

Facility Management Standard

for facilities, infrastructure, & environment

**Project Overview, Major FY03
Accomplishments, & Projected FY04 Priorities**

CADD/GIS Technology Center

January 16, 2004

Facility Management Standard (FMSFIE)

Facility Management Standard for facilities, infrastructure, & environment

- **Acronym - FMSFIE**
- **CADD/GIS
Technology Center
Project No. 96.015**



- **Website - <http://tsc.wes.army.mil/products/tssds-tsfmts/fms/fmsprods.asp>**

Facility Management Standard (FMSFIE)

Basic Goals:

- Provide Data Content Standard to support Facility Management (FM) at Military Installations and USACE Civil Works Projects.
 - Facilitate compliance with legal reporting requirements.
- Improve efficiency and lower costs associated with collection, management, analysis, and reporting of FM data.
- Provide Non-Proprietary Data Content Standard to Facilitate Sharing of FM Data.



Facility Management Standard (FMSFIE)

Products:

- FM Data Content Standard
- Interactive Software Tools
- Implementation Guidance
- Distribution via CD-ROM and Internet download
 - Release 2.30 to be available on CD-ROM in October 2003.
- Internet Web Site



Facility Management Standard (FMSFIE)

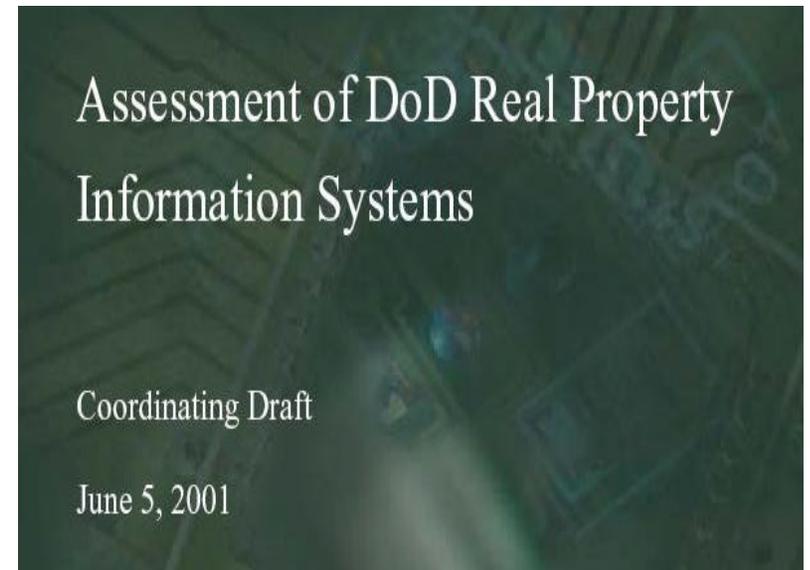
- Component 1 – Prepare Technical Content/Guidance
- Component 2 – Prepare Software Tools for FMSFIE Release
- Component 3 – Conduct FMSFIE Development Meetings
- Component 4 – Develop Data Models
- Component 5 – Expand Federal Real Property Management Regulations Web Site



Facility Management Standard (FMSFIE)

Coordination:

- FM Focus Group
- Patuxent River Naval Air Station
- Army Integrated Facilities System (IFS)
- Air Force Interim Work Information Management System (IWIMS)
- Air Force Automated Civil Engineer System (ACES)
- Internet Navy Facility Assets Data Store (NFADS).
- USACE Facilities and Maintenance System (FEM)
- OSD Real Property Enterprise System (RPES)

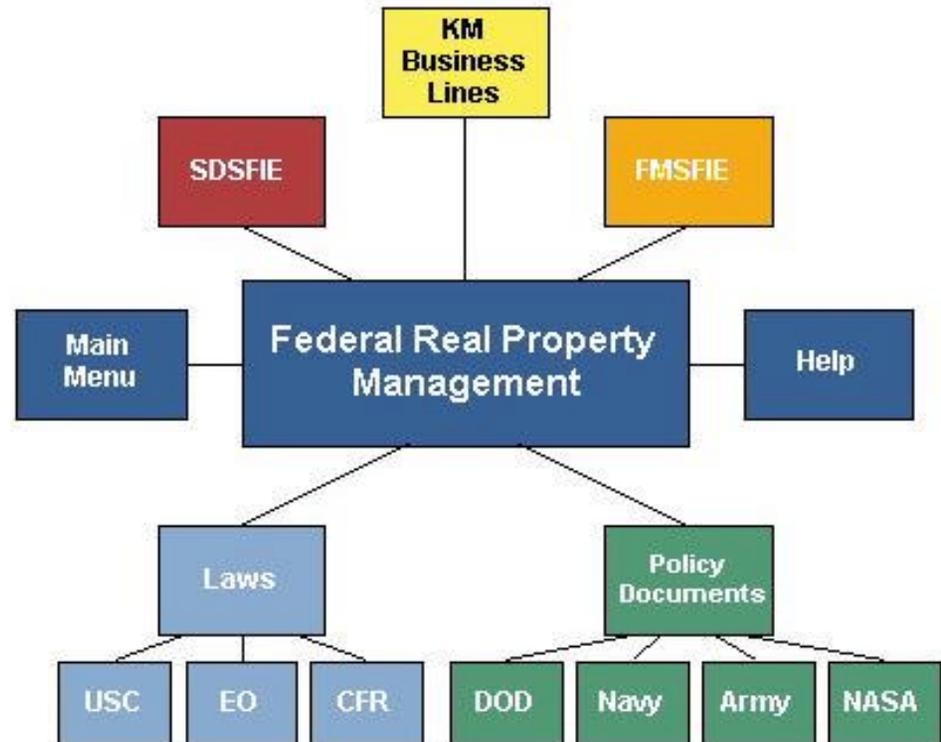


- Defense Information Systems Agency (DISA)

Facility Management Standard (FMSFIE)

Federal Real Property Management (RPM):

