



Libero® SoC v12.4 or Later

Software Installation Licensing Setup User Guide

Introduction

Libero® SoC Software offers high productivity with its comprehensive, easy-to-learn, easy-to-adopt development tools for designing with Microchip's PolarFire®, PolarFire® SoC, IGLOO2®, SmartFusion2®, RTG4™, SmartFusion®, IGLOO®, ProASIC3®, and Fusion families.

The following table lists the Libero license types and their features.

You can download the latest Libero SoC Software at

<http://www.microsemi.com/products/fpga-soc/design-resources/design-software/libero-soc#downloads>.

You must have a license to run the Libero SoC Software. See the Licensing web page to select the right license at www.microsemi.com/product-directory/design-resources/1711-licensing.

To select the right license for your design, see [Download the Libero License Selector Guide](#).

This document provides information about how to download and install the Libero SoC Software and the prerequisites that are needed to run the application on your system. Also, it does describe how to obtain and install licenses on your system.

Note: In this document, the term “Libero” means Libero SoC Design Suite.

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1. Libero SoC Software Installation and Configuration

This section explains how to install the Libero SoC Design Suite and configure.

1.1 Prerequisites

You must meet the mentioned specifications to install the Libero SoC Software on your system.

1.1.1 System Requirements

To know more information about the Product Families, platforms and the details about the current system requirements, visit www.microsemi.com/product-directory/design-resources/1750-libero-soc#device-support.

Notes:

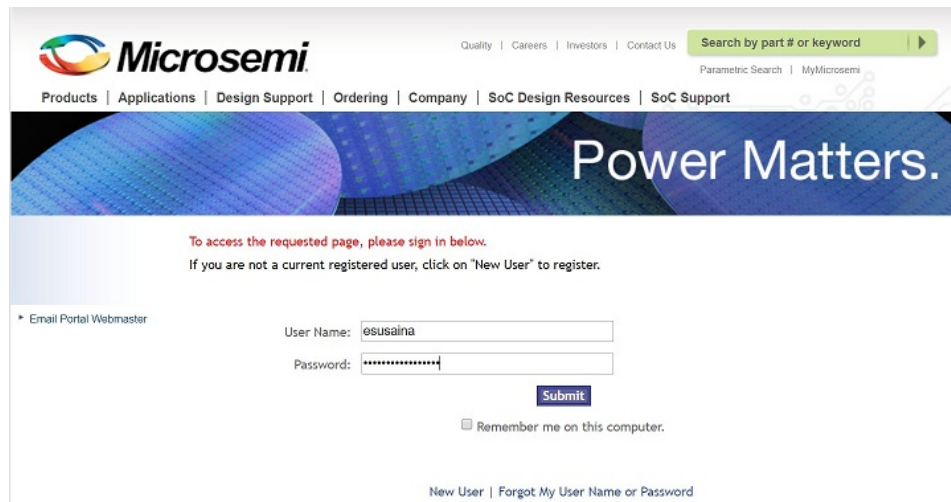
- Only 64-bit Windows and Linux operating systems are supported.
- Setup instructions for using the Libero SoC on Red Hat Enterprise Linux OS are available on the Libero SoC documents web page. As noted in that document, installation step 2 now includes running a shell script (`bin/check_linux_req.sh`) to confirm the presence of all required run time packages.

1.2 Login

You need an SoC login account to download the required Libero Design Suite and licenses. To login:

1. Enter the URL in a browser, Login or Create a new Login Account. The Login page is displayed.
2. Enter the credentials in the required fields, if you are an existing user. Or, create a new account by clicking **New User** to register yourself.

Figure 1-1. Welcome



3. Click **Submit**.

1.3 Downloading the Libero SoC Software

You must have Admin rights on the installation machine to install the Libero SoC Software.

To run the Libero SoC Software on your system, you need to download the software from the website.

1. Visit the Libero SoC Software page at Libero SoC Software Design. The **Libero SoC v12.0 and later** page is displayed.
2. Go to the **Downloads** tab on this page, and click the latest Libero SoC software download link. The download page is displayed.

3. Download the Libero SoC software to your system.

1.4 Installing the Libero SoC Software

You can install the Libero SoC Software on your system for Windows or Linux.

Note: You must have the Administrator rights on the installation machine to install the Libero SoC Software.

1.4.1 Installing the Libero SoC Software on Windows

Install the Libero SoC Software from a DVD or over the web. The installation process varies slightly, depending on which method you choose.

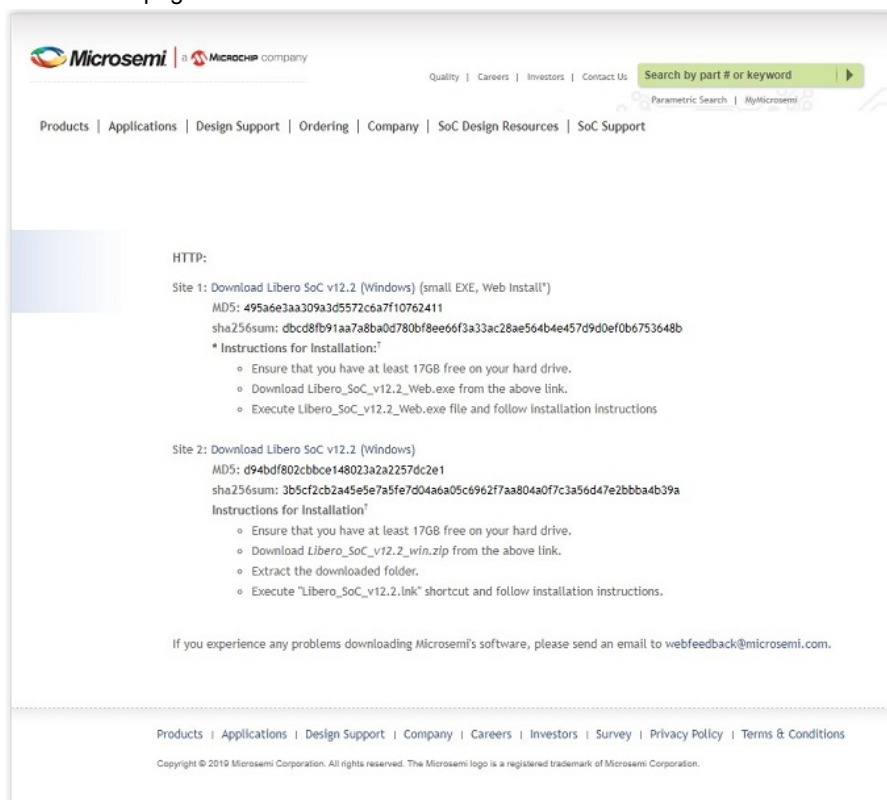
Note: If you have a USB Hardware Key Dongle license, DO NOT attach the USB dongle prior to installing Libero or USB drivers. The USB dongle must be attached after the software and USB driver installation. See *"Installing a Node-Locked USB Dongle License on Windows"* regarding USB Driver installation.

1.4.1.1 Installing the Software from the Web (Recommended)

Download the Libero SoC software from website to your local machine. Launch the EXE file, select the features you wish to install. The features that you select are installed on your local machine. There are options provided for configuring the features. Either you can select Default Components or Customize Components.

To install the Libero SoC Software over the web:

1. Navigate to the download page Windows EXEs Download.



2. Choose one of the download options, depending on your need.
3. Click the Download Libero SoC (Windows) link.
4. Extract the .exe file from the downloaded folder.
5. Click on the shortcut link and follow the installation instructions.

1.4.1.2 Installing the Software from a DVD (or large ZIP file from the Web)

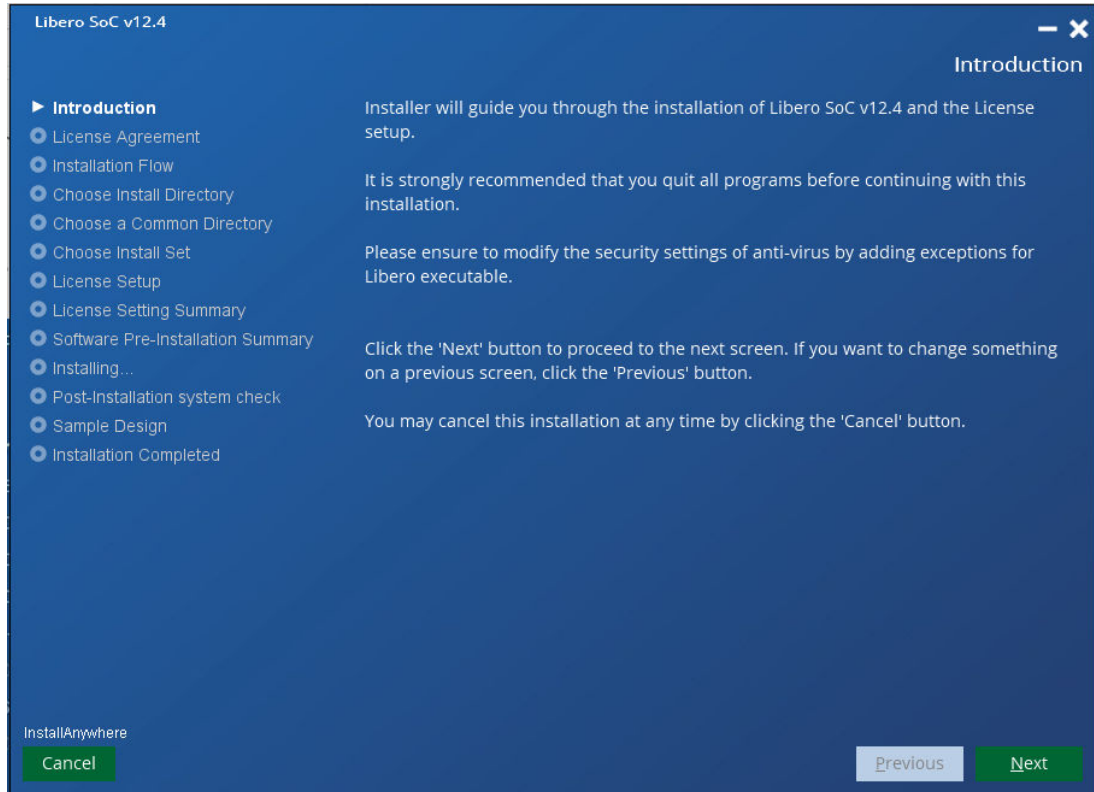
To install the software from a DVD:

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1. Insert the Libero SoC Software DVD or double-click the ZIP file you downloaded from the web.
2. Unzip/extract the ZIP archive.
3. Run or double-click the **setup.exe** in the extracted folder. The **Libero SoC <version> InstallAnywhere Wizard** appears.

Figure 1-2. Libero InstallAnywhere Wizard

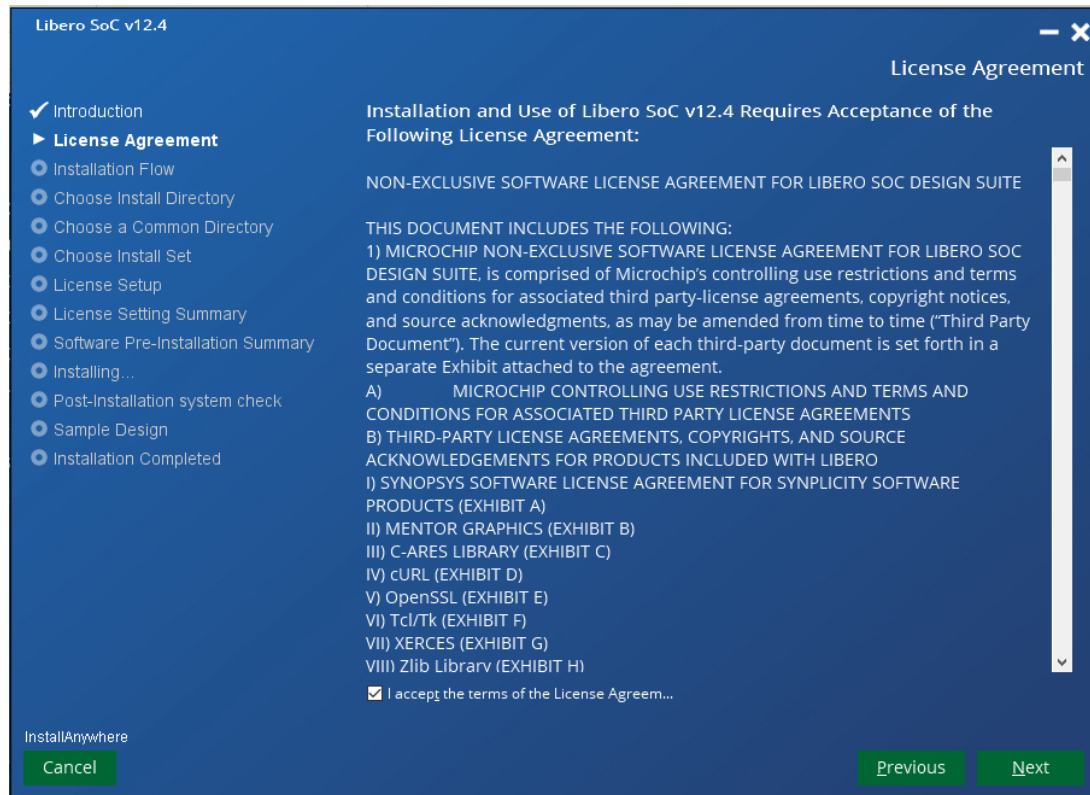


4. Click **Next**. The License Agreement appears.
5. Read the License Agreement and check the **I accept the terms in the License Agreement** check box.

