



ArcCatalog X-Ray Add-In User Guide

Date: October 2021

Version 1.0

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This guide will illustrate how to generate the following outputs from your File GDB

- Excel worksheets for Domains, Fields, Feature classes
- Data Dictionary
- XML Schema of your Geodatabase
- Compare schema between 2 Geodatabases

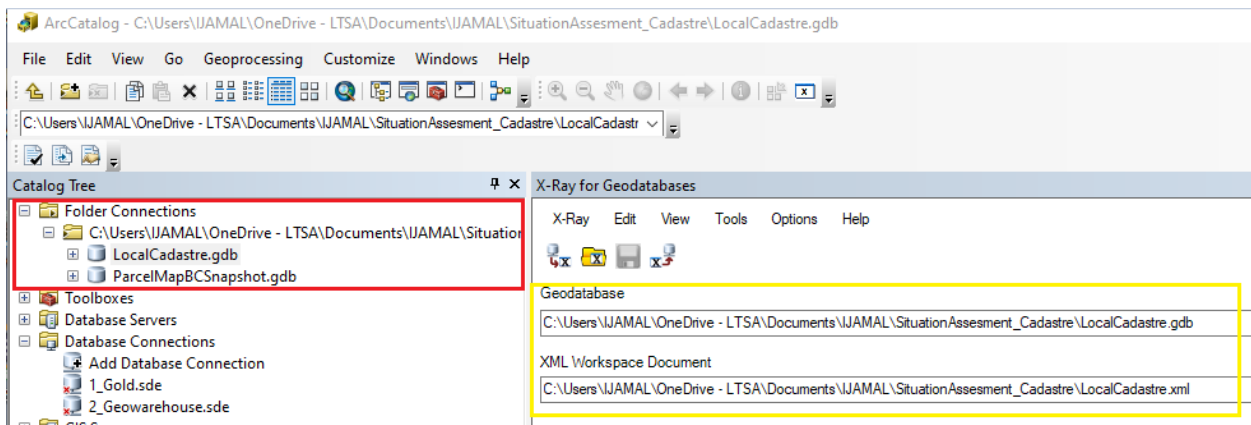
Note: This tool will only work on File GDBs and not in an SDE environment.

1. Set up your workspace environment:

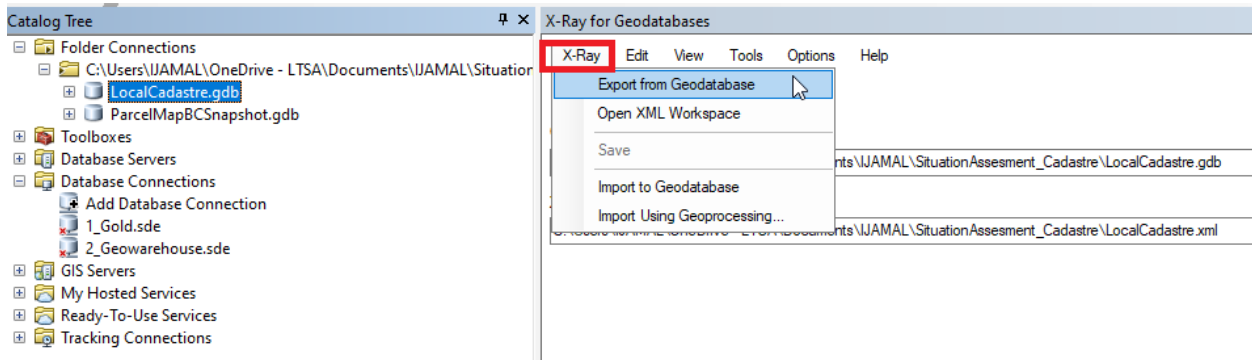
- a. Create a new working folder
- b. Copy the ParcelMap BC File GDB that you will be using to compare your local cadastre to this folder.
- c. If your local cadastre data is in an SDE environment, you will need to export the SDE version to a File GDB into the folder as well.

