

# What is SDSFIE?

- 1992 Army, Navy, Air Force and Marine Corps established the Tri-Service CADD/GIS Technology Center at the US Army Engineer Waterways Experiment Station in Vicksburg, Miss.
- 1999 name was changed to The CADD/GIS Technology Center for Facilities, Infrastructure and Environment to reflect a broader mission beyond the DoD
- Center's primary mission was to serve as a multi-service vehicle for set CADD and GIS standards, coordinate CADD/GIS facilities systems within the DoD, promote CADD/GIS system integration, support centralized CADD/GIS hardware/software acquisition, and provide assistance for the installation, training, operation, and maintenance of CADD and GIS systems.
- 1993, the CADD/GIS Center was charged with developing a set of *Spatial Data Standards for Facilities, Infrastructure and Environment (SDSFIE)* for base comprehensive planning and facility management (FM) at DoD installations and Civil Works activities.

# SDSFIE Advisors

- The CADD/GIS Technology Center works closely with:
  - Other DoD authorities
  - FGDC
  - Defense Information Systems Agency
  - Defense Environmental Security Corporation Information Management
  - National Geospatial Intelligence Agency
  - Environmental Protection Agencyin the development of GIS and FM data standards.
- Nat'l and industry standards – those developed by the International Standards Organization (ISO) and the American Society for Testing and Materials (ASTM) have also been incorporated into the SDSFIE and FMSFIE
- The Center's GIS standards continue to evolve through time

# What are the Spatial Data Standards ?

- Large scale/high resolution geospatial data content and classification standards for *GIS and AM/FM*
- An integrated model of multi-thematic data content standards.
- An example of a Federal Geographic Data Committee data content standards *implementation.*

# SDSFIE User Benefits

- Standard GIS Data Collection Requirements
- One Training Program
- Common GIS Workflows for All Services
- Standard Implementation Procedures and Requirements
- Common Data Model which Permits the Sharing of Data

# SDSFIE Design Considerations

- GIS and CADD Software include:
  - **ESRI**                      **Intergraph**
  - **Bentley**                    **AutoDesk**
- Database Application Software includes:
  - **Informix**                  **Access**
  - **Oracle**                     **SQLServer**

# SDSFIE Data Model

- **Entity Sets** - Broad grouping for data management
- **Entity Classes** - Grouping of data within each Entity Set
- **Entity Types** - Grouping of Items that appear graphically on a map or drawing.
- **Attribute Tables** - A relational database table containing non-graphic information, or attribute data.
- **Domain Tables** - Contains lists of “valid” or “permissible” values for specific attributes in an Attribute Table. Can be list or range values. Can be altered in ArcCatalog.

# SDSFIE Keys

## SDSFIE Attribute Table's Key Types

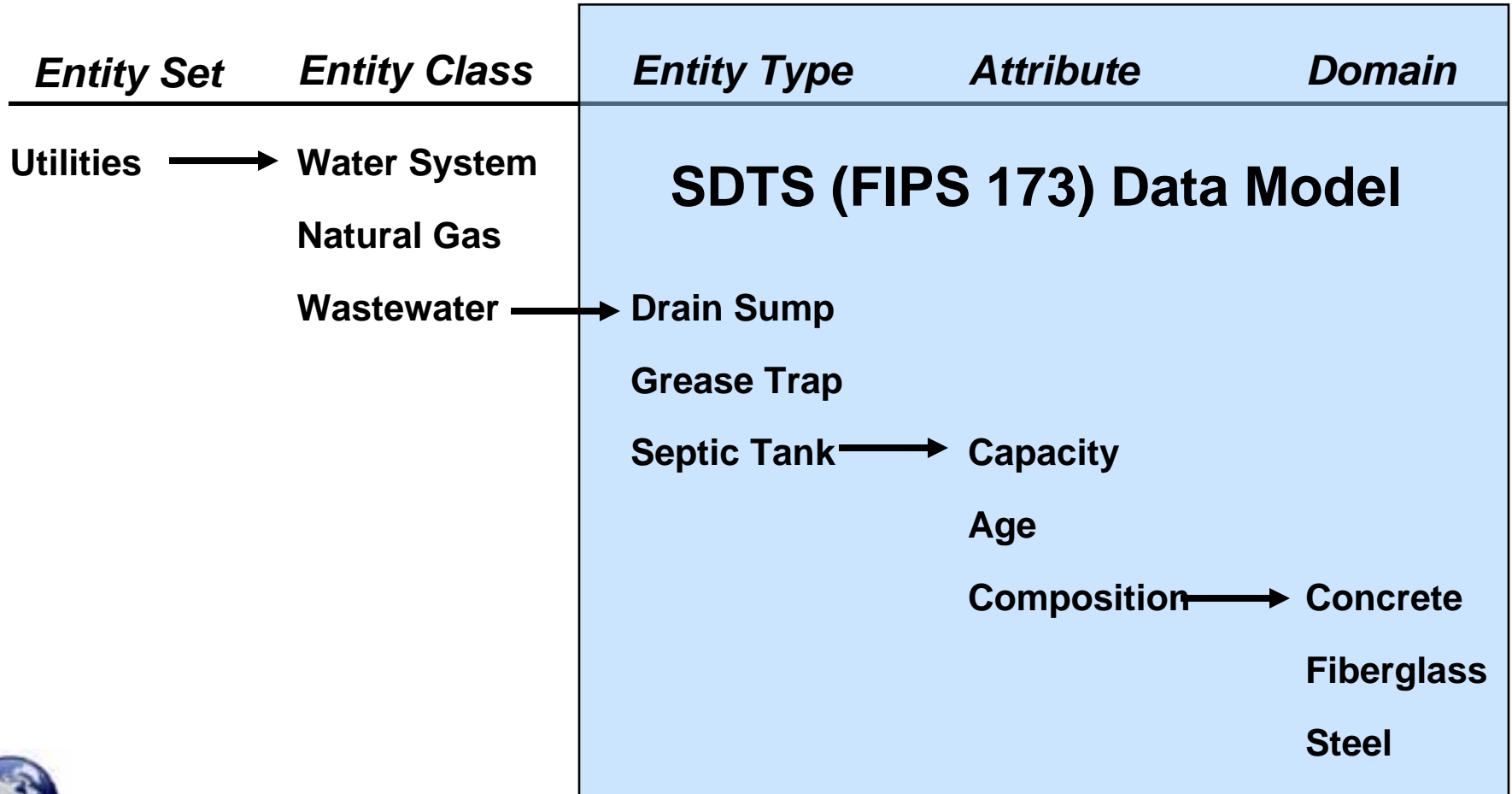
**GRAPHIC KEY** - contains the GIS Software Application key to ensure a link with the appropriate design file.

**PRIMARY KEY** - contains a user defined unique identifier for the record within the table. Since the GRAPHIC KEY is, in most cases, system assigned, the Primary Key can be used for retrieving data with a more user friendly key.

**FOREIGN KEY** - contains the same value as the Primary Key of the table where the record is linked. This value to value correspondence establishes the actual "Join".

**ALTERNATE KEY** - contains a Foreign Key link to an external database table.

# SDSFIE Data Model





# SDSFIE Browser

- **Spatial Data Standards “Browser”**

- Use to browse the SDSFIE “library” of entity sets, entity classes, entity types, tables, domains, etc.
- Self-contained Visual Basic Application
- Runs on Windows 98/2000/NT/ME/XP Personal Computer
- No Additional Software Required
- Distributed on the Internet and CD-ROM
- A “Living Application”; Versioning
- Release 2.6 available today
- Most current Version available for download from the CADD/GIS Technology Center Internet Web Site.

# SDSFIE Browser



- Connect**      **By Structure**
- Options**      **By Feature Name**
- Print Setup**      **By Feature Alias**
- Exit**      **By Keyword**
- By Data Source**

# SDSFIE Browser Lite

SDSFIE Geodatabase Browser (Lite)

Configure Find Print Filters Help

Entity Set  
All Entity Sets

Feature Dataset  
All Feature Datasets

Feature Class Name

- aboveground\_storage\_tank\_site
- access\_channel\_area
- acid\_concent\_contour\_line
- acid\_concentration\_area
- acm\_sevrl\_composite\_area
- acquisition\_boundary\_area
- aerial\_photo\_center\_point
- agency\_owned\_area
- agricultural\_outleaste\_area
- agricultural\_tract\_area
- ai\_accident\_zone\_area
- ai\_emissions\_source\_point
- ai\_poll\_nonafterment\_area
- ai\_pollution\_isoline\_area
- ai\_pollution\_plume\_area
- ai\_pollution\_source\_site
- ai\_pressure\_area