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Figure 1-3. License Agreement

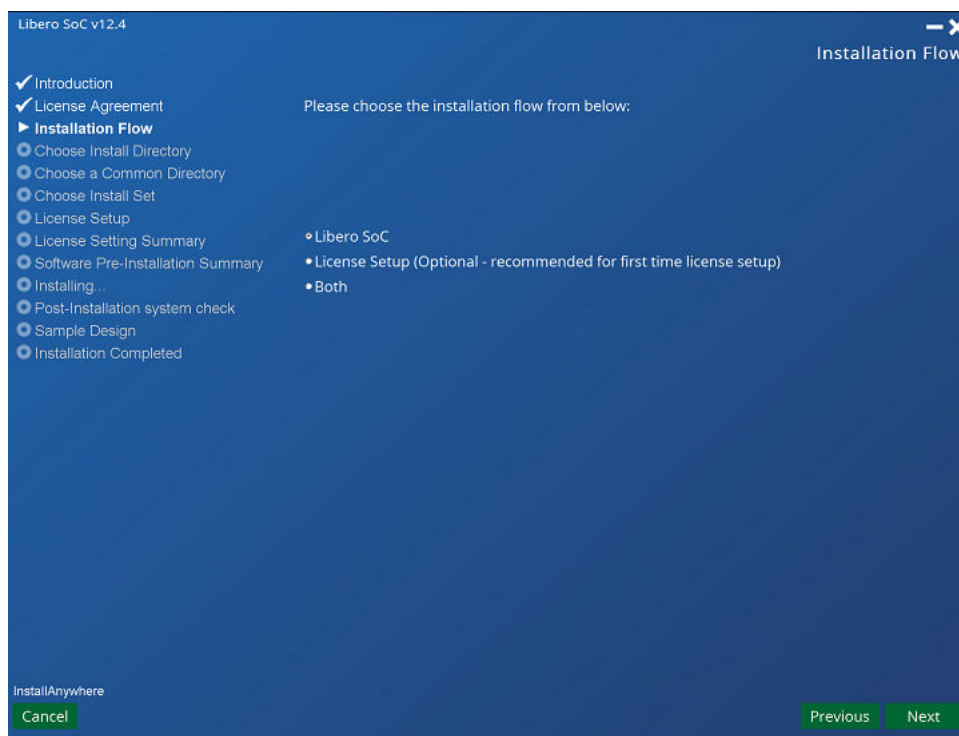


6. Starting with Libero SoC v12.4, the Libero SoC v12.4 installer has been enhanced to include an optional Libero license installation flow. The Libero installer now supports three integrated flows:
- Libero tool installation (default selection – for customers with existing license setup)
 - Libero license installation (Optional – recommended for first time license setup)
 - Both (integrated tool and license installation)

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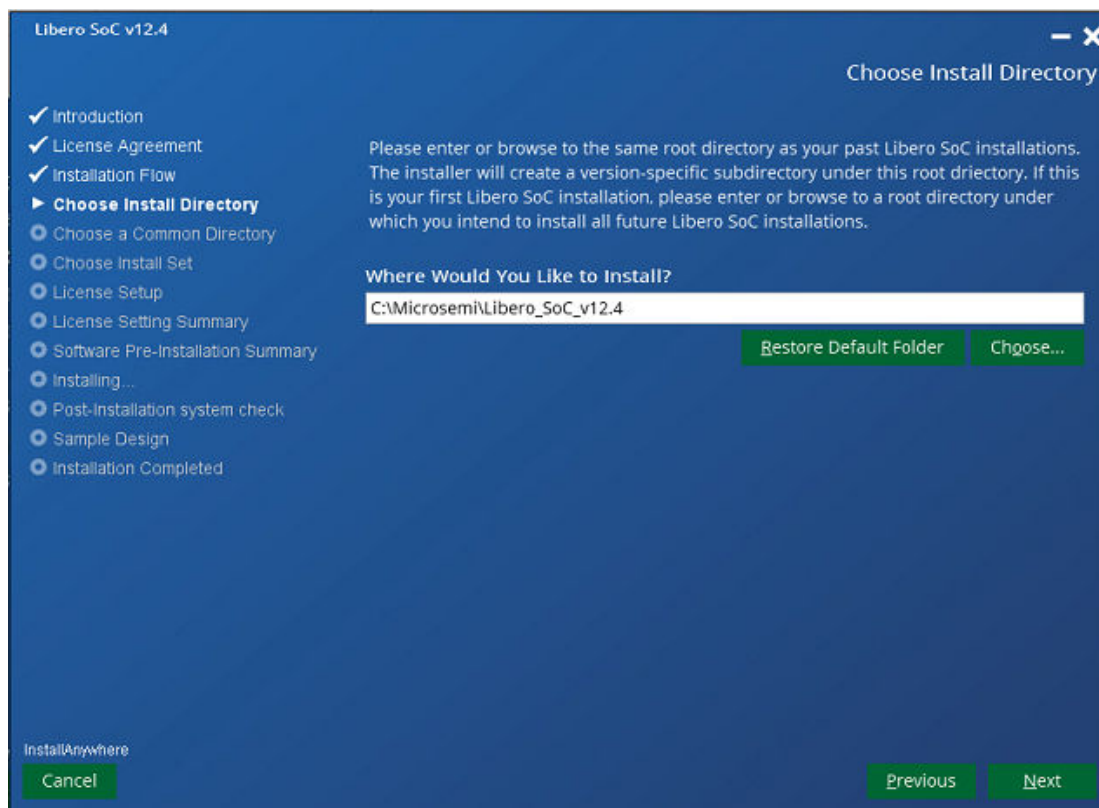
Libero SoC Software Installation and Configuration

Figure 1-4. Libero Tool and License Installation Selection



- Click **Next** to continue. The Destination Folder appears and shows the default installation location in C:\ drive.

Figure 1-5. Choose Install Directory



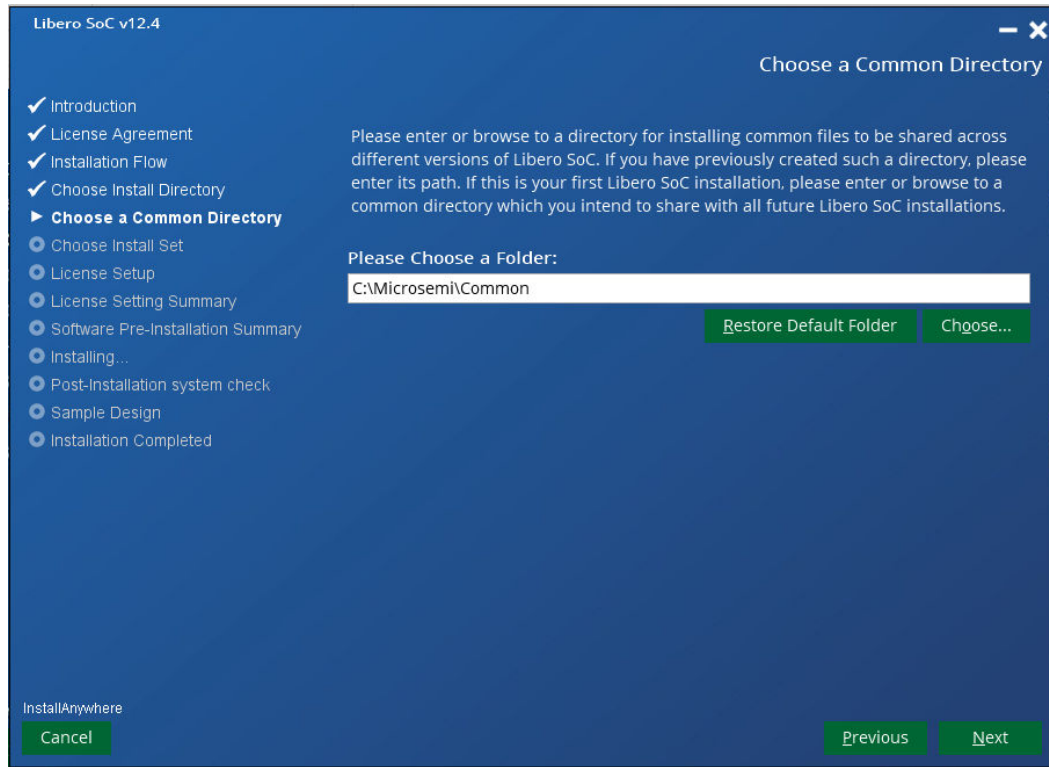
- Click **Next** to accept the default installation location or click **Choose** to navigate to a different installation location and then click **Next**.

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9. Accept the default installation location to install the common files or click **Choose** to navigate to a different installation location and then click **Next**.

Figure 1-6. Choose Common Directory

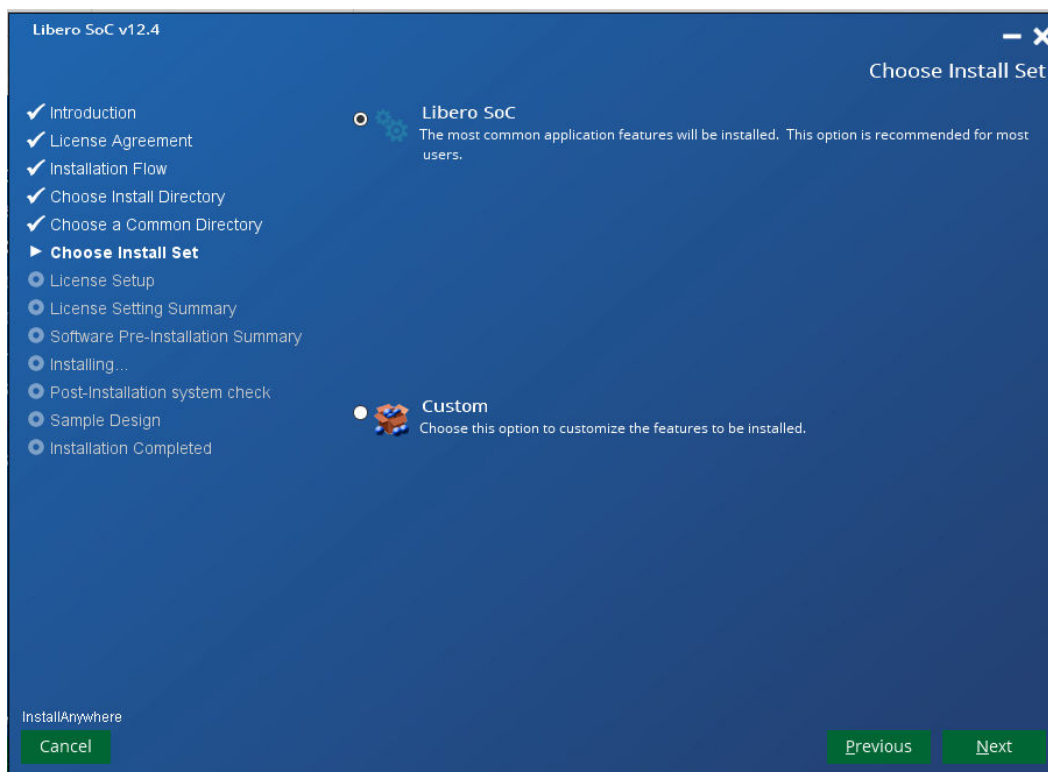


10. The **Libero SoC** selection below installs all features by default. This complete setup is recommended for beginners. It installs all Libero SoC program features, but also consumes the most disk space. The Custom selection allows you to choose which program feature to install.

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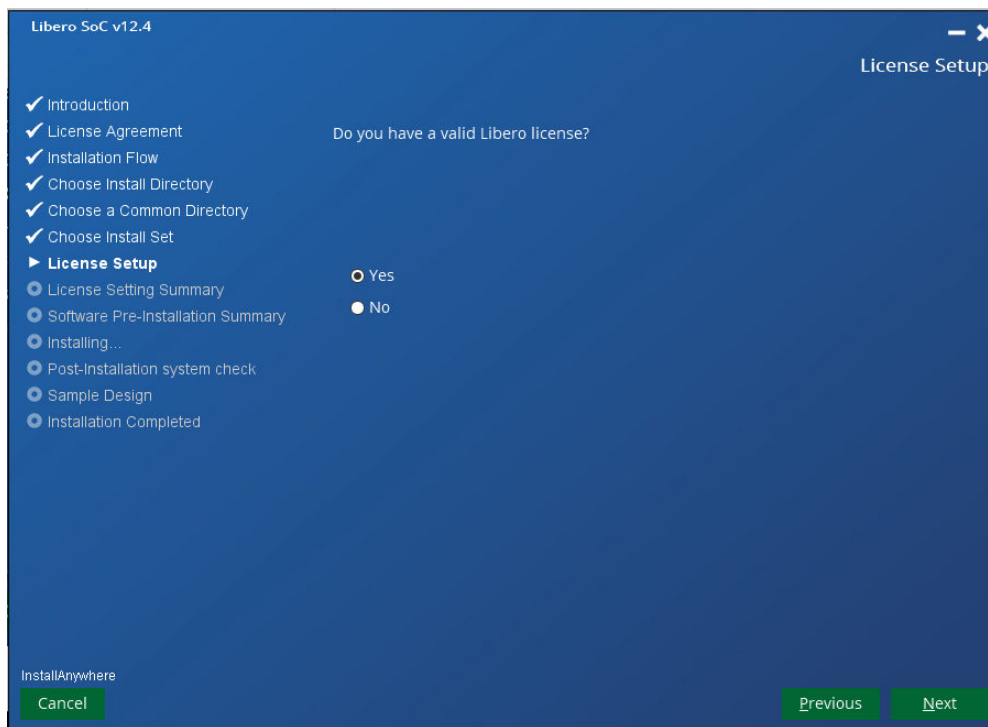
Libero SoC Software Installation and Configuration

Figure 1-7. Install Set



11. If you chose License Setup or both Libero Tool Installation and License Setup, then the next screen will appear. If you have received a Libero license from Microchip, select **Yes**, click **Next** and go to the next step. Otherwise, select **No**, click **Next**, and then go to Step 13.

Figure 1-8. License Setup

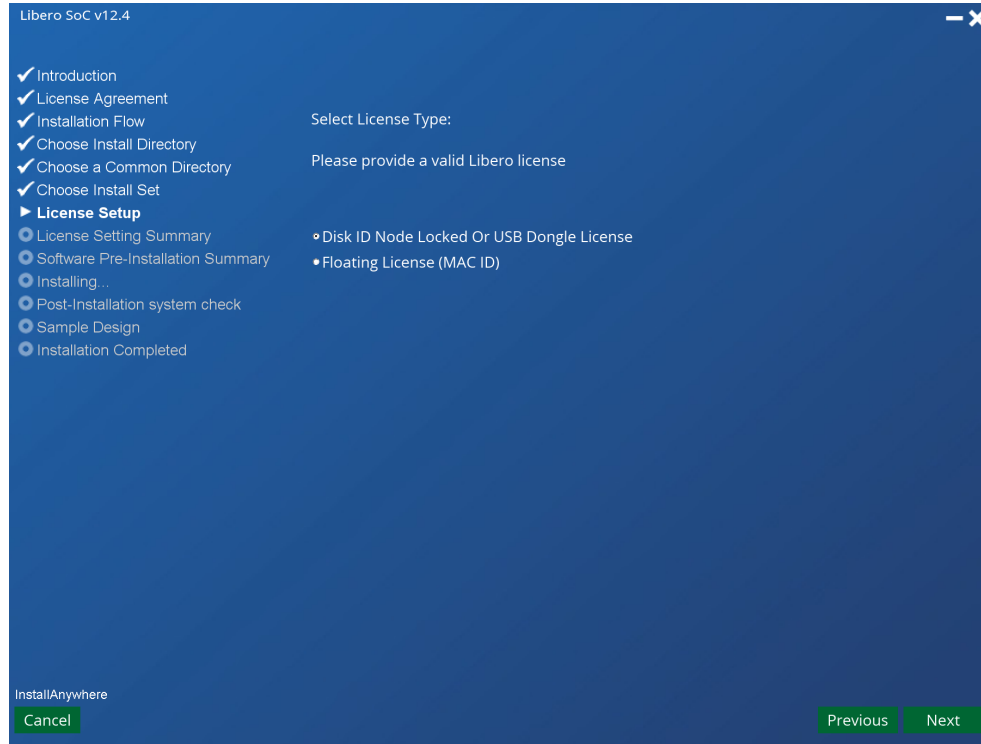


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12. Select the license type: **Disk ID Note Locked or USB License Dongle** or **Floating License (MAC ID)**. Click **Next**.
 - For a Disk ID Node Locked or USB Dongle license, type a path to the license file that you receive from Microchip. For example, `C:\flexlm\License.dat`. You can also click **Choose** to open an explorer, then navigate to the license file location and select the license file. Click **Next**.

