# X-PAD Ultimate FAQ Series

CODE list management

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## Thesis

X-PAD code lists definitions are stored internally in .XML files. You can import libraries from ASCII text files (this FAQ is about this), from GeoMapper files (see https://www.geomapper.rs/ ), from SCC files (I don't know what an SCC file is), from LandXML files.

This document describes how to make an Excel spreadsheet, export it as a tab delimited text file and import the list into a new named library.

## Native XML Format

The CODE description files are natively stored in the Android device folder:

    \Internal shared storage\X-PAD\_Data\Codes

Sample XML lines for CP, a point; and CL, a line; are:

```
<?xml version="1.0" encoding="utf-8"?>
<CODES>
      …
  <SURVEYCODE Code="CP" Desc="CONTROL POINT" Type="0" Symbol="-1"
SymbolSize="1.000" Layer="" Color="0" ColorARGB="-65536" ColorByLayer="False"
Linetype="CONTINUOUS" LastUsedDateTime="0" />
      …
  <SURVEYCODE Code="CL" Desc="CENTERLINE" Type="0" Symbol="-1" SymbolSize="1.000"
Layer="CL" Color="0" ColorARGB="-65536" ColorByLayer="False" Linetype="CONTINUOUS"
LastUsedDateTime="638106726960344930" />
      …
</CODES>
```

The QUICKCODE pages and assignments are also stored at the end of the Code XML file. This way the quick-code pages can be quickly replicated across devices at the same time the code lists are shared.

## Method

Assume we have a starting text file. This is a snippet from an existing .FCL file:

```
des,N,N,Elev Suffix,3D Layer
BM,N,N,P_MARK,BM
CL,Y,N,E_ALI_CL,CL
```

Opening this file in Excel as a comma delimited file:

I need to make a few changes, first I will change the Line code from Y to 1 and N to 0 as X-PAD expects a "1" if the code is for a line.



If a Description is available in the CODE list and the user does not override the description when collecting data, the CODE list description will be stuffed into the point's description. I don't want that because I know what BM and CL means in my drawing. I don't need an extra label with the description when I import collected data.
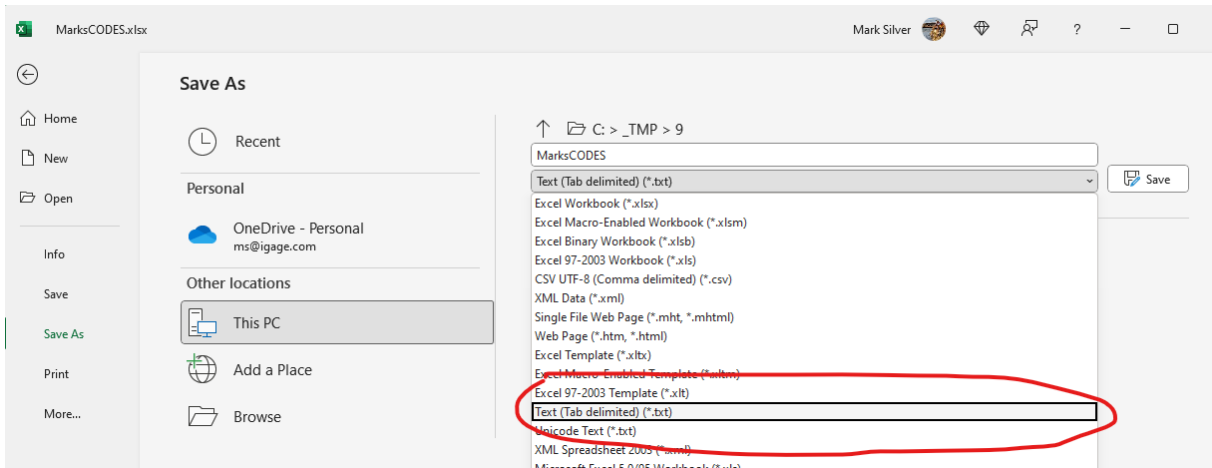
If you put a ' (single quote character, the unshifted key to the left of the Enter key on my keyboard) as the first character of the Description, then the CODE Description will not load into the point description. Because of the way Excel treats this character you will need to put two of them at the beginning of the Description:



Next, I want to save this file as a 'tab-delimited' text file. In Excel choose:
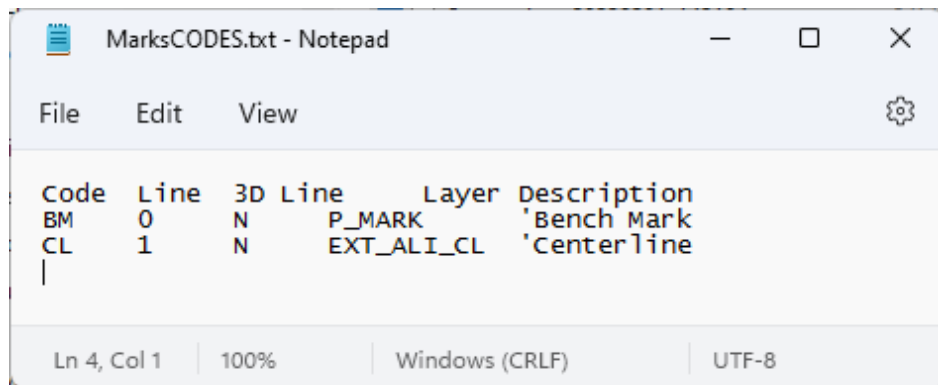
      File: Save As

then choose the 'Text (Tab delimited) (*.txt)' file type. I am using tabs as the delimiter in case I want to use commas as part of some of my descriptions.

Remember that Excel will keep the exported file open. You must exit Excel or close the file in order to use the newly created tab-delimited file.

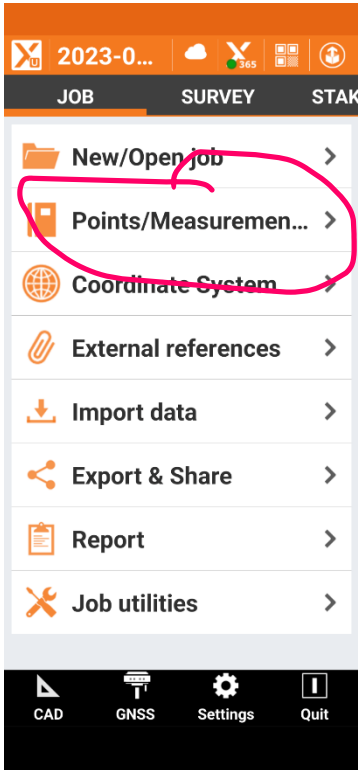The exported file, if opened in Notepad looks like this:



Now I am ready to import this text file into a new X-PAD CODES list.

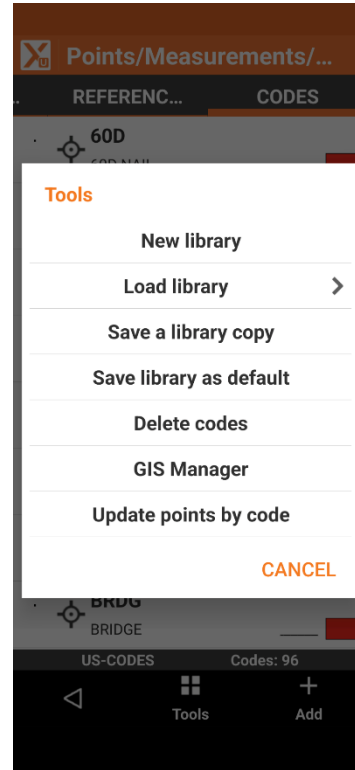Move the file onto the Android device. I used the USB cable and put the file in the folder

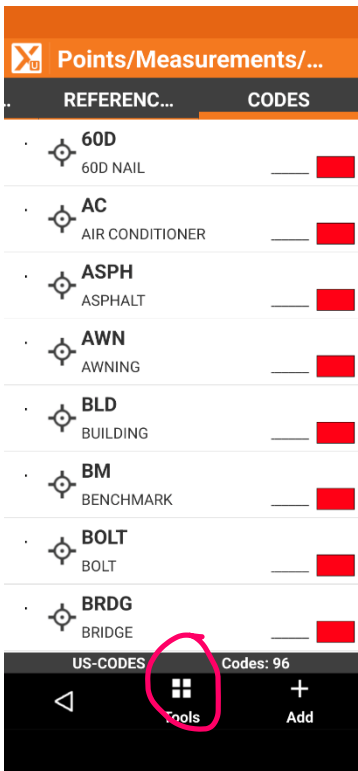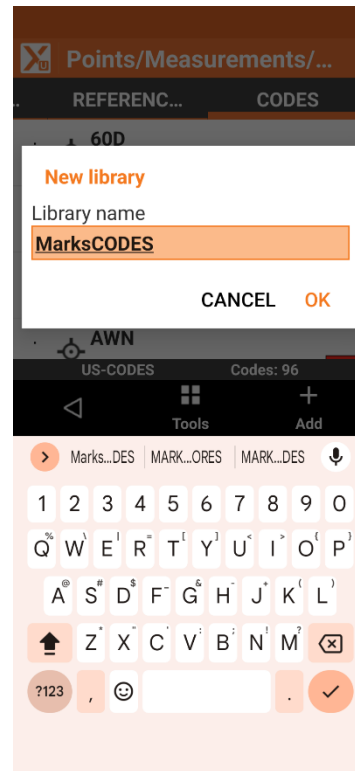    \Internal shared storage\X-PAD\MySite.site\Import

