WEBENCH® Altium Connector

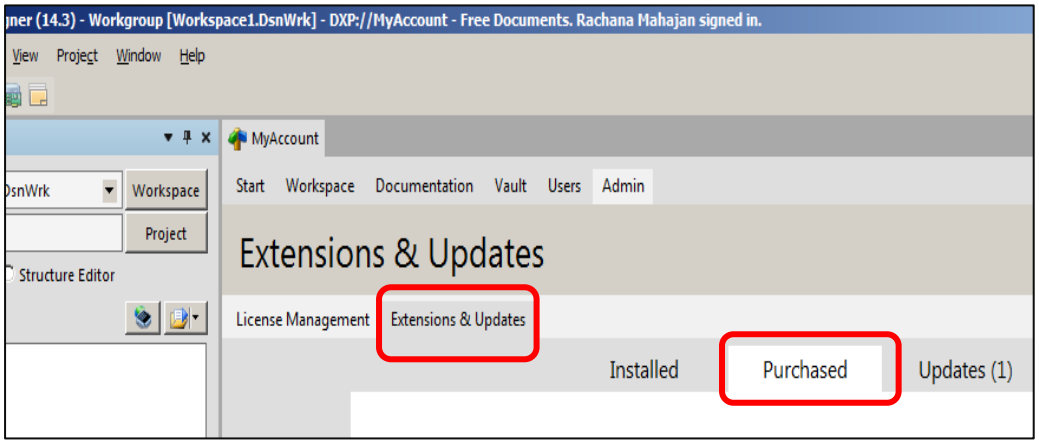
Get started with WEBENCH® Altium Connector

Note: Please install Altium 14 or higher before proceeding by going to http://www.altium.com/products/downloads.

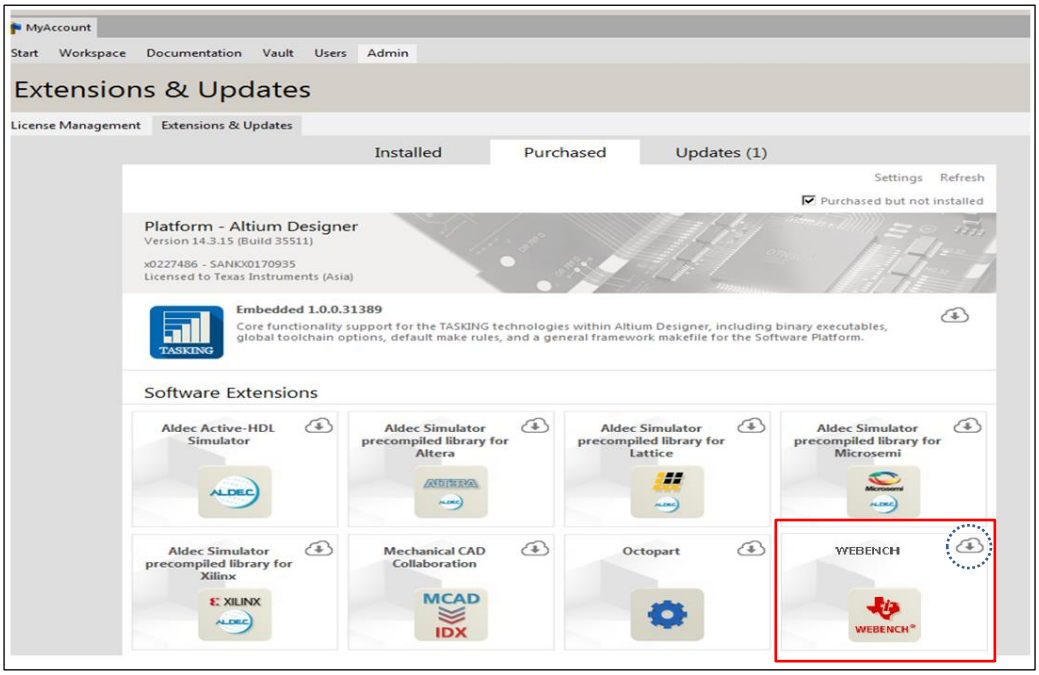
WEBENCH Altium Connector setup installation

Once Altium is installed; you need to install the connector. It is one time installation. To install the connector follow these steps:

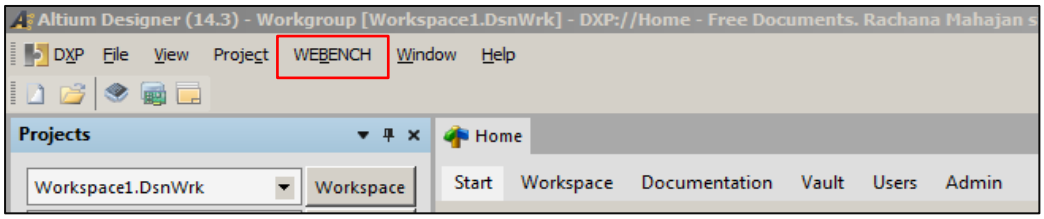
1. Go to the home page in Altium Designer, and check out appropriate license
2. Select **Extensions & Updates** and **Purchased**



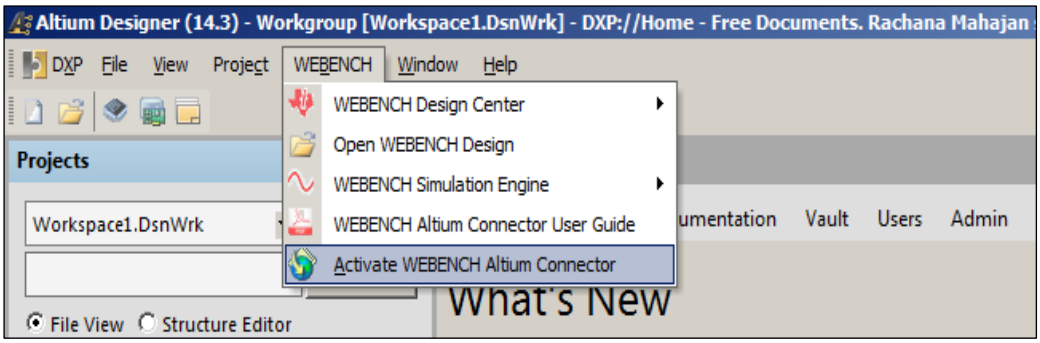
3. Look for the WEBENCH extension. Click on the WEBENCH icon to download and install it.



