

# Create VSS XML Library

## To run this script

Select **Scripts >VSS > Create\_XML\_Library** from the Menu.

Or, in versions that support the script, you can run the utility directly from this page using this button.

## Description

This script helps you create a library of parts for VSS. You configure the parts you would like them in an AWRDE project and the script will write out all the necessary information to an XML format that is used to describe parts libraries. It is much easier to configure the parts in a system diagram than editing XML files directly.

To use this script:

1. Organize your project how ever you like. The system diagram names will become the folder names in the library created. There will be one part in each folder for the system block placed inside each system diagram. The ID of the model in the block will become the name of the model in the library.
2. Run the script as described above.
3. You will be prompted to specify the name for a new library or to select an existing one. The file name specified here will be the name that will be used for displaying the library in AWRDE Elements tree. The default location for the xml file is: C:\Users\*user*\AppData\Local\AWR\Design Environment\*version*\xml\System Blocks where *user* is the username in the user's computer and *version* is the version of software you are using. A different location may be specified, if needed. Please note that if an existing library is selected it will be rewritten by the script
4. An xml file will be created at the specified location. If the library contains dependent data files, they will be stored in a subfolder with the same name in the same folder location; if the subfolder does not exist, it will be created during this process.
5. Once created, the library will appear under the Libraries node in the Elements tree next time AWRDE is started.

You can open the `VSS_XML_Template.emp` example shipped with the AWRDE to see an example library setup.

In this example, the system diagrams look like the following:


MiniCircuit LNA x Oscillators Filters Mixers

### MiniCircuit LNA

MiniCircuit LNA list;  
[http://www.minicircuits.com/products/amplifiers\\_smt\\_low\\_noise.shtml](http://www.minicircuits.com/products/amplifiers_smt_low_noise.shtml)

MiniCircuit LNA List  
[http://www.minicircuits.com/products/amplifiers\\_smt\\_low\\_noise.shtml](http://www.minicircuits.com/products/amplifiers_smt_low_noise.shtml)

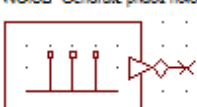
AMP_F ID=SAV_541p_VDS3V DATA="SAV_541p_VDS3V" NOISE=Auto RFIFRQ=	AMP_F ID=SAV_541p_VDS4V DATA="SAV_541p_VDS4V" NOISE=Auto RFIFRQ=
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### Oscillators

AD4350 (Apl) : doc.txt  
[http://www.analog.com/static/imported-files/data\\_sheets/AD4350.pdf](http://www.analog.com/static/imported-files/data_sheets/AD4350.pdf)


ID=ADF4350\_2200MHz  
 FRQ=2.2 GHz  
 PWR=-7 dBm  
 PHS=0 Deg  
 CTRFRQ=  
 SMRFRQ=  
 ZS=\_Z0 Ohm  
 TN=\_TAMB DegK  
 NOISE=Auto  
 PNMASK="ADF4350\_PN\_2200MHz"  
 PNOISE=Generate phase noise.



### Mixers

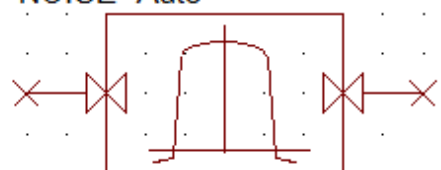
ADL5365 <a href="http://www.analog.com/static/imported-files/data_sheets/ADL5365.pdf">http://www.analog.com/static/imported-files/data_sheets/ADL5365.pdf</a>	ADL5367 <a href="http://www.analog.com/static/imported-files/data_sheets/ADL5367.pdf">http://www.analog.com/static/imported-files/data_sheets/ADL5367.pdf</a>
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ID=ADL5365 MODE=SUM LOMULT=1 FOOUT= RFIFRQ= GCCNV=-53 dB P1DB=-8 dBm IP3=21 dBm LOGOUT=-21 dB INQOUT=-36 dB LOGIN=-25 dB OUT2IN=-25 dB PLO=-7 dBm PLOUSE=Spur reference only PIN= PINUSE=INQOUTH Only NF=14 dB NOISE=Auto	ID=ADL5367 MODE=DIFF LOMULT=1 FOOUT= RFIFRQ= GCCNV=-3.8 dB P1DB=12.8 dBm IP3=27.4 dBm LOGOUT=-125 dB INQOUT=-20 dB LOGIN=-75 dB OUT2IN=-70 dB PLO4 PLOUSE=Spur reference only PIN= PINUSE=INQOUTH Only NF=16.5 dB NOISE=Auto
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### Filters

LIN\_S  
 ID=Fitl\_S2P1  
 NET="FHX35LG"  
 INPORT={1}  
 OUTPORT={2}  
 NOISE=Auto



After the script is finished with the default settings with a library name of "My Library" and the project is reopened (this is needed to load the newly formed XML), the element tree will now show these parts as being available for use.

- [-] Libraries
  - [+] \* AWR web site (VSS)
  - [+] DVB-H (DVB-T)
  - [+] DVB-S
  - [+] IS2000
  - [+] LTE
  - [-] My Library
    - Filters
    - MiniCircuit LNA
    - Mixers
    - Oscillators
  - [+] Radar
  - [+] RF Blocks
  - [+] WCDMA
  - [+] WiMAX Fixed 802.16d
  - [+] WiMAX Mobile 802.16e

Models	Description
- SAV_541p_VDS3V	Frequency Dependent Behavioral Amplifier,
- SAV_541p_VDS4V	Frequency Dependent Behavioral Amplifier,