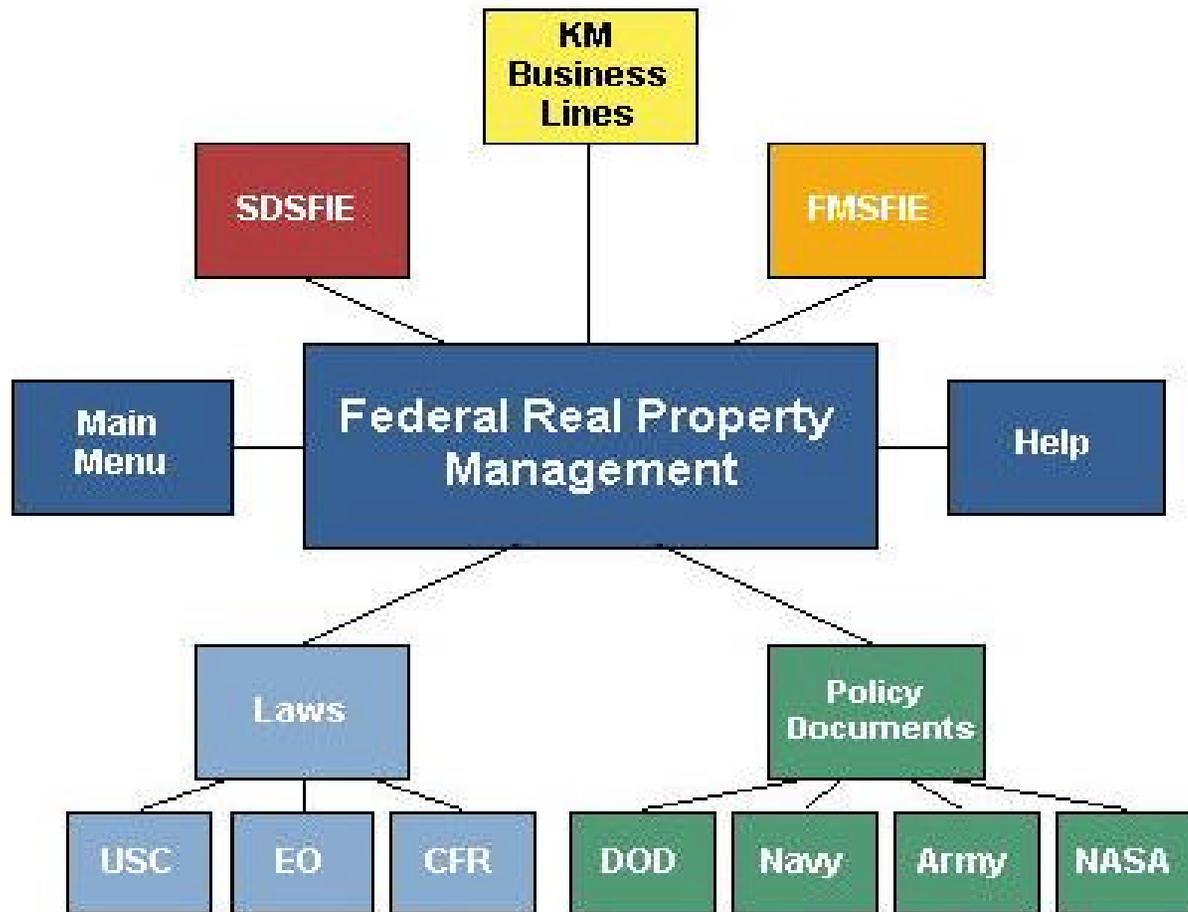
- Web Site contains U.S. Codes and Executive Orders governing acquisition, maintenance, and disposal of Real Property holdings.
- Provides Traceability Matrix listing of Federal Legal Reporting Requirements Supported by FMSFIE and SDSFIE. Coverage expanded each Fiscal Year.
- Provides web-based Browser for FMSFIE Data Dictionary, with active link to FMSFIE Microsoft Access Database.



• Web Site URL – <http://rpm.wes.army.mil/>

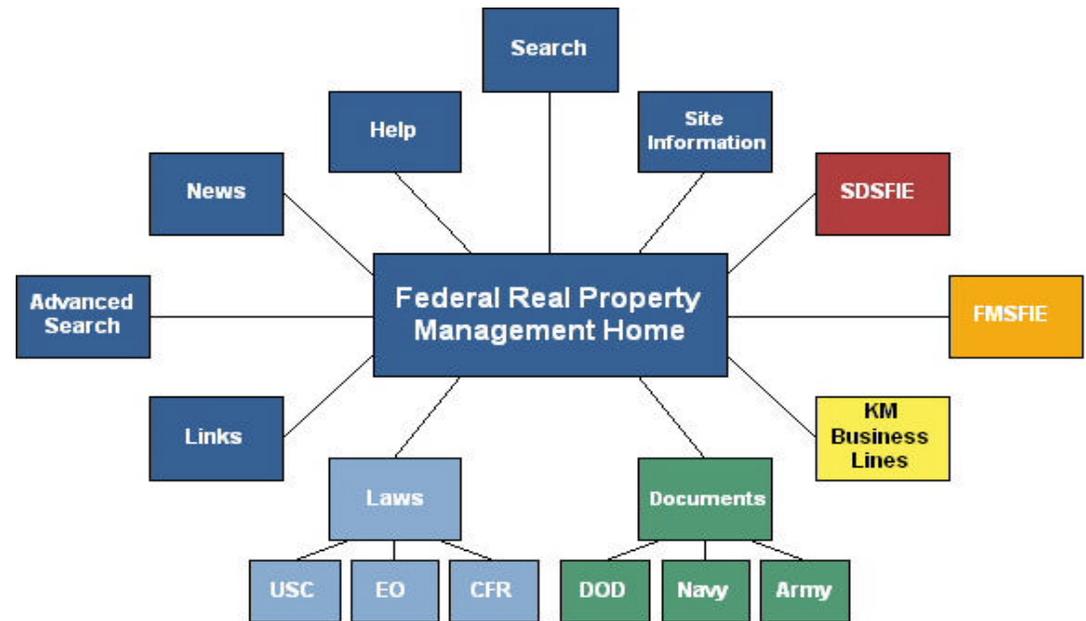
Facility Management Standard (FMSFIE)

Federal Real Property Management Website:



Federal Real Property Management Regulations (RPM) Web Site

- Web Site contains U.S. Codes and Executive Orders governing acquisition, maintenance, and disposal of Real Property holdings.
- Provides listing of Federal Legal Reporting Requirements Supported by FMSFIE.



