



AN3

## ICED Support for the 700 Series in SIMetrix

ISO9001:2000 Certified

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This application note assumes that you have already installed the SIMetrix tool. You can check this when you first open SIMetrix, it should say “Welcome to SIMetrix Micron A-D”. If it says something else, your license file is either not installed properly, or it is not running. Contact Device Engineering to make sure that you have your license installed properly. Once you have verified that you have a proper installation, this document tells you how to install the 700 Series libraries and ICED plug-ins.

Please run the installation of the libraries in Application Note 1 as well to install the schematic libraries.

### Installing the ICED Demo Software

Installing the Demo Software will allow you to view the layouts and look at the various files. The demo version will not save or print. If you would like to purchase the full tool so that you can do your own layouts, please contact Device Engineering for a quote. One important thing to remember about ICED is that it does not work.

1. Go to the <http://www.iceditors.com> website and click on “Free Demo”.
2. Download the icdemo.exe file (or you can run it in place). Save this file to a temporary directory.
3. Run the icdemo.exe file and let it install the tools. It will default to a c:\icedemo directory.

### Installing ICED Layout Support from SIMetrix:

ICED is a layout tool from IC Editors, Inc. You can purchase this directly from Device Engineering. It includes the ability to do layout, and you can run Layout Versus Schematic (LVS) checks and Design Rule Checks (DRC) from the SIMetrix tool. The following instructions allow support of this functionality.

1. Move the following files to the <path>\SIMetrix42\script directory:
  - ICEDmenu.txt
  - Lvsprep.txt
  - Lvsrun.txt
2. Place a line in the Startup.sxsxr command file. **This will not work in the demo version.** Now it should read:

```
* SIMetrix startup file.  
704sim.txt *this should already be there  
ICEDmenu.txt  
cd \dei_docs *(see item 3 below)
```
3. It is useful to add a line into the startup.sxsxr file to change to your preferred working directory. This is helpful when you want to back up only one directory so you can work in your documents directory. ICED works best in a directory that is less than 8 characters in all levels and does not contain spaces.
4. These commands are only available when a schematic is open. They are available from the SIMetrix shell window, not the schematic window.
5. ICEDmenu.txt contains several commands, which should be run in order. Device Engineering has added several commands to run both DRC and LVS from the same menus.
6. You should also load the 700 Series support to ICED. This is covered in the Design Manual and will be covered in a separate application note from Device Engineering.