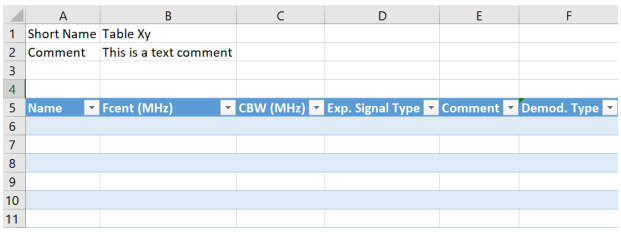
Script “nslconvertcsvtxtab”

The script “nslconvertcsvtxtab.py” allows the user to convert template-generated csv-based SignalShark transmitter tables into an xml file.

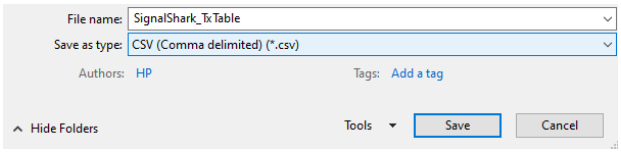
The csv-based transmitter table files to be used for this script are generated using the excel template separately provided in the file “SignalShark_TxTable_Template.xltx”. The user is required to manually update the transmitter table information in the excel template and save it as a CSV file. When the script “nslconvertcsvtxtab.py” is executed through the Narda Script Launcher Application, the user is prompted to select the CSV file containing the transmitter table information. A dialog box shows the conversion progress. A pop-up dialog appears as soon as the conversion is completed. The converted XML file is saved in the parent folder with the same name but an xml file extension.

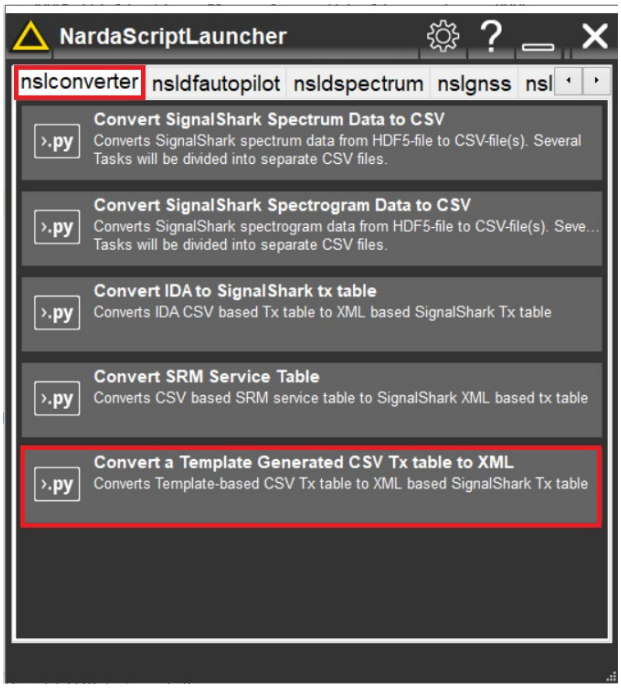
Procedure

1. To create SignalShark Transmitter Tables in csv, the excel template “SignalShark_TxTable_Template.xltx” is used. The user can add a Short Name of choice and comments (if needed). The transmitter table entries can be manually added:

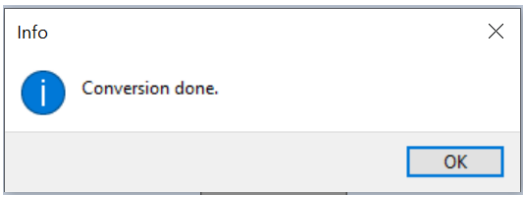


	A	B	C	D	E	F
1	Short Name	Table Xy				
2	Comment	This is a text comment				
3						
4						
5	Name	Fcent (MHz)	CBW (MHz)	Exp. Signal Type	Comment	Demod. Type
6						
7						
8						
9						
10						
11						





5. When the script is executed, the user is asked to select the (.csv) file. Enter the path to the above generated CSV file using the excel template.
6. Upon file selection, the script converts all the transmitter table entries into the XML file. A progress bar appears on the screen showing the status of file conversion:



9. Press “Ok” to terminate the script.
10. The resulting .xml file shows the data for each transmitter as separate sub-elements of the node as shown below:

```
<?xml version="1.0" encoding="UTF-16"?>
- <Narda_3300_TransmitterTable>
  - <Info>
      <ShortName size="1" type="string">Table Xy</ShortName>
      <Comment size="1" type="string">This is a text comment</
    </Info>
  - <Data>
      <SortCriterion size="1" type="ENUM_PARAM_TRANSMITTER
      <SortOrder size="1" type="ENUM_PARAM_TRANSMITTER_T
      <NoOfTransmitters size="1" type="ulong">18</NoOfTransmitt
    </Data>
  - <Tx0001>
      <Name size="1" type="string">Tx1</Name>
      <Fcent size="1" type="double">100.000</Fcent>
      <CBW size="1" type="double">100.000</CBW>
      <ExpectedSignalType size="1" type="string"/>
      <Comment size="1" type="string"/>
      <AnalogAudioDemodType size="1" type="ENUM_PARAM_ANA
    </Tx0001>
  - <Tx0002>
```

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