Entity Set: \_\_\_\_\_ Geometry Type: \_\_\_\_\_

Table Code: \_\_\_\_\_ Default Subtype: \_\_\_\_\_

Feature Dataset: \_\_\_\_\_

Definition: \_\_\_\_\_

Attributes

Data Type: \_\_\_\_\_ Length: \_\_\_\_\_

Domain Table: \_\_\_\_\_

Links to: \_\_\_\_\_

Definition: \_\_\_\_\_

Relates to: \_\_\_\_\_

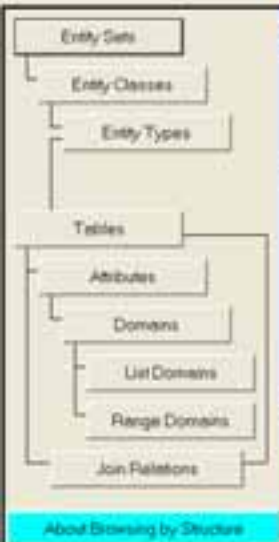
Reference Values

**SDSFIE  
Geodatabase  
Browser  
Lite**

CADD/GIS Technology Center  
Vicksburg, MS

Release 2.400 All Features Geodatabase Lite \\MACK\HPLJ\CAD LAB

ALLIED GIS  
We Map the World



### Entity Sets

**CADD GIS TECHNOLOGY CENTER**  
*Facilities, Infrastructure, and Environment*

Select an Entity Set

Entity Set Name:

Definition:

Entity Set Code:

Close Help Post Entity Set List

### Entity Classes

**CADD GIS TECHNOLOGY CENTER**  
*Facilities, Infrastructure, and Environment*

Select the desired Entity Class

Entity Class Name:

Entity Set Name:

Definition:

View Class Model

Class Code:

Design File Prefix:  Standard

No Change in Release 2.500

Close Help

Supporting Infrastructure versus Feature Entity Classes

SI Classes Only  ALL Included Entity Classes  SDFSIE Classes Only

### Entity Types

Show Entity Types for

Entity Type Name:

Entity Class Name:

Select the desired Entity Type

Definition:

Entity Set Name:

Object Type:  Standard

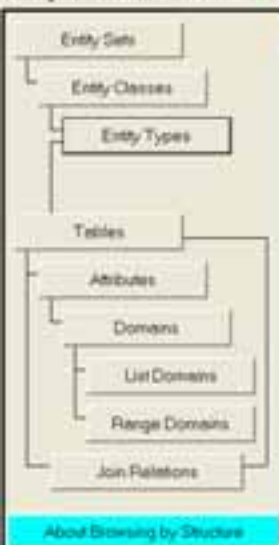
No Change in Release 2.500

Definition:

Add Entity Type to Custom Filter

Close Help





### Entity Types

Show Entity Types for

Utilities

Utilities\_water\_system

Select the desired Entity Type

- gas\_launch\_point
- utility\_drinking\_water\_sample\_collection\_point
- utility\_water\_utility\_site
- water\_node\_point
- water\_node\_test\_station\_point
- water\_line\_connection\_point
- water\_sling\_point
- water\_hydrant\_point
- water\_intake\_line
- water\_intake\_point
- water\_junction\_point
- water\_line**
- water\_marker\_point
- water\_meter\_point
- water\_pressure\_reducing\_station\_point
- water\_pump\_point
- water\_pump\_station\_site
- water\_rectifier\_point

**SDSFIE**  
*Facilities, Infrastructure, and Environment*

Entity Type Name:

Entity Class Name:

Definition | File/Table | Symbology | ...

Entity Set Name:

Object Type:

No Change in Release 2.500

Definition: A pipe used to carry water from location to location (main line, service line, vent line, etc.)

Add Entity Type to Custom Filter Close Help

### Tables

**CADD GIS TECHNOLOGY CENTER**

**SDSFIE**  
*Facilities, Infrastructure, and Environment*

Attribute Table Name:

Select the desired Table:

UtilitiesWater

UtilitiesWater

Utilities\_water\_system

- utilitiesand
- utilitiesat
- utilitiesf
- utilitiesl
- utilitiesd
- utilitiesn
- utilitiesr
- utilitiesm
- utilitiesb
- utilitiesp**
- utilitiesg

Definition | Entity Types | Joins

Standard:  Table Type:

This table contains data about a water system pipe

No Change in Release 2.500

Real Property Reporting

Add Table to Filter Close Help

Supporting Infrastructure versus Feature Entity Classes

Tables Only  ALL Included Attribute Tables  SDSFIE Tables Only

### Printing Table/Attribute Data

This screen prints the details of the Tables and Attributes in the SDSFIE. The current extent of the standards makes complete printing of the standard impractical. Therefore, this screen offers several alternatives.

**CADD GIS TECHNOLOGY CENTER**

Select the Printing Filter

Print Tabular Summary for All Entity Sets (Produces ~ 1000 Pages)

Print Tabular Summary for Entity Set

Print Tabular Summary for Entity Class

Print Tabular Summary for Single Table by Short Table Name  or

Long Table Name:

Supporting Infrastructure versus Feature Entity Classes

Tables Only  ALL Included Attribute Tables  SDSFIE Tables Only

Help Close Print the Indicated Selection





ENTITY SET NAME

utilities

ENTITY CLASS NAME

utilities\_water\_system

TABLE NAME

uwatpip

TABLE DEFINITION

TABLE LONG NAME

Water Line

This table contains data about a water system pipe.

TABLE TYPE

Graphic

KEY COLUMN

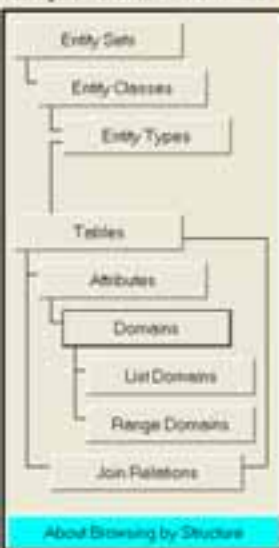
1440

VER

1.40

<u>DATA TYPE</u>	<u>CHAR LENGTH</u>	<u>DOMAIN TABLE</u>	<u>SOURCE</u>	<u>ATTRIBUTE NAME</u>	<u>DEFINITION</u>
Unique Data Identifier	I			<b>datalink</b>	Graphic Key. A unique identifier generated by Computer-Aided Design and Drafting (CADD) or Geographic Information System (GIS) software that is used to link the database record to a specific graphic feature.
Primary Key Identifier	C			<b>watpipe_id</b>	Primary Key. A unique, user defined identifier for each record or instance of an entity.
FOREIGN KEY JOIN to cmgenmap	I			<b>map_id</b>	Foreign Key. Used to link the record to the appropriate map.
FOREIGN KEY JOIN to cmgenmet	C			<b>meta_id</b>	Foreign Key. Used to link the record to the applicable feature level metadata record(s).
FOREIGN KEY JOIN to cmmedmed	C			<b>media_id</b>	Foreign Key. Used to link the record to associated multimedia records that reference data such as imagery, video, audio, scanned documents, drawings, and other digital media.
FOREIGN KEY JOIN to cmgenprd	C			<b>coord_id</b>	Foreign Key. Used to link the record to the appropriate point coordinate record(s).
Acquired Date	I			<b>date_acqrd</b>	The date on which the subject item was originally acquired or purchased. Format for date is YYYYMMDD (i.e., September 15, 1994 = 19940915).
Disposition Code	C	d_dpobj		<b>dispostn_d</b>	The status of the subject item (e.g., permanent, temporary, proposed, abandoned, etc.), from lists or entered from field inspections.
Use Discriminator Code	C	d_watpip		<b>use_d</b>	Discriminator. The use code for water pipes.
Type Code	C	d_pipety		<b>type_d</b>	The kind, class, or group of the subject item.
Material Composition Code	C	d_pipmat		<b>mat_d</b>	The material composition of the subject item, such as wood, concrete, steel, cast iron, plastic, etc.
Size Code	C	d_vpida		<b>size_d</b>	The manufacturers designated size, or nominal (i.e., rounded to the nearest unit) diameter for the subject item (e.g., 1/2 in gas hydrant, 2 in meter, 6 in pipe).
Length Dimension	R			<b>pipe_lgth</b>	The length of pipe, measured from node to node along the pipe centerline.
Dimension Unit of Measure Code	C	d_uomdis		<b>dim_u_d</b>	The unit of measure for length dimensions.





### Tables

CADD GIS TECHNOLOGY CENTER  
Facilities, Infrastructure, and Environment

Attribute Table Name:

Select the desired Table

**Definition** | Entity Types | Joins

Standard:  Table Type:

This table contains data about a water system pipe.

No Change in Release 2.500

Real Property Reporting

Supporting Infrastructure versus Feature Entity Classes

### Attributes

CADD GIS TECHNOLOGY CENTER

Attribute Table Name:

Attribute Name:  Full or Common Attribute Name

Select the Table and Attribute

**Definition** | Domain |

Data Type:  Character Length:

Table Position:  Standard:   Nulls Allowed

Displayable Attribute  Required  Discriminator

No Change in Release 2.500

The material composition of the subject item, such as wood, concrete, steel, cast iron, plastic, etc.

### Print Single/Multiple Domain Data

CADD GIS TECHNOLOGY CENTER

This screen can be used to print Domains and Values from the SDFSIE. The size and complexity of the SDFSIE makes printing of all List Domains extensive. Other alternatives are preferred.