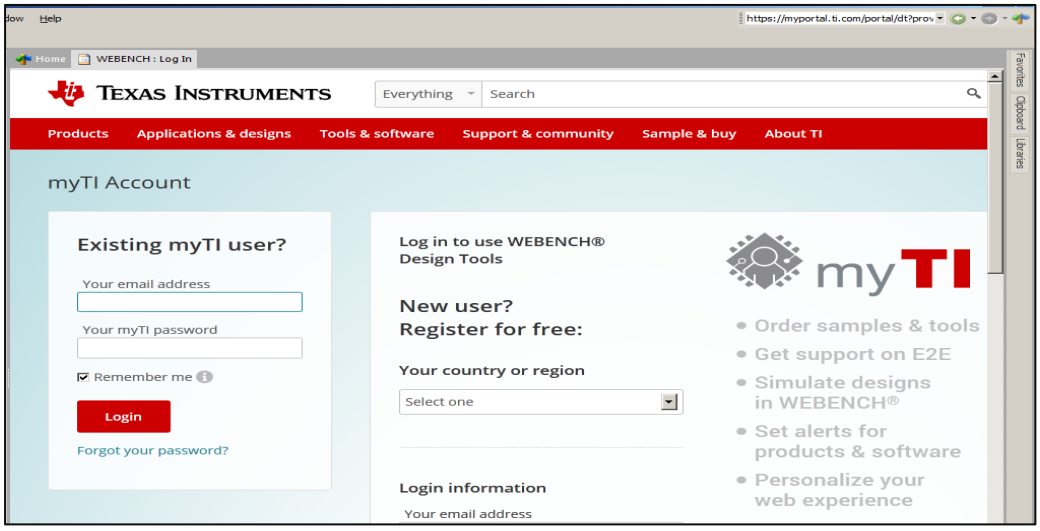
4. Once the WEBENCH connector is installed, restart Altium Designer to complete the installation process. You will see WEBENCH menu added in the Menu bar.



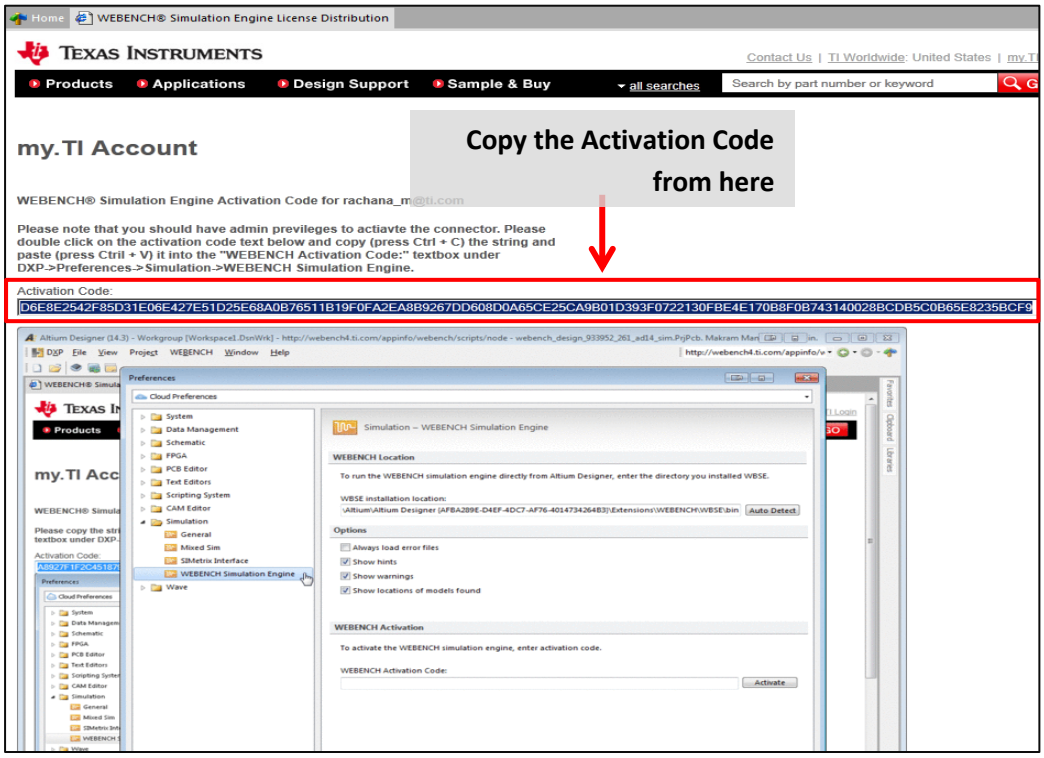
5. Once the WEBENCH connector is installed, you need to activate it in order to run simulations using WBSE.
   Select **WEBENCH** and **Activate WEBENCH Altium Connector**
   NOTE: You can choose whether you want to use the Altium inbuilt browser or external browser. You can go to DXP->Preferences->Simulation->WEBENCH Simulation Engine and select **Open WEBENCH links in external browser**.



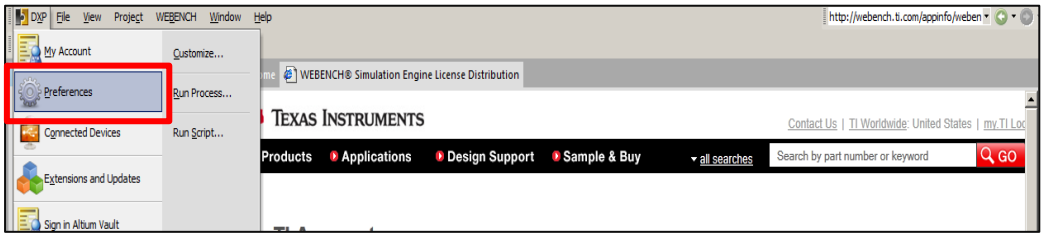
6. The Activate selection takes you to the myTI Account page. Enter your TI credentials and log in. Click **Log In** to get the activation key.