2. Create an XML Schema, Domain, Fields and Feature class worksheets

- a. Open ArcCatalog and navigate to the folder where your File GDBs are stored and click on your local cadastre GDB name, you should see the full pathname shown to the left, under Geodatabase.



- b. Click on the X-Ray menu and select Export from Geodatabase. The process will take a few minutes to run



- c. Once completed, you will see:

- a subfolder created where your File GDB is located called **XRay**
- an XML document of your local cadastre.

Name	Status	Date modified	Type	Size
LocalCadastre.gdb	✓ R	2021-09-15 2:12 PM	File folder	
ParcelMapBCSnapshot.gdb	✓ R	2021-09-15 12:25 PM	File folder	
XRay	✓ R	2021-09-15 2:13 PM	File folder	
LocalCadastre	✓ R	2021-09-15 2:12 PM	XML Document	788 KB

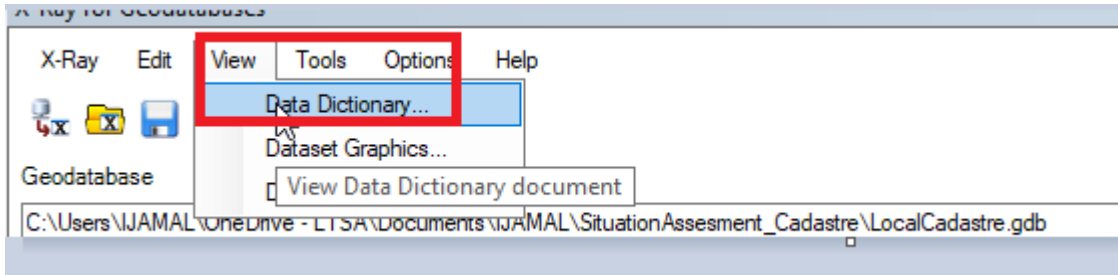
- d. Open the XRay subfolder and you will see 7 Excel worksheets:

Name	Status	Date modified	Type	Size
DatasetDescriptions	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...	11 KB
DomainCodedValues	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...	21 KB
DomainDescriptions	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...	11 KB
FieldDescriptions	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...	11 KB
GISDatasets	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...	24 KB
GISDomains	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...	44 KB
WorkspaceDescriptions	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...	11 KB

These worksheets contain details on the fields, domains and dataset types (Tables, Feature class etc.)

3. Create a Data Dictionary

- a. To create the Data Dictionary, go to View -> Data Dictionary



- b. The data Dictionary will open up and will be shown in the XRay folder.

Name	Status	Date modified	Type
DatasetDescriptions	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...
DomainCodedValues	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...
DomainDescriptions	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...
FieldDescriptions	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...
GISDatasets	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...
GISDomains	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...
LocalCadastre	✓ R	2021-09-15 3:50 PM	Microsoft Edge H...
WorkspaceDescriptions	✓ R	2021-09-15 2:50 PM	Microsoft Excel W...

- c. Rename the XRay folder with the name of the local cadastre as you will be repeating the process with the ParcelMap BC cadastre and the contents of the folder may be overwritten.

