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## Data Export & Import Options to Enterprise Geodatabase using ArcCatalog

Article ID : 100015  
Software : ArcGIS Desktop 9.x  
Platform : Windows 2000, Windows XP  
Date : December 29, 2006

### **Background**

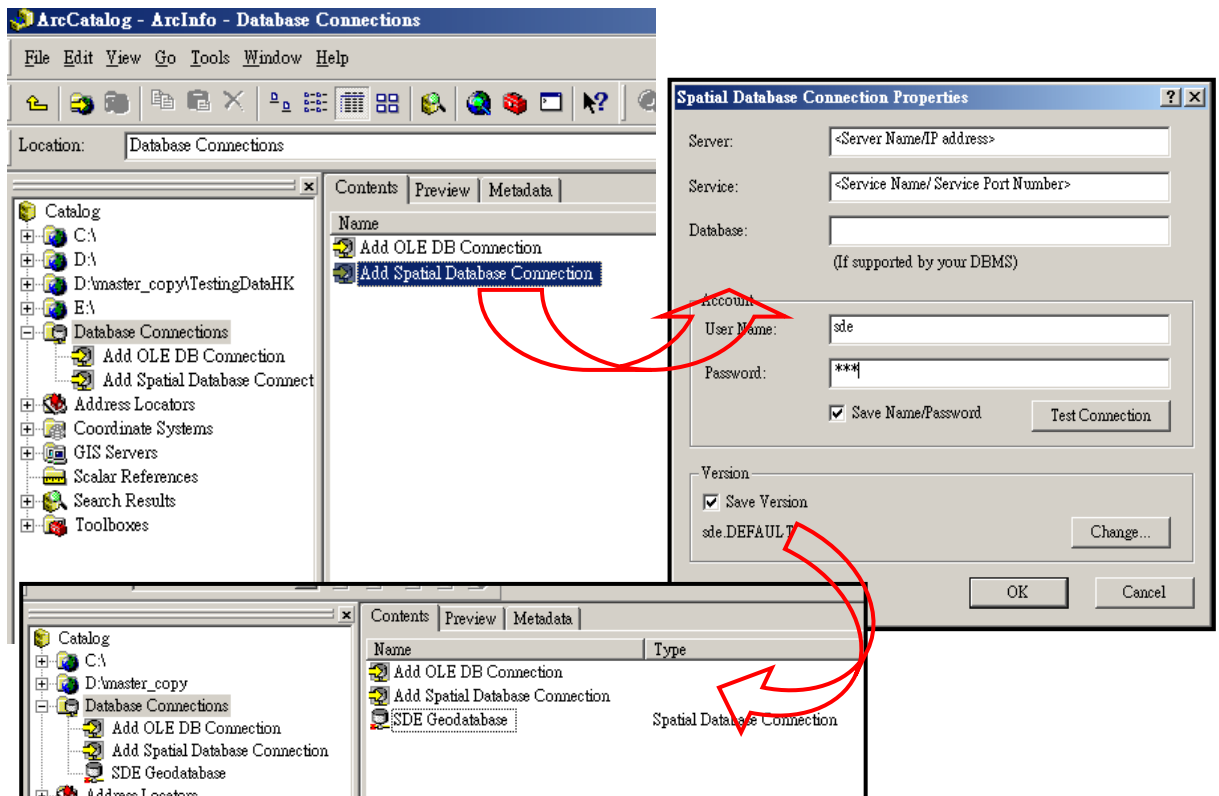
ArcGIS Desktop supports several GIS data formats such as coverage, shapefile, CAD file, personal geodatabase feature class and raster data. These data are in file-based format stored locally in users' machines, in order to centralize the data for sharing and manage data integrity, users can build up an Enterprise Geodatabase using ArcSDE and ArcGIS Desktop provides a couple of data loading and import options for converting the supported data format to a centralized ArcSDE Geodatabase. This document lists the steps and location of corresponding tools in ArcToolbox of different methods in transferring data to ArcSDE Enterprise Geodatabase from supported file-based GIS data.

### **Procedures**

The following procedures assume that an ArcSDE Enterprise Geodatabase exist in the database server.



