



GCCC Feature Code Library

GCCC Feature Codes (V1.3).FXL

October 2020



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Revisions:	Release Date:	Changes:
GCC Feature Codes (V1.2) (First release)	1/8/2020	N/A
GCC Feature Codes (V1.3)	30/10/2020	Date and time attribute added to all points and strings. Feature code Groups added.

Introduction

This guide looks at the details included in the GCCC Feature code library put together by UPG. This library has been designed to match as closely as possible the current feature library outlined by GCCC.

This contains the feature codes which have been mapped with the colours, blocks and symbols as defined in their guide. The line styles are all solid at this stage as we have not been able to create them. This has been built against the current GCCC survey outsourcing guidelines, part 4, 12d survey code list (16th March 2016).

The line feature points once processed in TBC will all end up on Layer "0".

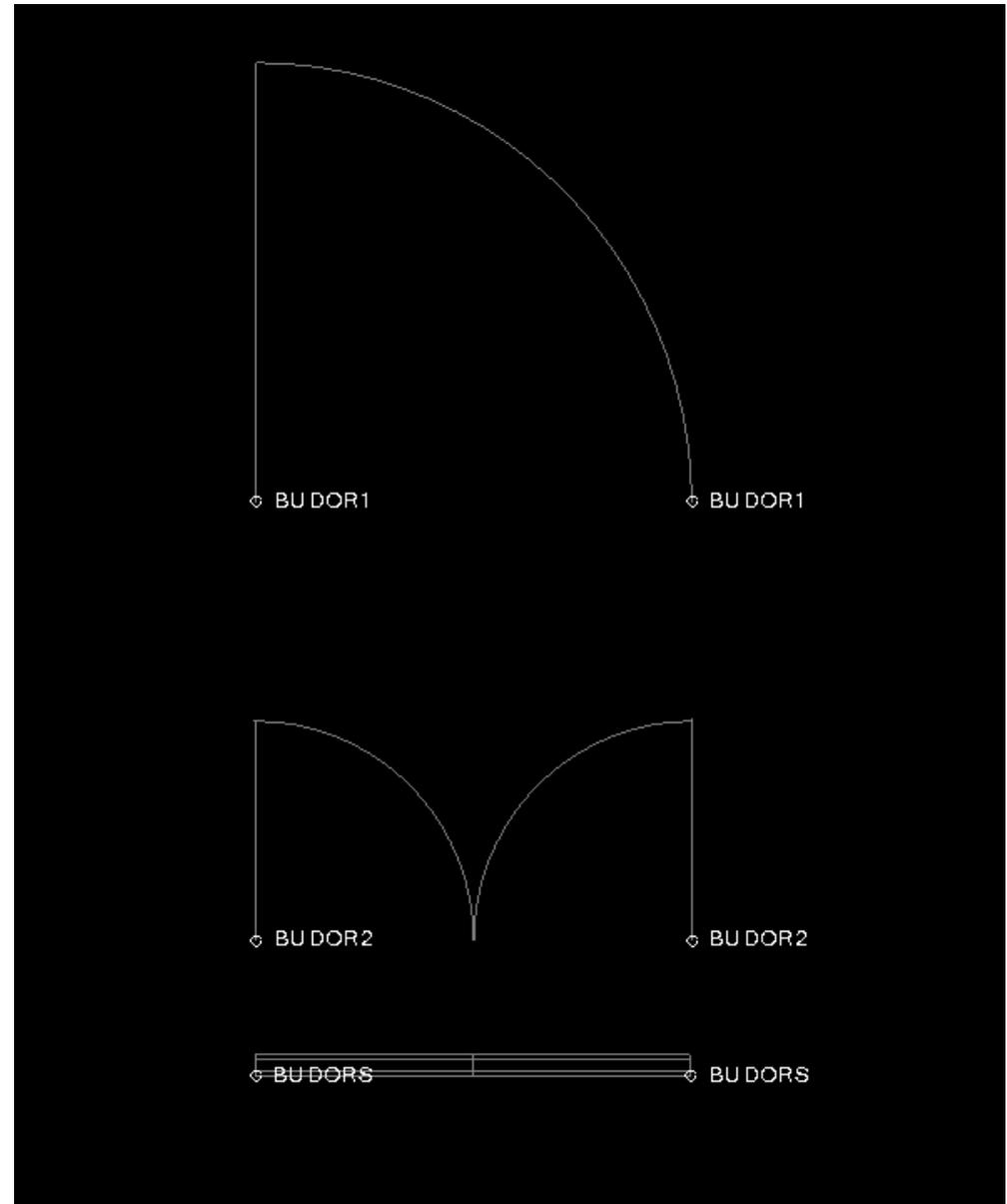
The code of the linestrings has been placed in front of the string name to allow mapping in 12D.