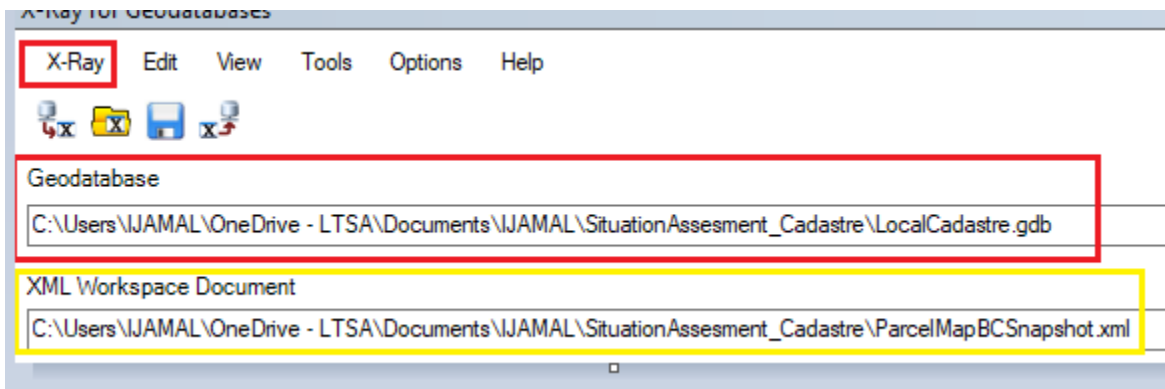
LocalCadastre.gdb	✓ R	2021-09-15 4:02 PM	File folder
ParcelMapBCSnapshot.gdb	✓ R	2021-09-15 4:02 PM	File folder
XRay_LocalCadastre	✓ R	2021-09-15 3:50 PM	File folder
LocalCadastre	✓ R	2021-09-15 2:50 PM	XML Document

- d. Repeat the same process for both File GDBs

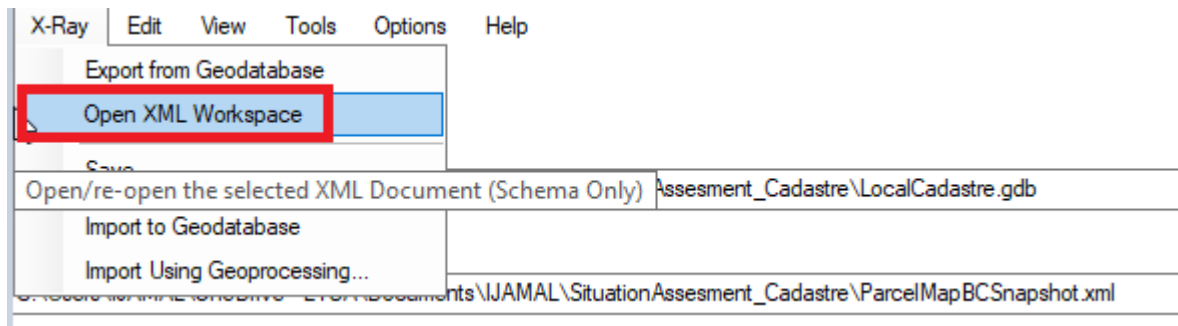
4. Compare two different File GDB schemas

- a. XRay allows you to compare one File GDB schema with another File GDB. To use this feature you need to have one of the XML's open.

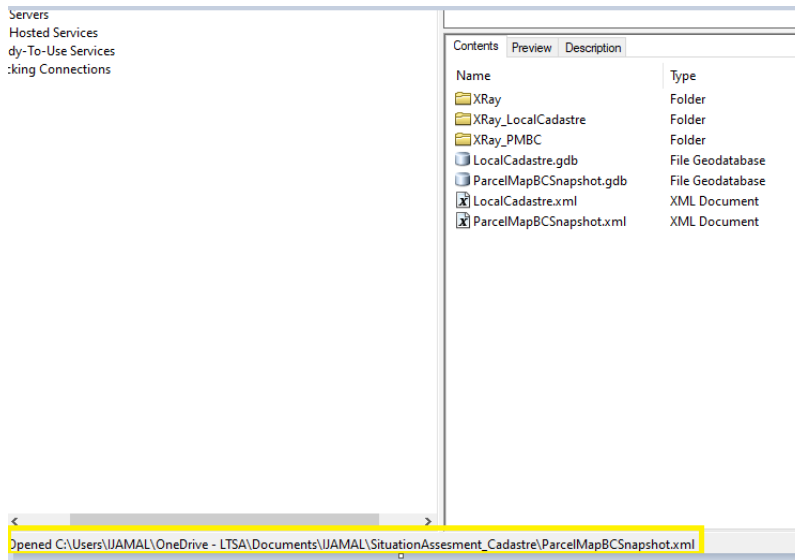
In this example you are comparing the LocalCadastre GDB to the ParcelMapBCSnapshot.xml



