Frequently Asked Questions
Libero SoC Software Installation and Licensing

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1 Revision History

The revision history describes the changes that were implemented in the document. The changes are listed by revision, starting with the most current publication.

1.1 Revision 2.0

The following is a summary of the changes in revision 1.1 of this document.

- Removed question “I do not find the Microsemi devices I need in the installation components list. Why?”
- Updated Table 1, page 8.
- Removed question “How many license types are available?”
- Added tools available information for Libero Standalone License. For more information, see What are the tools available in Libero Standalone License?, page 10.
- Added discontinued information for Solaris Platinum license. For more information, see Software License Availability and Request Questions, page 8.
- Added question What are the requirements of licensing?, page 9.
- Updated the Libero Gold license to Libero free license. For more information, see What are the restrictions on a free license?, page 10.
- Added question “Can a Libero license be installed on a virtual machine?, page 11”.
- Removed question “How can I get a Microsemi desktop license?”

1.2 Revision 1.0

Revision 1.0 was the first publication of this document.

2 Software Availability and Download Questions

2.1 How can I obtain Microsemi Libero SoC software?

- Download the latest software releases from http://www.microsemi.com/products/fpga-soc/design-resources/design-software/libero-soc#downloads
- You must first sign in. If you have an existing Microsemi Customer Portal account, enter your username and password. If you do not have a Microsemi user account, click New user.

2.2 Which download method should I use?

There are two ways to download the Libero SoC through HTTP or FTP.

When using the HTTP download method, the supplied download manager plug-in must be used. which ensures download of all the files, including the Web Install client. The download manager plug-in follows the standard plug-in installation convention.

Note: The download manager browser plug-in must be installed in order to download from the site.

The Microsemi download manager helps downloading the files faster with the ability to pause or resume downloading; it requires the pop-ups to be enabled for the download site.

If you have trouble using the HTTP download method or cannot install the Microsemi download manager due to your local security policies, then use the FTP download method.

2.3 What are the software tools that come along with Libero SoC?

The following tools come along with Libero SoC:

- Synopsys Synplify/Synplify Pro Microsemi Edition (ME)
- Mentor Graphics ModelSim ME
- Microsemi Designer (includes SmartTime, SmartPower, and MultiView Navigator)
- SynaptiCAD WaveFormer Lite (prior to December 1st, 2009)
- Microsemi SmartDesign
- Microsemi FlashPro (Standalone download available)
- Microsemi Firmware Catalog (Standalone download available)
- Microsemi Core Catalog of Basic Blocks and DirectCores
- ViewDraw

2.4 What are the software tools that must be downloaded additionally?

The following tools must be additionally downloaded:

- Microsemi SoftConsole
- Microsemi Silicon Explorer
- Synopsys Synphony Model Compiler (HLS) ME
- Synopsys Identify ME
- Mentor Graphics Precision RTL
- IP Vault

2.5 What are the System Requirements for Libero SoC?

To know the system requirements for Libero SoC refer the following link:
http://www.microsemi.com/products/fpga-soc/design-resources/design-software/libero-soc#device-support

2.6 Are there any special requirements to use Libero SoC on Linux?

Apart from the system requirements, it is necessary to:

- Install the OPENMOTIF Graphical Library
- Run the command: export DISPLAY=:0
- Run the command: microsemi_wuclean –R

Note: You might also have to install the x11 fonts, if your system does not have the required fonts installed.

2.7 Does Libero SoC run on Ubuntu Linux?

Currently, Microsemi does not support Ubuntu Linux. As Ubuntu Linux is similar to RedHat Linux, it is possible to run Libero SoC on Ubuntu. The following steps enable you to run Libero SoC on Ubuntu:

- Install the OPENMOTIF Graphical Library
- Change the file /etc/gdm/gdm.conf line 267: from DisallowTCP = true to DisallowTCP = false
- Run the command: export DISPLAY=:0
- Run the command: microsemi_wuclean –R

Note: You may also have to install the x11 fonts, if your system does not have the required fonts installed.