Select the Printing Filter

Print All List Domain Tables (Produces ~ 366 Pages)

Print All Range Domain Tables

Print Single List Domain Table by Short Domain Name:

or

Long Domain Name:



## List Domain Tables Summary

SOSFIE Release - 2.318

February 18, 2008

DOMAINNAME

TABLENAME

DEFINITION

material list - pipe

4 - pipe.mxd

Allowable material values for pipe.

VERNON

DOMAINNUMBER

REFERENCE

1.40

200237

VALUE

DEFINITION

CODE

VERNON

VALUE	DEFINITION	CODE	VERNON
AL	Aluminum	AL	1.40
ABS	acrylonitrile butadiene styrene	ABS	1.40
ARRESTCEMENT	arrested cement	ARRESTCEMENT	1.40
BLACK_FE	black iron	BLACK_FE	1.40
BRICK	brick	BRICK	1.40
CEMENT	cement	CEMENT	1.40
CONCRETE	concrete	CONCRETE	1.40
CORRUGATEDAL	corrugated Aluminum	CORRUGATEDAL	1.40
CORRALBITUMEN	corrugated Aluminum with bituminous coating	CORRALBITUMEN	1.40
CORRALPAVDIV	corrugated Aluminum with paved cement	CORRALPAVDIV	1.40
CASTIRON	cast iron	CASTIRON	1.40
CORR_METAL	corrugated metal	<a href="#">List_Report.LIST DOMAINS.DEFINITION (Spray)</a>	1.40
CORRMETBITUM	corrugated metal with bituminous coating	CORRMETBITUM	1.40
CORRMETPAVDIV	corrugated metal with paved cement	CORRMETPAVDIV	1.40
CORR_STEEL	corrugated steel	CORR_STEEL	1.40
CORRSTELBITUM	corrugated steel with bituminous coating	CORRSTELBITUM	1.40
CORRSTELPAVDIV	corrugated steel with paved cement	CORRSTELPAVDIV	1.40
CU	Copper	CU	1.40
COATWRAPSTEL	coated and wrapped steel	COATWRAPSTEL	1.40
CREOSOTEDWOOD	creosoted wood	CREOSOTEDWOOD	1.40
DUCTILEFE	ductile iron	DUCTILEFE	1.40
FIBER	fiber	FIBER	1.40
FIBERGLASS	fiberglass	FIBERGLASS	1.40
GALVANIZEDFE	galvanized iron	GALVANIZEDFE	1.40
GALVANIZEDSTEEL	galvanized steel	GALVANIZEDSTEEL	1.40
GLASS	glass	GLASS	1.40
HELVOUND	horizontally-wound	HELVOUND	1.40
INSULATCONCR	insulating concrete	INSULATCONCR	1.40
METAL	metal conduit	METAL	1.40
MULTIPLECLAY	multiple clay	MULTIPLECLAY	1.40
MULTIPLETILE	multiple tile	MULTIPLETILE	1.40
OTHERMASONRY	other	OTHERMASONRY	1.40
PLASTIC	plastic	PLASTIC	1.40
POLYETHYLENE	polyethylene	POLYETHYLENE	1.40
POLYSTYRENE	polystyrene	POLYSTYRENE	1.40

Page 1 of 3





# GIS Data

**Entity Type**  
water\_line

**Attribute**  
mat\_d

**Domain Value**  
PVC

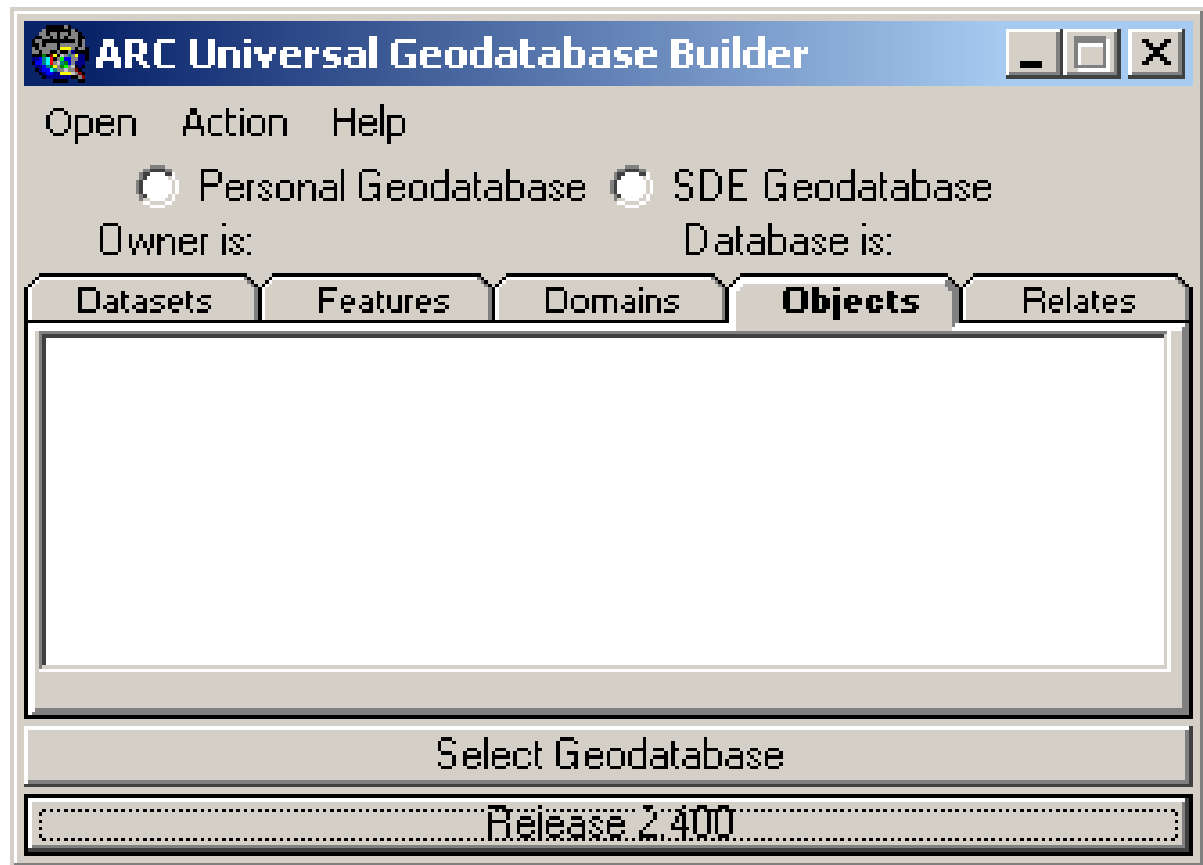
water_line	
datalink:	100004
pipe_id:	utwatpip0000000536
map_id:	234
meta_id:	utwatpip0000000007
media_id:	utwatpip0000000084
coord_id:	97894
date_acqrd:	19730818
dispostn_d:	PERMANENT
use_d:	MAIN
type_d:	CIRCULAR
mat_d:	PVC
size_d:	6
pipe_lgth:	PVC
dim_u_d:	REINFORCONCR
inv_elv_1:	REINFLASMOR
grnd_elv_1:	SINGLE_CLAY
inv_elv_2:	SINGLE_TILE
grnd_elv_2:	
elv_u_d:	FT

PVC	polyvinyl chloride
REINFORCONCR	reinforced concrete
REINFLASMOR	reinforced plastic mortar
SINGLE_CLAY	single clay
SINGLE_TILE	single tile