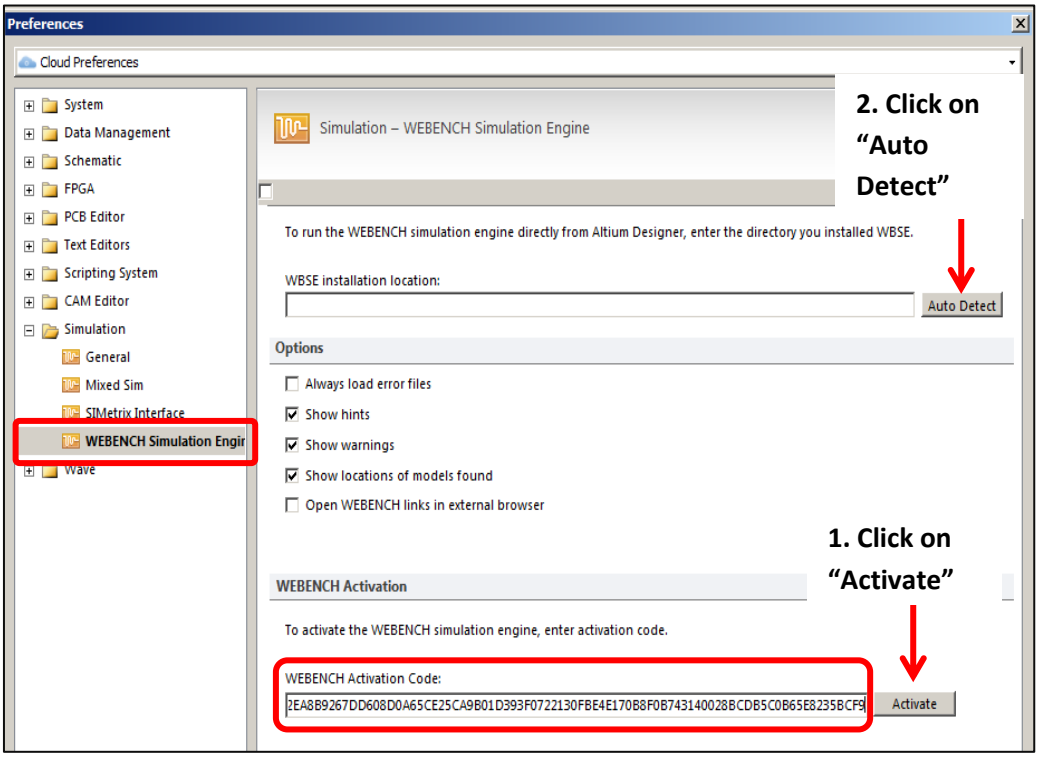
7. Copy the Activation Code provided.



8. Select **Preferences** from the DXP menu.



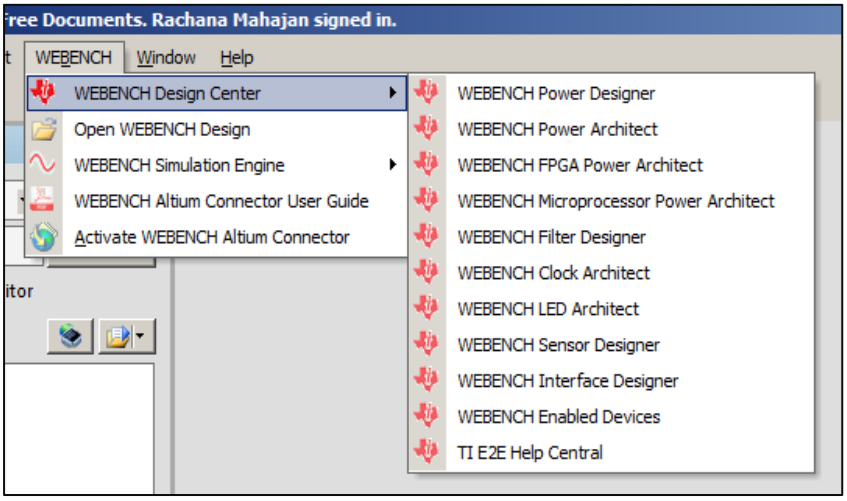
9. Select **WEBENCH Simulation Engine** from the Simulation folder. Paste the activation code and activate.



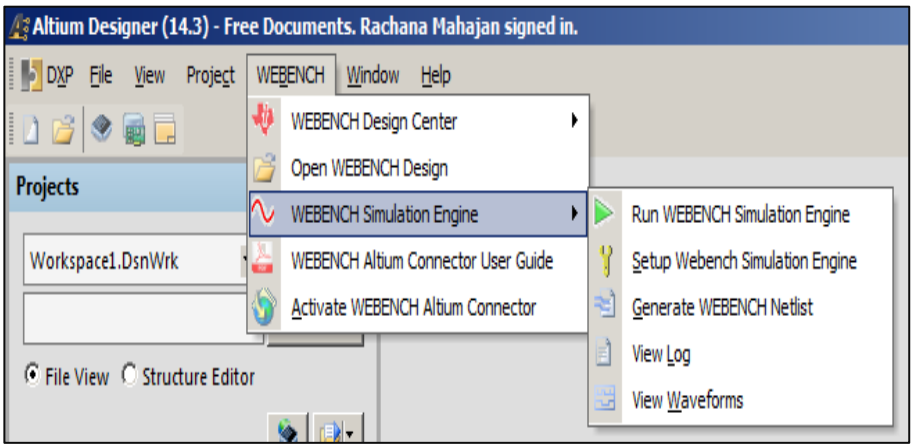
You are ready to use the WEBENCH Simulation Engine.