Figure 1-9. License Setup

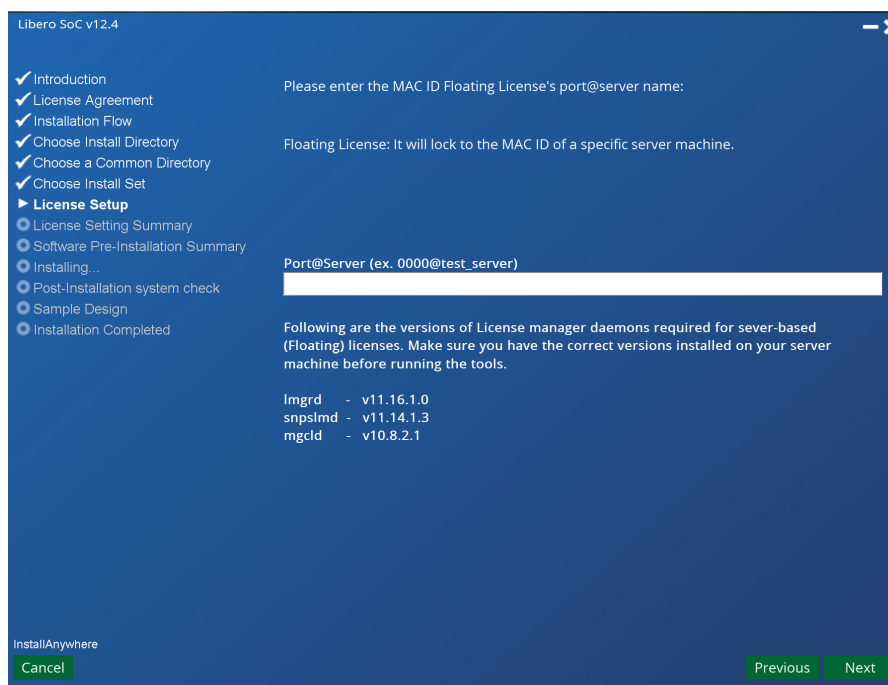


- For a MAC ID floating license, type the MAC ID Floating License port@server name, and then click **Next**. For example: 2020@my-server-name.

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Figure 1-10. License Setup



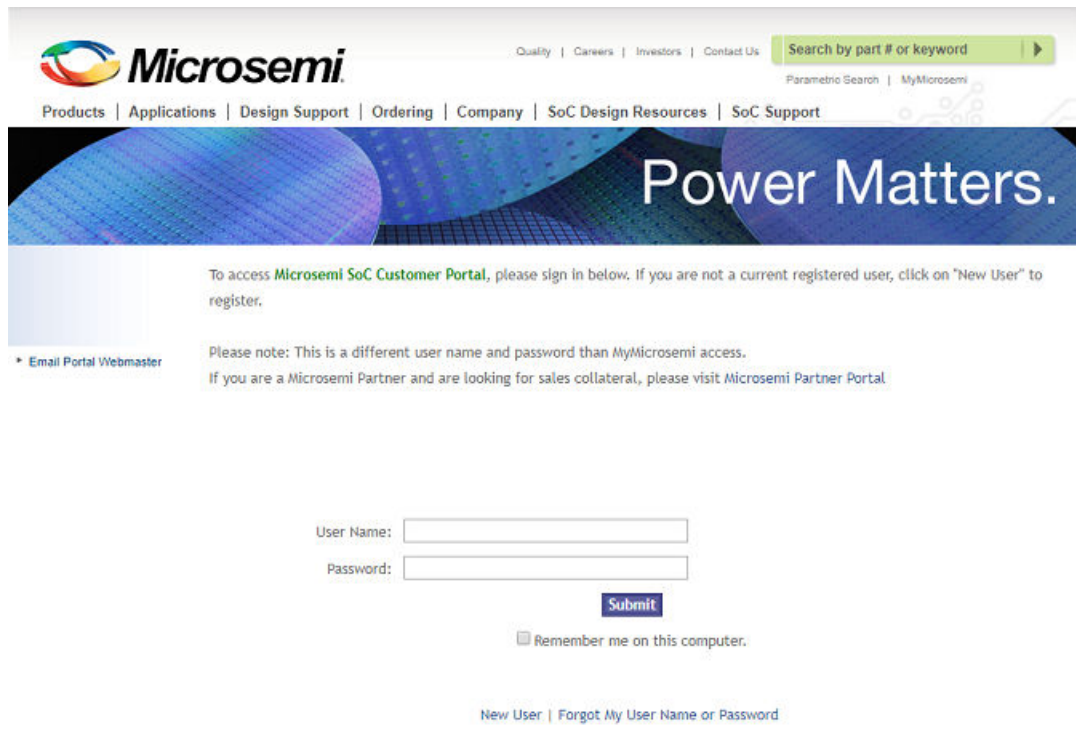
13. If you do not have a valid Libero license, you will be taken to the Microchip SoC Customer Portal. Here you sign in, register as a new user, or retrieve your user name and password.
 - To sign in, type your user name and password, and then click **Submit**.
 - To register as a new user, click **New User**, and then follow the instructions to generate a license.
 - To retrieve your user name or password, click **Forgot My User Name or Password**.

When you receive your license, go back to Step 12, and then enter your license.

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Libero SoC Software Installation and Configuration

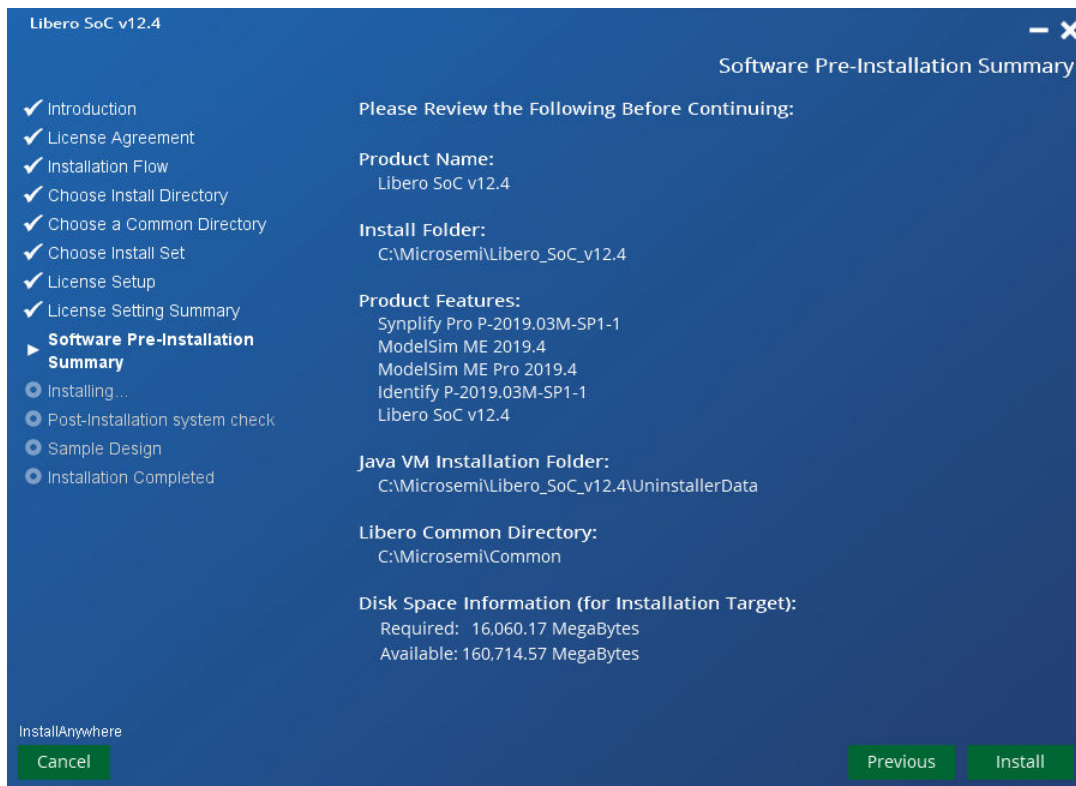
Figure 1-11. Login Screen



The login screen for the Microsemi SoC Customer Portal. At the top is the Microsemi logo and navigation links: Quality, Careers, Investors, Contact Us, Parametric Search, and MyMicrosemi. Below the logo is a banner with the text "Power Matters." and a search bar. The main content area contains instructions for accessing the portal, a login form with fields for User Name and Password, a Submit button, and a checkbox for "Remember me on this computer." There are also links for "New User" and "Forgot My User Name or Password."

14. In the Software Pre-Installation Summary page, click **Install**.

Figure 1-12. Pre-Installation Summary



The Software Pre-Installation Summary dialog box for Libero SoC v12.4. It features a list of installation steps on the left, with "Software Pre-Installation Summary" selected. The main area displays the following information:

- Please Review the Following Before Continuing:**
- Product Name:** Libero SoC v12.4
- Install Folder:** C:\Microsemi\Libero_SoC_v12.4
- Product Features:** Synplify Pro P-2019.03M-SP1-1, ModelSim ME 2019.4, ModelSim ME Pro 2019.4, Identify P-2019.03M-SP1-1, Libero SoC v12.4
- Java VM Installation Folder:** C:\Microsemi\Libero_SoC_v12.4\UninstallerData
- Libero Common Directory:** C:\Microsemi\Common
- Disk Space Information (for Installation Target):** Required: 16,060.17 MegaBytes, Available: 160,714.57 MegaBytes

At the bottom, there are buttons for "Cancel", "Previous", and "Install".

15. Click **Install**. The installation dialog box appears.

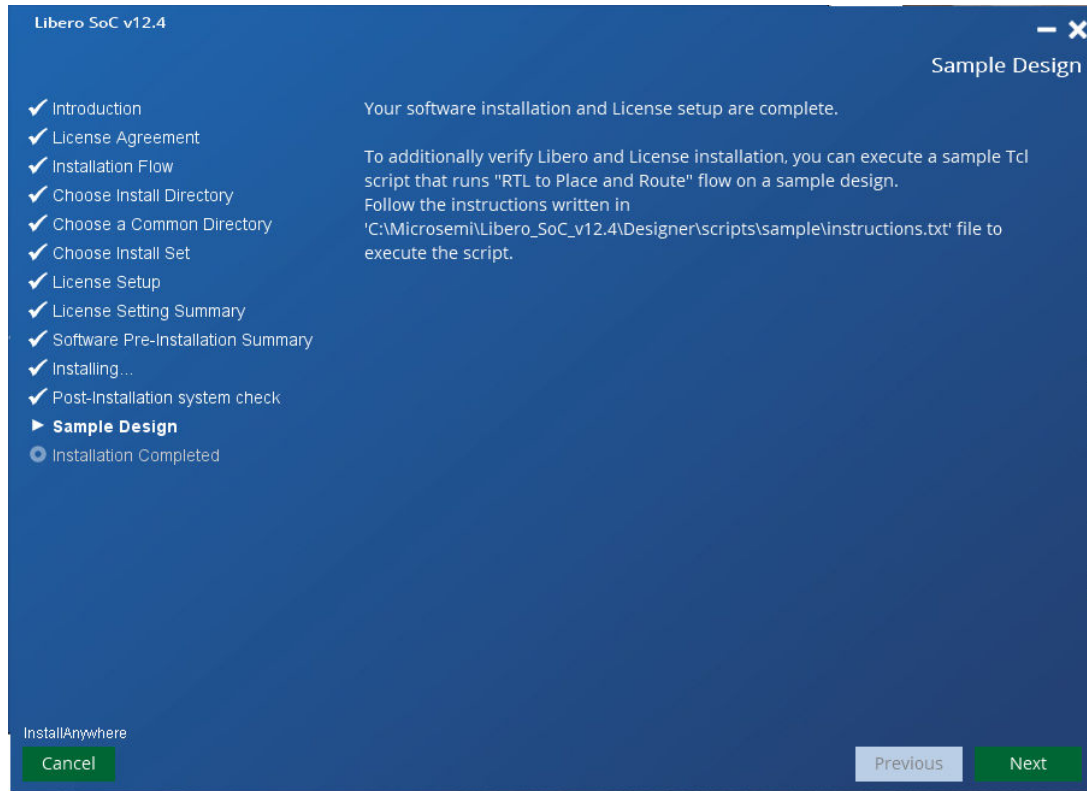
Libero® SoC v12.4 or Later

Libero SoC Software Installation and Configuration

Note: Beginning with the Libero SoC v11.8 release, both ModelSim ME and ModelSim ME Pro are installed by default. After installation, ModelSim ME is the default simulator in the Tool Profile (Project > Tool Profile). If ModelSim ME Pro, and not ModelSim ME, is the desired simulator for you, change the Simulator in the tool profile (Project > Tool Profile) to point to ModelSim ME Pro. ModelSim ME and ModelSim ME Pro are identified by different feature lines in the Microchip Libero SoC license file. Ensure that the Libero SoC license file has the feature line that supports the specific ModelSim version you want to use.

16. When the software installation and license setup are complete, click **Next**.

Figure 1-13. Sample Design

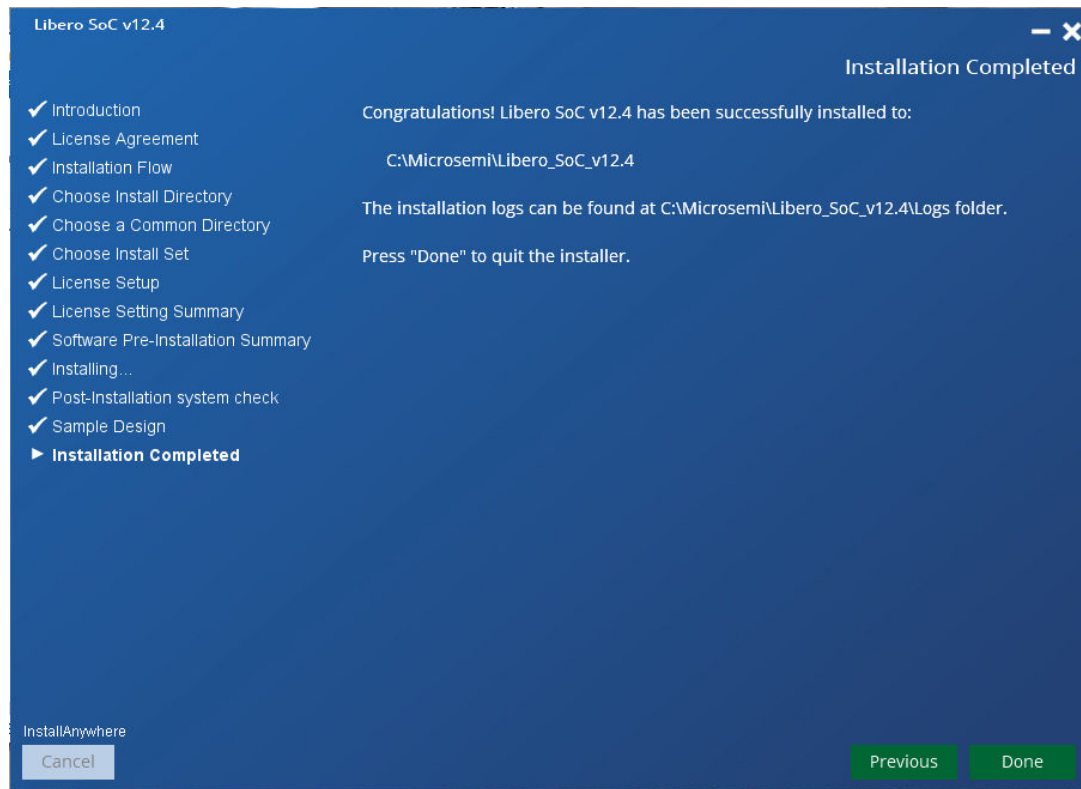


17. When the installation is complete, click **Done**.

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Libero SoC Software Installation and Configuration

Figure 1-14. Installation Completed



18. Click **Start > All Programs > Microsemi Libero SoC v12.4 > About Your Installation** to confirm that all tools and libraries are installed.