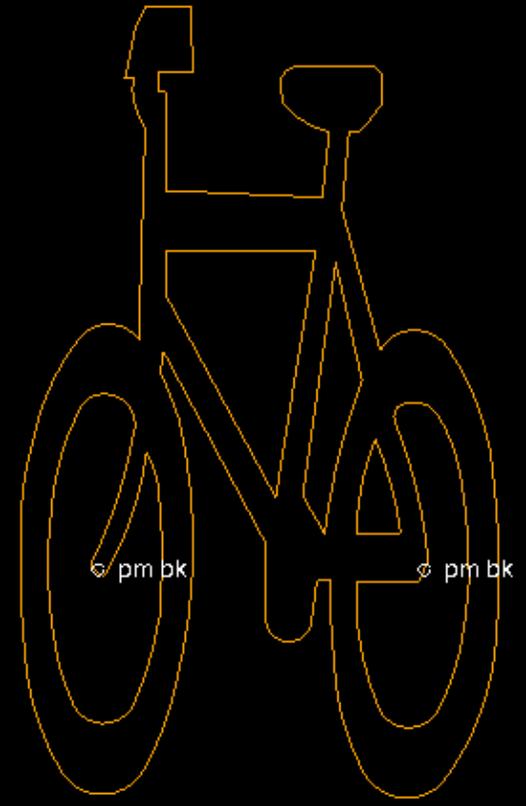
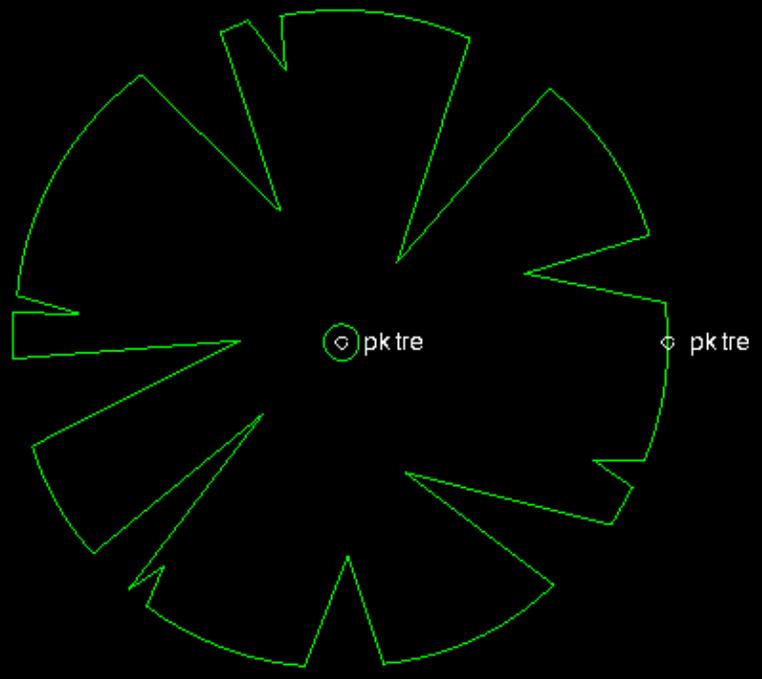
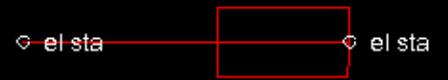
Block Codes