WEBENCH® menu

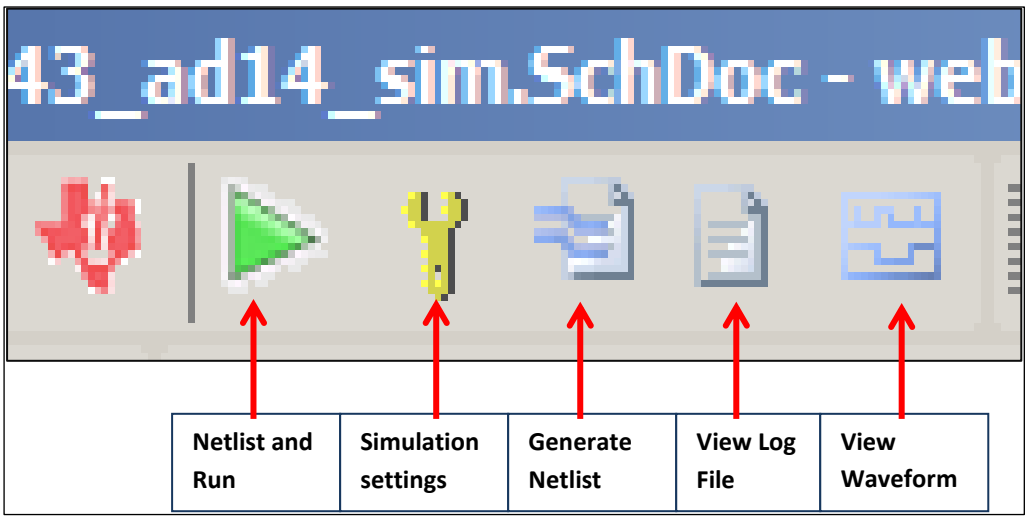
WEBENCH Design Center



WEBENCH Simulation Engine



WEBENCH Simulation Engine toolbar



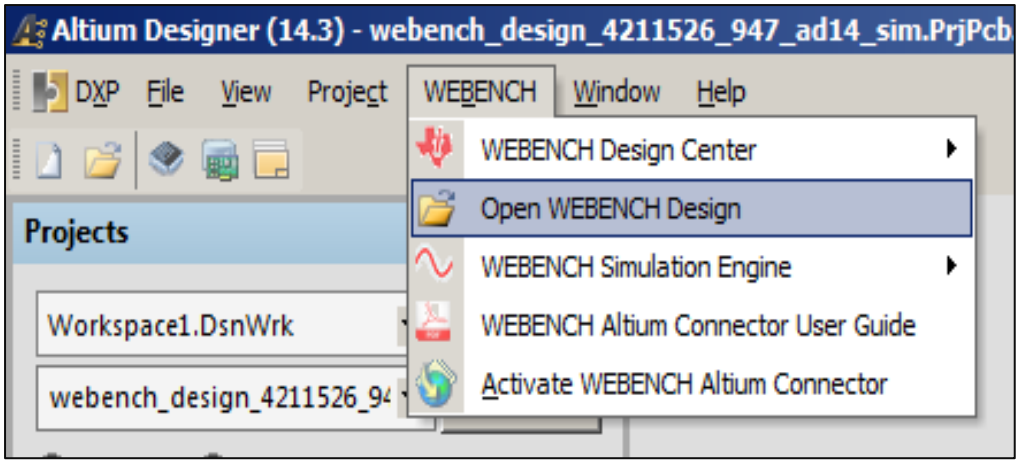
Exporting a design from WEBENCH® Designer

You can export your Power and Filter designs from WEBENCH as shown **here**.

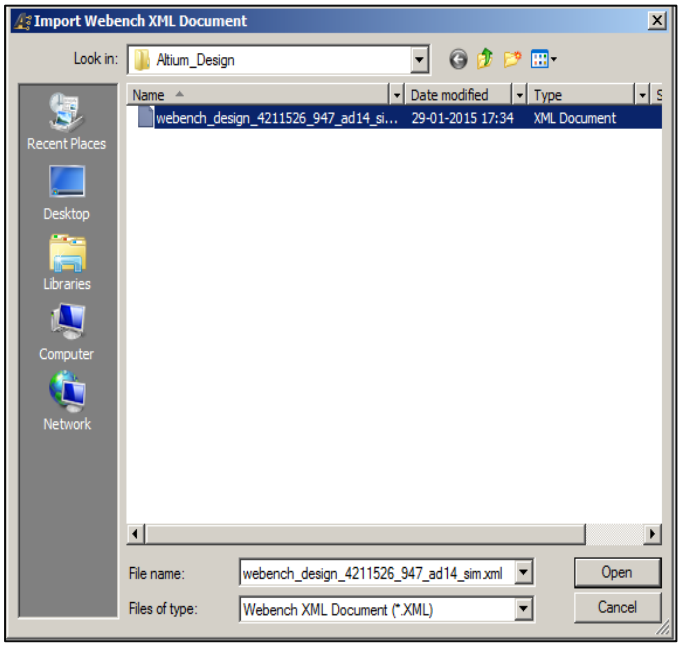
Importing WEBENCH® designs in Altium Designer

The following procedure explains how to open the design exported in previous steps.

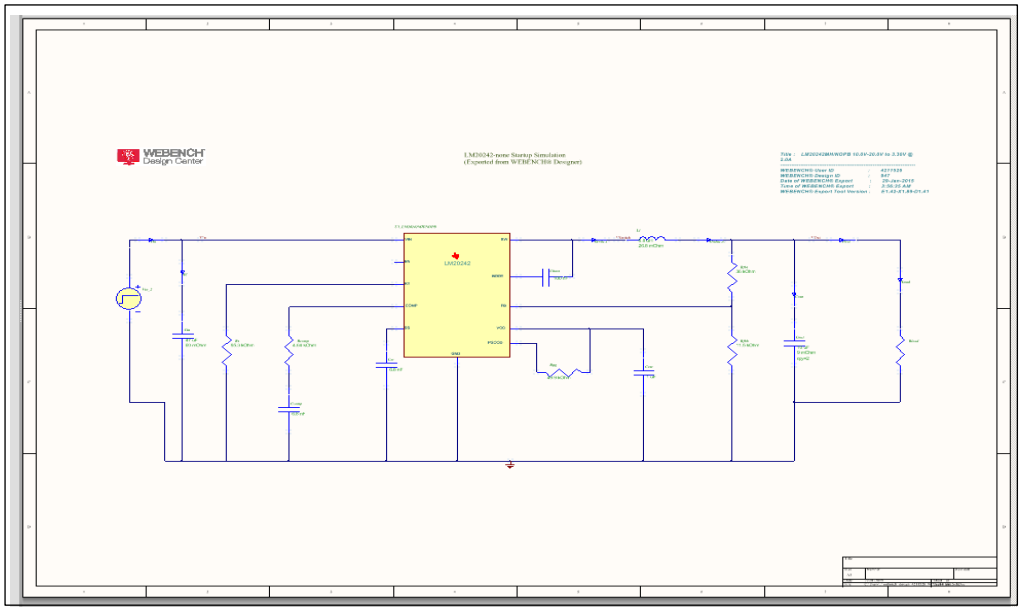
Select **Open WEBENCH Design** from the WEBENCH menu.