Record: 1 of 1

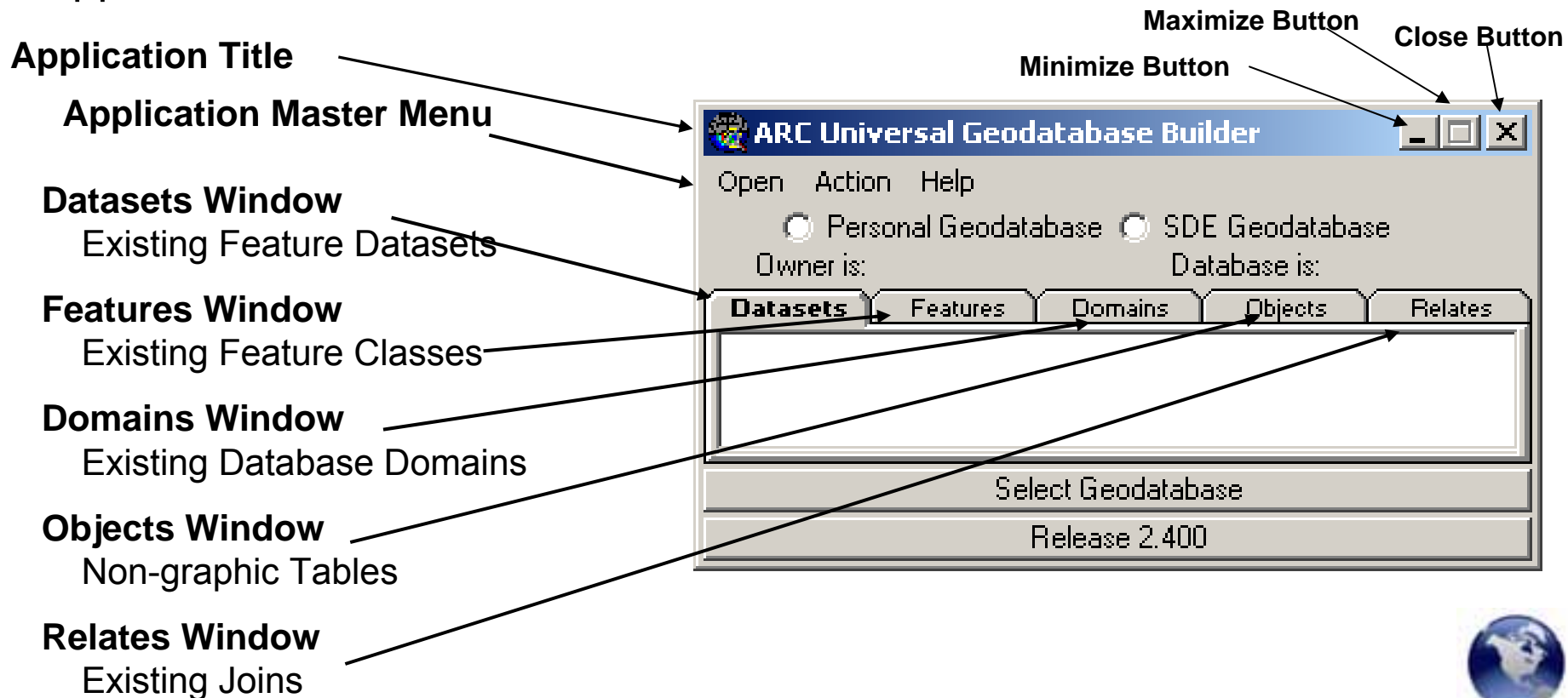
# SDSFIE Geodatabase Builder

**SDSFIE  
Geodatabase  
Builder** – Permits  
users to connect to  
and read the  
contents of a  
geodatabase for  
modification or  
upgrade, or build a  
new one.



# Geodatabase Builder Screen Layout

**CAPTION BAR** - The standard Windows Caption Bar containing the Application Title, Minimize/Maximize/Close Buttons, Control Menu, and Application Menu.



# Geodatabase Builder

## Menu Operations

**MENU HIERARCHY** - the complete SDSFIE Geodatabase Builder Menu Hierarchy appears as follows:

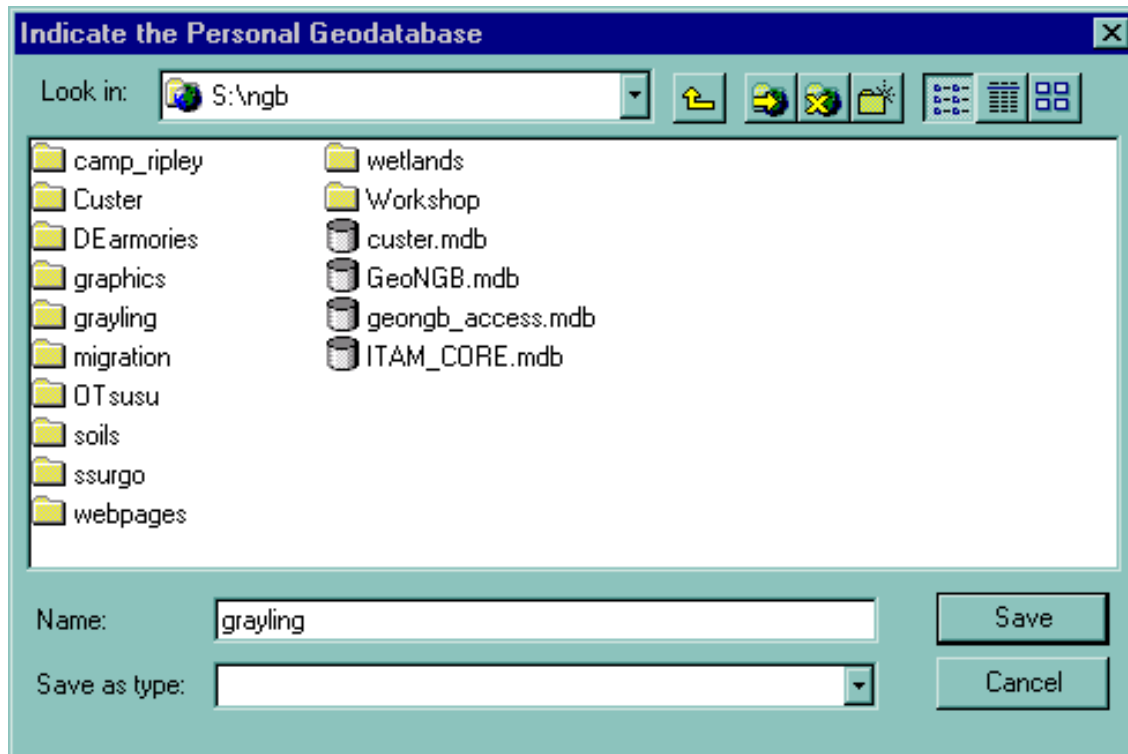


**Create Geodatabase**  
**Open Personal Geodatabase**  
**Open SDE Connection**  
**Library Connection**  
**Compact Database (if Personal)**  
**Exit**

# Geodatabase Builder

## Database Creation

**CREATE GEODATABASE** - this menu item is used to create a new Personal Geodatabase which can then be populated with SDSFIE data attributes and domains.



*A Standard Windows file save dialog to locate the path and name where the Geodatabase is to be created.*

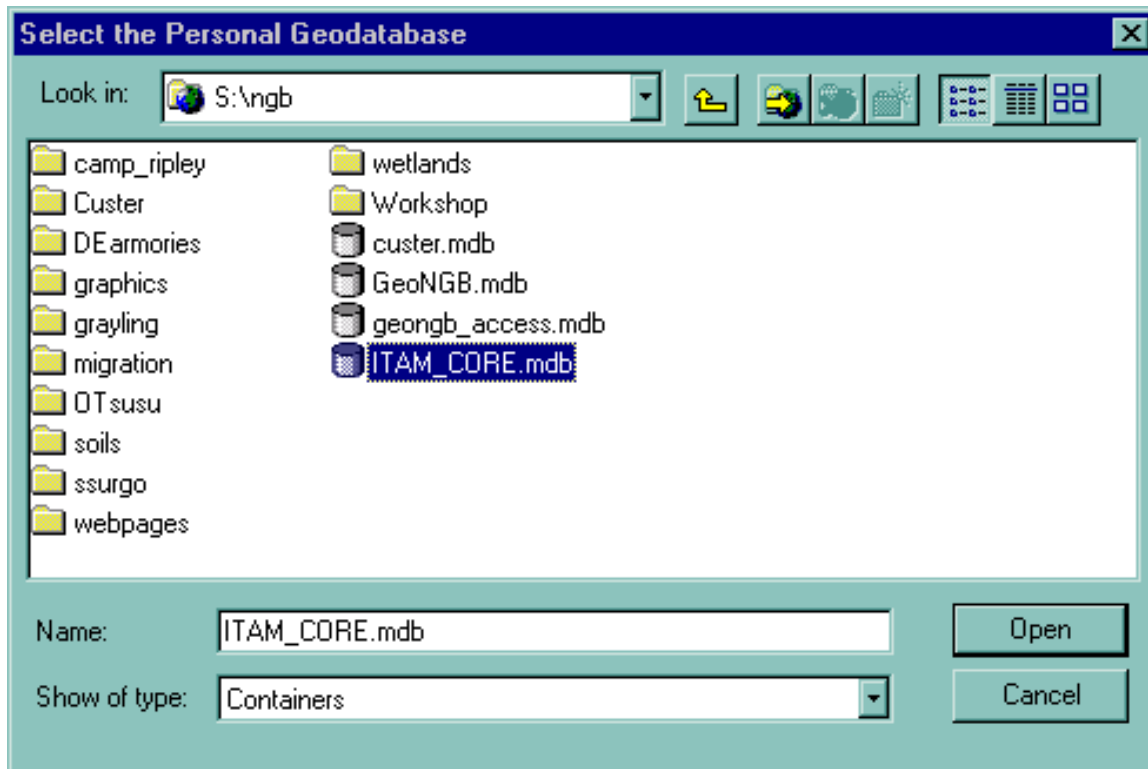
**SDE Connections MUST be configured in advance through ArcCatalog**



# Geodatabase Builder

## Database Open

**OPEN GEODATABASE** - this menu item is used to open an existing SDSFIE Geodatabase and read its contents.



*A Dialog similar in function to Geodatabase Catalog allowing users to see drive and folders where Personal Geodatabases may be located.*

# Geodatabase Builder

## Menu Operations

**MENU HIERARCHY** - the complete SDSFIE Geodatabase Builder  
Menu Hierarchy appears as follows:



**ARC Builder**  
**Contents/Index**  
**About the ARC Builder**

**List Feature Classes**  
**Candidate Table List**  
**Add Candidates to Geodatabase**  
**Build All Domains**  
**Delete All Domains**  
**Delete Relationship Classes**  
**Build Relationship Classes**  
**Add SDSFIE Metadata**