1.4.2 Installing the Libero SoC Software on Linux

You can install the Libero SoC Software on Linux in GUI and Console modes.

Note: You may see the Libero SoC Linux Environment Setup User Guide where it details how to set up the Linux environment.

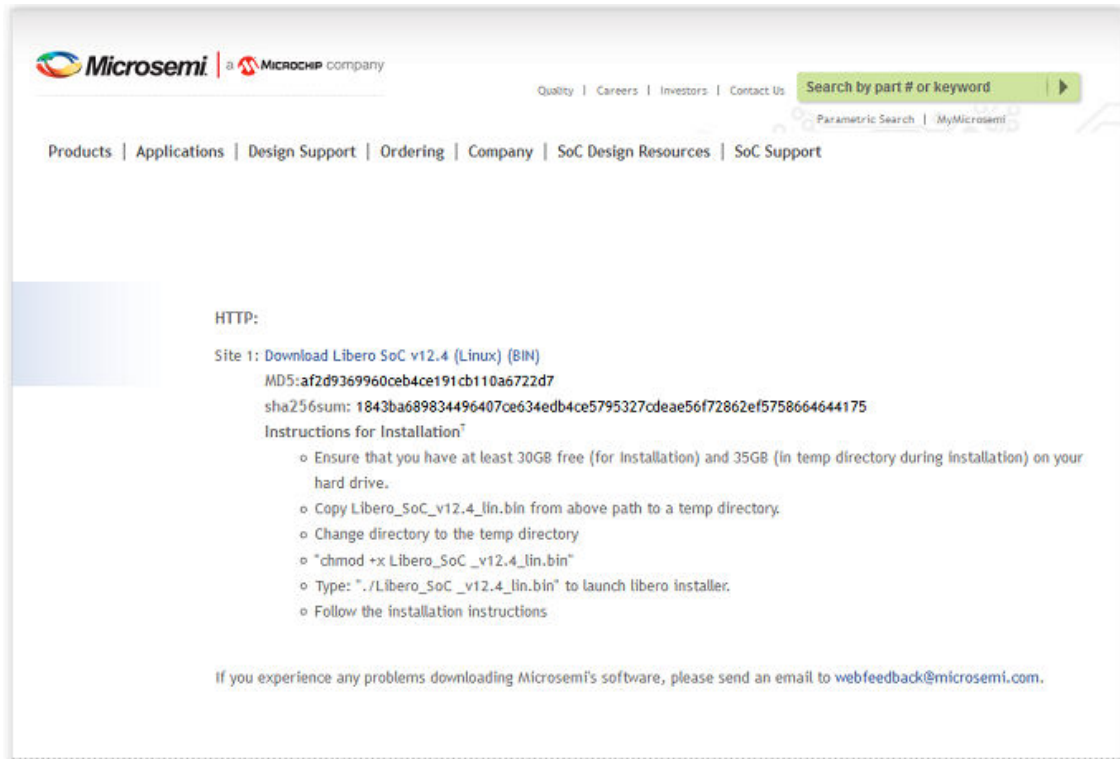
1.4.2.1 Installing the Libero SoC Software in the GUI Mode

Perform the following steps to install the Libero SoC Software in GUI mode. This is the default installation procedure.

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Libero SoC Software Installation and Configuration

1. Download the Installation file from <http://www.microsemi.com/products/fpga-soc/design-resources/design-software/libero-soc#downloads>.

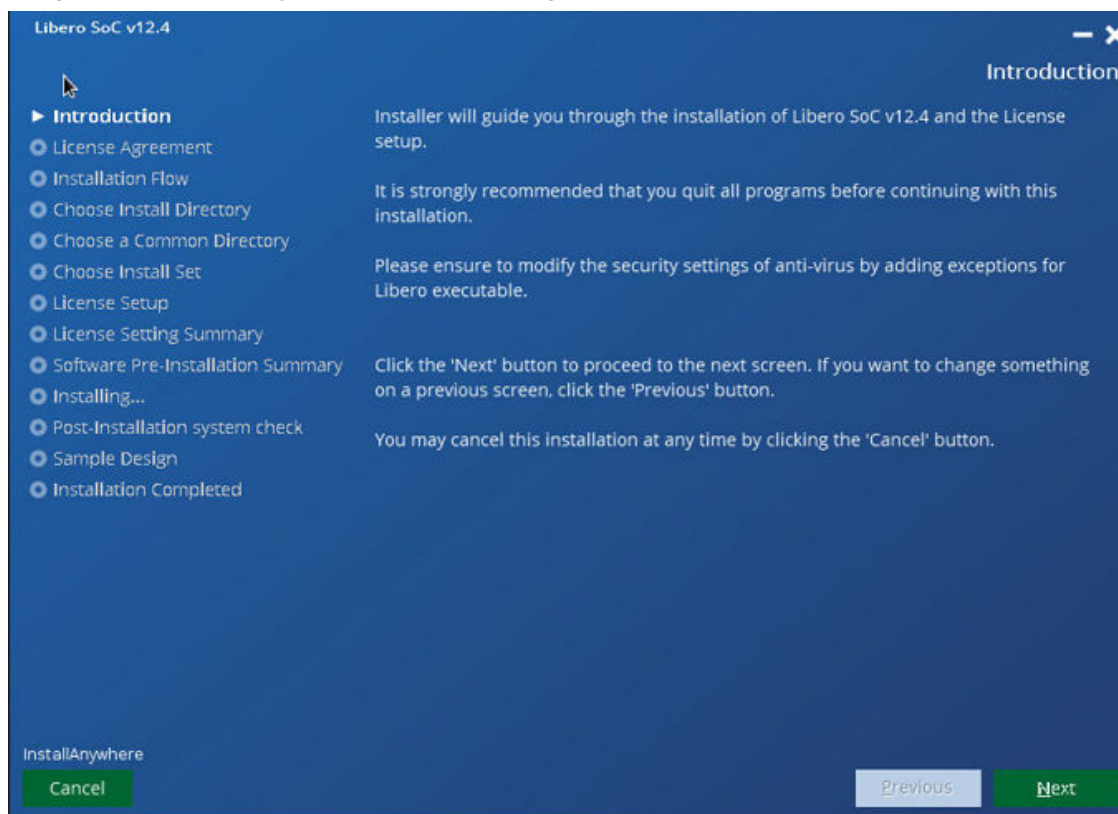


2. Installation instructions:
 - 2.1. Make sure your hard drive has at least 30 GB free for Installation and 35 GB in the temp directory during installation.
 - 2.2. Download Libero_SoC_<version>_lin.bin installer to a temp directory.
 - 2.3. Change directory to the temp directory.
 - 2.4. Change installer executable mode:
% chmod +x Libero_SoC_<version>_lin.bin
 - 2.5. Launch Libero SoC installer:
% ./Libero_SoC_<version>_lin.binThe InstallAnywhere Introduction page appears.

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Libero SoC Software Installation and Configuration

Figure 1-15. InstallAnywhere Introduction Page

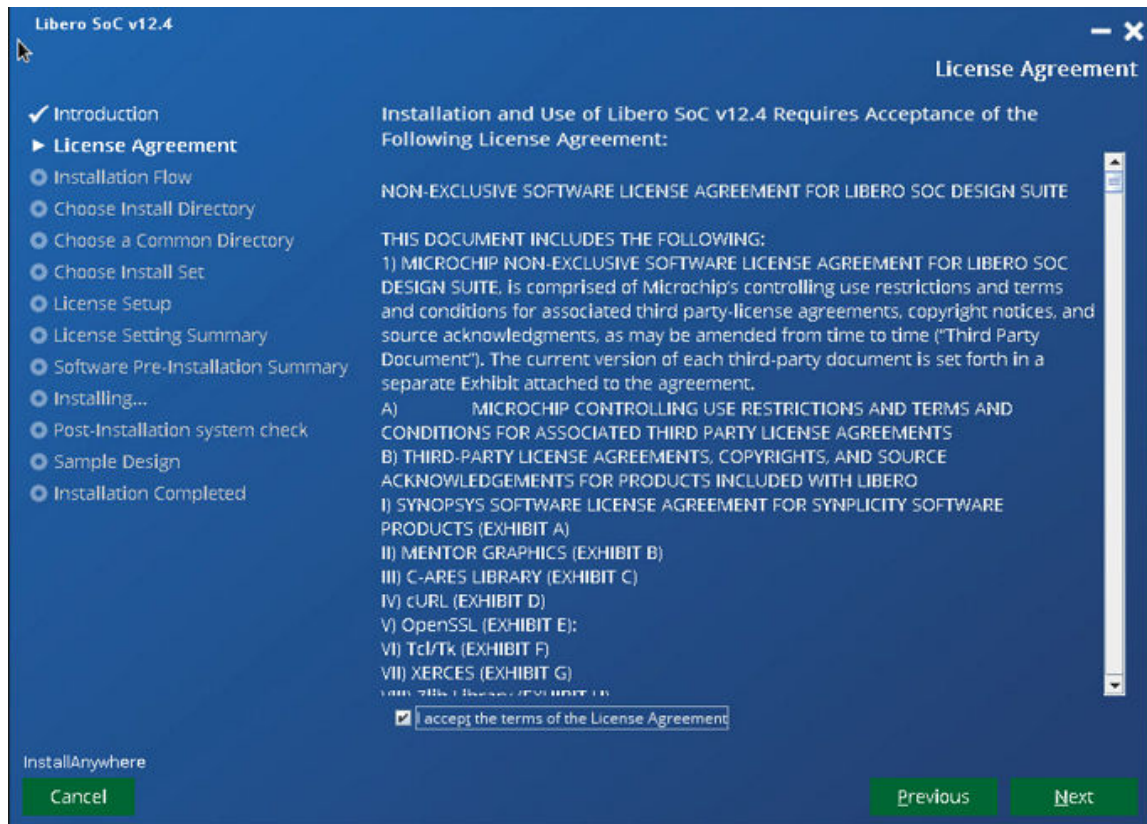


3. Read the License Agreement and check the **I accept the terms of the License Agreement** check box.

Libero® SoC v12.4 or Later

Libero SoC Software Installation and Configuration

Figure 1-16. License Agreement

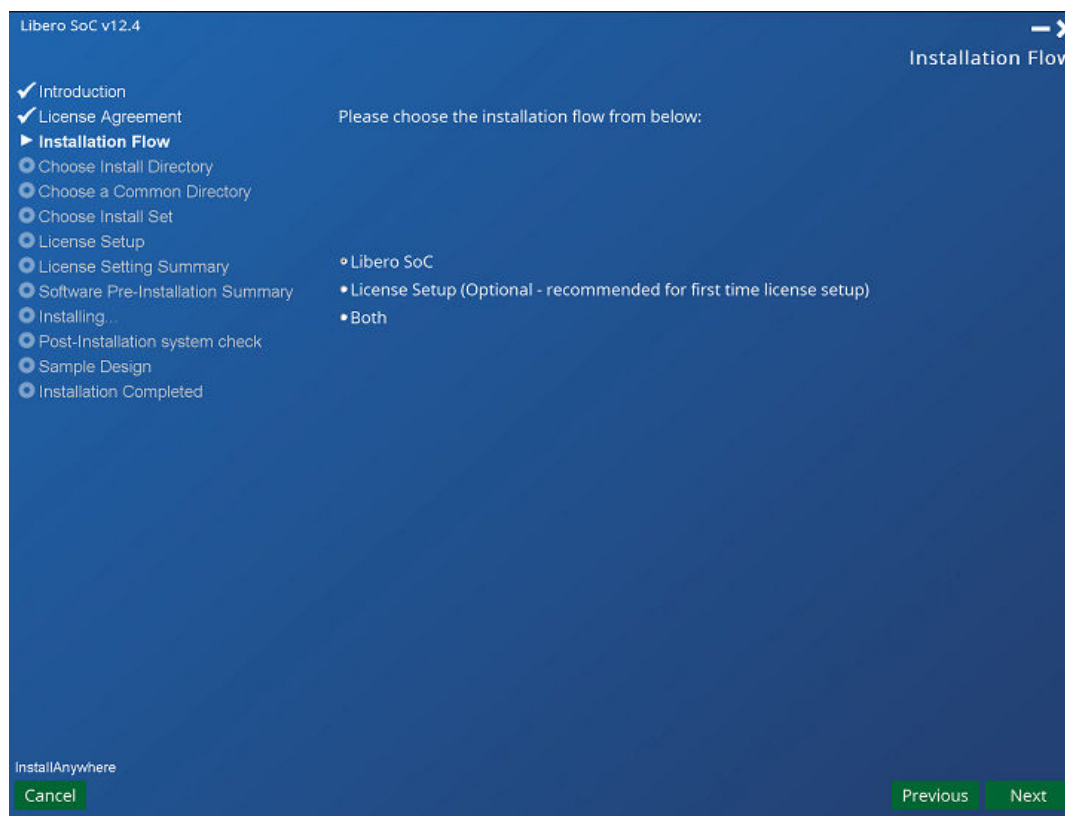


4. Starting with Libero SoC v12.4, for ease of use, the Libero SoC v12.4 installer has been enhanced to include an optional Libero license installation flow. The Libero installer now supports three integrated flows:
 - **Libero SoC** - Libero tool installation (default selection – for customers with existing license setup)
 - **License Setup** - Libero license installation (optional – recommended for first time license setup)
 - **Both** - integrated tool and license installation