Select the downloaded xml file

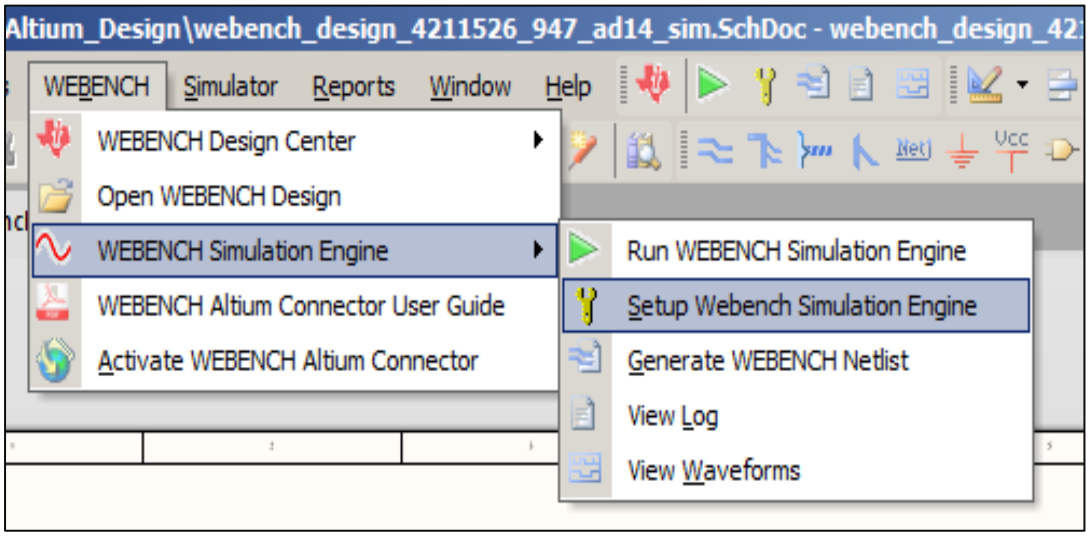


The design is created in Altium and opened.