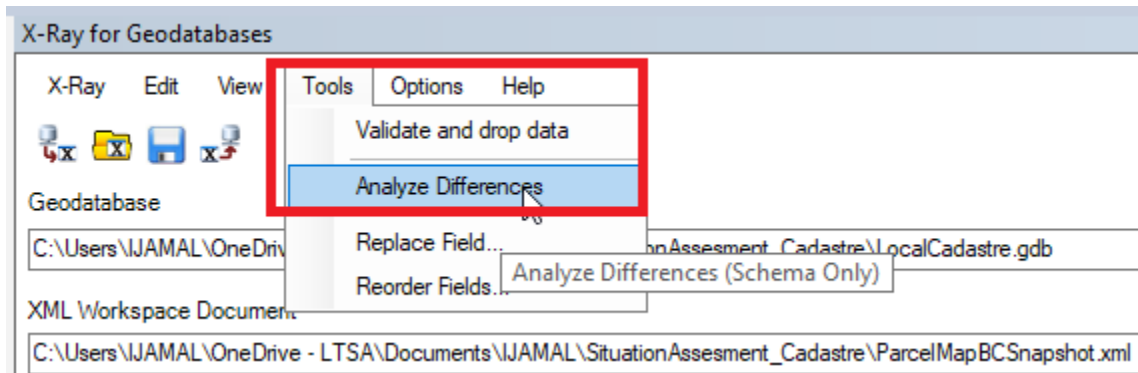
- b. Open the ParcelMapBCSnapshot xml by clicking Open XML Workspace under the X-Ray menu.



- c. The process will run a few seconds and then you will notice the ParcelMapBCSnapshot.xml has been opened.



- d. Next you will select “Analyze Differences” from the Tools, X-Ray menu



- e. An HTML document will launch and this will show a comparison between the ParcelMapBCSnapshot XML and the Local Cadastre File GDB.

X-Ray Geodatabase Differences

Date: September 15, 2021
Time: 4:50:28 PM

27 Diff's in C:\Users\IJAMAL\OneDrive - LTSA\Documents\IJAMAL\SituationAssesment_Cadastre\ParcelMapBCSnapshot.xml
 37 Diff's in C:\Users\IJAMAL\OneDrive - LTSA\Documents\IJAMAL\SituationAssesment_Cadastre\LocalCadastre.gdb

ParcelMapBCSnapshot.xml	Differences	LocalCadastre.gdb
Common_Ownership		Missing
Control_Point		Missing
JuroL_PID_X_Reference		Missing
Parcel_Point		Missing
Parcel_Polygon		Missing
Plans		Missing
Shared_Geometry		Missing
Missing		CommonOwnershipParcel
Missing		ParcelEditing
Missing		ParcelFabric
Missing		PlanExtent
Missing		SharedGeometryParcel

Domains - missing values and domains with differences

50		Missing
CPDM_AdminAreaType		Different Values
CPDM_ControlType		Different Values
CPDM_DivisionType		Different Values
CPDM_EncumbranceType		Different Values
CPDM_GroupType		Different Values
CPDM_HistoryType		Different Values
CPDM_SurveyType		Different Values
CPDM_YesNo		Different Values
PMBC_CaptureMethod		Different Values
PMBC_ControlSurveyType		Different Values
PMBC_ErrorReportedBy		Different Values
PMBC_FeatureCode		Missing
PMBC_FeatureCode_1		Missing
PMBC_GeometrySource		Different Values
PMBC_GeoReferencingMethod		Different Values
PMBC_Municipality		Different Values