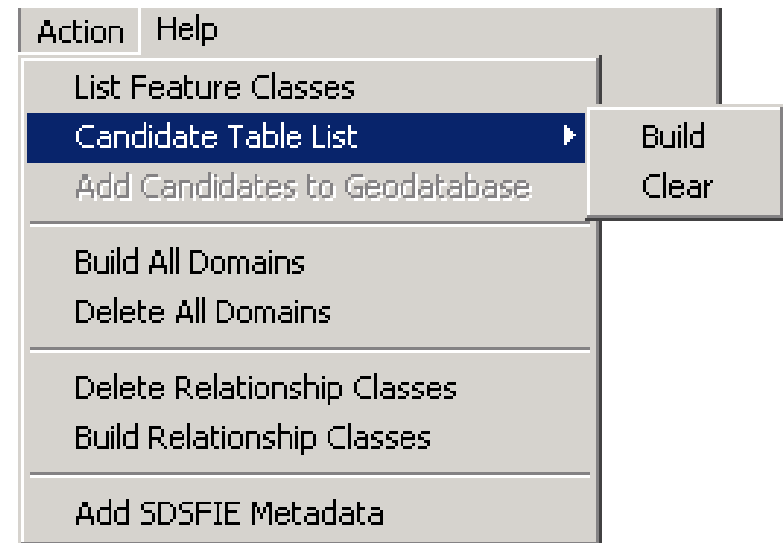
# Geodatabase Builder Menu Operations

**CANDIDATE TABLE LIST** – two submenu items are available.

**BUILD** – activates the SDSFIE Selection Dialog

**CLEAR** – clears the CANDIDATE window

Use the **BUILD** menu item to add to the Candidates List in the CANDIDATE Window and the **CLEAR** menu item to completely empty the CANDIDATE Window.





# Geodatabase Builder

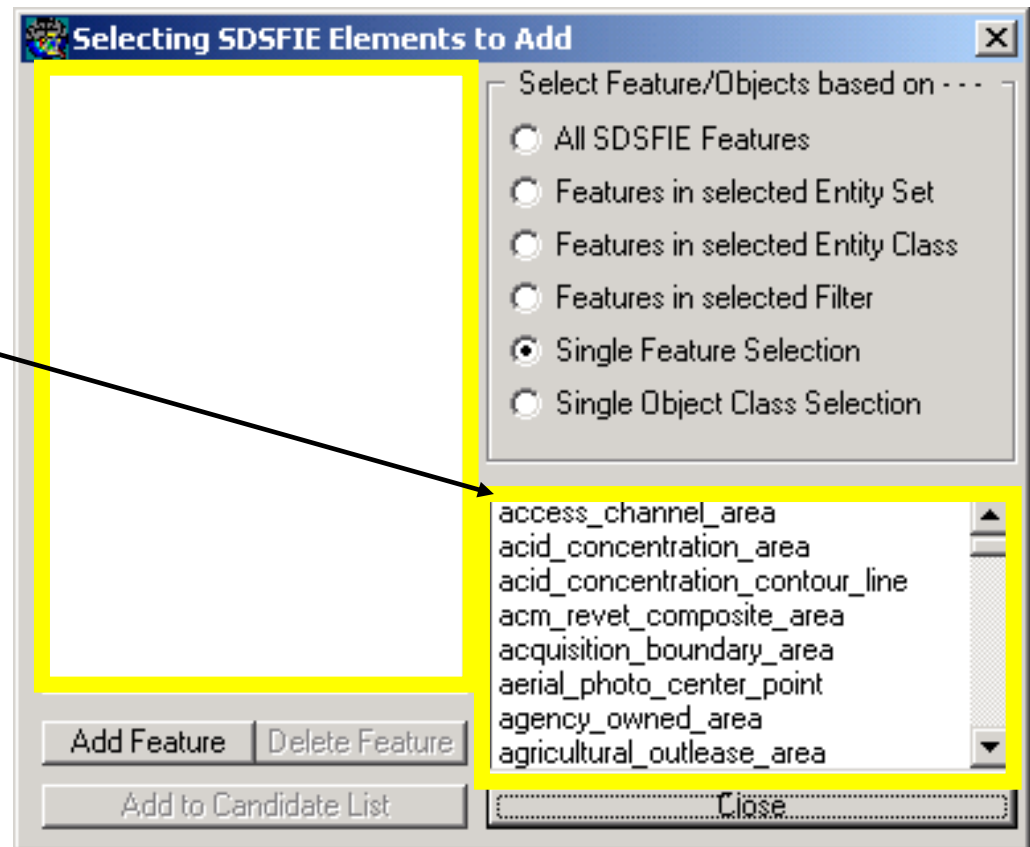
## Selecting Features

**BUILD CANDIDATE LIST** – displays the SDSFIE Selection Dialog

**SOURCE LIST** – a list of Entity Sets, Entity Classes, Filters, or Individual Tables included in the SDSFIE.

**DESTINATION LIST** – a list of the selected items which will become the basis for the Candidate Classes.

**Add to Candidates Button**  
Converts the Destination List to the Candidate List



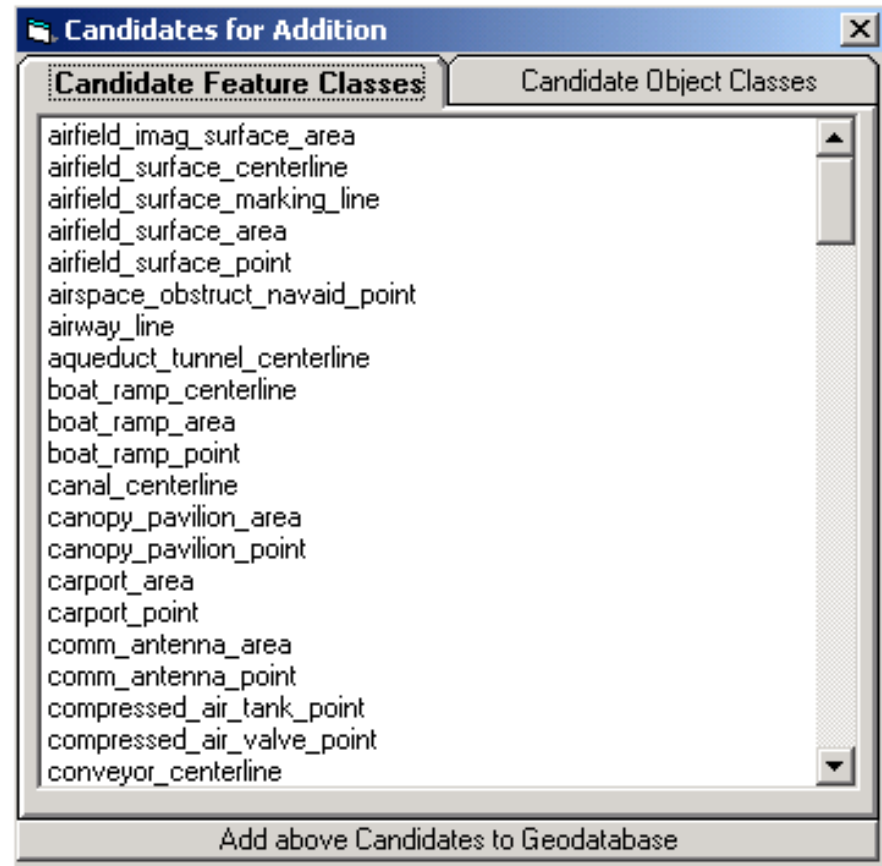
# Geodatabase Builder Candidates Window

**CANDIDATE WINDOW** – appears immediately after the “Add to Candidate List” is selected

Consists of two panels

**CANDIDATE FEATURE CLASSES** – a list of the SDSFIE Feature Classes which will be reviewed for addition to the Geodatabase.