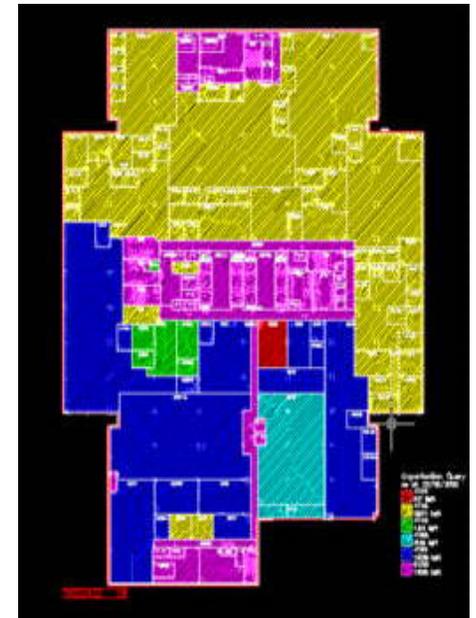
- Web Site URL – <http://rpm.wes.army.mil/>

Facility Management Standard (FMSFIE)

Federal Real Property Management (RPM)

website: <http://rpm.wes.army.mil/>

- Currently contains over 964 Laws & Policy Documents
- Contains Federal/DoD Laws/Regulations related to all 26 SDSFIE Entity Sets.
- Contains Federal/DoD Laws/Regulations related to all 169 SDSFIE Entity Classes.
- Contains Federal/DoD Laws/Regulations related to all 7 FMSFIE Entity Sets.



Facility Management Standard (FMSFIE)

Federal Real Property Management Website:

Site Document Information



Total Number of Laws and Policy Documents:	964
Laws:	606
United States Codes:	238
Executive Order:	76
Code of Federal Regulations:	274
Other Laws:	18
Policy Documents:	319
Department of Defense:	68
Navy:	172
Navy Claimancy:	112
Army:	48
Air Force:	1
Other Policy Documents:	14
External Document Links:	928

Facility Management Standard (FMSFIE)

Federal Real Property Management Website: FMSFIE Entity Sets

Laws Related To FMSFIE Entity: Assets				
United States Code				
Law Number	Title	Full Text	Traceability Matrix	Status
40 USC 285	Buildings under control of Administrator of General Services	Full Text	Related Information	Active
Executive Order				
Law Number	Title	Full Text	Traceability Matrix	Status
EO 12512	Federal Real Property Management	Full Text	Related Information	Active
EO 12803	Infrastructure Privatization	Full Text	Related Information	Active
			←	↑
<p style="text-align: right;">?</p>				
Policy Documents Related To FMSFIE Entity: Assets				
Department of Defense				
Document Number	Title	Full Text	Traceability Matrix	Status
DODI 4165.3	Uniform Facility Classes and Construction Categories	Full Text	Related Information	Active
DODI 4165.67	Revitalizing Base Closure Communities - Base Closure Community Assistance	Full Text	Related Information	Active
DODM 4145.19-R	Storage and Warehousing Facilities and Services	Full Text	Related Information	Active
Navy				
Document Number	Title	Full Text	Traceability Matrix	Status
OPNAV 11010.34	Instructions for Preparation and Submission of the Type	Full Text	Related Information	Active
NAVFAC				

FMSFIE Strategic Plan (FMSP) –

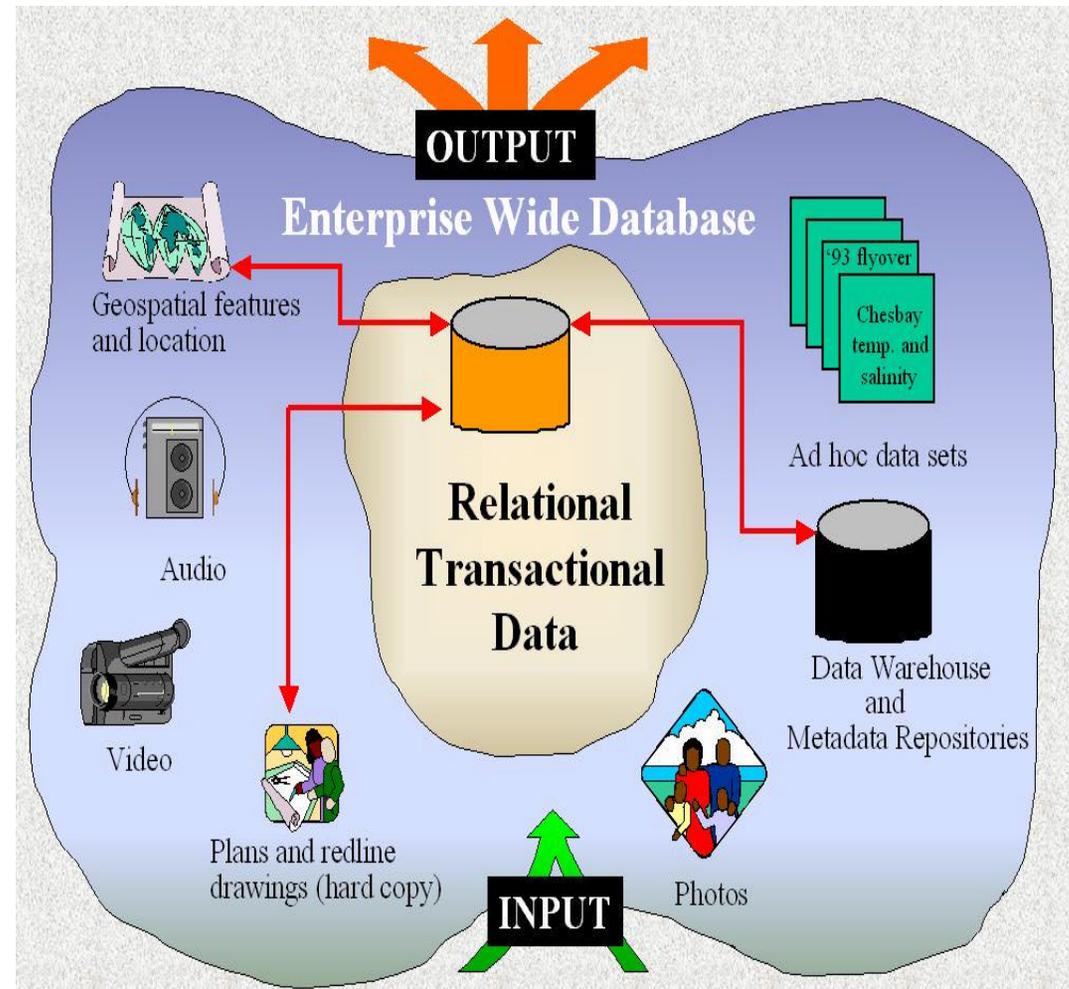
- **Provides goals and objectives for development of FMSFIE.**
- **Provides plan for migrating FMSFIE to a transactional data model.**
 - **FMSFIE initially developed as subset of SDSFIE.**
- **Initial Plan Developed in 2000. Updated periodically, as required.**



Facility Management Standard (FMSFIE)

Transactional FMSFIE –

- Will be designed for management of life-cycle FM data.
- Will be designed to share data (be integrated) with both GIS (the SDSFIE) & CADD (A/E/C CADD Standards) technology.
- Will be designed for implementation on an enterprise (i.e., installation wide) relational database.