Working with WEBENCH® Simulation Engine

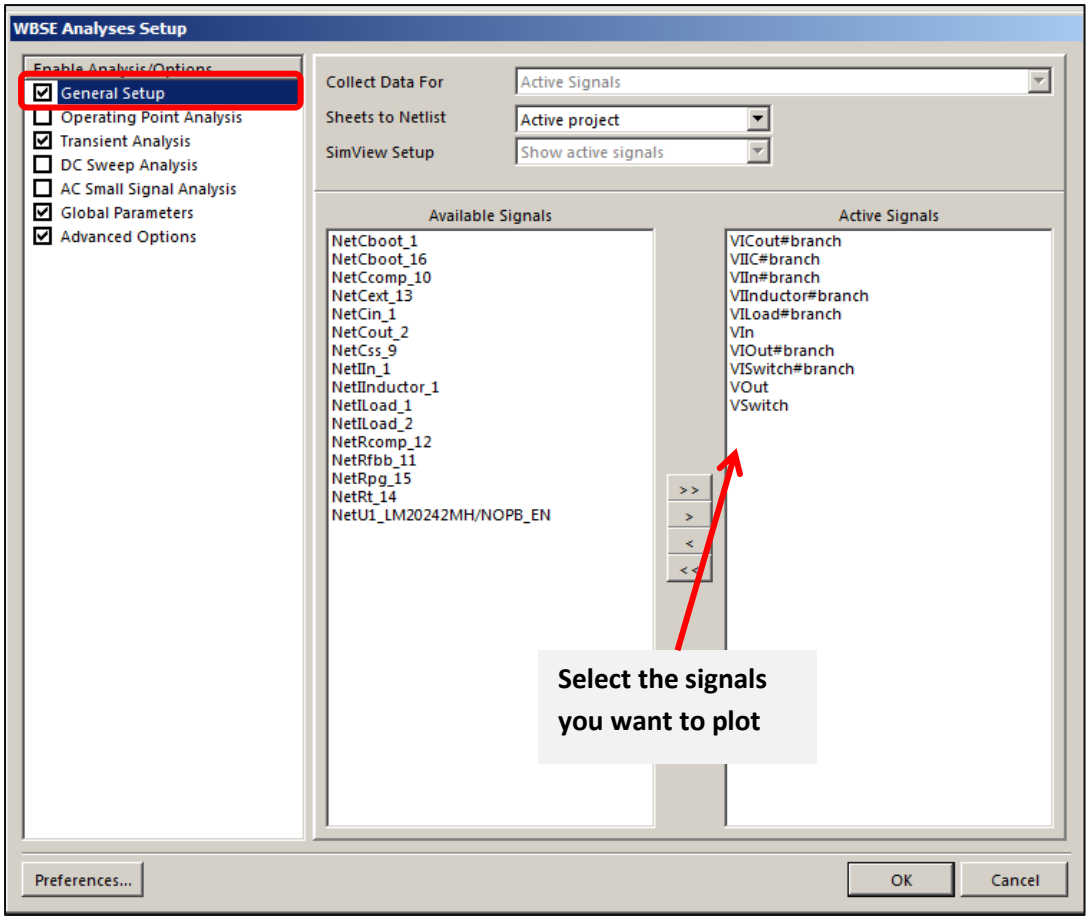
Simulation settings



General Setup

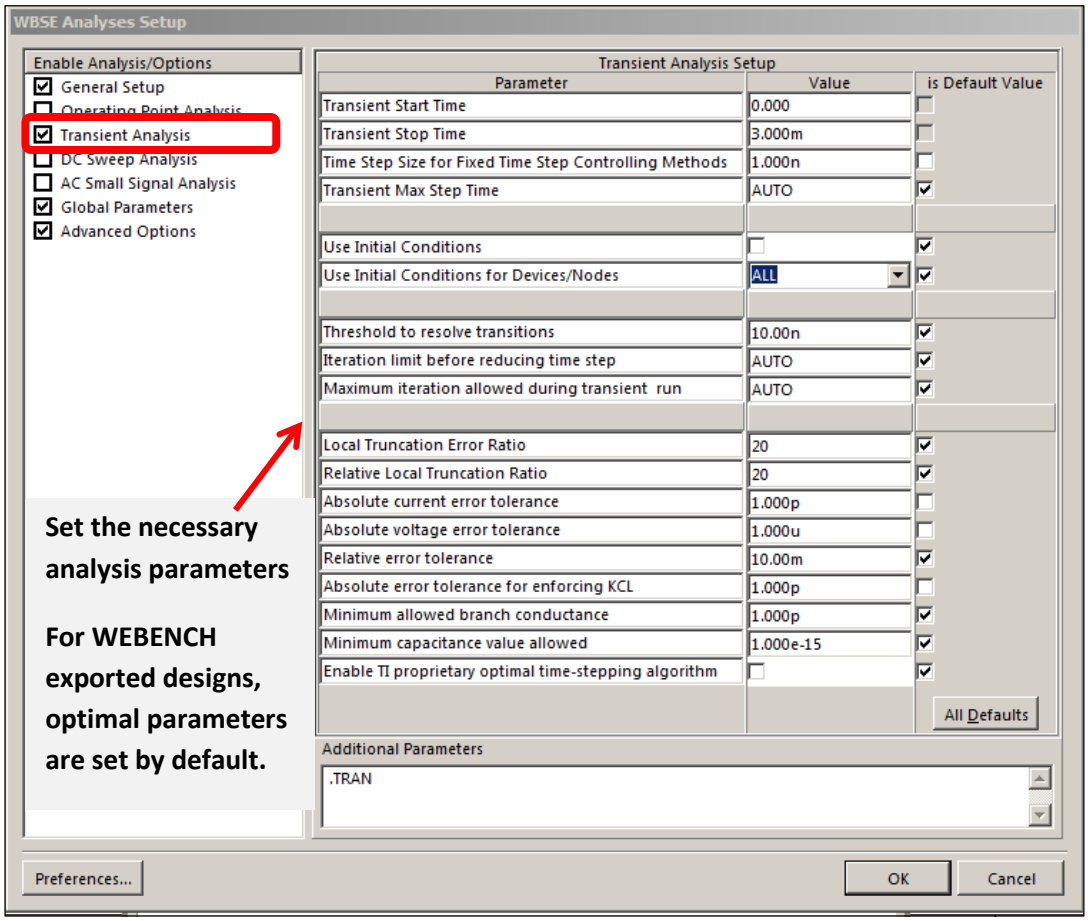
Data Collection, Viewing and Netlisting - These options enable user to control netlisting, data saving and Sim View setup options.

Signals - The active signals can be selected from a list of available signals. Active signals are plotted when the simulation is running.


WBSE Analyses Setup
Enable Analysis/Options
General Setup
Operating Point Analysis
Transient Analysis
DC Sweep Analysis
AC Small Signal Analysis
Global Parameters
Advanced Options
Collect Data For
Active Signals
Sheets to Netlist
Active project
SimView Setup
Show active signals
Available Signals
NetCboot_1
NetCboot_16
NetCcomp_10
NetCext_13
NetCin_1
NetCout_2
NetCss_9
NetIIn_1
NetIInductor_1
NetILoad_1
NetILoad_2
NetRcomp_12
NetRfbb_11
NetRpg_15
NetRt_14
NetU1_LM20242MH/NOPB_EN
Active Signals
VICout#branch
VIIC#branch
VIIn#branch
VIInductor#branch
VILoad#branch
VIn
VIOut#branch
VISwitch#branch
VOut
VSwitch
>>
>
<
<<
Select the signals you want to plot
Preferences...
OK
Cancel