**REMOVAL** – Individual Feature Classes may be removed from the list by clicking the right mouse button and selecting ‘DELETE’ or using the <DELETE>



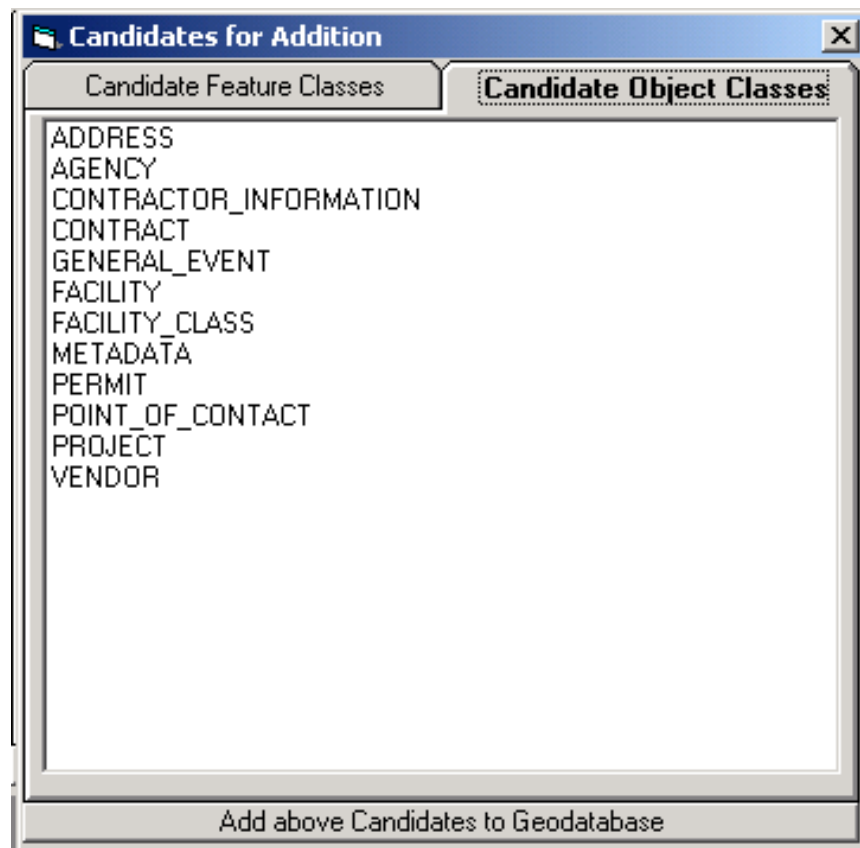
# Geodatabase Builder Candidates Window

**CANDIDATE WINDOW** – appears immediately after the “Add to Candidate List” is selected

Consists of two panels

**CANDIDATE OBJECT CLASSES** – a list of the FMSFIE Object Classes which will be reviewed for addition to the Geodatabase.

**REMOVAL** – Individual Object Classes may be removed from the list by clicking the right mouse button and selecting ‘DELETE’ or using the <DELETE>

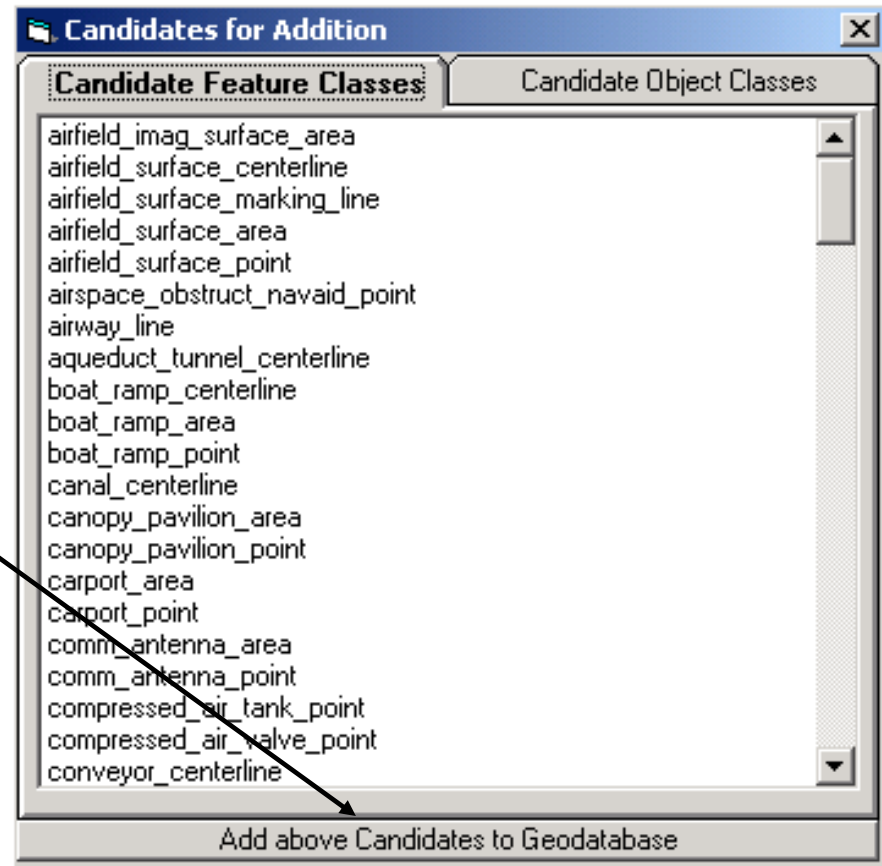


# Geodatabase Builder Candidates Window

WHEN ALL CANDIDATES HAVE BEEN DETERMINED

CLICKING ON THE BUTTON  
AT THE BOTTOM OF THE  
CANDIDATE WINDOW will  
begin the addition process.

Clicking on the button is exactly  
the same as menu item "*Add  
Candidates to Geodatabase*"



# Geodatabase Builder

## Addition Options

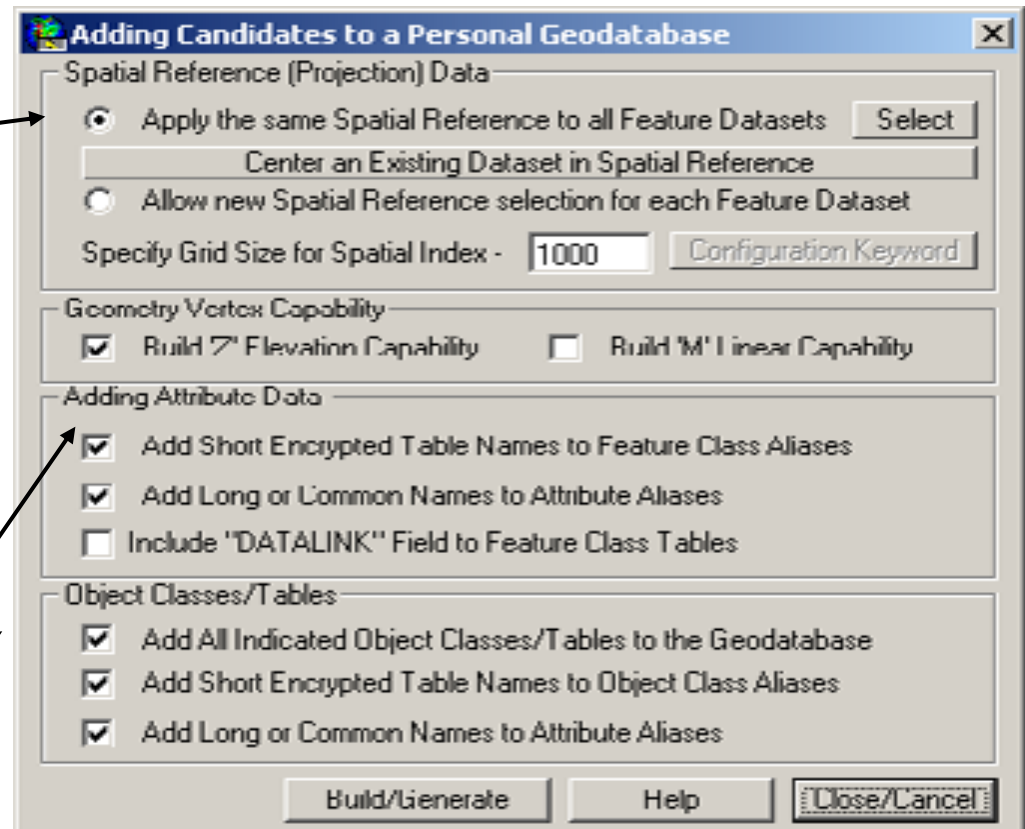
**ADD CANDIDATES TO GEODATABASE** – adds the defined candidate classes to the Geodatabase