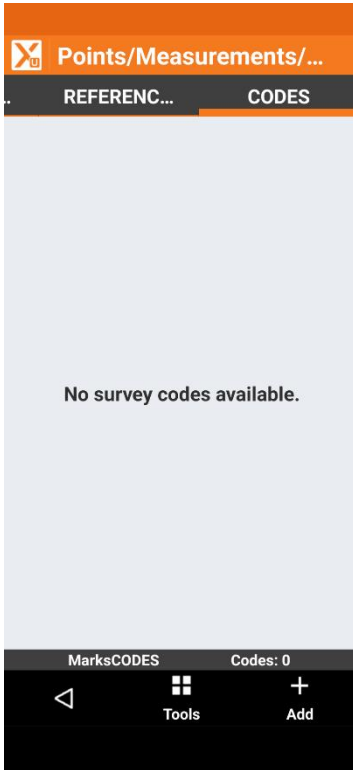In X-PAD:

Click on JOB: Points/Measurements/CODES
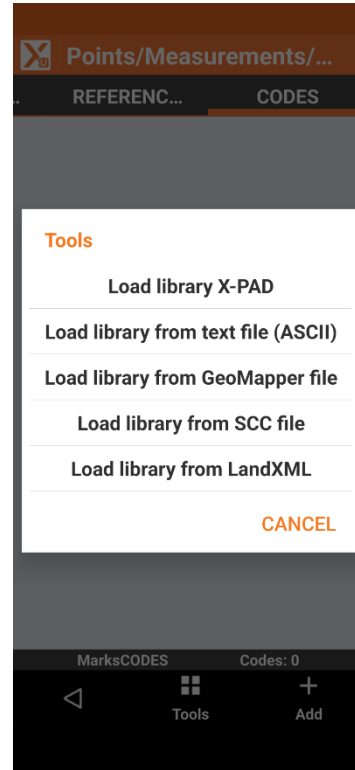


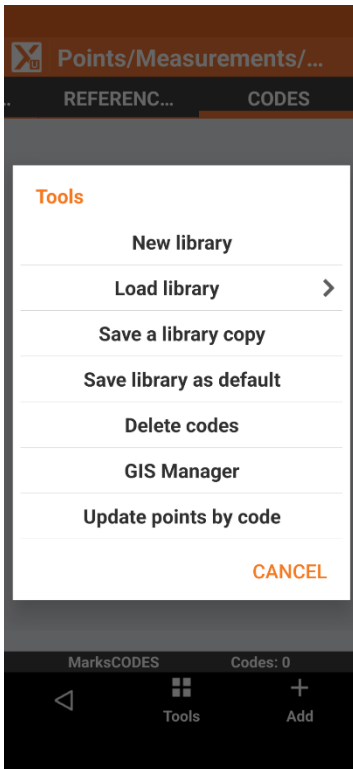Click on 'New library'



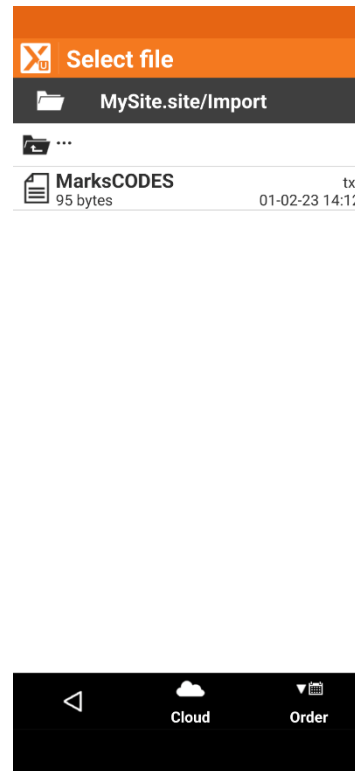Click on Tools



Enter a name for the new CODE library.

The new CODE library will be empty. Click on Tools.

Click on 'Load library from text file (ASCII)'

Click on 'Load Library'

Browse for the new tab-delimited file.

## Import ASCII

**Parameters**

| Data | Codes |
|---|---|
| Scheme | * Customized * |
| Separator | <Tab> |
| Heading rows | 1 |

**Latitude/longitude format**

| Lat.de/ Long.de | DD°MM'SS.ssss |
|---|---|

Choose '* Customized *' for the scheme so that we can make a new one. Choose <Tab> as the delimiter for columns. Note that the top line of the file is a header line.