2.8 Is the Microsemi Libero SoC software free?

Libero SoC needs a software license to run. Some licenses are free and some have to be purchased. Please refer to the table on the following webpage to know about available license types:
http://www.microsemi.com/products/fpga-soc/design-resources/licensing

You can download the software from the following link:
http://www.microsemi.com/products/fpga-soc/design-resources/design-software/libero-soc#downloads

2.9 Do I have to use the MEs of Synplify Pro and ModelSim (Pro) to design for a Microsemi device?

The MEs of Synplify Pro and ModelSim (Pro) are tested by Microsemi to ensure that they function well with the version of Libero SoC and Designer with which they are bundled. However, it is not mandatory to use the MEs of Synplify Pro and ModelSim (Pro) to design for a Microsemi device. If you have a licensed copy of the standard editions of Synplify Pro and ModelSim (Pro), you can use them instead. The Microsemi device libraries for simulation will have to be compiled by the standalone version of the ModelSim (Pro) used for simulation. For Library compile Instructions, see the *VHDL VITAL and Verilog Compile Instructions for Standalone ModelSim with Libero IDE*

Library compilation is not required when using the ME of ModelSim that is bundled with Libero SoC.

Note: ModelSim Pro ME is available with Libero v11.8.

2.10 Where can I find a Libero SoC tutorial or documentation?

Click the following link to access the tutorials, online training webcasts, software user guides, and manuals.
http://www.microsemi.com/products/fpga-soc/design-resources/design-software/libero-soc#downloads

3 Software Installation Questions

3.1 Can I install the Libero SoC service packs to get the complete software installation?

The Libero SoC service packs are only add-on installations to the Libero SoC base version. Ensure that the base version is installed first and then update it with the service pack. For example, to use Libero SoC v11.7SP1, Libero SoC v11.7 must be installed prior to SP1 installation.

3.2 Can Libero SoC be installed in any drive or folder?

Yes, you can install Libero SoC in any drive or folder. Ensure that the path used for each installation is unique.

3.3 The Libero SoC Installer says I have registry errors; how can I fix them?

This message indicates that there are references to the Libero SoC software in the Windows registry and therefore the Libero SoC installer does not let you run the installer until the registry is cleaned up and the software is completely uninstalled.

For complete information on how to scrub Libero SoC from your machine, refer to www.microsemi.com/kb/article.aspx?id=KI8794. After completing, re-run the installer again. If it still does not work, download a registry cleaner utility and try cleaning your registry.

One example of a registry cleaner program can be found at www.ccleaner.com/download.

Note: Microsemi does not endorse or recommend any specific registry cleaning tool and is not liable for any errors that occur while you are modifying the Windows registry.

3.4 How can I uninstall the Libero SoC software?

Run the Libero SoC uninstaller from the Microsemi Libero start menu group or from the Windows control panel, add/remove software utility. If it does not work the Libero SoC software cannot be uninstalled, then contact Microsemi Technical Support.

3.5 Can I have more than one version of Libero SoC installed on the same computer?

Yes, you can install different versions on the same computer, but you must install each version in a different folder.

3.6 The Libero SoC Installer closes before the installation is complete. What can I do?

Contact Microsemi technical support for debugging assistance on this issue. Following is the list of Possible causes:

- A corrupted/incomplete downloaded Libero SoC installer.
- A conflict caused by the security software actively running and accessing files also being used during the Libero SoC installation process.
- Insufficient user privileges to complete the installation.
- A corrupted Windows registry.

3.7 Does Microsemi provide a silent installer for Libero SoC?

No, a silent installer is not available for Libero SoC.

3.8 Do I need administrative privileges to install Libero SoC?

Yes, you must have administrative privileges to install Libero SoC and for the first launch of Libero SoC.