**SPATIAL REFERENCE**– set it once or for each Feature Dataset

**GEOMETRY VERTEX CAPABILITY**– set it depending on your z and m values in your source data

**ADDING FEATURE CLASSES**– includes Long/Common Names, Aliases and definitions.

**ADDING OBJECT CLASSES** – includes Long/Common Names



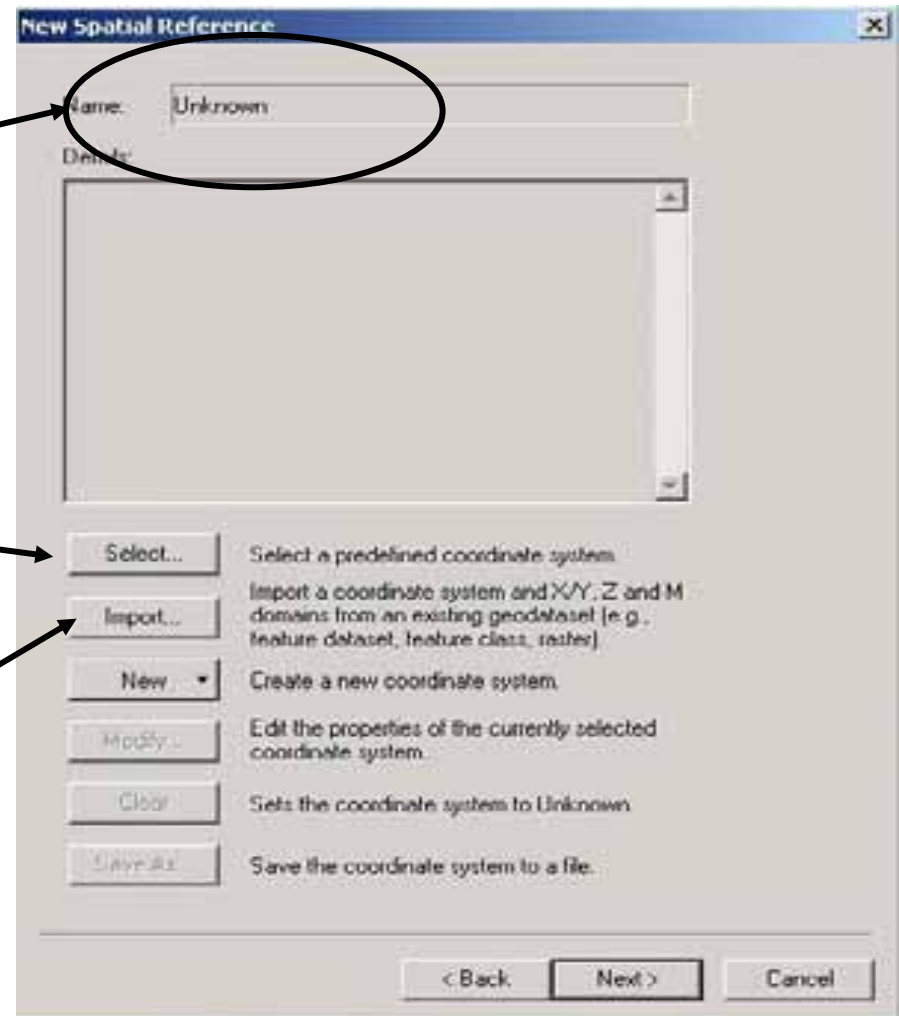
# Spatial Reference: Projection, Precision, Spatial Domain

- When the projection is unknown you have to define what projection your feature dataset is in.

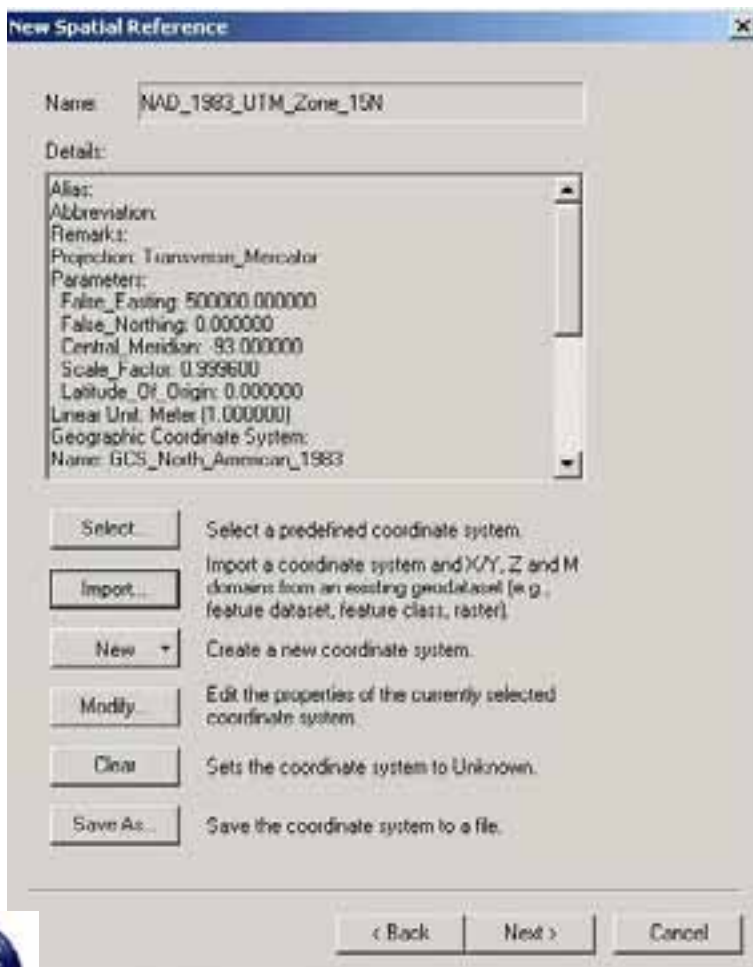
- You can either:

- Select a predefined projection OR

- Import one from an existing geodatabase feature dataset, coverage, or shapefile. (Use ArcToolbox to define projections)



# Spatial Reference: **Projection,** Precision, Spatial Domain



Once you have your projection defined, you are ready to continue defining the x,y,z,m spatial domains and precision.

# Spatial Reference: Projection, Precision, Spatial Domain

This is where you will define the Spatial Domains (X,Y,Z,M) and the precision.

Remember that once the spatial reference is set for a Feature Dataset, it cannot be changed.

New Spatial Reference

The coordinate range, or domain extent of the feature class, is dependent upon the minimum X & Y, maximum X & Y, and Precision values. The Precision is the number of system units per unit of measure, and therefore specifies the degree of resolution.

Min X:	<input type="text" value="683147.2145"/>	Max X:	<input type="text" value="1464336.4335"/>
Min Y:	<input type="text" value="4044296.676"/>	Max Y:	<input type="text" value="6191780.324"/>
Precision:	<input type="text" value="999.999990600016"/>		

[About Setting the XY Domain](#)

< Back    Next >    Cancel



# Spatial Reference: Projection, Precision, Spatial Domain

The coordinate range, or domain extent of the feature class, is dependent upon the minimum Z, maximum Z, and Precision values. The Precision is the number of system units per unit of measure, and therefore specifies the degree of resolution.

Min:  Max:

Precision:

< Back Next > Cancel

This is the Z spatial domain (elevations). Ensure the precision is set the same as the XY spatial domain.

# Spatial Reference: Projection, Precision, Spatial Domain

This is the M spatial domain. M values are normally used to store a linear measure from a defined origin for a vertex in a line. Ensure the precision is set the same as the XY spatial domain.



The coordinate range, or domain extent of the feature class, is dependent upon the minimum M, maximum M, and Precision values. The Precision is the number of system units per unit of measure, and therefore specifies the degree of resolution.

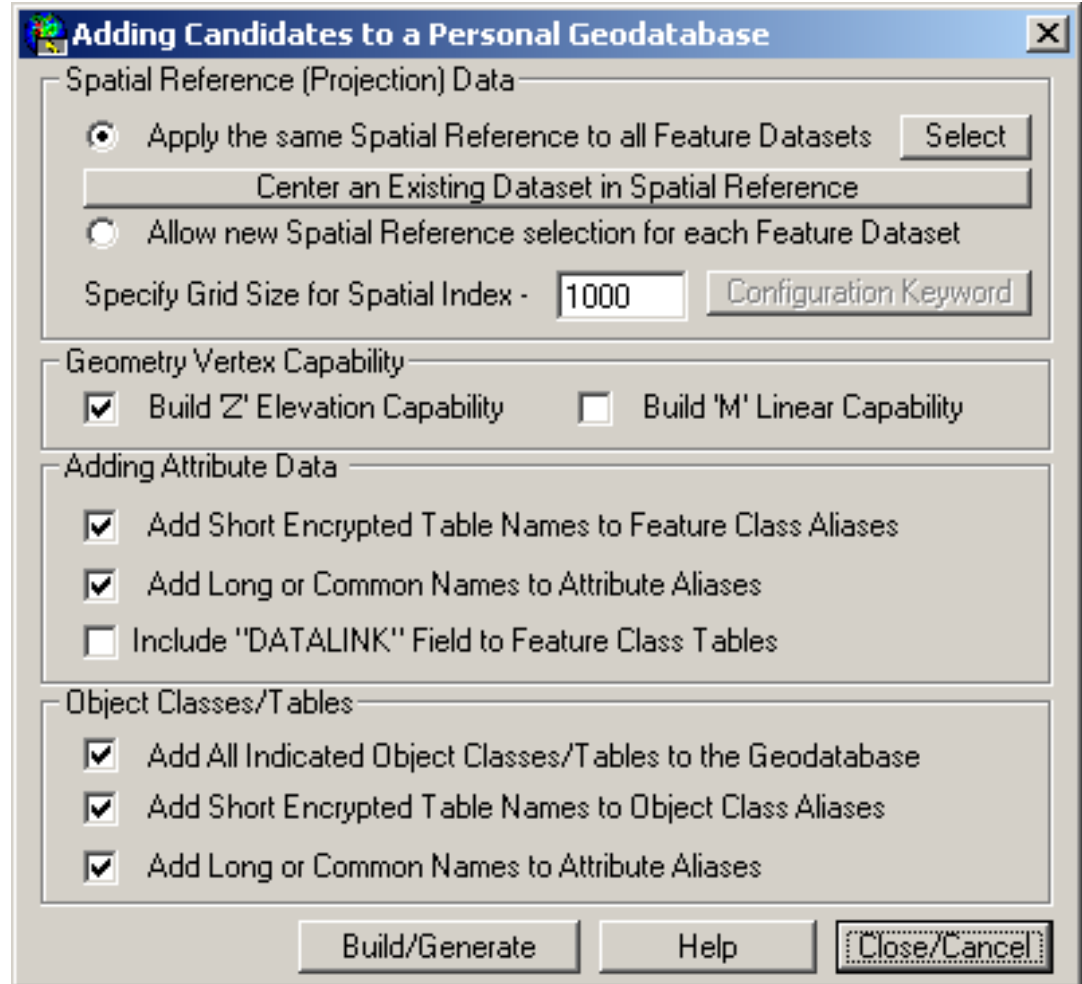
Min:	<input type="text" value="0"/>	Max:	<input type="text" value="2147483645"/>
Precision:	<input type="text" value="1000"/>		

# Geodatabase Builder

## Addition Options

When you have your Spatial Reference complete:

- ensure the options for Geometry Vertex Capability are correct
- ensure the options for Adding Attribute Data are correct
- ensure the options for Object Classes/Tables are correct
- Click “Build/Generate” to build the geodatabase.