## Import ASCII

**Fields**

☑ Short Code
☑ Point/Line
☑ Long description
☑ Layer name
☑ Color
☑ Line type name
☑ Symbol
☑ Symbol size
☐ ** Ignore **
☐ ** Ignore **
☐ ** Ignore **
☐ ** Ignore **
☐ ** Ignore **

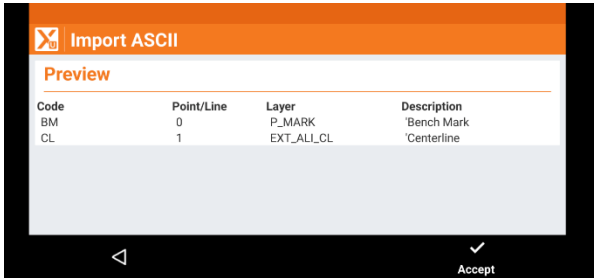Select fields, then use the Down and Up buttons to match the input format of our ASCII file.

## Import ASCII

**Fields**
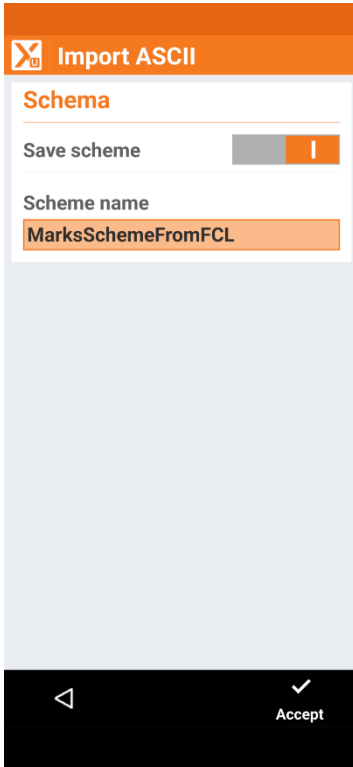
☑ Short Code
☑ Point/Line
☑ ** Ignore **
☑ Layer name
☑ Long description
☐ Color
☐ Line type name
☐ Symbol
☐ Symbol size
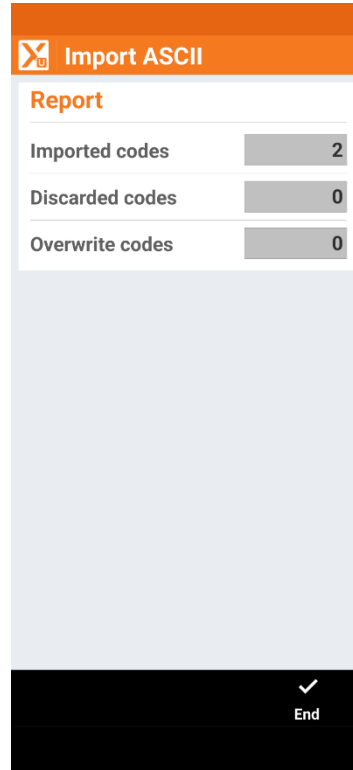☐ ** Ignore **
☐ ** Ignore **
☐ ** Ignore **
☐ ** Ignore **

This looks good, click the Next button.

**Import ASCII**

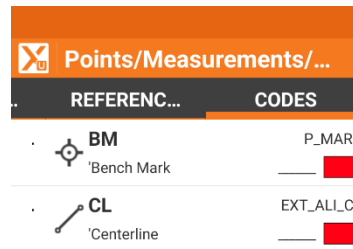**Preview**

| Code | Point/Line | Layer | Description |
|------|-----------|-------|-------------|
| BM | 0 | P_MARK | 'Bench Mark |
| CL | 1 | EXT_ALI_CL | 'Centerline |

Accept

Perfect! Click Accept.



**Import ASCII**

**Schema**

Save scheme   | I |

Scheme name

MarksSchemeFromFCL

Accept

Save the new import scheme so that we can us it again.



**Import ASCII**

**Report**

| | |
|---|---|
| Imported codes | 2 |
| Discarded codes | 0 |
| Overwrite codes | 0 |

End

Score! Every CODE was accepted. Click End.



**Points/Measurements/...**

| REFERENC... | CODES |
|-------------|-------|
| BM<br>'Bench Mark | P_MARK |
| CL<br>'Centerline | EXT_ALI_CL |

MarksCODES   Codes: 2

Tools   Add

The final results are now in the CODE table.

Consider clicking the Tools button and saving the
new CODE library as the default.