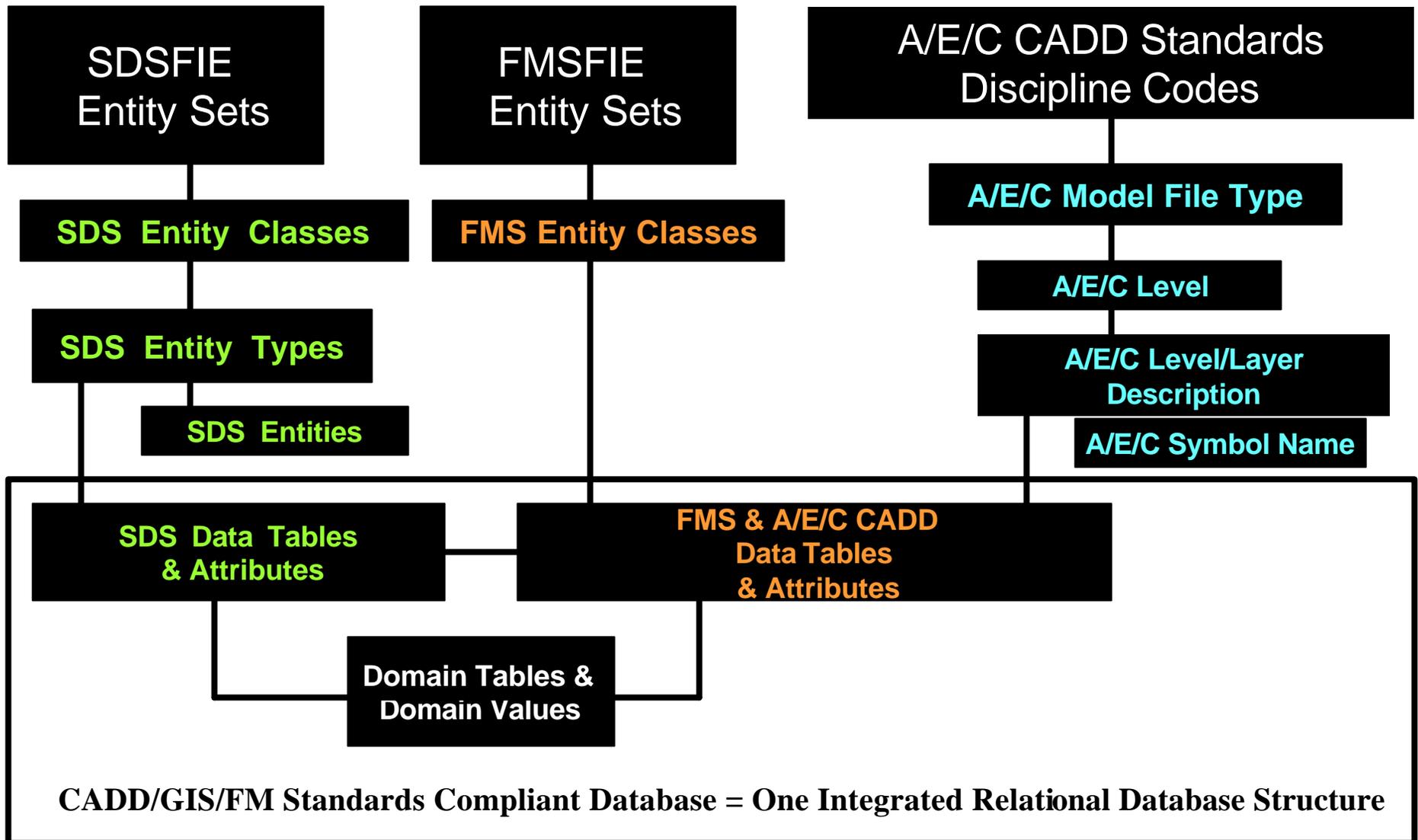
Objective 5.1. Incorporate the commercial approach of just-in-time delivery

Objective 5.2. Define and publish major activities of Life Cycle Management

Objective 5.3. Facilitate the data transfer between activities of life cycle management.

Adopted CADD/GIS/FM Standards Data Model

(October 2,000 Version)



Facility Management Standard Framework What is It ?

FMS Framework

The framework defines the basic structure of the FMSFIE in terms of entity sets, entity classes and entity subclasses. The definitions have been crafted to provide a migratory structure to support transition to one common CADD/GIS/FM standard.

The Entity Set/Entity Class organizational convention was selected to support the concept of source to target mapping. This is necessary to build an integrated environment that can support Geospatial information as well as Non-Geospatial referenced graphic information that can be interfaced with Transactional non-graphic data.

FMS Framework

The overall goal of this framework is to support on-going integration efforts as well as the long-term goal of a Federal CADD/GIS/FM standard to support the business focus of Facilities, Infrastructure and Environment.

The framework will facilitate the evolution to an object-oriented approach that includes both assembly relationships (has-a relationships) and categorization relationships (is-a relationships).

