ArcGIS Enterprise: GDB Migration Ownership

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Revision History

The table that follows summarizes the revision history of this document.

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# Introduction

## Purpose

The purpose of this guide is to provide users with a comprehensive understanding of how to utilize the "Feature Class to Geodatabase" tool in ArcGIS Pro. This tool is essential for efficiently importing and converting feature classes from various formats into geodatabase feature classes, ensuring that spatial data is correctly stored and accessible within the geodatabase environment. By following this guide, users will be able to seamlessly import, manage, and organize spatial datasets, enhancing their ability to perform accurate geospatial analysis and data management.

## Scope

This guide covers the process of importing feature classes into a geodatabase using the "Feature Class to Geodatabase" tool in ArcGIS Pro. It addresses different scenarios, including importing shapefiles, CAD data, and feature layers, and provides guidance on managing field names, spatial references, and coordinate systems during the import process. The guide also outlines alternative tools and methods for more controlled imports, such as the "Export Features" tool, and discusses importing tables, XML workspace documents, and other geospatial data formats. Additionally, the guide highlights considerations for importing data into enterprise geodatabases, including privileges, database options, and data types.

## Document Conventions

Table 1‑1 describes the conventions used in this documentation.

Table 1‑1: Document Conventions

| Convention | Meaning |
| --- | --- |
| **🛈** | Indicates a note that supplements the information in the current section or about the procedure. |
| ! | Indicates an important note related to the current section or procedure. |
|  | Indicates that a section or procedure needs to be repeated. |
| Text > Text > Text | The arrow symbol (>) is used for navigation paths (e.g., **Start** > **Programs** > **Adlib** > **Express** > **Express Server**). All navigation paths in this document assume that Windows is set to display Classic View. |

# About This Guide

This guide is intended for GIS professionals, analysts, and other users of ArcGIS Pro who need to import and manage spatial data within a geodatabase. It is designed to be accessible to users with varying levels of experience, from beginners to advanced users. The guide provides step-by-step instructions, best practices, and tips for effectively using the "Feature Class to Geodatabase" tool and related geoprocessing tools. Whether you are importing a single feature class or managing large datasets, this guide will help you navigate the import process with confidence, ensuring that your geospatial data is accurately and efficiently stored within your geodatabase.

# Geodatabase Tool Usage in ArcGIS Pro

**Prerequisites**

* ArcGIS Pro 3.0 or later installed.
* Access to the necessary geodatabases and datasets
  + Make sure target user has account permissions for the data you want to transfer
* Appropriate user privileges for importing data into the geodatabase.

**Tools Covered**

* **Feature Class to Geodatabase**
* Export Features
* Export Table
* Import XML Workspace Document
* CAD to Geodatabase
* BIM File to Geodatabase
* Raster to Geodatabase
* Table to Geodatabase

## Procedure

Remember to republish any of the services once transferred.

We are primarily going to use, Importing Feature Classes but if that doesn’t work try the Export XML Workspace, then import the workspace.

In short, click on export in the catalog on the file you want, and export to gdb, and browse to the connection.

Simply put (3.1.1), add the data from the catalog tree to the map, right click the connection, import the data you added from the map, run the tool.

### Importing Feature Classes

**Navigate to the Catalog Pane:**

* In ArcGIS Pro, open the Catalog pane.
* Right-click on the desired geodatabase or feature dataset where the data will be imported.

**Select Import > Feature Class(es):**

* Choose "Import > Feature Class(es)" from the context menu.
* The "Feature Class to Geodatabase" tool will open.

**Specify Input Datasets:**

* Add one or more shapefiles, CAD files, feature layers, or geodatabase feature classes as input.

**Review and Adjust Field Names:**

* Ensure that all field names are valid. The tool will automatically replace invalid characters (e.g., hyphens with underscores).

**Run the Tool:**

* Click "Run" to import the datasets. Each dataset will be converted into an individual feature class within the geodatabase.

### Controlling Data Import with the Export Features Tool

If specific control over the data to be imported is required, use the "Export Features" tool:

**Accessing the Tool:**

* Right-click the layer in the Contents pane or access it via the Analysis tab under Geoprocessing.

**Customize Import Settings:**

* Apply data filters, field mapping, and sorting as necessary.

**Run the Tool:**

* Execute the tool to import the data with the desired customizations.

### Automating Import with Model Builder

* For importing multiple datasets or repetitive tasks:

**Create a Model:**

* Use ModelBuilder to automate the import process.

**Save and Reuse Parameters:**

* Specify and save environment settings and tool parameters for future use.

### Importing CAD Data

**Use the CAD to Geodatabase Tool:**

* Import CAD datasets and convert them into feature classes within a geodatabase feature dataset.

### Managing Coordinate Systems

**Check Spatial Reference:**

* Ensure that the feature classes being imported match the coordinate system of the target feature dataset.

**Reproject Data if Necessary:**

* Use the "Project" tool to convert the coordinate system during the import process if needed.

### Importing Tables

**Right-click on the Geodatabase:**

* Select "Import > Table(s)" from the context menu.

**Add Tables:**

* Import one or more tables (e.g., Excel, dBASE, delimited files) using the "Table to Geodatabase" tool.

### Importing XML Workspace Documents

**Import Complete Datasets:**

* Use the "Import XML Workspace Document" tool or wizard to import entire feature datasets or geodatabase schemas.

### Special Considerations for Enterprise Geodatabases

**User Privileges:**

* Verify that appropriate privileges are assigned for importing data.

**Database Options:**

* Configure storage options and commit settings as required during import.

### Best Practices

**Validate Data Before Importing:**

* Ensure all datasets are clean and free of errors before importing to avoid issues.

**Maintain Consistent Spatial References:**

* Align the coordinate systems of all imported feature classes to ensure data consistency.

**Utilize Models for Repetitive Tasks:**

* Automate recurring import processes using ModelBuilder to increase efficiency.

###### References