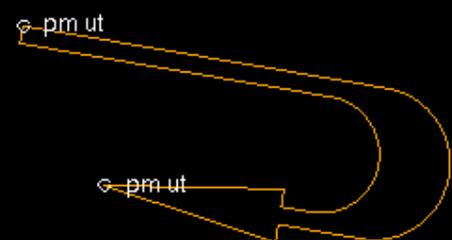
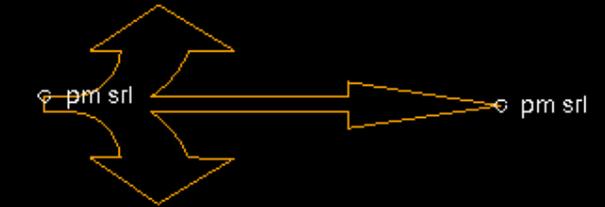
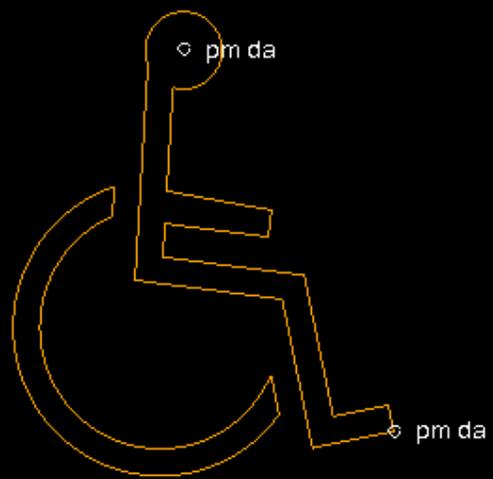
Due to the way some features are defined by GCCC, some feature codes require multiple pick up points to place and orientate the symbol. The following codes have been converted into **blocks**:

- BU DOR1
- BU DOR2
- BU DORS
- FE GA
- PK TRE
- EL STA
- PAVEMENT MARKS
- SW GT
- PM BK

The Illustrations display the specific codes and where the points are located in reference to the symbol block. Note that arrows are always located in the direction the arrow is pointing.







Control Codes

Control codes have been included in this library for enhancing field pickup if desired and allowing for greater editing in TBC through the use of editing feature codes.