Facility Management Standard (FMSFIE)

Transactional –

- 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.
- Real Time, Temporal Data.



Facility Management Standard (FMSFIE)

Federal Real Property Management (RPM):

Fiscal Year 2003 Content Status:

- Currently contains over 1,173 Federal Laws & Policy Documents
- Contains Traceability Matrix of Federal Legal Reporting Requirements supported by:
 - All SDSFIE Entity Sets (total of 26).
 - All SDSFIE Entity Classes (total of 169).
 - All FMSFIE Entity Sets (total of 7).
 - 33 FMSFIE Entity Classes.

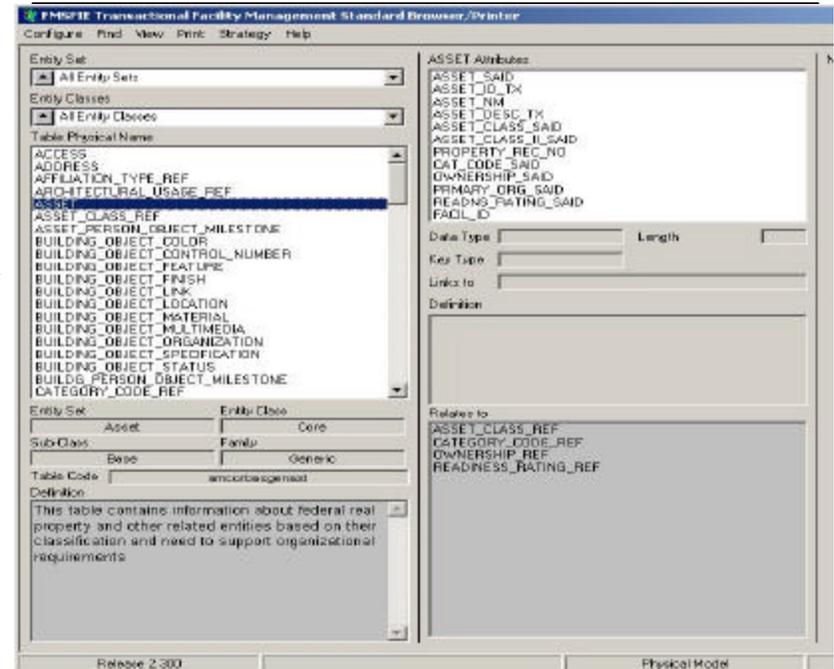
Site Document Information

Total Number of Laws and Policy Documents:	1173
Laws:	757
United States Codes:	265
Executive Order:	93
Code of Federal Regulations:	373
Other Laws:	25
Policy Documents:	366
Department of Defense:	73
Navy:	192
Navy Claimancy:	125
Army:	50
NASA:	32
Air Force:	1
Other Policy Documents:	15
External Document Links:	1144

Facility Management Standard (FMSFIE)

Major FY03 Accomplishments:

- Published first transactional FMSFIE release (FMSFIE Release 2.30) in October 2003.
- FMSFIE Release 2.30 contained 7 new Entity Sets, 39 new Entity Classes, 124 new Entity Subclasses, 32 new Entity Families, 340 new Tables (Adopted & Candidate), and 5,033 new Domain Values.
- Revised and expanded FMSFIE Website.
- Federal Real Property Management Database and Website expanded to include 1,173 Federal Laws and Policy Documents.
- Prepared “FMSFIE Naming Conventions & Structure Specification” white paper.



PI – Bobby Carpenter

FY03 Major Accomplishments

Facility Management Standard (FMSFIE)

Fiscal Year 2004 Priorities:

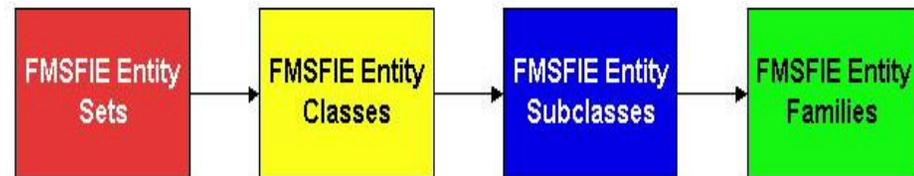
- Provide 2 Updates of FMSFIE Data Library and Toolbox:
 - FMSFIE Release 2.31 – March 2004
 - FMSFIE Release 2.40 – October 2004
- Expand Transactional Data Models:
 - Asset Management – Buildings & Utilities
 - Environmental Management - Compliance & Sampling
- Expand RPM Website and Content.
- Develop FMSFIE Implementation Guidance.



Facility Management Standard (FMSFIE)