#### **1 Adding ArcSDE Enterprise Geodatabase Connection**

- 1.1 Open ArcCatalog.
- 1.2 In the ArcCatalog Tree, double click to expand Database Connections.
- 1.3 Double click Add Spatial Database Connection to open Spatial Database Connection Properties.
- 1.4 Please enter the following information to the Spatial Database Connection Properties:
  - Host Name or IP address of the database server
  - Service Name or Service Port Number of ArcSDE service
  - User name and password for database log in
- 1.5 Click Test Connection button to check for successful connection. The button will be disabled if the connection is successful and error message will pop up upon the connection is failure.
- 1.6 Click OK, the spatial database connection will be added in ArcCatalog. You can rename it as by clicking on the name and typing your desired description to this connection, e.g. sde@databaseserver1.



## 2 Exporting Data from Personal Geodatabase to ArcSDE Enterprise Geodatabase

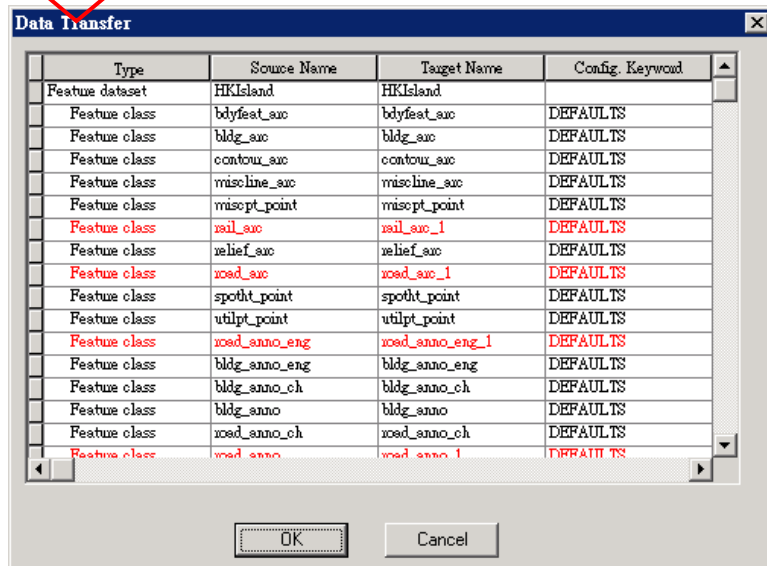
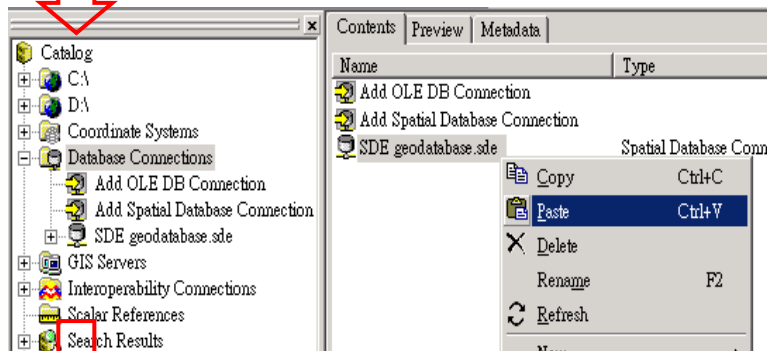
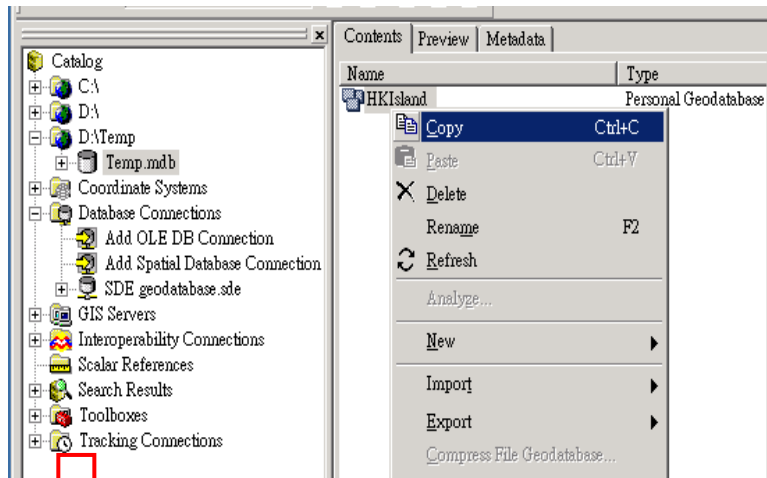
### 2.1 Importing a feature dataset:

- 2.1.1 Navigate to your personal geodatabase and click into it.
- 2.1.2 Right click the dataset or feature class that you would like to import to ArcSDE Enterprise Geodatabase and click copy.
- 2.1.3 Connect the added ArcSDE Enterprised Geodatabase connection by double clicking it in database connections.
- 2.1.4 You will notice that the red cross on the database logo will vanish after database is connected. Therefore, it will change from  SDE geodatabase.sde to  SDE geodatabase.sde
- 2.1.5 Right click the SDE geodatabase.sde connection to open the context menu as shown in the diagram below.
- 2.1.6 Click Paste.
- 2.1.7 Data Transfer dialog will pop up. This dialog specifies the Type, Source Name, Target Name and Configuration Keyword of all feature classes which will be transferred. If the Target Name already exists in the database, it will change the target name and highlight the row in red.



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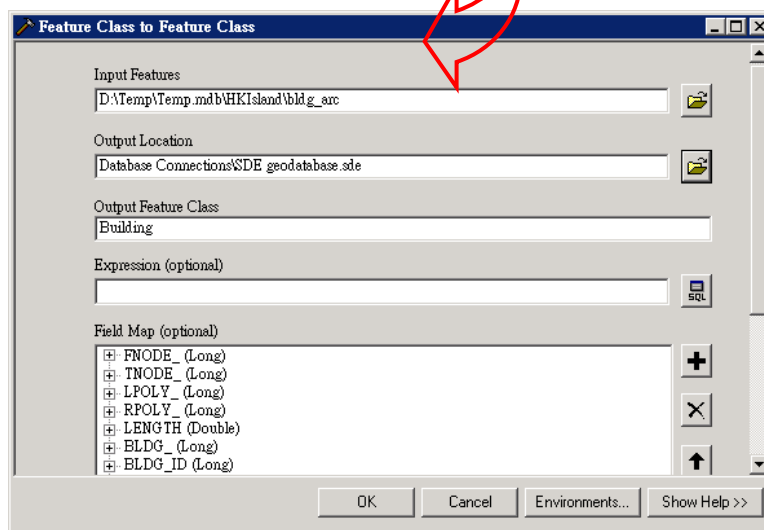
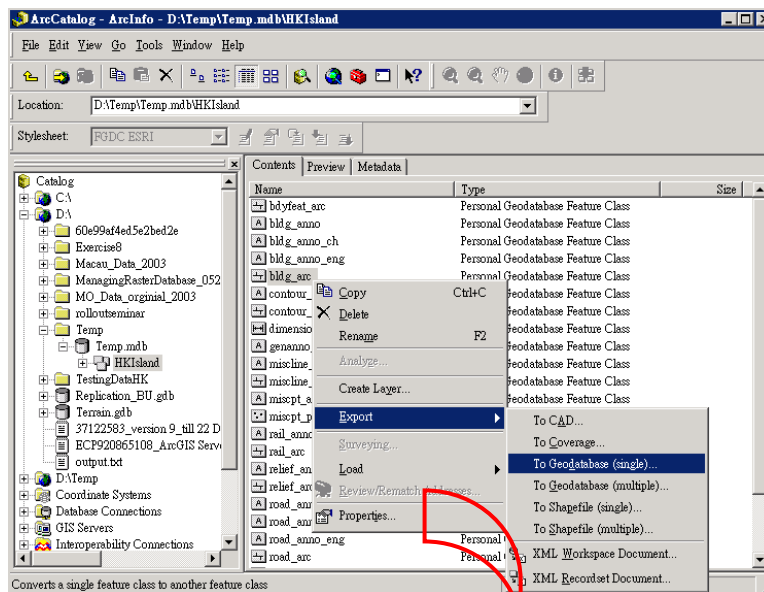
- 2.1.8 Rename the target name when necessary.
- 2.1.9 Click OK button to start the data transfer process.



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## 2.2 Exporting a single feature class:

- 2.2.1 Expand the personal geodatabase and navigate to the level where you can identify feature classes.
- 2.2.2 Right clicking the feature class that you would like to import to ArcSDE Enterprise Geodatabase.
- 2.2.3 A context menu will pop up and navigate to Export.
- 2.2.4 Click "To Geodatabase (single)".
- 2.2.5 The Feature class to Feature Class dialog will pop out.
- 2.2.6 Enter all the necessary information and click OK to finish.