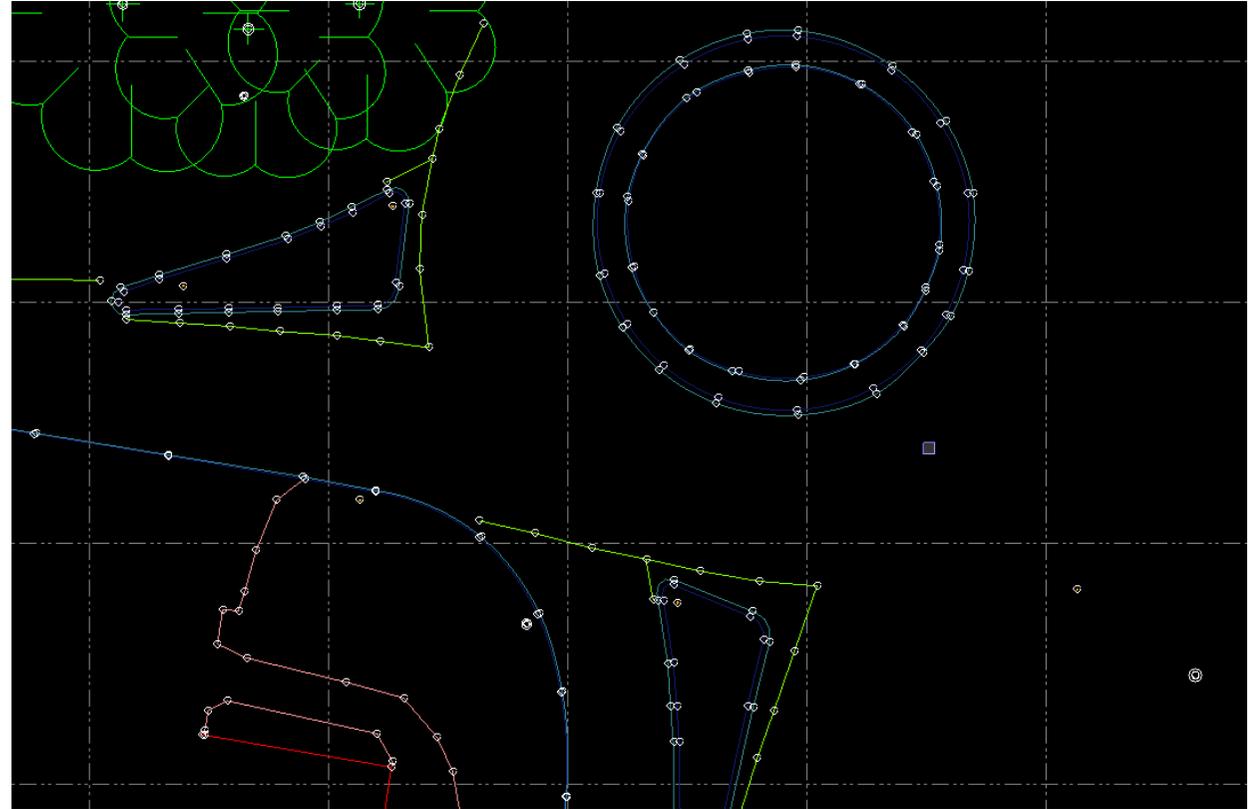
Control codes give extra line joining control in the field for creating arcs, shapes, start new line sequences, close figures, and join specific points. They are defined as seen below:

XXXX # - space and then the control code is entered

So, a code would look like:

EJ02 1

Line Control Codes	
Name	Code
Line - Start	1
Smooth Curve - Start	10
Smooth Curve - End	11
Circle Edge - Start	12
Circle Centre - Start	13
Rectangle - Start	14
Horizontal Offset	15
Vertical Offset	16
Line - End	2
Joint to Point	3
No Join	4
Close Line	5
Tangential Arc - Start	6
Tangential Arc - End	7
Non-Tangential Arc - Start	8
Non-Tangential Arc - End	9



Importing a JXL file into 12d

You are able to export a JXL file from your controller and import it straight into 12d. The following steps demonstrates the process to import the GCCC codes that include a space in the coding:

Step 1.