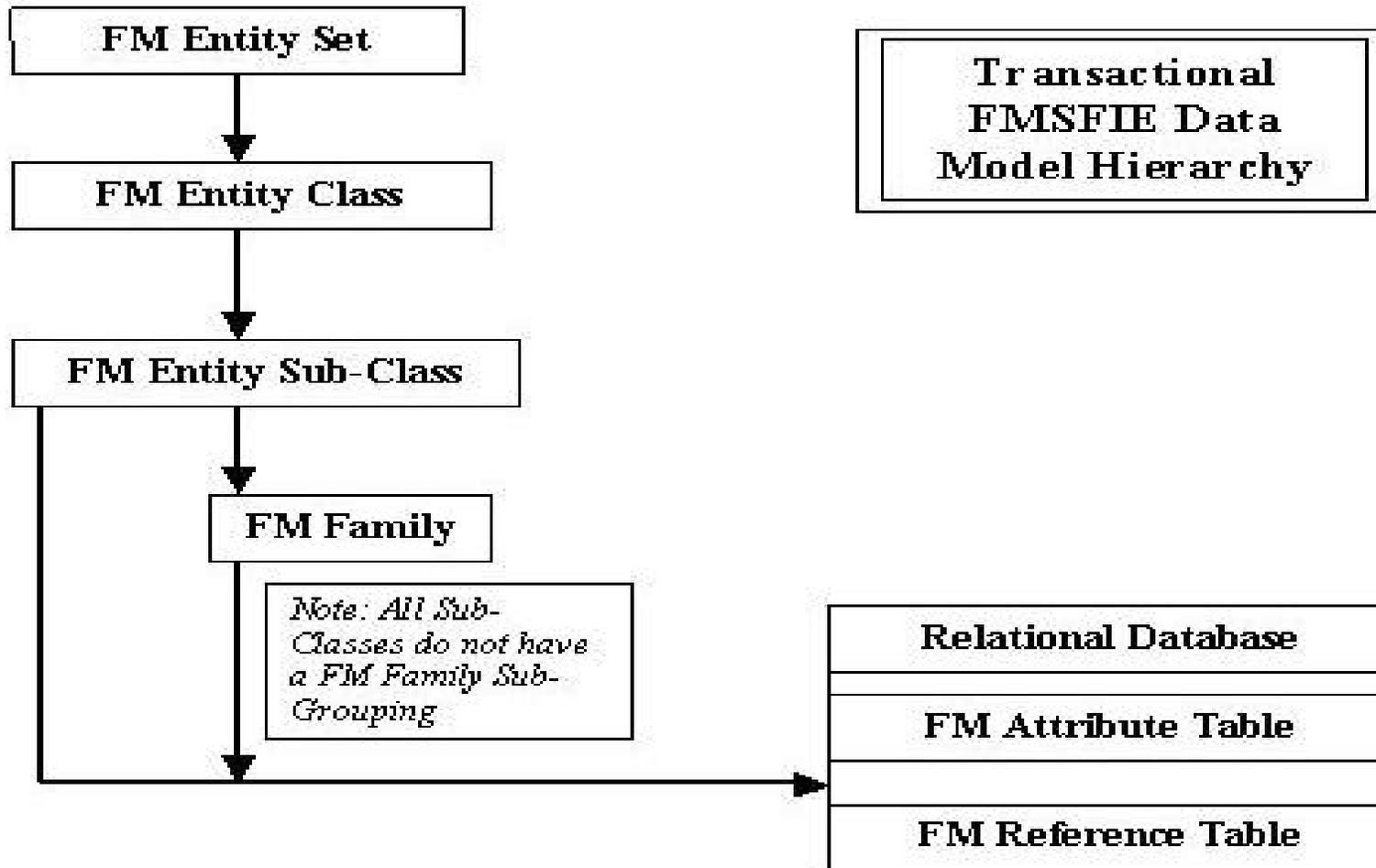
FMSFIE Release 2.30:

- Supports basic Federal Legal Reporting requirements for Asset Management.
- FMSFIE Browser provides viewing and printing capability of FMSFIE data dictionary.
- Data Model:
 - Entity Sets – 7
 - Entity Classes – 39
 - Entity Subclasses – 124
 - Entity Families – 32
 - Tables (Adopted & Candidate) – 340
 - Attributes – 806
 - Domain Values (Adopted & Candidate) – 5,033
- Distributed via Internet download and CD-ROM.



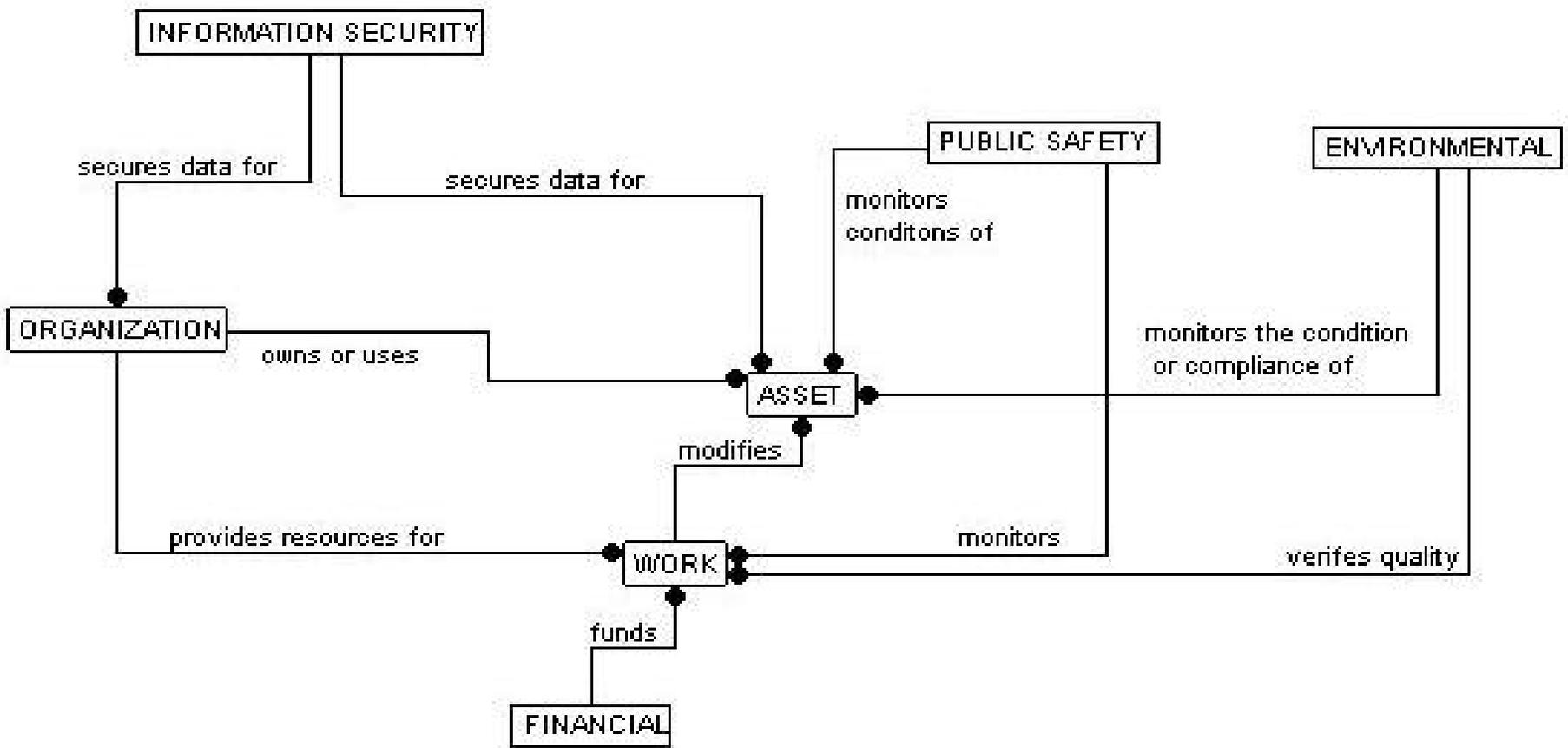
FMSFIE Website - <http://tsc.wes.army.mil/products/tssds-tsfms/fms/fmsprods.asp>