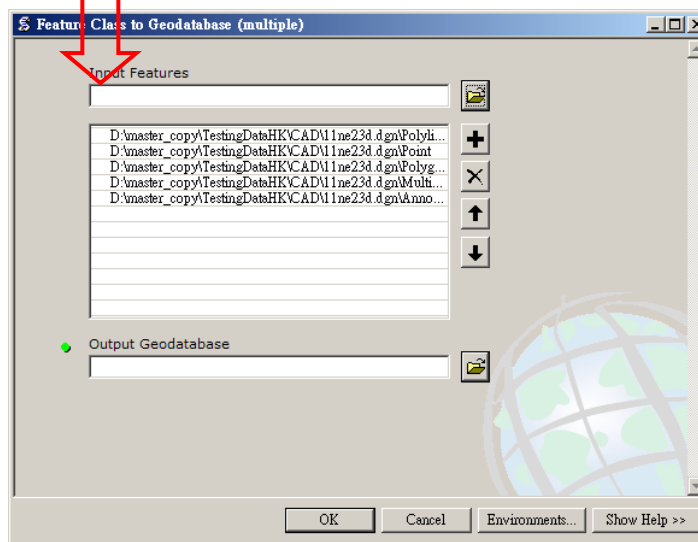
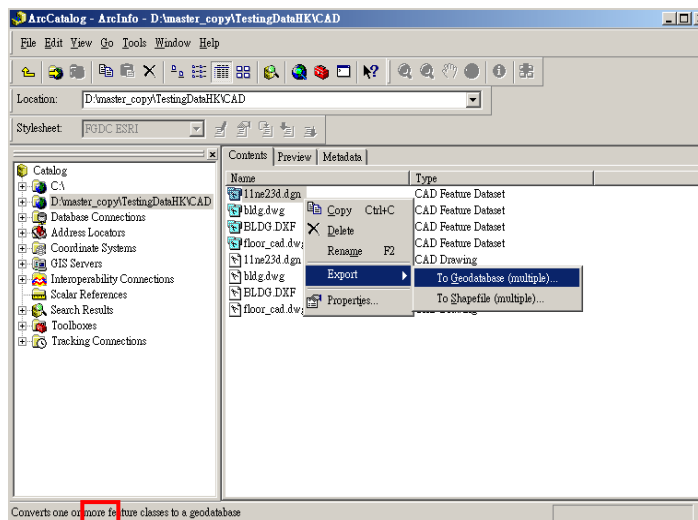
- 2.2.7 The above dialog can be open in ArcToolbox as well. Please refer to the following path to open the tool:  
ArcToolbox > Conversion Tools > To Geodatabase > Feature Class to Feature Class



## 3 Exporting other data format to ArcSDE Enterprise Geodatabase

3.1 Other data format such as coverage, shapefiles and CAD can be exported to ArcSDE Enterprise Geodatabase as well. The following example is exporting CAD data format. It is also applicable to abovementioned data formats:

- 3.1.1 Right click the data you want to export to launch the context menu.
- 3.1.2 Navigate to Export and click “To Geodatabase (multiple)”
- 3.1.3 The “Feature Class to Geodatabase (multiple)” dialog will open.
- 3.1.4 Add all your data that you want to convert to ArcSDE Enterprise Geodatabase.
- 3.1.5 Define the output geodatabase by using the open button.
- 3.1.6 Click OK to finish.