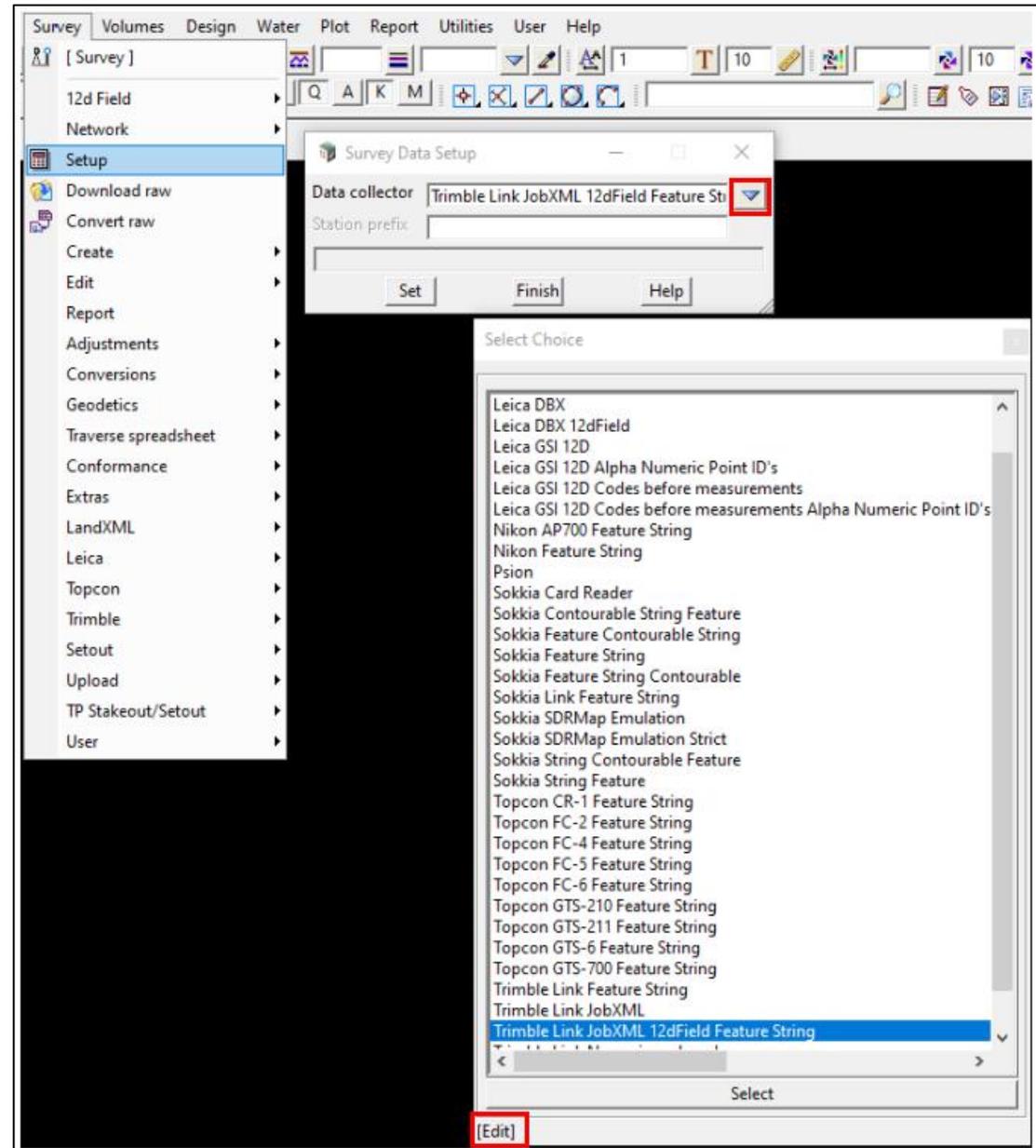
Launch a new 12d project.

Under the Survey tab *select Setup.*

The *Survey Data Setup* window will display.

Click the Down Arrow and scroll to **Trimble Link JobXML 12d Field Feature String** and *select it.*

Click Edit in the bottom left hand corner of the window.



Step 2.

In the *Edit* window. *Select* the **Delimiters** tab.

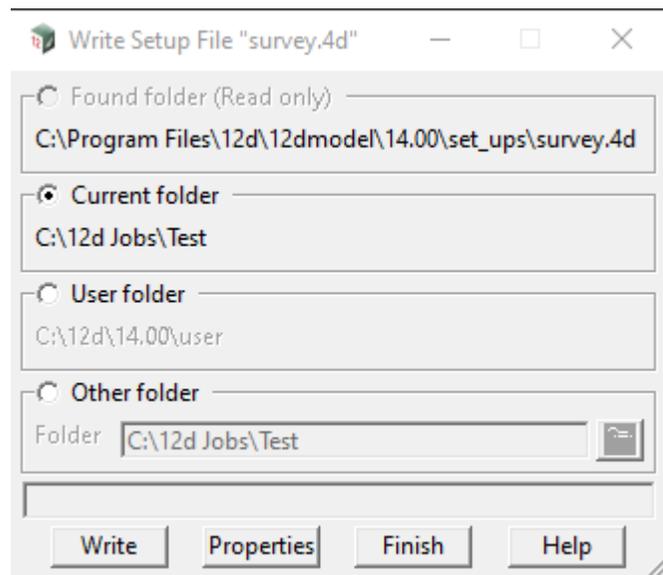
In the *Comment* box it will look as if there is nothing there. However, there is a space. *Delete* the space and change it to a **Comma**.

