

Exercise 3:

Convert Metadata from CSDGM to ISO

Introduction

Within our agency, metadata is currently stored in two locations: the ArcGIS Metadata format, which is inherently internal to ArcGIS, and standalone Content Standard for Digital Geospatial Metadata (CSDGM) XML files, which is an external file type that can be paired with geospatial datasets.

XML (Extensible Markup Language) files use text to store data. Data stored within the XML format is primarily intended to be processed by a website, web application, or software program, but it can also be read by humans. Developers can create custom tags within XML, which means the language can be used in a flexible manner to describe all sorts of different kinds of data. In our case, the XML tags and format were designed to house and validate metadata information.

In this exercise we will learn how to adjust our metadata style so that our ArcGIS metadata document, that may have previously been configured to store CSDGM metadata, can store ISO Metadata elements. We will also learn how to import and convert a Content Standard for Digital Geospatial Metadata (CSDGM) XML file to the ArcGIS Metadata document.

Objectives

- Convert existing CSDGM XML files to the ArcGIS metadata format.

Prerequisites

GIS users must be able to access ArcGIS Pro to complete the exercises within this training. There are two ways that Forest Service GIS users can access and run ArcGIS Pro.

- **Option 1:** Forest Service Employees can utilize ArcGIS Pro through the Virtual Desktop Infrastructure (VDI). The VDI can be accessed using the following link: [ArcGIS Pro - Working in the Data Center \(sharepoint.com\)](#). Using the VDI, users can launch a remote desktop and connect directly to the T drive using ArcGIS Pro. You must have a citrix profile and a LincPass to open a desktop within the VDI. If you are unsure whether you have a citrix profile, please submit a service request to the GIS Help Desk using the following link: [GIS Support Request \(onbmc.com\)](#) (select the blue "Request Now" button). If you plan on using the VDI to complete the exercises, please test and make sure that you can access the VDI prior to the start of the



course. If you opted to use Option 1 to access Pro, you must store the course data on the T drive.

- **Option 2:** Forest Service Employees can install and run ArcGIS Pro on their local machines. The latest FS-available version of ArcGIS Pro is in the Software Center for self-install. If you have issues installing ArcGIS Pro, submit a service request to the GIS Help Desk: [GIS Support Request \(onbmc.com\)](#) (select the blue "Request Now" button). For further information regarding system requirements and install instructions, please see the ArcGIS Pro SharePoint Site: [ArcGIS Pro - Home \(sharepoint.com\)](#). If you opted to use Option 2 to access Pro, you must store the course data on your C drive.



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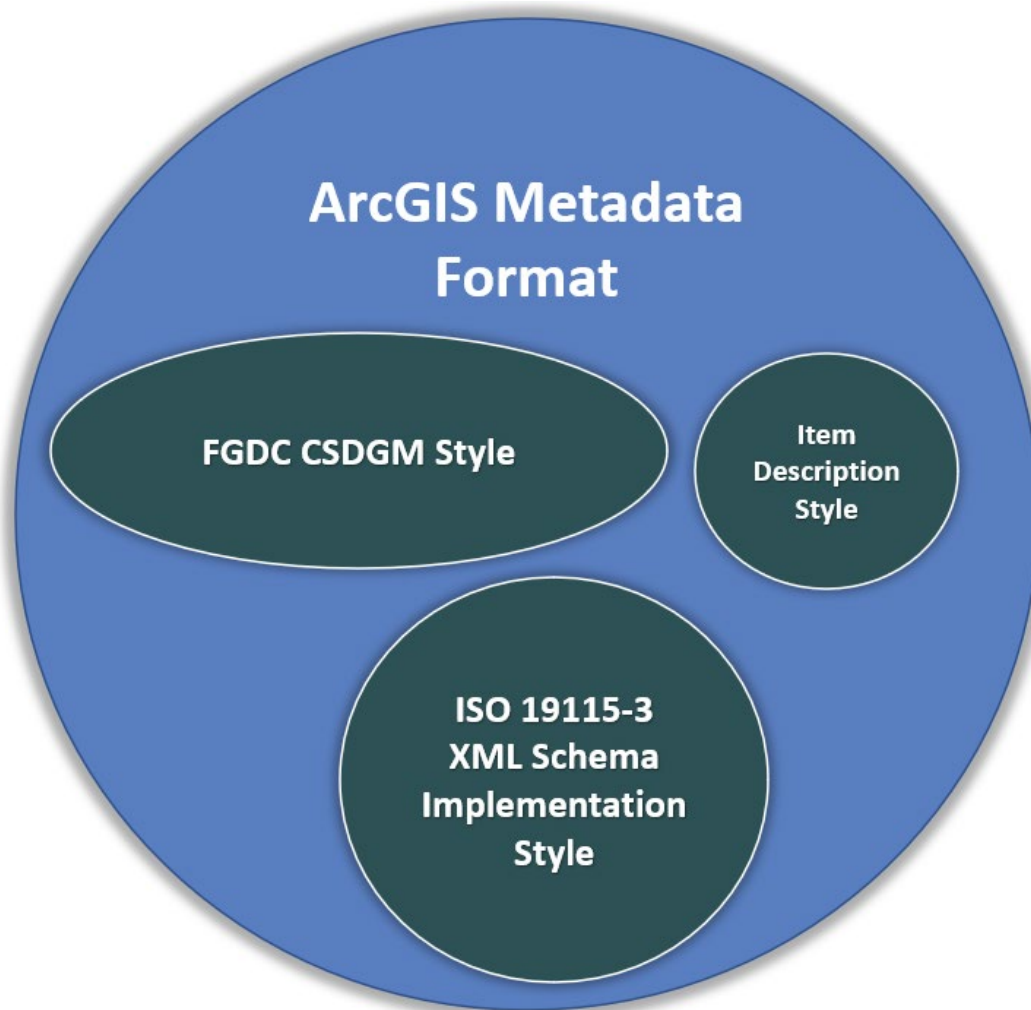
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Part 1: ArcGIS Metadata Format