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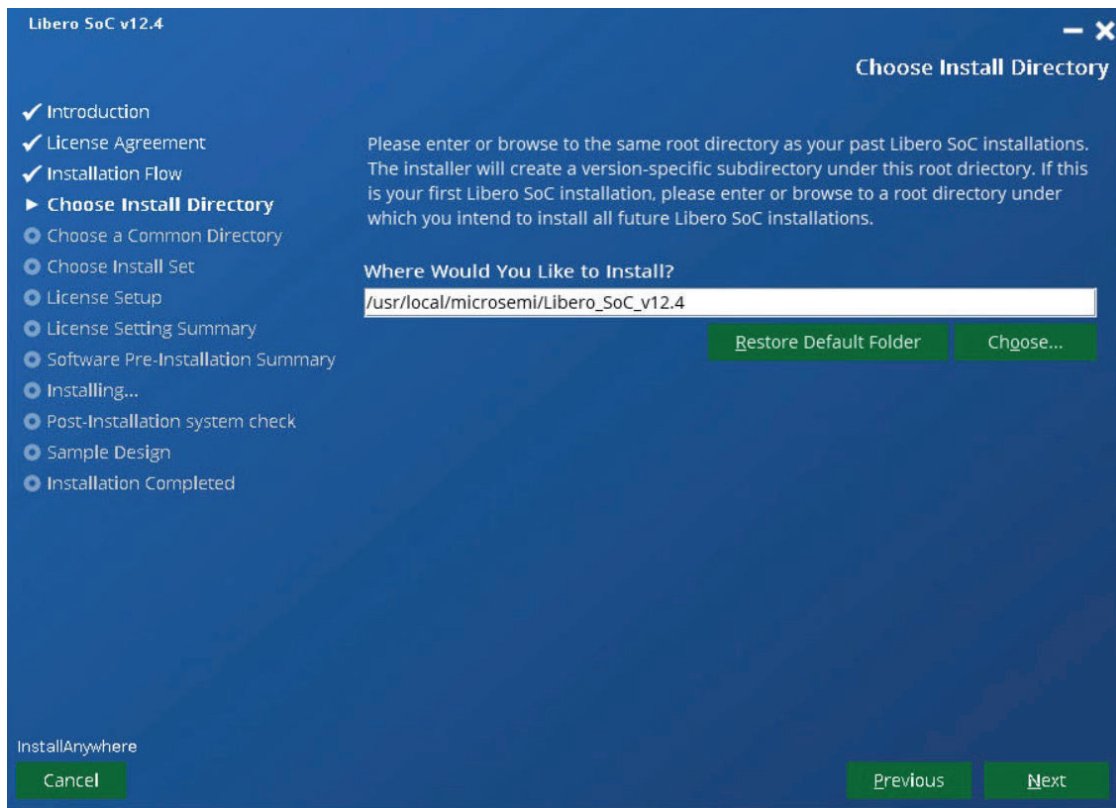
Libero SoC Software Installation and Configuration

Figure 1-17. Libero Tool and License Installation Selection



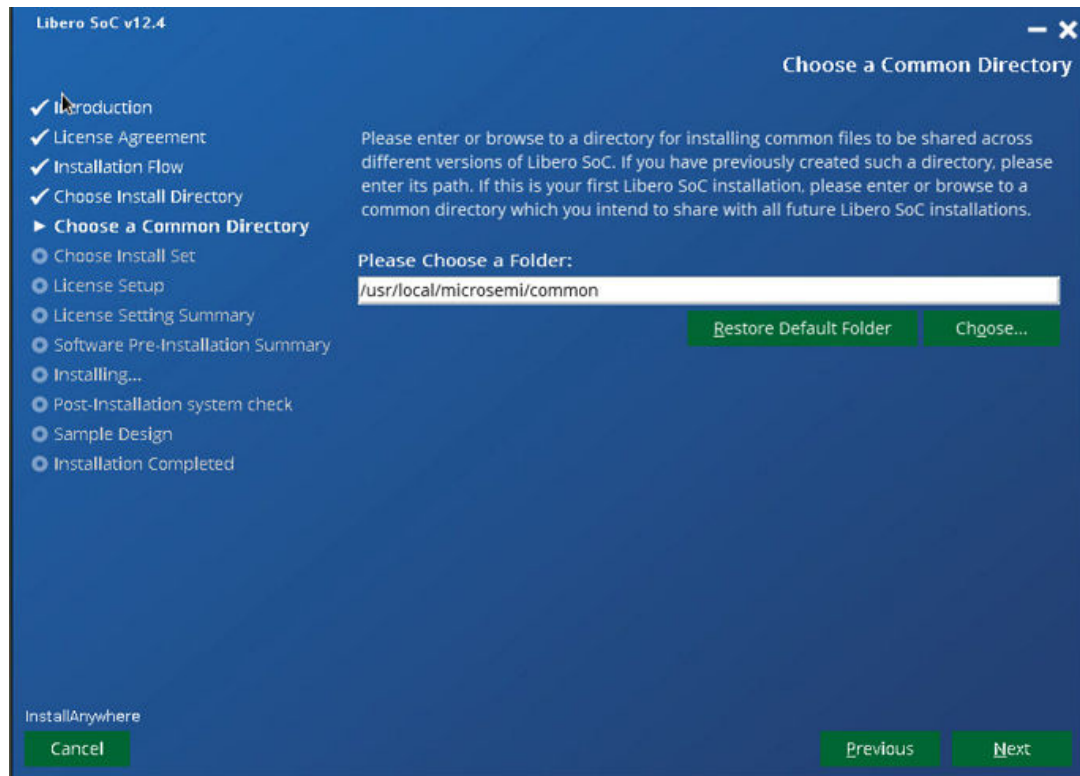
5. Enter the installation folder location. Click **Next** to accept the default location or click **Choose** to navigate to a location and then click **Next**.

Figure 1-18. Choose Install Directory



6. Choose a **Common File Directory** as shown in the following figure. You can store common files that are shared across different versions of Libero. The default Common File directory location is **/usr/local/microsemi/common**.

Figure 1-19. Choose Common Directory



7. The **Libero SoC** selection below installs all features by default. This complete setup is recommended for beginners. It installs all Libero SoC program features, but also requires the most disk space. The **Custom** selection allows you to select which program feature to install.

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Libero SoC Software Installation and Configuration

Figure 1-20. Choose Install Set

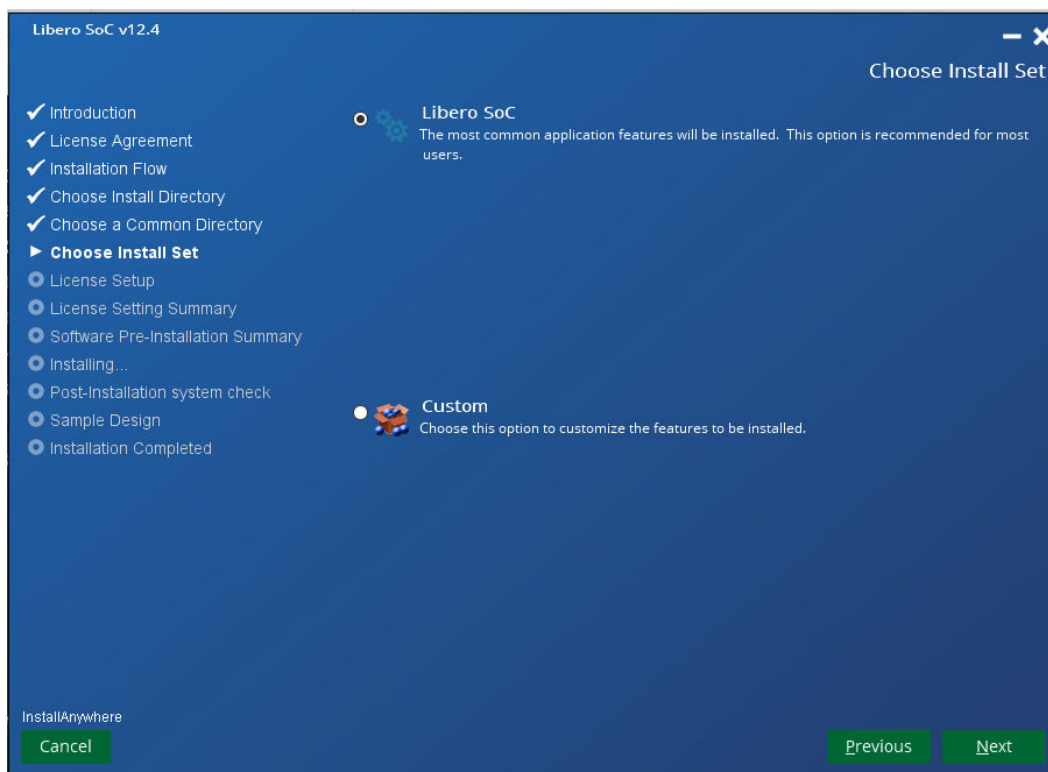
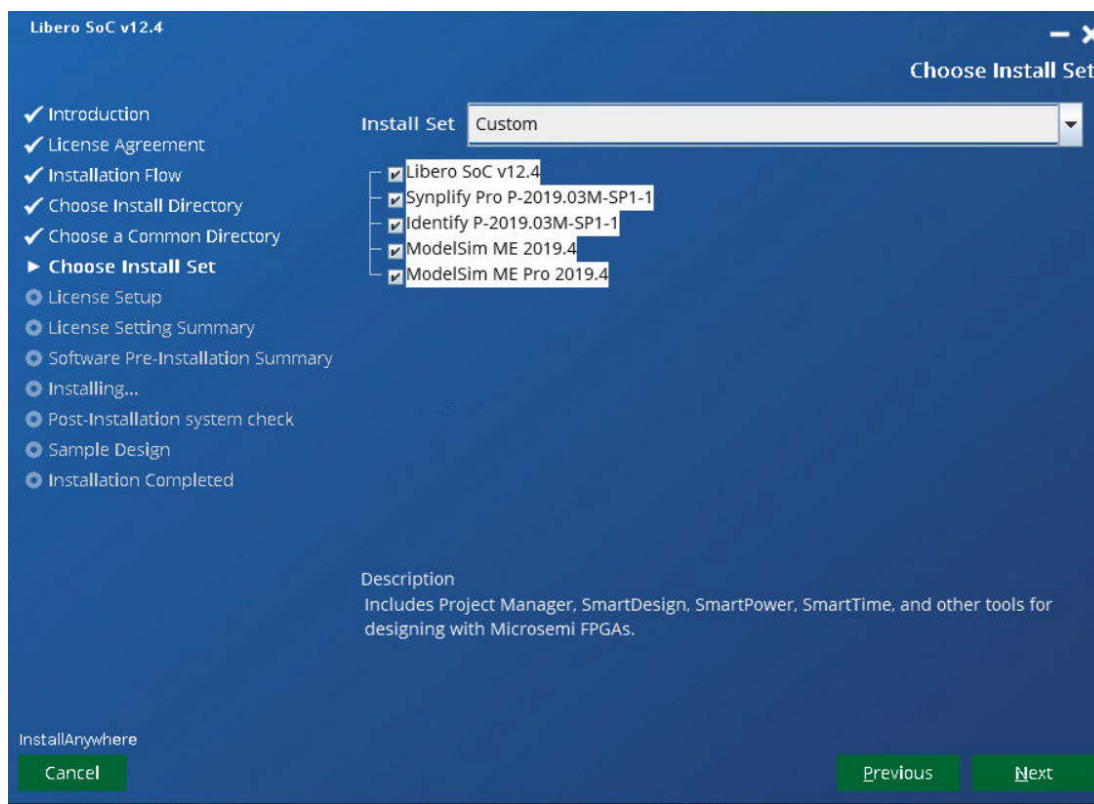