Next, *select* the **Feature Coding** tab. Ensure the **Allow Spaces in Feature Codes** box is *ticked*.

Click **Set** then **Finish**.

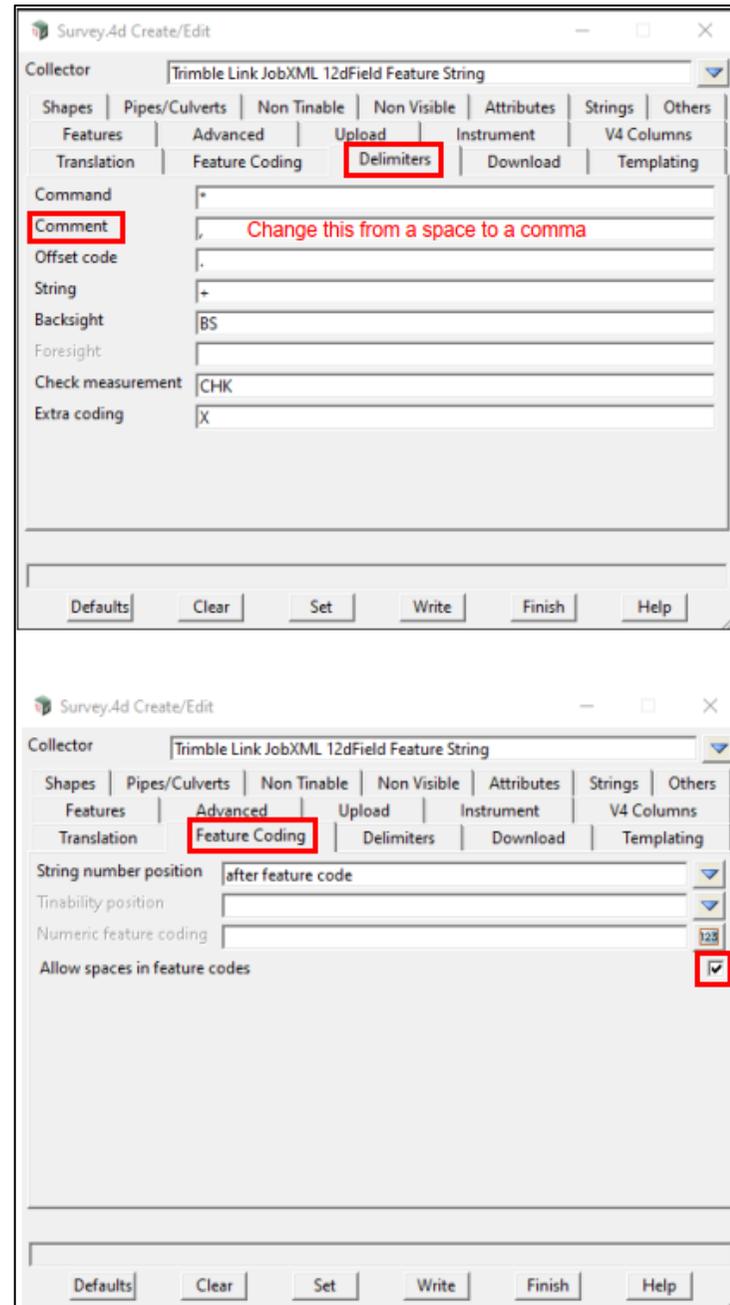
Note: By clicking set these settings will save for the project, however once you close and reopen the project the settings will be back to default.

To save these settings *click* **Write**. Displaying the window below.



Select **Current folder** if you wish to save the settings for this project only or *select* **User Folder** to save the settings for all future projects.

Click **Write** then **Finish**.