4 Software Startup Questions

4.1 Why cannot I select the required Microsemi device in the new project wizard?

While installing Libero SoC, you may not have selected that particular device family. Also consider that if you are using a Libero SoC free license, devices supported by that free license are available for selection. For more details, refer Microsemi webpage at http://www.microsemi.com/products/fpga-soc/design-resources/design-software/libero-soc#licensing

4.2 What are the operating systems supported for Libero SoC software?

To know the operating systems supported for Libero SoC. Please refer Microsemi website at: http://www.microsemi.com/products/fpga-soc/design-resources/design-software/libero-soc#device-support

4.3 How do I launch Libero SoC on Linux?

Launch Libero SoC using the following command:
`<Libero_Installation_Folder>/Libero/bin/libero`.

For additional information to launch Libero SoC on Linux, see the *Libero Software Installation and Licensing Guide*

4.4 The Microsemi software does not start when I launch it, what can I do?

Contact Microsemi Technical Support for debugging assistance on this issue. Following is a list of possible causes include:

- A corrupted or an incompletely downloaded Libero SoC installer resulting in an incomplete installation.
- A conflict caused by the security software actively preventing the Microsemi software from starting.
- A license setup issue.
- A corrupted Windows registry.

4.5 How do I generate a Libero free license?

- Open Libero licensing page from the following link and click Request a free license: http://www.microsemi.com/products/fpga-soc/design-resources/licensing
- If you are not a registered user, register and create a new account.
- Libero Gold license supports:
  - Node Locked
  - Floating for Windows or Linux

4.6 Where do I find the latest Libero SoC release information?

The latest Libero SoC release information is available at: http://www.microsemi.com/products/fpga-soc/design-resources/design-software/libero-soc#downloads

4.7 Where do I find the previous Libero release information?

The previous Libero release information is available at:
http://soc.microsemi.com/download/software/liberosoc/liberosoc_vhistory.aspx

4.8 What is the procedure for Libero installation software and licensing?

Refer to the Libero installation and licensing guide Libero Software Installation and Licensing Guide

4.9 Can we evaluate Microsemi security devices using Libero free license?

No, User need to purchase a paid licenses to work with Microsemi security devices.

5 Software License Availability and Request Questions

5.1 How many license types are available?

The following table lists the types of licenses available.

Table 1 • **Types of Licenses**

	Evaluation	Silver	Gold	Platinum	Standalone
License Term	60 days	One Year	One Year	One Year	One Year
Libero Design Software	✓	✓	✓	✓	✓
Licensing Requirements per Device	All Libero SoC Devices	See Table 2, page 9	See Table 2, page 9	All	All
IP Cores Bundle	For more information, see the *IP DirectCores*				
SoftConsole	✓	✓	✓	✓	✓
ModelSim ME	✓	✓	✓	✓	Not Included
ModelSim Pro ME	✓		✓	✓	Not Included
Synopsys Synplify Pro ME	✓	✓	✓	✓	Not Included
Synopsys Synphony Model Compiler ME[2]	✓	✓	✓	✓	Not Included
FlashPro Software[1]		✓	✓	✓	✓
FlashPro Express[1]		✓	✓	✓	✓
Synopsys Identify ME[1]		✓	✓	✓	Not Included

1. The following software is not supported on Linux: Identify ME, FlashPro. FlashPro Express supports Linux for programming.
2. The Synphony MC ME license is included with Libero floating licenses. If you are using a Libero Node-locked license you must request the Synphony license separately.

5.2 What are the requirements of licensing?

The following table lists the requirements of licensing.

Table 2 • **Licensing Requirements**

Product	Device Support	Evaluation	Silver	Gold	Platinum/ Standalone
RTG4	RT4G150	✓			✓
SmartFusion2, IGLOO2	M2S005, M2S010, M2S025, M2GL005, M2GL010, M2GL025	✓	✓	✓	✓
	M2S090, M2S150,M2S050, M2S060, M2GL090, M2GL150, M2GL050, M2GL060	✓		✓	✓
	All S (Security) Devices	✓		✓	✓
SmartFusion, IGLOO, ProASIC3, Fusion, and ProASIC^{PLUS}	All Devices	✓		✓	✓
RT ProASIC3	RT3PE600L	✓		✓	✓
	RT3PE3000L	✓			✓

5.3 What are the software tools require licenses to run?

The following software tools require licenses to run:

- Libero SoC
- Synplify Pro ME, Identify ME (Instrumentor and Debugger), Synphony Model Compiler ME
- ModelSim ME
- Microsemi IP Cores (DirectCore)

5.4 What are the software tools work without licenses?

The following software tools work without license:

- SoftConsole
- FlashPro
- Silicon Sculptor
- Silicon Explorer

5.5 Are the licenses, free?

Click the following link to identify which licenses are free:
http://www.microsemi.com/products/fpga-soc/design-resources/licensing#overview

5.6 What is a Node-Locked License?

A Node-Locked license allows to run the software only on the system the license is locked to.

A disk ID Node-Locked license for Windows is locked to the volume serial number of the computers C:\ drive. The `license.dat` file can be located in any drive.

A USB dongle Node-Locked license for Windows is locked to the dongle ID of a dongle supplied with this license. The computer using this license file must have a USB dongle physically connected to the PC and the required drivers installed.

5.7 What is a Floating license?

A Floating license requires a license manager daemon to be running on a server and can support multiple users (seats). The `license.dat` file can be located anywhere on the network that is accessible to the server. All systems on the network can run the software correctly by setting the LM_LICENSE_FILE environment variable to point to the server. The daemon monitors the number of users. Each Floating license feature line contains a number that defines how many users can run that feature simultaneously.

5.8 What are the tools available in Libero Standalone License?

Microsemi Libero Standalone License supports the following tools.

- Libero SoC
- Microsemi IP Cores (DirectCore)
- SmartTime
- SmartPower
- FlashPro
- FlashPro Express

5.9 Can a Licensee transfer their license to any 3rd party vendor?

No, the Licensee is not authorized to transfer the license to any 3rd party vendor.

5.10 Which host ID should I use?

The host ID is the unique number assigned to your computer on the network. The host ID depends on the type of license you have. It is the volume ID of the C:\ drive for disk ID Node-Locked licenses. It will be the USB dongle ID for a USB dongle Node-Locked license and the 12-digit MAC ID for the Ethernet network Interface card (NIC) when a Linux or Windows Floating license is used. Solaris Floating licenses use an 8-digit host ID. The command to run on windows is C:\ipconfig/all. For Linux try /sbin/ifconfig.

Note: Microsemi discontinued supporting the Solaris Platinum license from January 2017. For more information, see *CN17002: Update to Libero FlexLM Daemons v11.14.0.0 for Libero Server-based Floating Licenses*.

5.11 What happens if I need to change my host ID?

If your host ID has changed, Libero SoC returns a license checkout error. The license file must be regenerated to be tied to the correct host ID. Contact Microsemi Customer Service to request license changes. For free licenses, a new license can be obtained online and tied to the new host ID.

5.12 How do I obtain a license?

You can obtain a free license online from the *Software License and Registration System* of the Microsemi Customer Portal (for more details, see Question 6.4 in Software License Setup Questions, page 12). To obtain a license which requires purchase, please contact your local Microsemi Sales Office.

5.13 What are the restrictions on a free license?

Please refer to the table on the following webpage to know about available free license types and its restrictions: http://www.microsemi.com/products/fpga-soc/design-resources/design-software/libero-soc#licensing.

The free license is supported on Windows and Linux OS only.

5.14 What should I do to continue using the Libero SoC software, when the license is about to expire?

Libero SoC licenses can be generated through respective web portal account license and registration section, once the license got expired. Free Evaluation license can be generated for a maximum of two times and free Silver license can be generated multiple times.

If the license is a purchased license, please contact your local Microsemi Sales Office.

5.15 How can I obtain the license server daemons?

The Floating license daemons are provided as standalone downloads, so they do not have to be extracted from the Libero SoC software. You can download these files from the webpage at: http://www.microsemi.com/products/fpga-soc/design-resources/licensing#overview

5.16 Can I use a Node-Locked license on a remote terminal?

Node-Locked licenses do not support operation over the Windows remote desktop protocol (RDP); a license checkout error is displayed. Due to contract obligations with our third-party software vendors (Synopsys and Mentor Graphics), Node-Locked licenses must be used on the computer to which they are locked.