Figure 1-21. Choose Install Custom Set

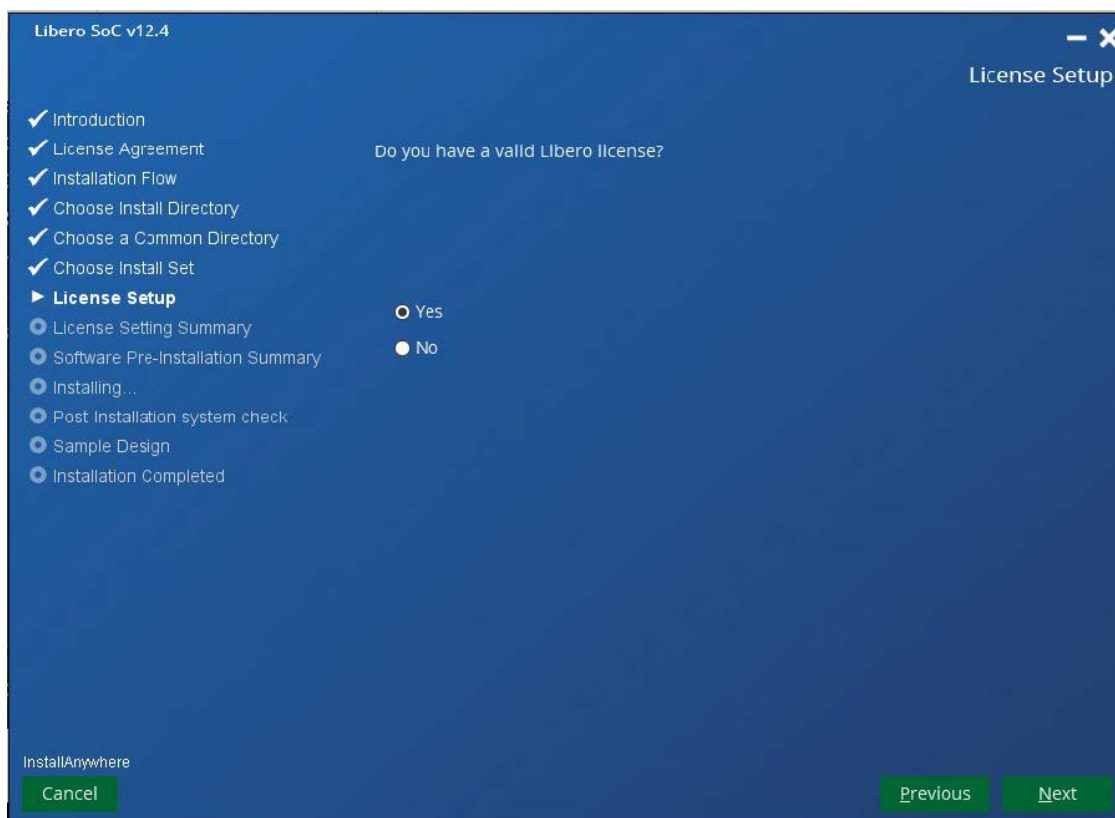


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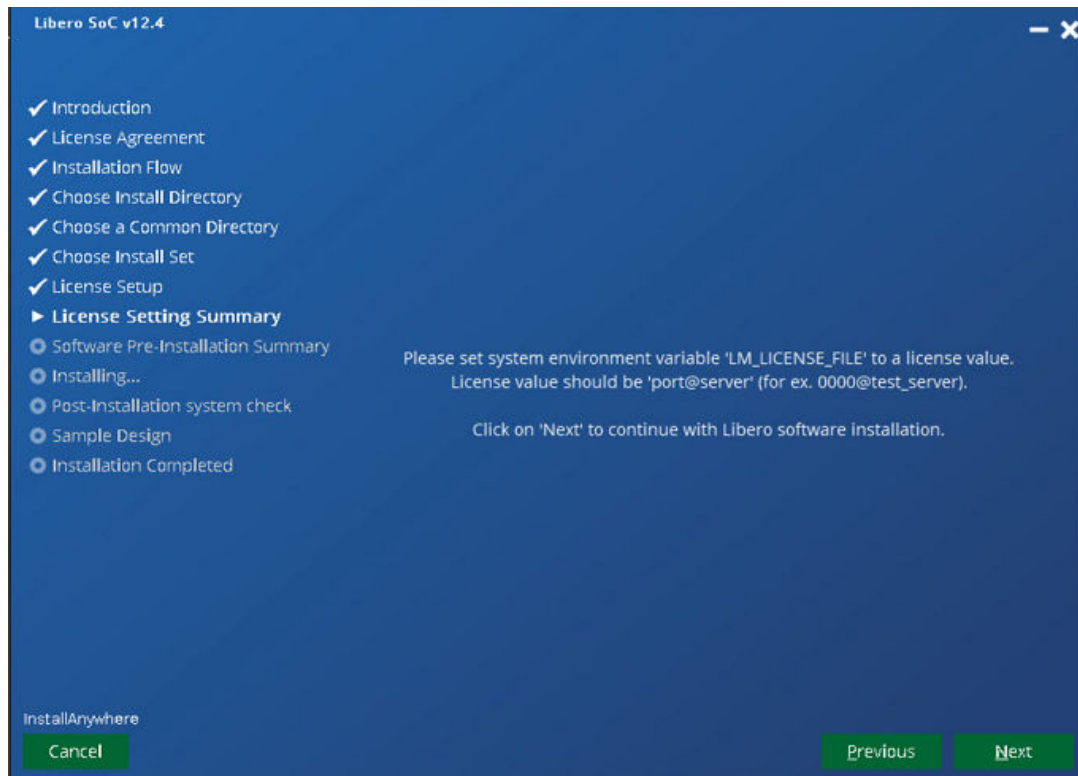
8. If you selected **License Setup** or **Both** Libero Tool Installation and License Setup, the next screen will appear. If you received a Libero license from Microchip, select **Yes**, click **Next**, and go to the next step. Otherwise, select **No**, click **Next**, and then go to Step 10.

Figure 1-22. License Setup



9. When the License Setting Summary screen appears, click **Next**.

Figure 1-23. License Setting Summary



10. If you do not have a valid Libero license, you are taken to the Microsemi SoC Customer Portal. From the Portal, you can sign in, register as a new user, or retrieve your user name and password.
 - To sign in, type your user name and password, and then click **Submit**.
 - To register as a new user, click **New User**, and then follow the instructions to generate a license.
 - To retrieve your user name or password, click **Forgot My User Name or Password**.

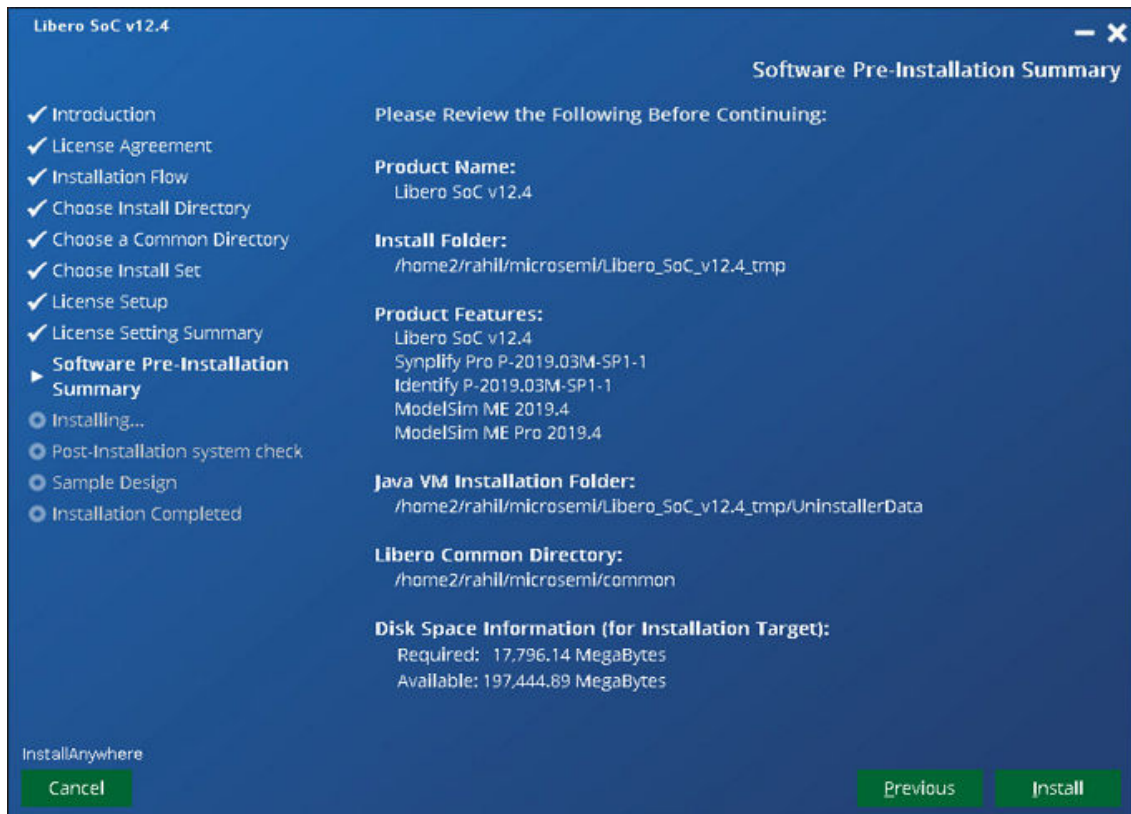
When you receive your license, return to Step 9, and then enter your license.

11. Review the Pre-Installation Summary dialog box to see the selected components for installation.

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Figure 1-24. Pre-Installation Summary



12. Click **Install** to continue your installation. The progress bar appears.
13. Click **Done** to complete your installation.

For information about installation in console mode, see [1.4.2.2 Installing the Libero SoC Software in Console Mode](#).

1.4.2.2 Installing the Libero SoC Software in Console Mode

Perform the following instructions to install the software in Console mode:

1. Type the following command:
`./Libero_SoC_<version>_lin.bin -i console`

The **Console Mode Installation** page is displayed.

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Figure 1-25. Console Mode Installation Screen

```
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...

=====
Libero SoC v12.3                                     (created with InstallAnywhere)
=====

Preparing CONSOLE Mode Installation...

I

=====
Introduction
-----

InstallAnywhere will guide you through the installation of Libero SoC v12.3.

It is strongly recommended that you quit all programs before continuing with
this installation.

Respond to each prompt to proceed to the next step in the installation.  If you
want to change something on a previous step, type 'back'.

You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE: █
```

2. Press **Enter** to continue. The **License Agreement** is displayed.

Figure 1-26. License Agreement

```
=====
License Agreement
-----

Installation and use of Libero SoC v12.3 requires acceptance of the following
License Agreement:

MICROSEMI SOC CORP. LIBERO® SOFTWARE LICENSE AGREEMENT
and
MICROSEMI SOC CORP. DIRECTC LICENSE AGREEMENT

THIS DOCUMENT INCLUDES THE FOLLOWING:
1) MICROSEMI SOC CORP. LIBERO® SOFTWARE LICENSE AGREEMENT
A) MICROSEMI SOC CORP. CONTROLLING USE RESTRICTIONS AND TERMS AND CONDITIONS
FOR ASSOCIATED THIRD PARTY LICENSE AGREEMENTS
B) THIRD-PARTY LICENSE AGREEMENTS FOR PRODUCTS INCLUDED WITH LIBERO®
I) SYNOPSYS SOFTWARE LICENSE AGREEMENT FOR SYNPLICITY SOFTWARE (EXHIBIT A)
II) MENTOR GRAPHICS MODEL TECHNOLOGY (EXHIBIT B)
III) C-ARES LIBRARY (EXHIBIT C)
IV) cURL (EXHIBIT D)
V) OpenSSL (EXHIBIT E)
VI) Tcl/Tk (EXHIBIT F)
VII) XERCES (EXHIBIT G)
VIII) Zlib Library (EXHIBIT H)
VIV) PETSc (EXHIBIT I)
X) gSOAP (EXHIBIT J)
XI) COIN-OR (EXHIBIT K)
2) MICROSEMI SOC CORP. DIRECTC LICENSE AGREEMENT
Note: For the remainder of this document, the terms you and Licensee shall

PRESS <ENTER> TO CONTINUE: █
```

3. Review the license agreement. The installer displays the license agreement one screen at a time.
4. Press **ENTER** to view each page and continue. Enter **Y** at the end of the agreement to accept and continue:
 - Specify the installation folder. Do not accept the default path. You must enter the same Microsemi parent directory as your past Libero installations. The installer creates a version- specific sub-directory under this parent directory. If this is your first Libero installation, enter a Microsemi parent install directory under which you intend to install all future Libero installations. Microsemi recommends using `/usr/local/microsemi/libero` as your parent installation directory.
 - Enter **Y** to confirm the installation folder. Enter the absolute path for the Libero Common Directory. A Libero common directory is shared by multiple versions of Libero. Microsemi recommends that you use the common directory `/usr/local/microsemi/common`.
 - Enter the absolute path for the Libero Common Directory. A Libero common directory is shared by multiple versions of Libero. Microsemi recommends that you use the common directory `/usr/local/microsemi/common`.
 - Confirm the Absolute Path for the Libero Common Directory.
 - Enter the number that corresponds to the software features you want to install.

Figure 1-27. Choose Common Directory

```
=====
Choose Install Directory
-----

Please enter the same root directory as your past Libero SoC installations. The
installer will create a version-specific subdirectory under this root
directory. If this is your first Libero SoC installation, please enter a root
directory under which you intend to install all future Libero SoC
installations.

Where would you like to install?

    Default Install Folder: /usr/local/microsemi/Libero_v12.3

ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT
    : /soft/sqatest14/user_joe/microsemi

INSTALL FOLDER IS: /soft/sqatest14/user_joe/microsemi
    IS THIS CORRECT? (Y/N): █
```

- Review the Install Set. Enter the number corresponding to the Install Set you want to install.

Figure 1-28. Install Set Selection

```
=====
Choose Install Set
-----

Please choose the Install Set to be installed by this installer.

    ->1- Libero SoC

ENTER THE NUMBER FOR THE INSTALL SET, OR PRESS <ENTER> TO ACCEPT THE DEFAULT
    : █
```

- Press **ENTER** to continue. The pre-installation summary is displayed.

Figure 1-29. Pre-installation Summary

```
=====
Enter a Common Directory
-----

Please enter a directory for installing common files to be shared across
different versions of Libero SoC. If you have previously created such a
directory, please enter its path. If this is your first Libero SoC
installation, please enter a common directory which you intend to share with
all future Libero SoC installations.

Common Install Path: (Default: n/a): █
```

- Press **Enter** to begin the installation.
- Obtain and set up your license according to the instructions in [1.5 Obtaining the Licenses](#).

1.4.2.3 Installing the Service Pack

Service Packs are incremental, and must be installed on top of the previous release or releases. To verify your Libero SoC version, from the Help menu, click **About Libero**.

IMPORTANT: `<Libero_release>_Lin.tar.gz` must be placed in the `$ALSDIR/Libero` directory and the installation must take place on the local system.

Libero® SoC v12.4 or Later

Libero SoC Software Installation and Configuration

1. Log in with read/write permission to system on which Libero SoC is installed.
2. Download <Libero_release>_Lin.tar.gz into \$ALSDIR/Libero. <Libero_release>_Lin.tar.gz is now located at the same level as adm/, bin/, data/, and so on.
3. Type: `tar xzvf <Libero_release>_Lin.tar.gz`
4. Type: `./wsupdate.sh` to complete the installation of the update.

1.4.3 Tips for Launching Libero on Linux RH Operating Systems

See *How to Set Up Your Linux Environment for Libero* for detailed instructions on how to launch Libero on Linux RH operating systems.

1.5 Obtaining the Licenses

You must have a license to run the Libero SoC Software. Navigate to this <https://www.microsemi.com/products/fpga-soc/design-resources/licensing#overview> URL to learn about available licenses, how to purchase new licenses or renew existing licenses, and how to obtain evaluation licenses.

Do you need help with selecting a right license for your design? Use the Libero License Selector Guide, a license selection tool that enables you to select the right license option based on multiple parameters such as FPGA/SoC device, Libero version, Operating System, and so on.

1.5.1 Libero License Options

Two license types are offered: node-locked or floating. A node-locked license is locked to a specific hard disk ID or movable USB hardware key dongle. A USB dongle with the accompanying license file allows the software to operate on any PC to which the dongle is attached and the license file and software are installed.

View the tool and device support for the various licenses at <https://www.microsemi.com/products/fpga-soc/design-resources/licensing>.

Node-locked license installation is covered in [1.6 Installing Licenses](#).

Notes:

- Node-locked licenses are supported on Windows platform and Floating license are supported on Windows, Linux, and Solaris platforms.
- Remote access is not supported for node-locked Evaluation, Gold, Platinum, and Silver licenses. However, it supports a standalone license.

A floating license is typically installed on a network server (Windows, Linux, or Solaris) and allows networked client PCs to access the license from the server. The Client PCs can be Windows or Linux OS. Client seats can be purchased to allow up to 999 users to run the Libero software simultaneously.

Note: Node-locked and floating licenses do not support virtual machine servers.

Libero license manager and vendor daemons for all supported network server platforms are available at www.microsemi.com/product-directory/design-resources/1711-licensing#downloads.

Note: If you want to use 64-bit Imgrd you can obtain it directly from Flexera. Floating license installation is covered in "Installing Licenses" on page 16.

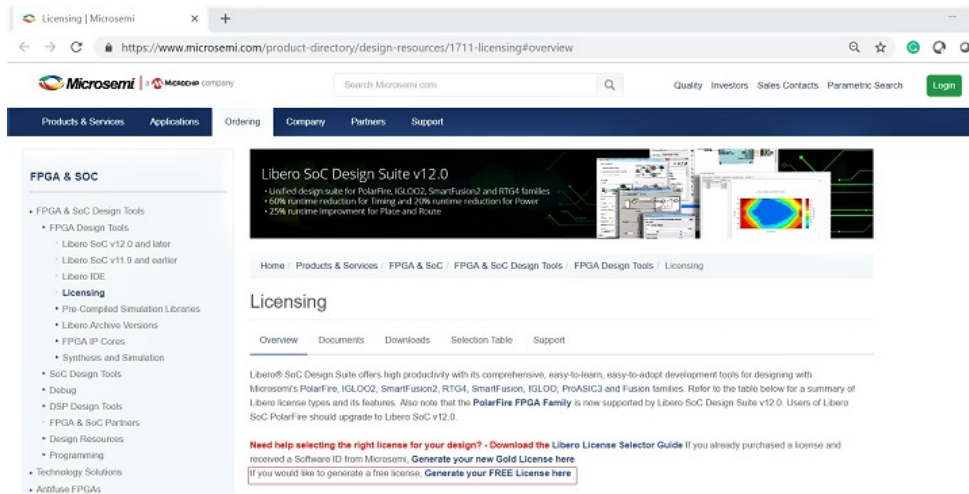
1.5.2 Obtaining Free Licenses

Microchip supports two types of free licenses such as Evaluation and Silver licenses. The following figure shows the Silver License web page. Follow the steps to generate a free license.