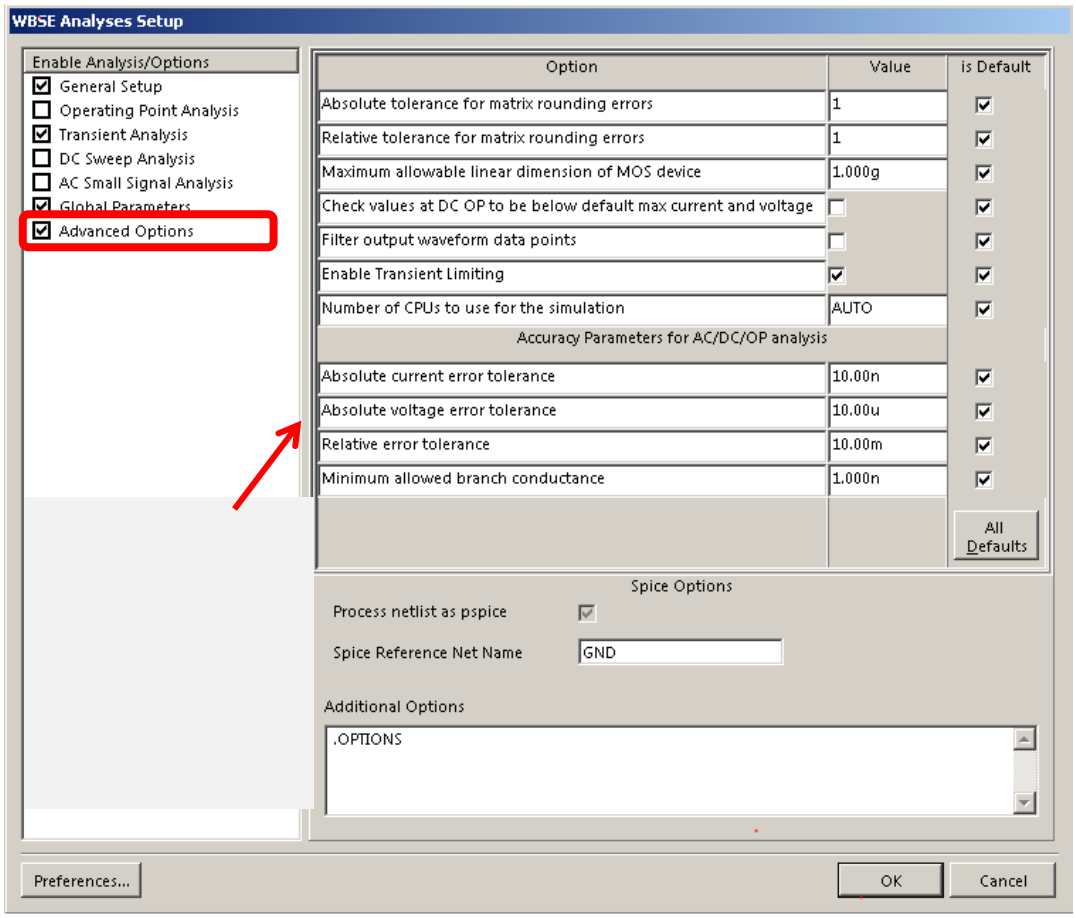
Transient Analysis

In this section you can change the analysis parameters for transient analysis. Similarly you can tune the parameters for AC, DC and operating point analysis. If you want to make changes to the settings, click on respective analysis name on the left pane and edit the options.



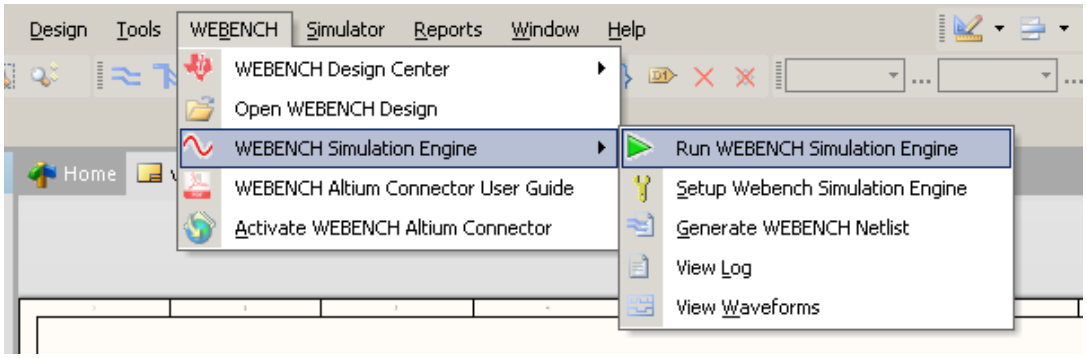
Advanced Options

If you want to specify some simulation parameter, it can be defined in the Global Parameter options.