Alternatively, if you are using only Libero SoC standalone and designer standalone software, you can use the Node-Locked license over a virtual network connection (VNC). For more information, see the *Remote Access of Libero*.

5.17 Can a Libero license be installed on a virtual machine?

No, Libero node-locked and floating licenses cannot be installed on a virtual machine or virtual server machine. The license should be installed to a physical machine.

Microsemi recommends customers to use the Libero SoC software license host on physical machine only and not recommended on Virtual Machines because Libero and associated third party OEM tools do not support virtual machines.

5.18 What are Floating license seats?

A seat of a Floating license allows one user to check out the license at a time. If your Floating license is needed by multiple users, you need to purchase incremental Floating license seats. Refer to the following webpage for the necessary part numbers: http://www.microsemi.com/products/fpga-soc/design-resources/design-software/libero-ide#licensing

5.19 Do I need a new license for each version of Libero SoC installed on my computer?

No, the license files are backwards compatible, but you need a license file generated for the most recent major release of Libero SoC running on your computer.

5.20 How many seats can I have on a Node-Locked license?

Microsemi only issues one seat per Node-Locked license.

5.21 Does the Libero software license support Configuring WAN license server feature?

No. Microsemi Libero offers triple redundant server support, but they have to be within the same time zone.

6 Software License Setup Questions

6.1 How do I set up a Floating license (or) Node-Locked license?

For license setup instructions, see the *Libero Software Installation and Licensing Guide.*

6.2 Which computer should be the license server?

The license server can be a Windows, Linux, or a Solaris computer. The license server must be accessible to all other computers on the same local area network which can checkout a Libero SoC Floating license. Although, the license sever can be a Solaris computer, the Microsemi Libero SoC can only be run on Windows or Linux computers.

Note: Microsemi discontinued supporting the Solaris Platinum license from January 2017 and will continue to support the Solaris Standalone floating license. For more information, see the *CN17002: Update to Libero FlexLM Daemons v11.14.0.0 for Libero Server-based Floating Licenses*.

6.3 Should I install Libero SoC on the license server?

You do not have to install Libero SoC on the license server. The license daemon executables can be downloaded from the Microsemi website. The only reason to install Libero SoC on the license server would be in the event that a user on the license server needs to run Libero SoC directly from the server computer.

6.4 How do I start the license server?

Refer to the following Libero Installation user guide for license setup instructions:
Libero Software Installation and Licensing Guide

Once the license server is set up, start it by logging into the server machine and entering the following command: `<path.to.microsemi.installation>/bin/lmgrd -c <path_to_license.dat/license.dat>`

6.5 How do I start the license server and have the output saved in a log file?

To save the license server output to a log file rather than having the text output directly to the terminal on the license server, you must start the server using the –l flag to the `lmgrd` command and specify the path and name of a log file to create or append to. For example:
`<path.to.microsemi.installation>/bin/lmgrd -c <path_to_license/license.dat> -l <desired_path/logfile.txt>`

6.6 My license server has multiple licenses for the same software, can these licenses be merged?

To combine license server files for the same product:

1. Concatenate the files
2. Remove the duplicate **Server** and **Vendor** lines

Note: The expiration dates can be different and the number of seats can be different.

Although, the files can be concatenated, duplicate license features for the same software is not read as additional licenses (they will not be accumulated). To have the same features be accumulated, the **Feature** line is replaced by an **Increment** line. If a license server file has a **Feature** line instead of an **Increment** line, you must generate a new license for that software feature.

Note: Microsemi do not recommend merging of multiple licenses.

6.7 Does Microsemi supports triple redundant server option?

Yes, Microsemi supports triple redundant server option for Libero platinum and standalone floating licenses.

6.8 Do I need administrative privileges to modify an environment variable?

Yes, you must have administrative privileges to modify an environment variable.

6.9 I followed the license setup instructions, but still get a checkout error. What can I do?

To resolve the error, see the Libero License Troubleshooting Guide or contact Microsemi Technical support