Libero® SoC v12.4 or Later

Libero SoC Software Installation and Configuration

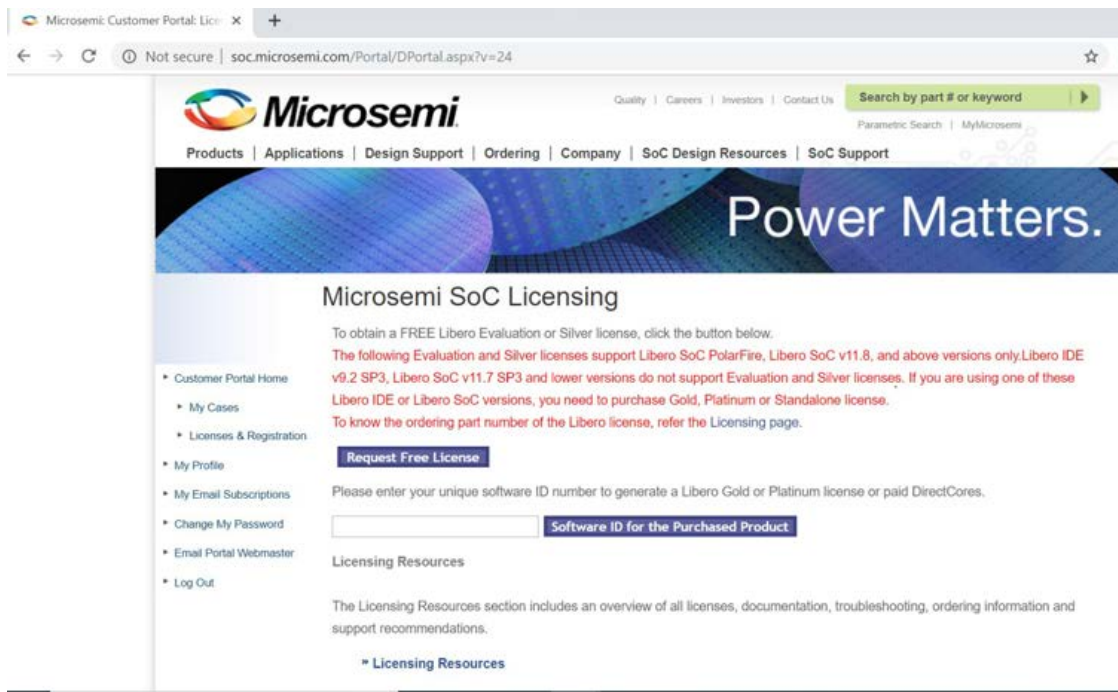
Figure 1-30. Silver License Web Page



Provide the login details on the Microchip SoC Customer Portal web page. If you are a new user, register and create an SoC portal account.

Click **Request Free License** on the Microchip SoC Licensing web page to generate a free license.

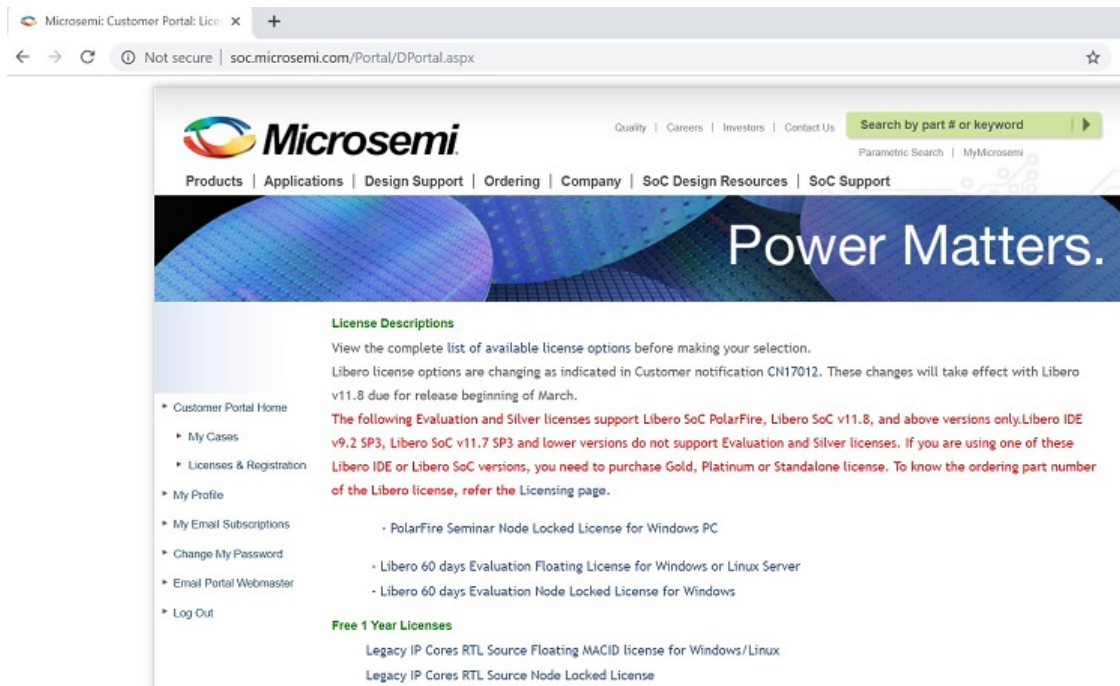
Figure 1-31. Request for a Free License Web Page



Libero® SoC v12.4 or Later

Libero SoC Software Installation and Configuration

Figure 1-32. License Descriptions Page



1.5.2.1 How to obtain a Disk ID?

The DISK ID is the computer hard drive's serial number, also called Disk Serial Number. It is typically the "C" drive in your computer. The Disk ID is an 8 character hexadecimal number of the form, xxxx-xxxx, similar to "A085-AFE9". The requested license is sent to you within 45 minutes. If you select a Node Locked License, the registration page that requires the hard disk ID of the PC where the Libero SoC Software is installed. If you are not sure how to find the hard disk ID, click the **How to find a DiskID** link to locate the ID and provide the **Disk ID** in the entry field.

To obtain your computer's Disk ID, type the following at a DOS or Command Prompt:

```
C:> Vol C:
```

Enter your C drive's Disk ID number into the license registration page window where indicated and click **Submit**.

Input the Disk ID number, and click **Submit**.

Libero® SoC v12.4 or Later

Libero SoC Software Installation and Configuration

Figure 1-33. License Disk ID

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Power Matters.

Libero Evaluation Node Locked License for Windows

Your Disk ID is an 8 character hexadecimal number set with valid characters A-F and/or 0-9 in groups of 4 separated by "-". Ex: "A0B5-AFE9". The DiskID of the C:\ Drive must be used even if the software is installed on another drive. Remote Desktop is not supported.

Customer Portal Home

- My Cases
- Licenses & Registration
- My Profile
- My Email Subscriptions
- Change My Password
- Email Portal Webmaster
- Log Out

DiskID

How to find a DiskID

Submit Clear

1.5.2.1.1 How to Obtain a MAC ID?

If you select a floating license type, the registration window requires your MAC ID for your Windows or Linux PC, and it requires the Host ID for your Solaris PC or Server.

Linux Node Locked or Floating

If you are not sure how to find the MAC ID, click the **How to find a MAC ID** link to locate the ID and provide the **MAC ID** in the ID entry field.

Figure 1-34. MAC ID Based Registration Web Page

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Power Matters.

Libero Silver 1Yr Floating License for Windows/Linux Server

Your MAC ID is a 12 character hexadecimal number set with valid characters A-F and/or 0-9. Ex: "1234abcd5678"

Customer Portal Home

- My Cases
- Licenses & Registration
- My Profile
- My Email Subscriptions
- Change My Password
- Email Portal Webmaster
- Log Out

MAC ID

How to find a MAC ID

Submit Clear

To obtain the MAC ID, from the Command Prompt type:

```
/sbin/ifconfig
```

The Ethernet/MAC ID address will be displayed. The MAC ID address is a twelve character hexadecimal number, similar to "00A0C982BEE3". Enter your MAC ID into the registration page window where indicated.

Libero® SoC v12.4 or Later

Libero SoC Software Installation and Configuration

Windows Floating or Synplicity "Server-Based Node-Locked" (SBNL) Licenses

To obtain the PC MAC ID, type the following at a DOS or Command Prompt:

```
C:> lmutil lmhostid
```

You can also use:

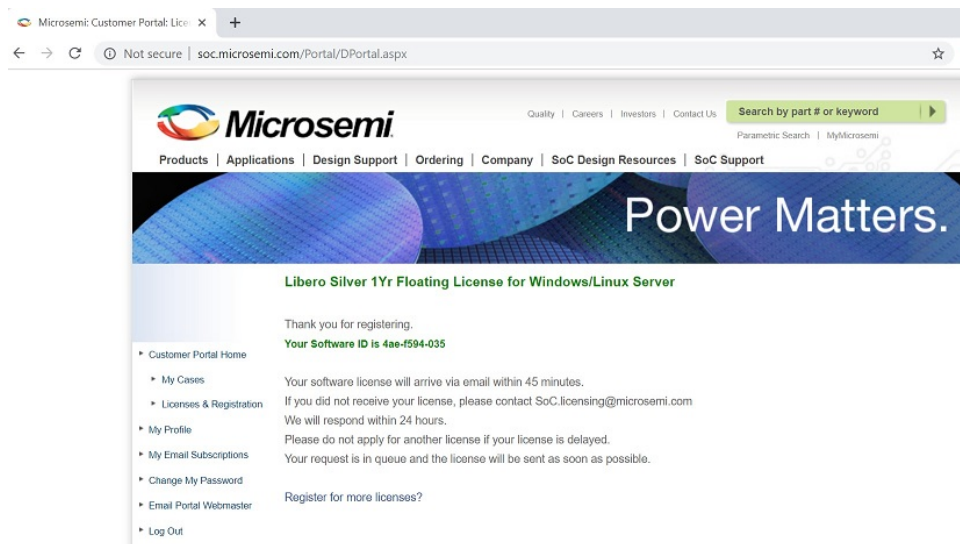
```
C:> <path_to_actel_installation\bin\lmhostid>
```

The Ethernet/MAC ID address is displayed. The MAC ID address is a twelve character hexadecimal number, similar to "00A0C982BEE3". Enter the 12 character MAC ID into the registration page window where indicated.

In some PC configurations, there can be more than one MAC ID. Use the MAC ID that you know will be the "active" ID. Some users may configure their laptops to have the wired MAC ID for docked laptop use and the wireless MAC ID for undocked use. Tools using the MAC ID depend on the MAC ID being active for use.

When finished, click **Submit**.

Figure 1-35. Registration Complete



Print or write down the Software ID on the Registration Confirmation web page. Normally the license is generated and sent to your email address in less than 45 minutes. The `License.dat` file is an attachment to the email.

When the email and license arrive, follow the license installation instructions in [1.6 Installing Licenses](#).

1.5.3 Obtaining a Paid License

You can purchase the Libero Gold, Platinum, Standalone, and Archival licenses. Also, Microchip has Paid DirectCores, Video SolutionCores, and MotorControl SolutionCores.

Visit www.microsemi.com/product-directory/design-resources/1711-licensing to see all available license types.

Upon receipt of the purchase order, you will receive a SW ID document from Microchip through an email, which contains the SW ID# number and the instructions to generate the required license.

For USB license type, you will be shipped USB dongle hardware and a software DVD, not the SW ID attached to the DVD. The Software ID number for Libero licenses is in the format LXXX-XXXX-XXXX. The Software ID for Paid DirectCores is in the format of CXXX-XXXX-XXXX. The Software ID for paid Video SolutionCores is in the format of VXXX-XXXX-XXXX. The Software ID for paid MotorControl SolutionCores is in the format of MXXX-XXXX-XXXX *Do not generate the USB dongle license until you receive the USB dongle hardware from Microsemi.*

Note: The Libero SoC Software DVD is not available with node locked or floating licenses. It is available only with USB node-locked licenses.

Note: Starting from 4/16/2019, Microsemi discontinued USB Dongle license for Gold, Platinum, Gold Archival and Platinum Archival licenses because Mentor has discontinued support for the USB dongle license. See the *PDN19017: Product Discontinuation Libero USB Dongle Licenses* for discontinued Libero licenses.

Libero® SoC v12.4 or Later

Libero SoC Software Installation and Configuration

Enter this Software ID number in the Register Purchased Product window, as shown in the following figure and click **Software ID for the Purchased Product**.

Figure 1-36. Register Purchased Product Web Page

Microsemi Customer Portal Lic: x

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Microsemi SoC Licensing

To obtain a FREE Libero Evaluation or Silver license, click the button below.

The following Evaluation and Silver licenses support Libero SoC PolarFire, Libero SoC v11.8, and above versions only. Libero IDE v9.2 SP3, Libero SoC v11.7 SP3 and lower versions do not support Evaluation and Silver licenses. If you are using one of these Libero IDE or Libero SoC versions, you need to purchase Gold, Platinum or Standalone license.

To know the ordering part number of the Libero license, refer the Licensing page.

[Request Free License](#)

Please enter your unique software ID number to generate a Libero Gold or Platinum license or paid DirectCores.

XXXX-XXXX-XXXX [Software ID for the Purchased Product](#)

Licensing Resources

The Licensing Resources section includes an overview of all licenses, documentation, troubleshooting, ordering information and support recommendations.

Depending on the type of license you purchased, depending on the Software ID you provide, the web page will ask you for a hard Disk ID, USB Dongle number or MAC ID.

If necessary, determine your DiskID or MAC ID number, enter it into the window, and click **Submit**.

1.5.3.1 How to Obtain a USB Dongle License?

If you select a USB Dongle license type, the registration window requires Flex ID available on the dongle key. The following shows an example of the USB Dongle number.

Note: USB dongle license is supported on Libero Standalone license. It is not supported on Gold, Platinum, and its Archival licenses. For more details, see [PDN19017](#).

Figure 1-37. USB Dongle License Registration Web Page

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USB Dongle License Registration

The required number is found on the USB Flex dongle and is a 10 character hexadecimal number set with valid characters A-F and/or 0-9. Ex: "9-5e700346". Enter only the 8 characters following the 9-.

FlexID 9-

[Submit](#) [Clear](#)

Libero® SoC v12.4 or Later

Libero SoC Software Installation and Configuration

Note: The Flex ID information will be available on the USB Dongle hardware that was shipped by Microchip.

Figure 1-38. Identifying the USB Dongle Hardware Key Number



The Registration Confirmation web page appears when you click Submit. Your license will be emailed to you, usually within 45 minutes.