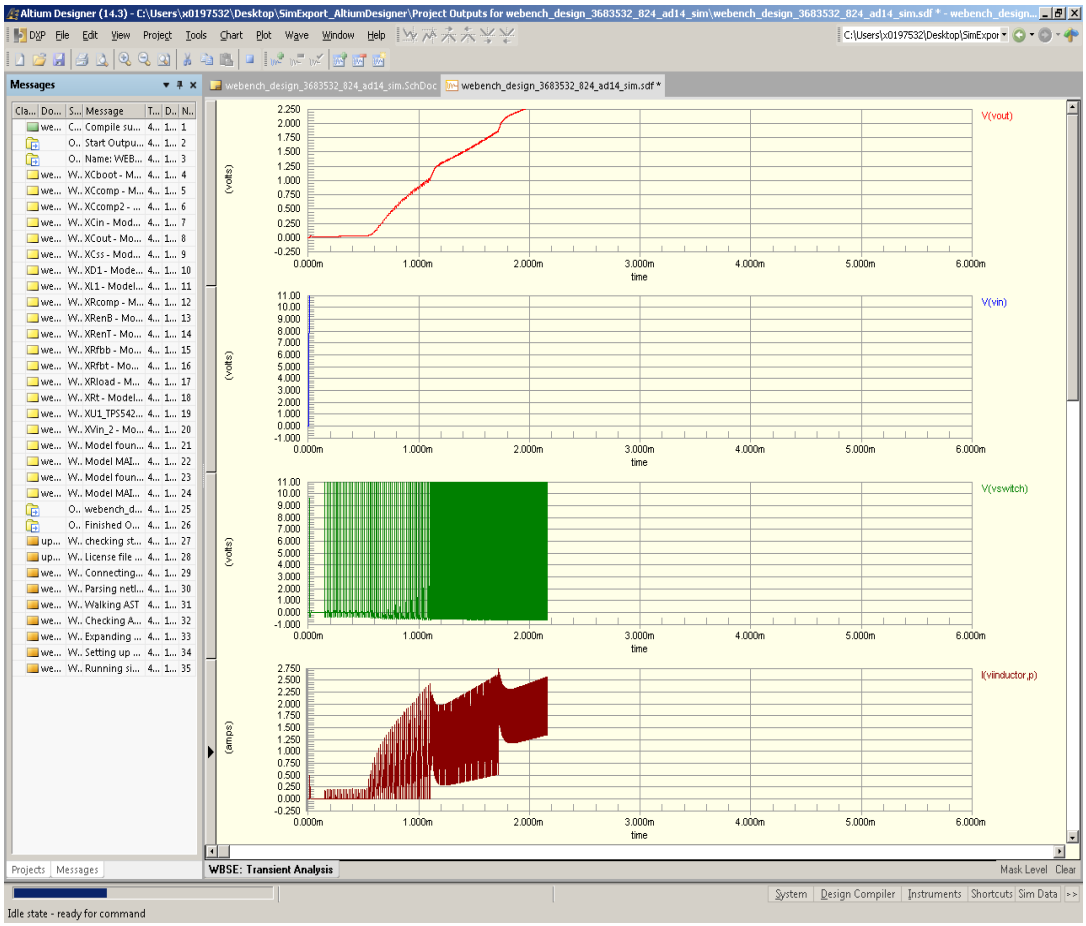


Running WEBENCH® Simulation Engine

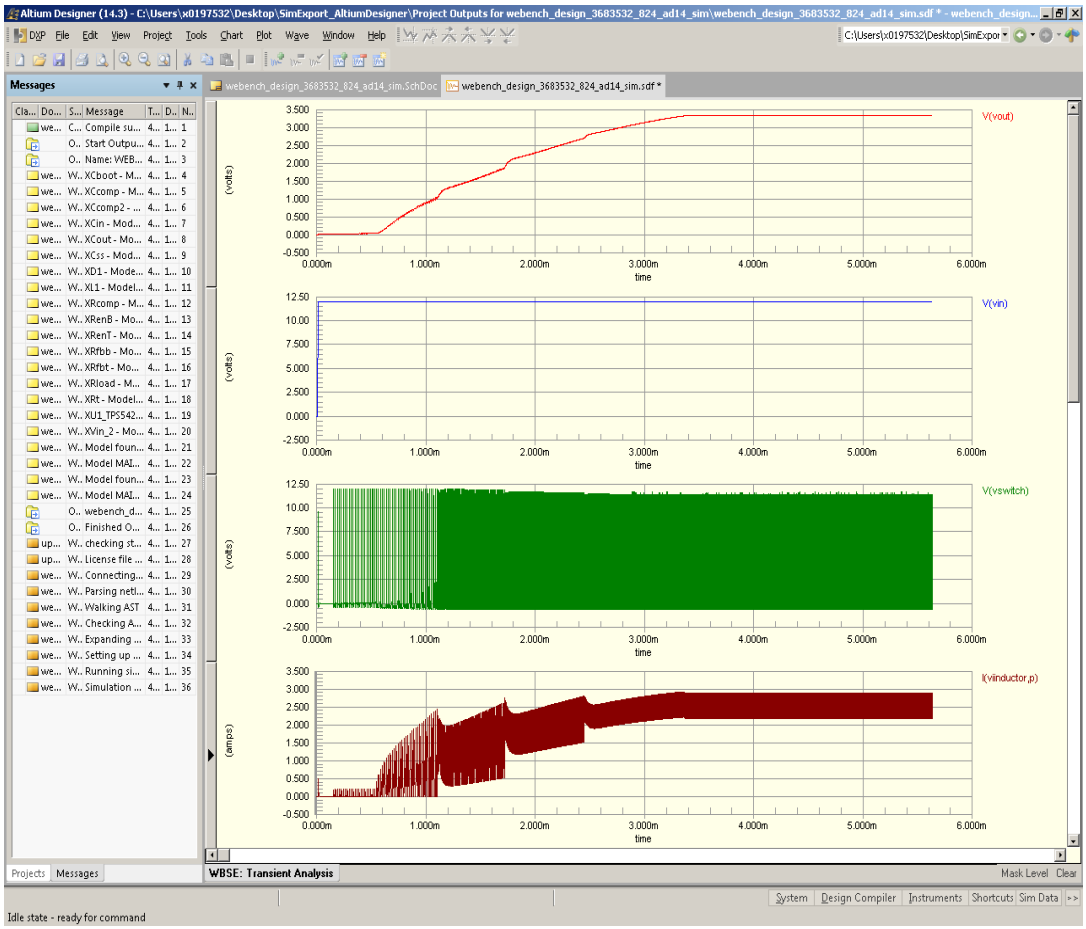
To simulate a design in WEBENCH® Simulation Engine, select **WEBENCH Simulation Engine** from the WEBENCH menu, or you can click **Run** icon from the toolbar. If you have not activated, the WEBENCH Altium Connector it will ask you activate.



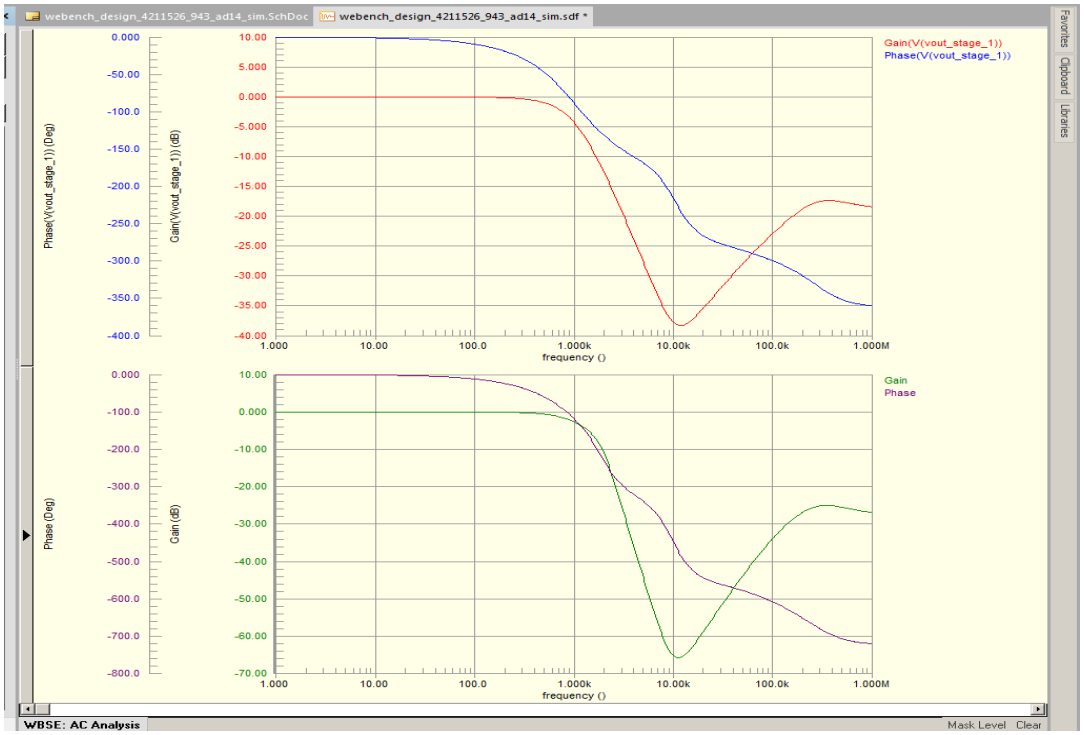
You can see streaming waveforms as the simulation progresses.



Here are the complete simulation results



Simulation results for a sample filter circuit (AC analysis)



Getting Help

- The User Guide can also be accessed from the WEBENCH® menu in Altium Designer. Select **WEBENCH Altium Connector User Guide** from the WEBENCH menu.
- For help on simulating a PSpice model in WBSE, refer to: http://e2e.ti.com/support/development_tools/webench_design_center/

- For help on Altium related issues, refer to Altium help manuals.

Feedback

Please submit feedback to the WEBENCH E2E Community.

See our disclaimer

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