3.1.7 The above dialog can be open in Arc Toolbox. Please refer to the following path to open the tool:

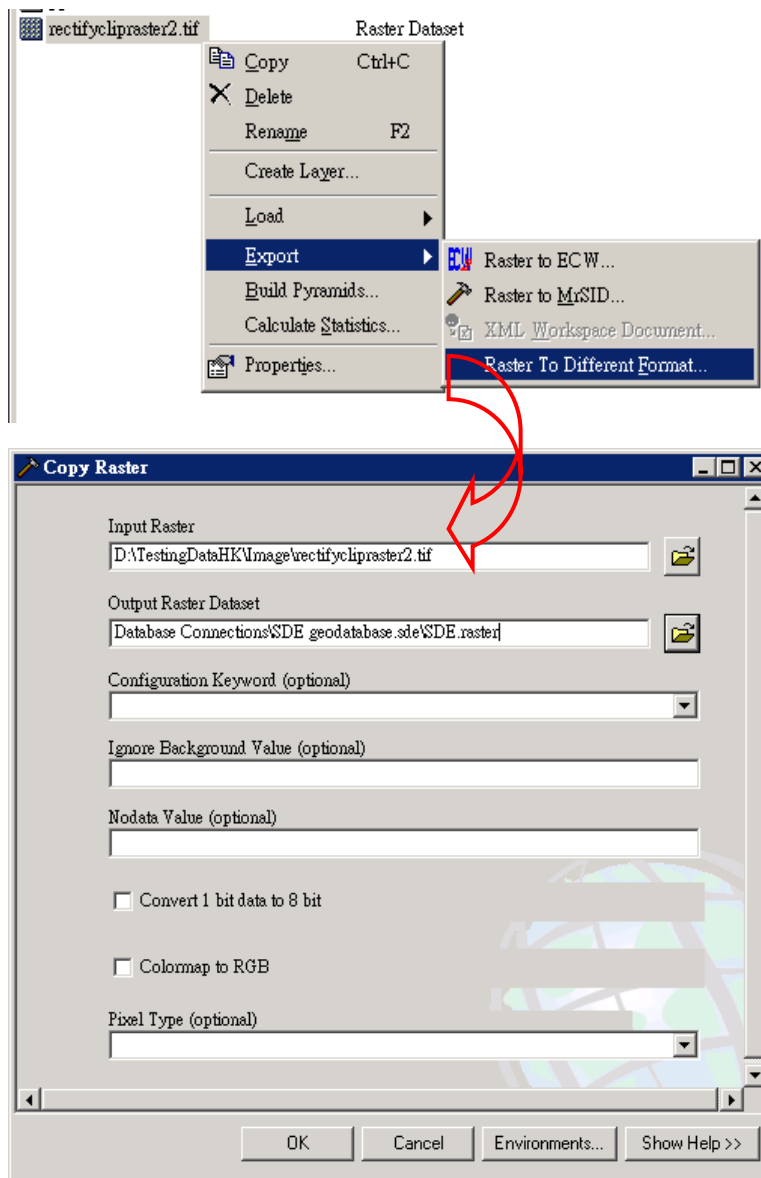
ArcToolbox > Conversion Tools > To Geodatabase > Feature Class To Geodatabase (Multiple)



## 4 Exporting Raster data to ArcSDE Enterprise Geodatabase

4.1 Using the “Copy Raster” Tool:

- 4.1.1 Right click the raster to launch the context menu.
- 4.1.2 Navigate to Export and click “Raster To Different Format”.
- 4.1.3 The “Copy Raster” dialog will open.
- 4.1.4 Enter the Input Raster, Output Raster Dataset and all others necessary information.
- 4.1.5 Click OK to finish.




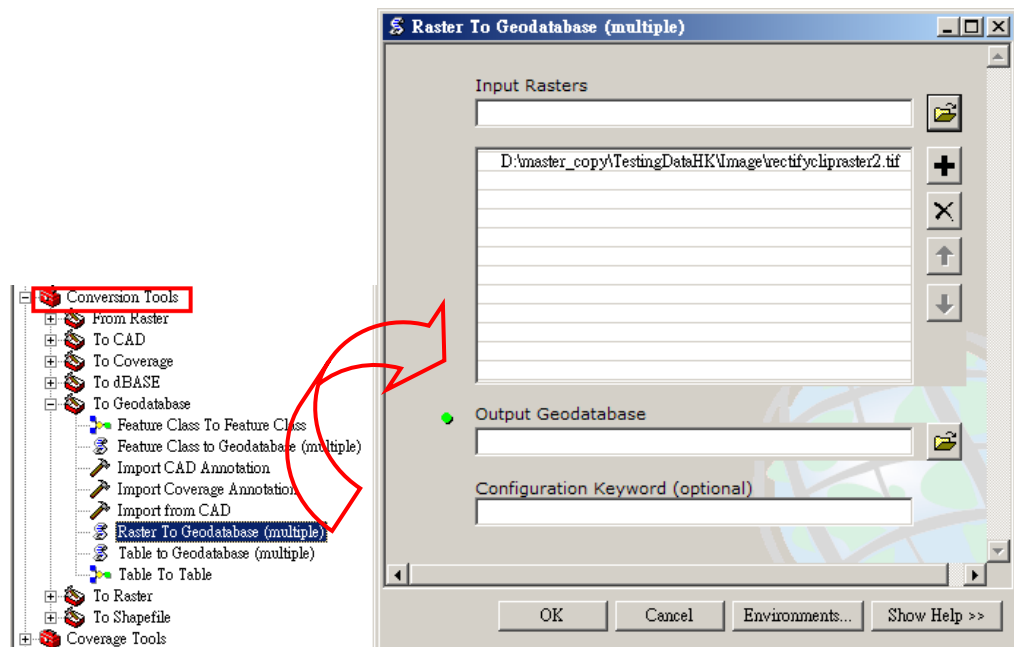
4.1.6 The above dialog can be open in Arc Toolbox. Please refer to the following path to open the tool:

ArcToolbox > Data Management Tools > Raster Toolset > Copy Raster



## 4.2 Using the “Raster to Geodatabase (Multiple)” tool:

- 4.2.1 Launch the ArcToolBox window by clicking the ArcToolbox button  in the standard toolbar of ArcCatalog.
- 4.2.2 Navigate to and expand the Conversion Tools.
- 4.2.3 Navigate and expand the “To Geodatabase” toolset.
- 4.2.4 Double click “Raster To Geodatabase (multiple)”.
- 4.2.5 The “Raster To Geodatabase (multiple)” dialog will open.
- 4.2.6 Browse and add all the raster that you would like to export.
- 4.2.7 Enter all other required information.
- 4.2.8 Click Ok to finish



- 4.2.9 This method can convert more than one raster at a time; however, the previous method converts one raster at a time only.

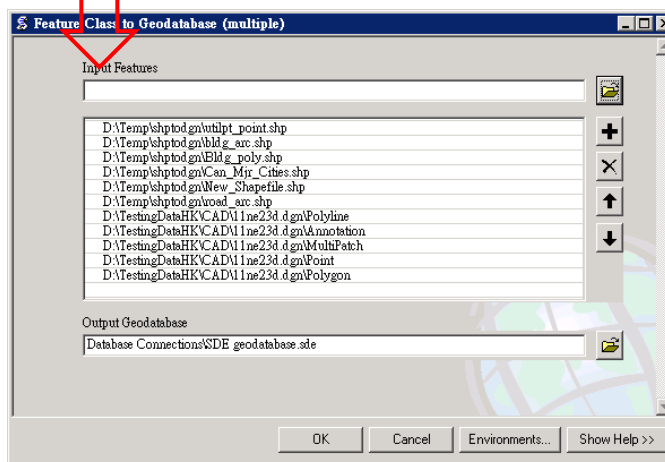
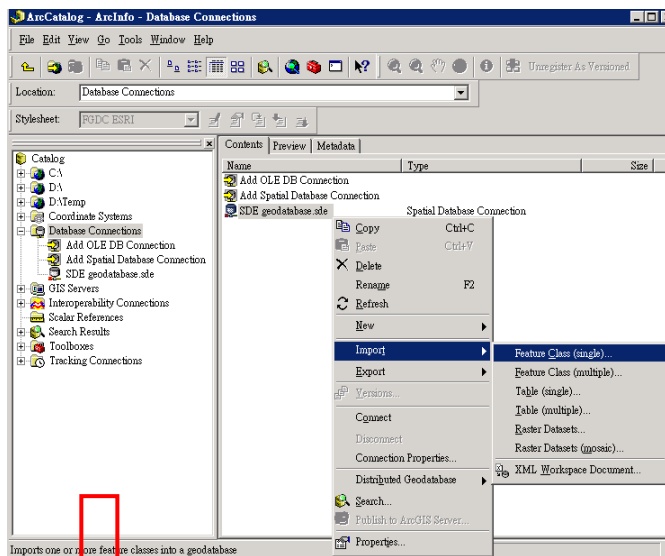


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## 5 Importing data to ArcSDE Enterprise Geodatabase

The above methods are known as Exporting Data from their sources using export functions. Users can also use a vise methods, Importing Data to pull data into ArcSDE Enterprise Geodatabase.

- 5.1.1 Connect to your SDE geodatabase as stated in Procedure 1.
- 5.1.2 Right click the SDE geodatabase to launch the context menu.
- 5.1.3 Navigate to Import.
- 5.1.4 There are couple of options for users to choose depending on what data format is going to import to the ArcSDE Enterprise Geodatabase.
- 5.1.5 Click "Feature class (single)" an example. In fact, this import options support Coverages, CAD files and shapefiles conversion to ArcSDE Enterprise Geodatabase.
- 5.1.6 Browse and add all the features that you would like to import to this Geodatabase.
- 5.1.7 Make sure the location of output geodatabase is correct.
- 5.1.8 Click Ok to finish



The End