The ArcGIS Metadata format is an XML file that has the capability to store metadata elements from different metadata standards. If you are creating metadata in ArcGIS Pro using the Metadata editor, all of the metadata elements are stored in the ArcGIS Metadata format, regardless of the selected style. The selected metadata style simply tells ArcGIS Pro *how and where* to store the metadata elements within the ArcGIS Metadata format. As mentioned previously, the metadata style also controls what metadata information is displayed (from the ArcGIS Metadata format) and which validation rules are used in the metadata editor.

This provides the GIS user with several benefits; the main one being that because the metadata is stored within the metadata editor and then saved to a specific location ArcGIS Metadata XML file, all we need to do to update our metadata from one standard to another is change our metadata style in ArcGIS Pro. All the metadata will be in the same location in the metadata editor and the ArcGIS Metadata format will be updated accordingly. Please note that the chosen metadata style may require additional metadata elements that were not required by the previous style.



A. Launch ArcGIS Pro

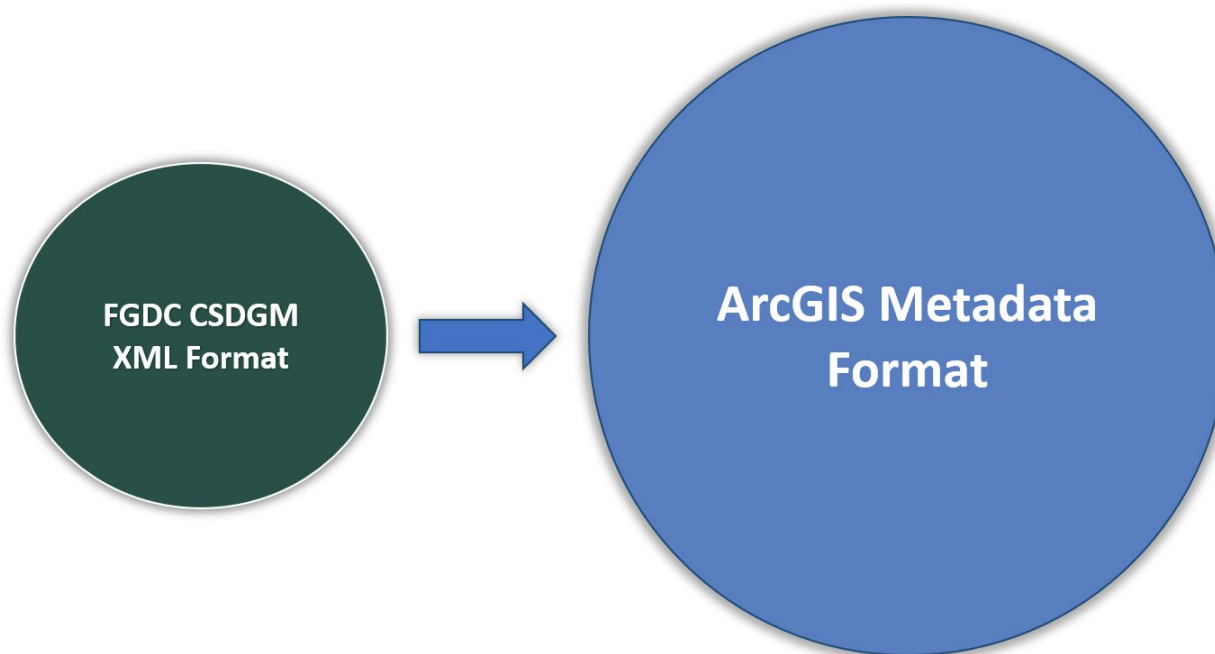
1. Open ArcGIS Pro.
2. Click on Open another project in the bottom left corner.
3. Navigate to wherever you stored the exercise data and open the following file path...
ISOmetadata_Exercise3\02_Data\
ISOMetadata_Exercise3 and then choose OK to open the project.