Entity Set: broad grouping of real property management responsibilities

Entity Class: grouping of similar real property classifications based on legal reporting requirements

Entity Subclass: subgrouping of entity classes based on similar life-cycle event and temporal real property information

FMS Entity Set Definitions

Assets: items comprising an inventory of federal real property and other related entities based on classification and need to support organizational requirements. Includes:

- (1) tangible physical items comprising the inventory of federal real property that can be referenced by location;
- (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.

Work: change management that consists of planning, programming, acquisition, operations, maintenance, revitalization, evaluation, and disposal actions affecting real property and other related entities.

FMS Entity Set Definitions

Financial: planning, programming, and execution of appropriations associated with real property management

Environmental: defines the stewardship responsibilities as they relate to the environmental management practices.

Public Safety: Issues related to the protection of personnel and property

Organization: a structured grouping of personnel and the roles they perform as it relates to an integrated work environment

Information Security: controlled access to data and information as it relates to the roles of personnel.

FMS Framework (proposed)

Entity Sets	Entity Classes	Entity Subclasses
Assets	Equipment	Industrial Minor Property Personal
	Facility	Building Structure Utility
	Land	Improved Other Semi-Improved Unimproved

FMS Framework (proposed)

Entity Sets	Entity Classes	Entity Subclasses
Assets (cont.)	Non Tangible	Proposed Leases Proposed Assets
	Transportation	Material Handling Equipment Vehicles Weight Handling Equipment

FMS Framework (proposed)

Entity Sets	Entity Classes	Entity Subclasses
Work	Construction	Alterations Improvements Repair/Demolition Maintenance
	Equipment	Installation Maintenance Disposal
	Lease	Building Relocatable Equipment Land

FMS Framework (proposed)

Entity Sets	Entity Classes	Entity Subclasses
Work (cont.)	Operations Service	Transportation Utility Airfield Real Estate Range & Training Design Inspection Custodial Moves

Entity Sets

Financial

Entity Classes

Civilian Workforce

Contracts

General

Material

Training

Travel

Entity Subclasses

FMS Framework (proposed)

Entity Sets

Environmental

Entity Classes

Conservation

Entity Subclasses

Watershed/Source Water

Wetlands Management

Cultural/Historical Resources

Endangered Species

Fish/Wildlife

Forestry

Land Use Management

Public Education

Recreation

FMS Framework (proposed)

Entity Sets

Environmental

Entity Classes

Conservation (cont.)

Sampling

Entity Subclasses

Habitats/Ecosystems
 Pest Control
 Erosion Control/Shoreline
 Horticulture
 Landscape
 Field Sample Collection
 Lab Sample Analysis
 Field Sample Analysis
 Results & Validation

FMS Framework (proposed)

Entity Sets	Entity Classes	Entity Subclasses
Environmental	Pollution Prevention	Fuel Hazardous Material Risk Management
Environmental	Restoration	Preliminary Assessment Site Assessment Confirmation Study Record of Decision State Coordination Remedial Design Remedial Action Long-Term Monitoring UXO Clean-up

FMS Framework (proposed)

Entity Sets	Entity Classes	Entity Subclasses
Environmental	Compliance	NPDES Permits Air Emission Permits Solid/Hazardous Waste Regulated Storage Tanks Drinking Water Quality Right-to-Know Toxic Releases NEPA/Sustainable Dev. Asbestos Noise Environmental Audits Air Quality Toxic Substances

FMS Framework (proposed)

Entity Sets	Entity Classes	Entity Subclasses
Public Safety	Explosives	Ordnance Inventory Mishap UXO
	Fire	Suppression Prevention
	Environmental	Training Ergonomics
	Force Protection	
	Occupational Safety & Health	
	Emergency Response	

FMS Framework (proposed)

Entity Sets	Entity Classes	Entity Subclasses
Organization	People	Civilian Military Contractors
Info Security	Roles Workflow Applications Databases Networks	

FMS FY 01 Tactical Plan

Entity Set Assets: should be supported by Component 6 of the FMS project 96.015.

Component 9 will be used to develop a high level FM data model based on the FM Framework.

Entity Set Work: Project 01.039 will require some more follow up work based on a continued effort.

Component 7 of FMS could be used to support Work

Component 8 of FMS for Civil Works could support Entity Class Operations.

Entity Set Environmental: will be supported by Project 01.040 that will identify some of the NEPA subcategory data needed.

Also recommend that Project 01.016 be assessed to determine if the effort can support more of the Environmental entity set. YTBD.

Recommend that we finish the definitions for the Focus Areas and Associated Areas of the FMSFIE based on the Corporate Staff definitions.

FMS FY 02 Tactical Plan

Entity Set Assets: Propose working on the Land Class

**Entity Set Work: Propose either focusing on Equipment or Lease
Entity Class**

**Entity Set Environmental: Restoration,
Compliance, and or Pollution Prevention**

**Project will support the Building Subclass component
breakdown taking the AEC attributes and determining the data
model for Buildings ???**