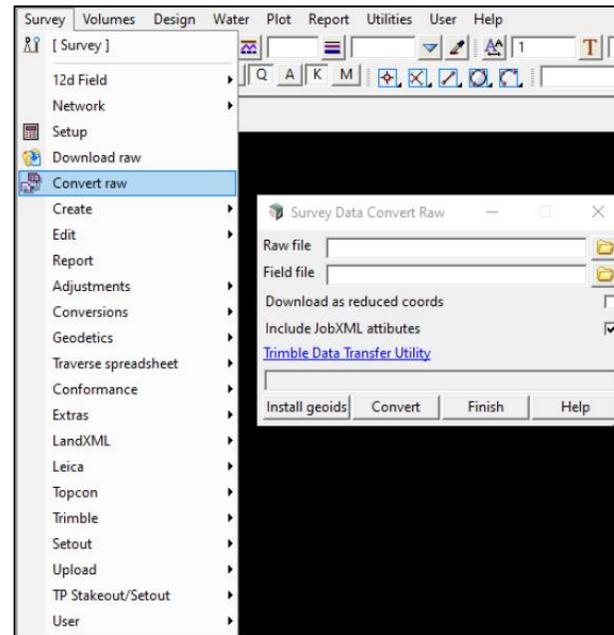


Step 3.

Next, under the *Survey* tab click **Convert Raw**.

The **Survey Data Convert Raw** window will display. Click the **folder icon** next to the Raw file box. Navigate to the **JXL file** you wish to use and *select* it.

Click **Convert** then **Finish**.



Step 4.

Finally, select the *survey* tab and in the *create* list click **Field file**.

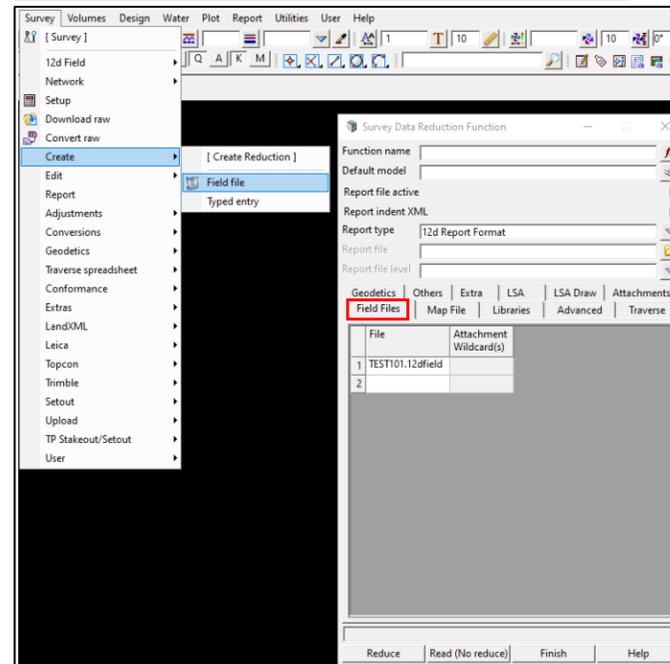
Input a **Function name** and **Default model**.

Select the *field files* tab. Your converted JXL file should be in the file list as a 12dfield file.

Click **Reduce** then **Finish**.

The points, lines and polygons from your JXL should now be in your 12d project.

Note: You can also select a map file under the map file tab. This associates the line styles, colours and layers with the correct feature codes.



Other Items

EDITING:

We recommend not editing the FXL and providing UPG with any required edits, however you are able to do any required editing within TBC or the Feature Definition Manager.

ATTRIBUTES:

We have strived to ensure that attribute information is correct, however this may change moving forward with updates, requiring an update to the FXL.

FINAL NOTE

UPG is committed to supporting the GCCC code library and enhancing functionality to assist with the use of this feature code library. Please contact us with any requests and suggestions that can be made to this library and also for any enhancements that could be made in TBC to improve the user experience when working with GCCC, and we will try to accommodate them.