B. Configure Metadata Style

1. If you did not configure the metadata style in the previous exercise, please configure the metadata style using the following steps:
 - i. Project in the top left corner.
 - ii. Select Options from the left-hand pane.
 - iii. Scroll down within the left-hand pane in the Options window and choose Metadata.
 - iv. Select the Metadata style drop down and choose **ISO 19115-3 XML Schema Implementation**.
 - v. Choose OK and then select the back button in the top left corner of the screen.

C. Import CSGDM XML File

Remember, all metadata that is viewed, edited, and exported in ArcGIS Pro must use the ArcGIS metadata format. This means that to convert a standalone FGDC CSDGM XML file to the ISO 19115-1/-3 standard, the xml file must first be “upgraded” to the ArcGIS Metadata format. If the CSDGM metadata was configured correctly then conversion from the CSDGM xml file to the ArcGIS Metadata format should not result in a loss of elements.

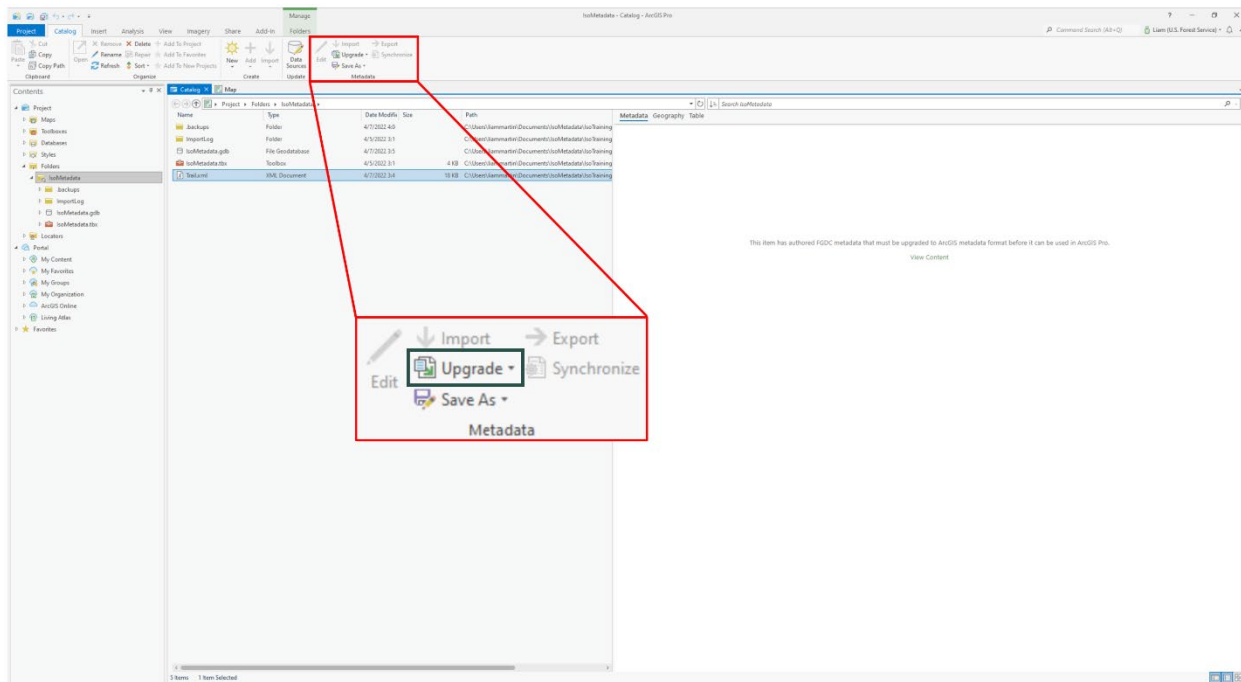


1. If necessary, select the View tab on the ArcGIS Pro Ribbon and then choose **Catalog View**.
2. Within the Catalog View, double click Folders, then double click 02_Data.
3. Select the Trail.xml file. Note the prompt that appears in the Details Panel.

This item has authored FGDC metadata that must be upgraded to ArcGIS metadata format before it can be used in ArcGIS Pro.

[View Content](#)

4. With the Trail xml file highlighted in the Catalog View, make sure the Catalog tab is activated and select **Upgrade** dropdown from the Metadata group on the ArcGIS Pro Ribbon.
5. Choose **FGDC CSDGM Content**.



If you have multiple standalone xml files, hold the control key, select the files, then choose Upgrade.

6. The standalone file has now been converted to the ArcGIS Metadata Format.
7. With the XML file highlighted in the Catalog View, select Edit from the Metadata group. Use the ArcGIS Pro Metadata Editor to double check that the minimum ISO 19115-1/-3 requirements are met.
8. Please refer to Exercise 2 if you would like to review the metadata elements required by the ISO standards.
9. The following graphic represents the workflow completed in Part 2 of this exercise.