**Adding Candidates to a Personal Geodatabase**

Spatial Reference (Projection) Data

Apply the same Spatial Reference to all Feature Datasets

Allow new Spatial Reference selection for each Feature Dataset

Specify Grid Size for Spatial Index -

Geometry Vertex Capability

Build 'Z' Elevation Capability  Build 'M' Linear Capability

Adding Attribute Data

Add Short Encrypted Table Names to Feature Class Aliases

Add Long or Common Names to Attribute Aliases

Include "DATALINK" Field to Feature Class Tables

Object Classes/Tables

Add All Indicated Object Classes/Tables to the Geodatabase

Add Short Encrypted Table Names to Object Class Aliases

Add Long or Common Names to Attribute Aliases

# Geodatabase Builder

## Monitoring Progress

**ADD CANDIDATES TO GEODATABASE** – During the process, a “Progress Bar” is displayed at the bottom of the screen. In addition, the classes being included and configured are highlighted in the Candidates Window.

**PROGRESS BAR** – displays the status of the configuration



**CANCEL BUTTON** – permits termination of the process but DOES NOT reconfigure those tables already included

***COMPACTING REQUIRED  
FOLLOWING PROCESS***

***Personal Geodatabases ONLY***

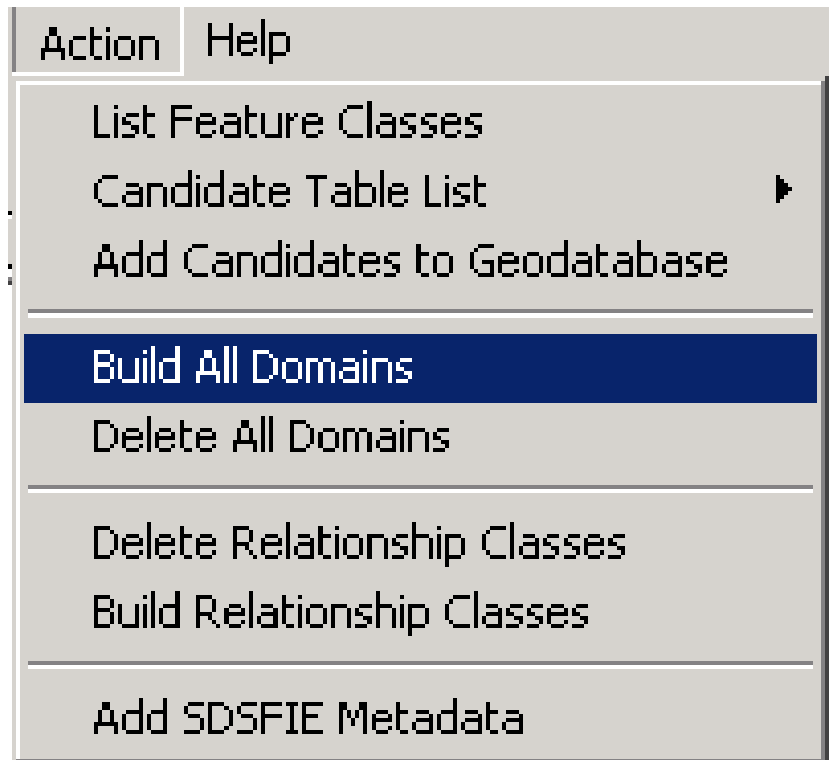
# Geodatabase Builder

## Build Domains

**DOMAINS** – are constructed once but may be referenced from any number of fields/attributes

Use the **BUILD ALL DOMAINS** menu item to add required domains to the Geodatabase.

**NOTE:** Domains are automatically constructed each time a Feature Class or Object Class is added.



# Geodatabase Builder

## Build Domains

**BUILD DOMAINS – separated into “List or Coded Value Domains” and “Range Domains”**

Build/Rebuild based on Field Properties only “refreshes” those domains called for in Field Properties

Build/Rebuild based on SDS Standard checks for compliant Field Properties, then builds or refreshes the domains

**Add Domains to the Geodatabase**

List or Coded Value Domains

Build/Rebuild All Domains based on Field Properties

Build/Rebuild All Domains based on SDS Standard

Range or Value Limit Domains

Build/Rebuild All Domains based on Field Properties

Build/Rebuild All Domains based on SDS Standard

Build List Domains      Build Range Domains

Help      Close

# Geodatabase Builder

## Build Domains

**REBUILDING DOMAINS will remove locally assigned Domain Values from the Geodatabase. Doing Global Rebuilding should be used with caution.**

This insert affords the last chance to cancel the Build/Rebuild Action before domain values are actually changed in the Geodatabase

Cancel ALL Actions will abort the process. **NOTE: Single Domain “refresh” is available on the Domain Dialog**

Rebuilding Domains will reinitialize the domains and domain values from the current values to those specified in the attached Release of the Spatial Data Standard. Therefore, any custom values included in the current Geodatabase Domains will be lost. These values will NOT be recoverable.

Continue Domain Actions

Cancel ALL Actions

# Demo Building a Personal SDSFIE Compliant GDB



SDSFIE Toolbox

Your Feedback

Email:

Name:

Subject:

Category:

Message:

Cancel Send

SDSFIE Training - Version 2.600



### Welcome to the SDSFIE version 2.600 Training

The **Spatial Data Standards for Facilities, Infrastructure, and Environment (SDSFIE) Version 2.600** training modules were developed as a resource for users to learn the basic functionality and general SDSFIE concepts. The interactive modules cover a variety of subjects to assist users in understanding components of the SDSFIE and how to successfully use the SDSFIE Tools to meet compliancy mandates. The module topics range from an introductory level explanation of the SDSFIE to detailed discussions/labs specific to the DB creation and tricks of the trade. To facilitate understanding the modules' content, each module has graphics, tips, key points to remember, and glossary terms.

Although there are no set guidelines as to how to complete the online training, it is recommended that users who have never used the SDSFIE or novice users complete Understanding the SDSFIE first and then move onto the SDSFIE Training Exercise.

[Understanding the SDSFIE](#)

[SDSFIE Training Exercise](#)

**Understanding the SDSFIE** Training Course was developed as a series of modules to assist SDSFIE users in learning the Spatial Data Standards for Facilities, Infrastructure, and Environment (SDSFIE) Version 2.600. The main focus of this course is to ensure the SDSFIE users have a clear understanding of the Standard and to provide a vehicle for learning general SDSFIE concepts.

**ADOBE FLASH PLAYER**  
In order to view the online training, you must install the most recent version of **Adobe Flash Player**.

**POPUP BLOCKER**  
Allow popups to view the online training.



# SDSFIE Download Info

SDSFIE\_info

File Edit View Favorites Tools Help

Back Search Folders

Address K:\Allied\_GIS\SDSFIE\_info

Folders

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- Python24
- Start Menu
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- terrain
- tester
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- WINDOWS
- WorkSpace
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- WD Passport (E:)
- Removable Disk (H:)
- EXTERNAL (K:)
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- Ba
- Allied\_GIS
  - Company\_Info
  - Conferences
  - Contracts
  - ESRI
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    - ACSPQ
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    - ASMC\_2008
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    - BBNA
    - FAA
    - JPO
    - MWH
    - PacS
    - Yulista
    - SDSFIE\_info**
    - Training
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  - arcview
  - B3Printer

Name	Size	Type	Date Modified
Intro_to_SDSFIE.ppt	2,720 KB	Microsoft PowerPo...	2/18/2008 2:05 PM
Entity Sets 1pp.ppt	23 KB	Microsoft PowerPo...	2/14/2008 3:29 PM
Insights-2006Spring.pdf	1,068 KB	Adobe Acrobat 7...	2/14/2008 11:57 ...
Glossary of Terms.pdf	67 KB	Adobe Acrobat 7...	2/14/2008 11:13 ...
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start

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# For More Information

- <http://www.sdsfie.org/>
- <https://cadbim.usace.army.mil/>
- <http://www.sdsfie.org/Support/PriorReleaseTraining/tabid/64/Default.aspx>
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