Facility Management Standard (FMSFIE)



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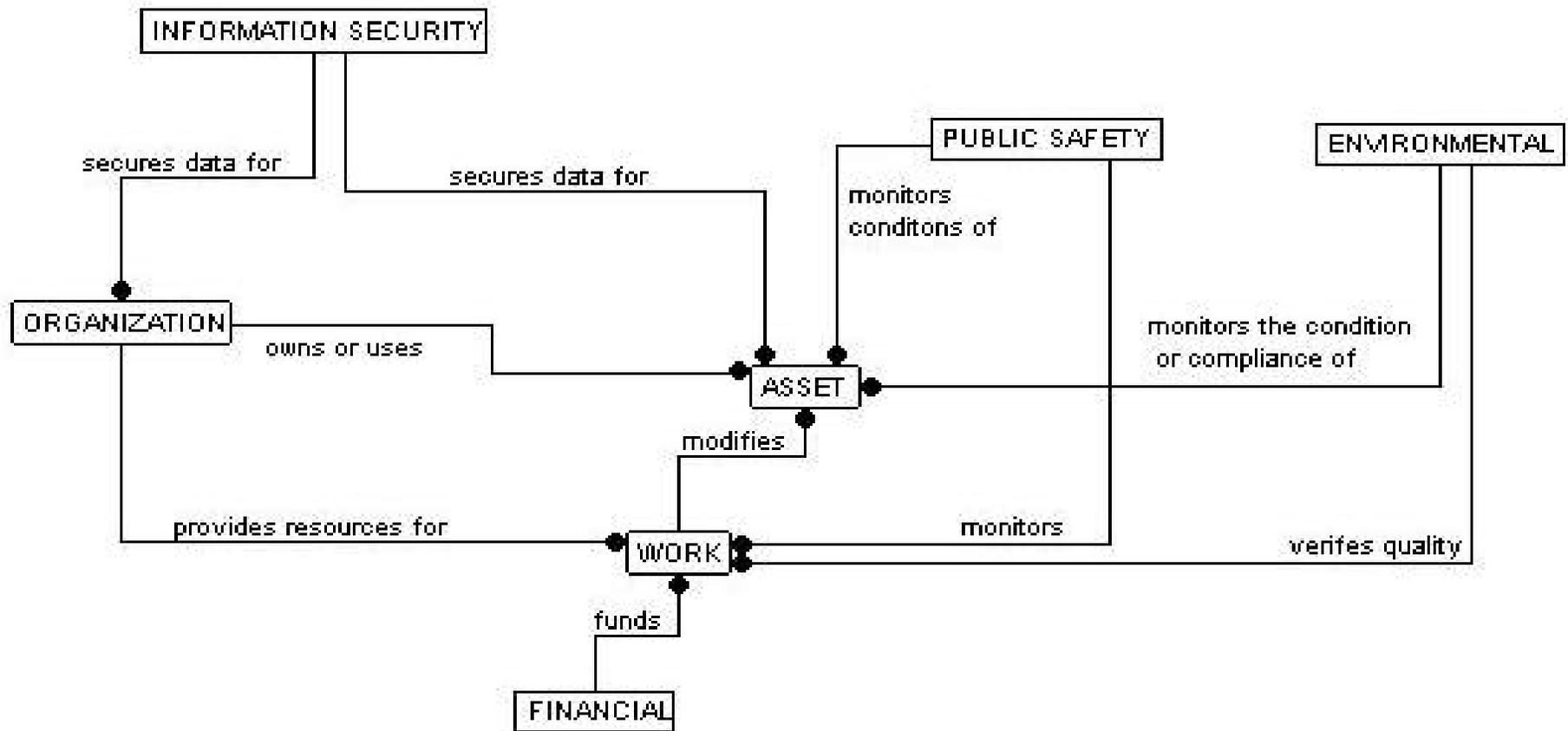
Transactional FMSFIE Entity Set Conceptual Model:



Transactional FMSFIE –

- Will include seven Entity Sets:
 - Assets
 - Work
 - Environmental
 - Organization
 - Public Safety
 - Information Security
 - Financial
- Guidelines for development determined by FM Focus Group.
 - Compliant with DoD (DISA) & International Standards Organization (ISO) requirements.

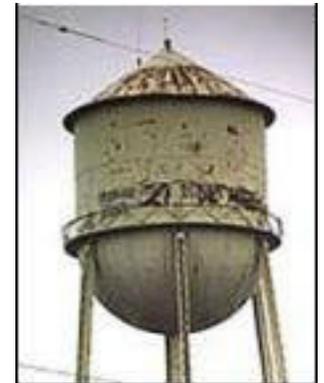
Facility Management Standard (FMSFIE)



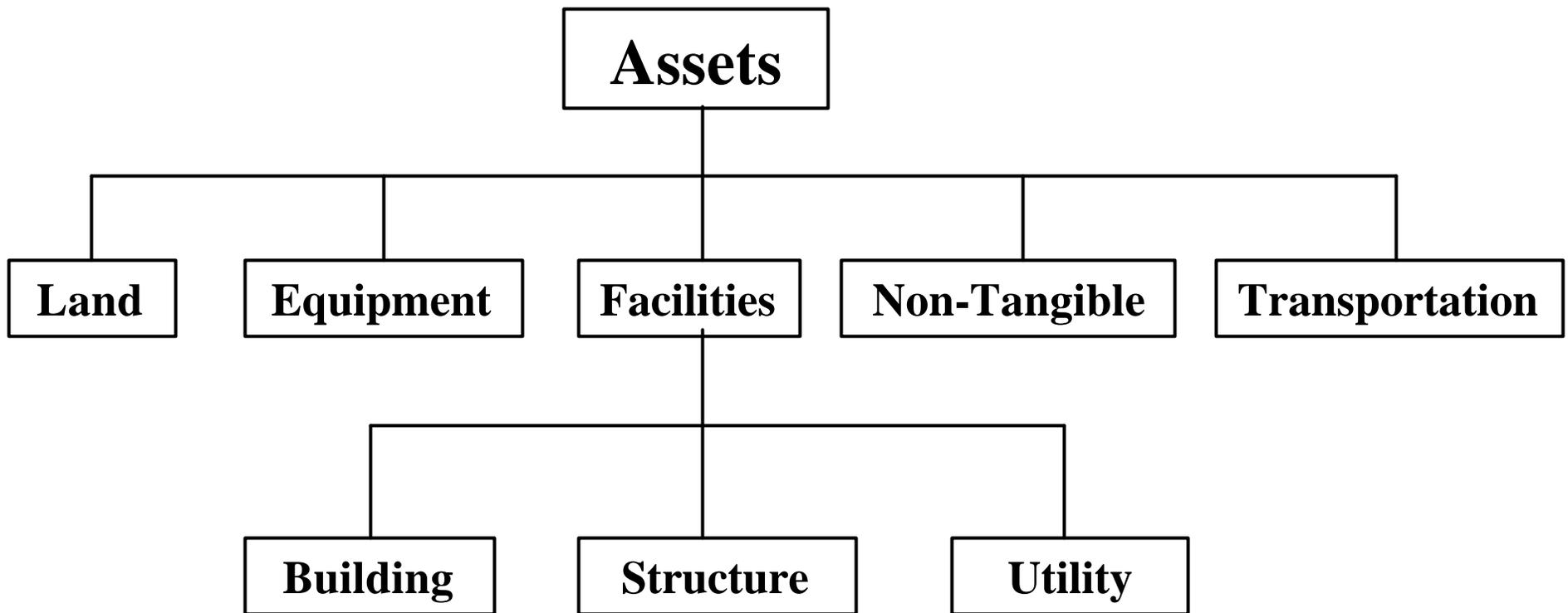
Facility Management Standard (FMSFIE)

Transactional FMSFIE:

- **1st Priority - Support basic Asset Management data requirements, with an emphasis on Building Management (Release 2.30).**
- **2nd Priority – Utility & Environmental Management.**

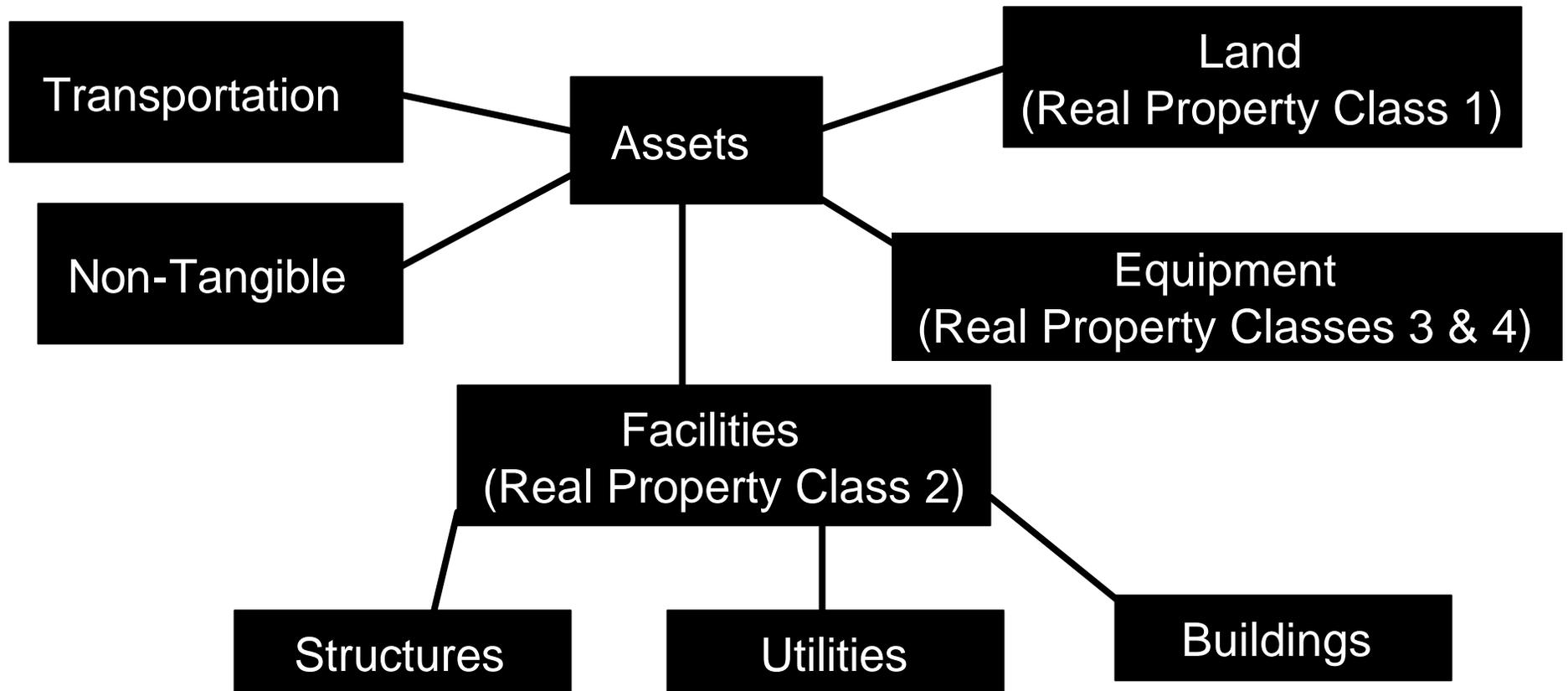


- **Assets Development Web Site -**
<http://tsc.wes.army.mil/products/tssds-tsfms/fms/projects/assets/assets.htm>



Facility Management Standard (FMSFIE)

Conceptual “Transactional” FMSFIE Assets Entity Set



Facility Management Standard (FMSFIE)

FMSFIE Release 2.30 Browser:

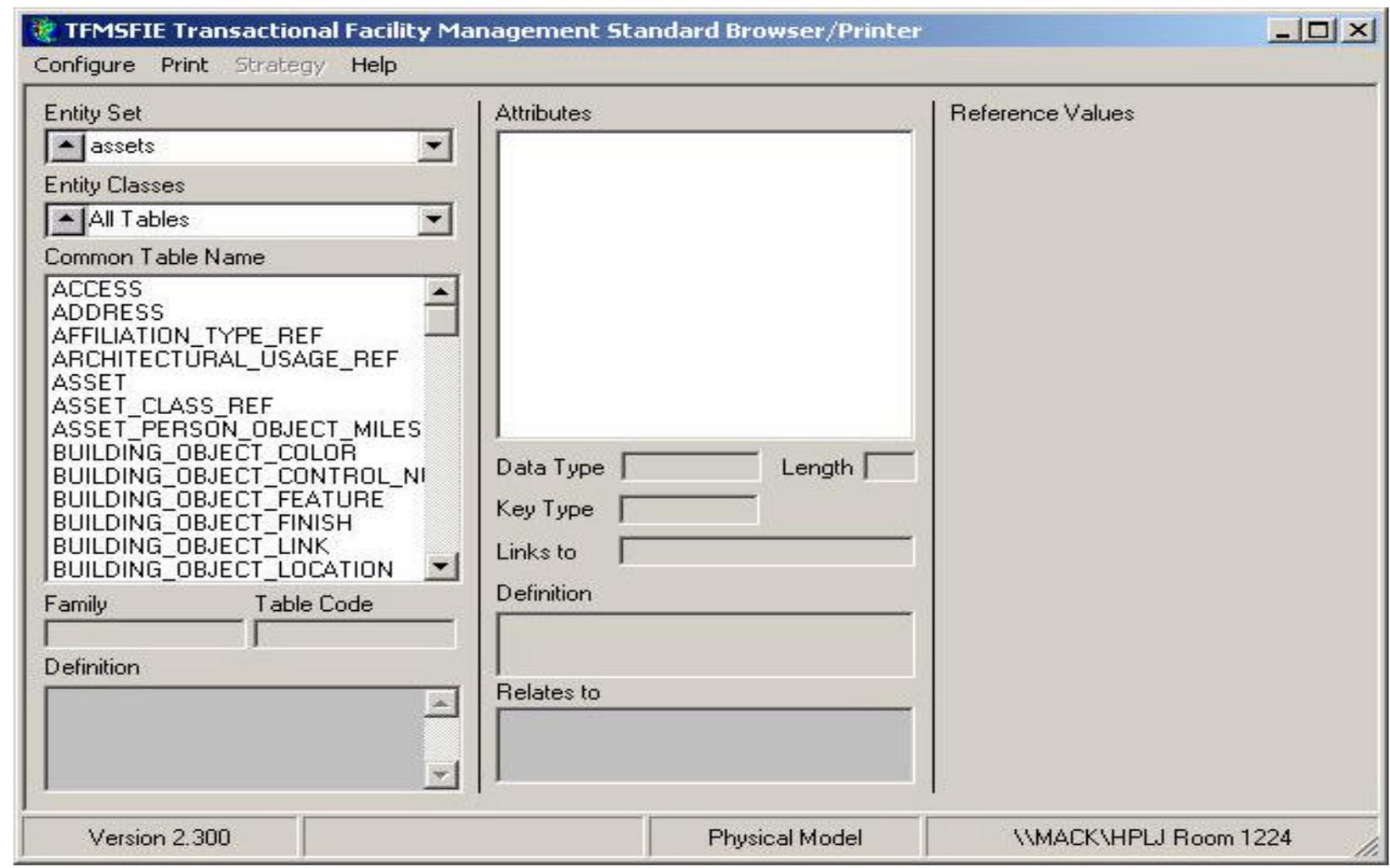
The screenshot displays the 'FMSFIE Transactional Facility Management Standard Browser/Printer' application window. The interface is divided into several sections:

- Entity Set:** A dropdown menu set to 'All Entity Sets'.
- Entity Classes:** A dropdown menu set to 'All Entity Classes'.
- Table Physical Name:** A list of tables with 'ASSET' selected and highlighted in blue. Other visible tables include ACCESS, ADDRESS, AFFILIATION_TYPE_REF, ARCHITECTURAL_USAGE_REF, ASSET_CLASS_REF, ASSET_PERSON_OBJECT_MILESTONE, BUILDING_OBJECT_COLOR, BUILDING_OBJECT_CONTROL_NUMBER, BUILDING_OBJECT_FEATURE, BUILDING_OBJECT_FINISH, BUILDING_OBJECT_LINK, BUILDING_OBJECT_LOCATION, BUILDING_OBJECT_MATERIAL, BUILDING_OBJECT_MULTIMEDIA, BUILDING_OBJECT_ORGANIZATION, BUILDING_OBJECT_SPECIFICATION, BUILDING_OBJECT_STATUS, BUILDG_PERSON_OBJECT_MILESTONE, and CATEGORY_CODE_REF.
- Entity Set:** A field containing 'Asset'.
- Entity Class:** A field containing 'Core'.
- Sub-Class:** A field containing 'Base'.
- Family:** A field containing 'Generic'.
- Table Code:** A field containing 'amcorbasgenast'.
- Definition:** A text area containing the description: 'This table contains information about federal real property and other related entities based on their classification and need to support organizational requirements'.
- ASSET Attributes:** A list of attributes including ASSET_SAID, ASSET_ID_TX, ASSET_NM, ASSET_DESC_TX, ASSET_CLASS_SAID, ASSET_CLASS_IL_SAID, PROPERTY_REC_NO, CAT_CODE_SAID, OWNERSHIP_SAID, PRIMARY_ORG_SAID, READNS_RATING_SAID, and FACIL_ID.
- Data Type:** A field for specifying the data type.
- Length:** A field for specifying the length.
- Key Type:** A field for specifying the key type.
- Links to:** A field for specifying links.
- Definition:** A large empty text area for the table's definition.
- Relates to:** A list of related tables including ASSET_CLASS_REF, CATEGORY_CODE_REF, OWNERSHIP_REF, and READINESS_RATING_REF.

At the bottom of the window, there are two status fields: 'Release 2.300' on the left and 'Physical Model' on the right.

96.015 – Facility Management Standard (FMSFIE)

Transactional FMSFIE Browser:



QUESTIONS?

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<http://tsc.wes.army.mil>



Transactional FMSFIE 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.

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