When the email and license arrive, follow the license installation instructions in [Installing the Libero SoC Software](#).

1.5.4 Retrieving Copies of Existing Licenses

You can obtain the copies of licenses from the Microchip website and Customer Portal.

1. If you are the registered owner of a license, go to your Microchip Portal Account at <http://soc.microsemi.com/Portal/DPortal.aspx?v=1>.
2. Click the **Licenses & Registration** link. A list of your software licenses is displayed, both current and expired.

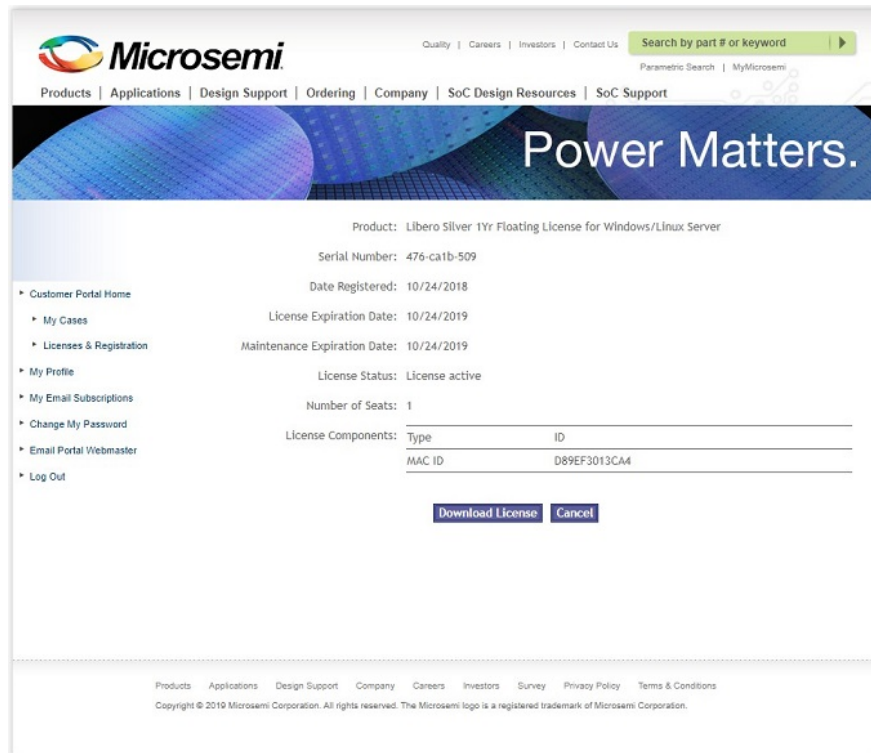
Figure 1-39. License and Registration

The screenshot shows the Microsemi SoC Licensing web page. The sidebar on the left has 'Licenses & Registration' highlighted. The main content area includes a 'Request Free License' button, a text input field for 'Software ID for the Purchased Product', and a table of 'Active Licenses'.

Product	Software ID	Expiration Date
Libero Silver 1Yr Floating License for Windows/Linux Server	476-ca1b-509	10/24/2019 11:17:00 PM
Libero Silver 1 Yr DiskID NL License	476-dba1-0cd	10/25/2019 7:18:00 PM
Libero Silver 1Yr Floating License for Windows/Linux Server	476-d7ee-745	10/25/2019 10:49:00 PM
Libero Silver 1 Yr DiskID NL License	477-ab6d-d71	11/7/2019 8:53:00 PM
Libero Silver 1 Yr DiskID NL License	478-0408-045	11/13/2019 12:26:00 AM
Libero Silver 1 Yr DiskID NL License	478-5a2b-b89	11/18/2019 8:49:00 PM

3. Click the link under **Software ID** of the desired license and click the **Download License** button to obtain a copy

Figure 1-40. Software ID Details



1.5.5 License Changes and Information

If you purchased a license, then some license changes can be performed.

- Change the owner of a license from one person to another. The new licensee must have a Microchip Portal Account.
- Change the Disk ID for a license
- Change the MAC ID for a license
- Change the USB Dongle ID for a license
- Additional email ids can be added to a license registration

The registered owner of a license will be notified 30 days, 15 days, and the last day in advance of the license expiration date. An email will also be sent on the expiration date. There is no renewal for free license.

Consider purchasing an annual license after the evaluation period.

1.6 Installing Licenses

After you have registered for a license on the Microchip website, your license is automatically emailed to the address you provided. A License.dat file is attached to the email.

Note: You must have Admin rights on the installation machine to install the Libero SoC Software and to set up licensing.

1.6.1 Installing a Node Locked Disk ID License on Windows

1. Create a folder named flexlm on the C drive and save the License.dat file in that folder.
2. Open your Environment Variables dialog box:
 - 2.1. Right-click **Computer** and choose **Properties** to open the System dialog box.
 - 2.2. Click **Advanced System Settings** to open the System Properties dialog box.
 - 2.3. Click the **Advanced** tab.

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Libero SoC Software Installation and Configuration

- 2.4. Click the **Environment Variables** button.
- 2.5. In Windows Search, select **Settings** (Windows key +w) and search for **Environment Variable**.
- 2.6. Double-click the environment variable for your account to open the Editor.
- 2.7. Opens File Explorer, right-click **This PC** and select **Properties**.
- 2.8. Click Advanced System Settings and Click Environment Variables.

If `LM_LICENSE_FILE` is already listed in System variables, proceed to Step 3. If not, go to Step 5.

3. Select it, then click **Edit**.
4. Add the path to the Microsemi License.dat after any existing Variable value, separated with a semicolon (no space), or replace the existing value.
Go to *Step 10*.

If `LM_LICENSE_FILE` is not listed in System VARIABLES:

5. Click **New** under System Variable to create a new system variable. The New System Variable dialog box appears.
6. Type `LM_LICENSE_FILE` in the Variable name field.
7. Type `c:\flexlm\License.dat` in the Variable value field (or the path to where you installed the License.dat file).
Note: Path to the installed license software is case sensitive; check for the case of the folder path in which the license is saved.
8. Click **OK**.
9. Click **OK** to save new Environment Variables and return to System Properties.
10. Click **OK** to exit.

Installation is complete. Libero and all installed tools that require licenses are ready for use.

1.6.2 Installing a Node-Locked USB Dongle License on Windows

1. Create a folder named flexlm under your `c:\` drive.
2. Save the **License.dat** file in the flexlm folder. You can save the License.dat file in a different folder; if you do so, make sure the correct path is defined in `LM_LICENSE_FILE`.
3. Open your Environment Variables dialog box:
 - 3.1. Right-click **Computer** and choose **Properties** to open the System dialog box.
 - 3.2. Click **Advanced System Settings** to open the System Properties dialog box.
 - 3.3. Click the **Advanced** tab.
 - 3.4. Click the Environment Variables button.
 - 3.5. In Windows Search, select **Settings** (Windows key +w) and search for **Environment Variable**.
 - 3.6. Double-click the environment variable for your account to open the Editor.
 - 3.7. Open File Explorer, right-click **This PC** and select **Properties**.
 - 3.8. Click **Advanced System Settings** and click **Environment Variables**.

If `LM_LICENSE_FILE` is already listed in System variables, proceed to Step 4. If not, go to Step 6.

4. Click **New** under System Variable to create a new system variable. The New System Variable dialog box appears.
5. Type `LM_LICENSE_FILE` in the Variable name field.
6. Type `c:\flexlm\License.dat` in the Variable value field. Do not put spaces in the path.
7. Click **OK**. Proceed to Step 10.
If `LM_LICENSE_FILE` is already listed in System Variables:
 8. Select the existing `LM_LICENSE_FILE` and click **Edit**.
 9. Add the path to the Microchip License.dat after any existing variable value (separated by a space) or replace the existing value.
 10. Click **OK**.
 11. Click **OK** to save the new Environment Variables and return to System Properties.
 12. Click **OK** to exit.
13. Attach the USB dongle hardware that was sent by Microchip to your PC.

1.6.2.1 Dongle Driver Version Update

The Libero SoC Installer does not install the FlexLM drivers for the USB dongle. If you use a dongle-based Libero SoC license, you are responsible for installing the current version of the dongle driver.

Note: Before installing the USB drivers, Microsemi recommends that you download and run the FlexLM Cleanup Utility (3.9 MB) to remove any older, incompatible FlexLM drivers currently on your system.

To run the Libero SoC releases with a USB dongle license, you need to update the dongle driver version to the current version.

1. Download the current dongle driver **SCL_FLEXID9_Installer.exe** from: www.microsemi.com/product-directory/design-resources/1711-licensing#downloads.
2. When the download completes, run the SCL_FLEXID9_Installer.exe.
3. Follow the prompts to complete the installation.
4. Restart your system after installation for the dongle driver version to take effect.

1.6.3 Installing a Floating License on a Windows Server

1. On the SERVER machine, save the **License.dat** file into a flexlm folder on your **c:** drive.
2. Download the required license manager daemons to your server platform from www.microsemi.com/product-directory/design-resources/1711-licensing#downloads. In the License Server Daemons section, and select the correct platform download. We recommend placing these files into the same location as the License.dat file.
3. Open **License.dat** and edit the SERVER line by replacing <put.hostname.here> with your hostname. Do not include the brackets. Edit the port number (1702), if necessary, to any unused port.
4. Libero floating licenses include Libero, Synplify Pro ME, Identify ME, Symphony Model Compiler ME and ModelSim ME tools. Edit each VENDOR and DAEMON line with the correct path to each vendor daemon and then save the License.dat file. For example: VENDOR snpslmd C:\flexlm\snpslmd DAEMON mgcld C:\flexlm\mgcld DAEMON actlmgrd C:\flexlm\actlmgrd
5. Login to the SERVER machine and run the following command from the command prompt to start the lmgrd License Manager on the server machine:

```
C:\flexlm\lmgrd -c C:\flexlm\License.dat
```

Alternatively, if the user prefer to have the License Manager output written to a Logfile, then run the following command at the command prompt: C:\flexlm\lmgrd -c <path_to_License.dat>/License.dat -l

```
<path_to_logfile>/license.log
```

1.6.4 Installing a Floating License on a Linux Server

1. On the SERVER machine, save the License.dat file.
2. Download the required license manager daemons for your server platform from <http://www.microsemi.com/products/fpga-soc/design-resources/licensing#downloads>. In the License Server Daemons section, select the correct platform download. Microsemi recommends placing these files into the same location as the License.dat file.
3. Open License.dat using any editor. Edit the SERVER line by replacing <put.hostname.here> with your machine Hostname. Do not include the brackets.
4. Libero Linux floating licenses include Libero, Synplify Pro ME, Identify ME, Symphony Model Compiler ME and ModelSim ME tools. Edit each VENDOR and DAEMON line with the correct path to each vendor daemon and then save the License.dat file.
5. Login to the SERVER machine and run the following command to start the License Manager:
<path_to_lmgrd>/lmgrd -c <path_to_License.dat>/License.dat

Alternatively, if the user prefer to have the License Manager output written to a Logfile, then run the following command at the command prompt:

```
<path_to_lmgrd>/bin/lmgrd -c <path_to_License.dat>/License.dat -l \  
<path_to_logfile>/license.log
```

1.6.5 Installing a Floating License on a Solaris Server

Libero SoC software does not run on Solaris. Solaris support is only provided for license server applications (License Manager Only). The Solaris License Manager (lmgrd) serves Standalone Libero SoC floating licenses only.

1. On the SERVER machine, save the License.dat file.
2. Download the required license manager daemons for your server platform from www.microsemi.com/product-directory/design-resources/1711-licensing#downloads. In the License Server Daemons section, select the correct platform download. Microsemi recommends placing these files into the same location as the License.dat file.
3. Open License.dat using any editor. Edit the SERVER line by replacing <put.hostname.here> with your machine Hostname. Do not include the brackets.
4. Standalone Libero SoC floating licenses include Libero SoC feature only.
5. Login to the SERVER machine and run the following command in a command terminal to start the license manager: <path_to_lmgrd> /lmgrd -c <path_to_License.dat/License.dat>

Alternatively, if the user prefer to have the License Manager output written to a Logfile, then run the following command at the command prompt:

```
<path_to_lmgrd>/lmgrd -c <path_to_License.dat>/License.dat -l  
<path_to_logfile>/license.log
```

1.6.6 Connecting the Client Machines (PCs and Linux) to the License Server

For Client machines where the FPGA design work will be done, Libero is available for Windows and Linux operating systems.

1.6.6.1 Connecting the PC Client to a Windows or Linux License Server

From **Control Panel > System > System Properties (Advanced tab) > Environment Variables**, add or modify LM_LICENSE_FILE to include port@hostname:

- Variable Name: LM_LICENSE_FILE Variable
- Value: port@hostname. Example: 1702@sage

For Synplify Pro, check out a license by adding or modifying one of the following two environment variables, depending on the version of Synplify Pro used:

- SNPSLMD_LICENSE_FILE - For Synopsys tools released in September 2010 and later (2010.09).
 - Variable Name: SNPSLMD_LICENSE_FILE
 - Variable Value: <port@hostname> Example: 1702@sage
- SYNPLCTYD_LICENSE_FILE - For Synplify Pro releases before September
 - Variable Name: SYNPLCTYD_LICENSE_FILE
 - Variable Value: <port@hostname> Example: 1702@sage

1.6.6.2 Connecting the Linux Client to a Windows, Linux or Solaris License Server

Use the following commands to set the environment variables on the Linux CLIENT machine:

```
setenv LM_LICENSE_FILE <port@hostname>
```

Example: setenv LM_LICENSE_FILE 1702@sage

For Synplify Pro, to check out a license, add or modify one of the following two environment variables, depending on the version of Synplify Pro used:

- SNPSLMD_LICENSE_FILE - For Synopsys tools released in September 2010 and later (2010.09). setenv
SNPSLMD_LICENSE_FILE <port@hostname> Example: setenv SNPSLMD_LICENSE_FILE

1702@sage

- SYNPLCTYD_LICENSE_FILE - For Synplify Pro releases before September 2010. setenv
SYNPLCTYD_LICENSE_FILE <port@hostname> Example: setenv SYNPLCTYD_LICENSE_FILE
1702@sage

1.6.7 Installing a Server-Based Node-Locked License for Symphony Model Compiler ME

Prerequisite Software: In order to run Symphony Model Compiler ME, you must have MATLAB/Simulink by MathWorks **installed** with a current license. You cannot run Symphony Model Compiler ME without MATLAB/Simulink.

Symphony Model Compiler ME licenses are included with Libero floating licenses: You do not need to install a separate floating license for Symphony Model Compiler ME.

If you are using a Libero Node Locked license, then follow the instructions below

Note: Installation and setup of this license is different from other Microsemi licenses. Install Symphony Model Compiler ME software before installing this license file.

A Symphony Model Compiler ME license is a “floating” license. If your PC has a license manager running, it is important to turn off the license manager before proceeding. Visit <http://www.flexerasoftware.com/support.htm#acresso> and consult the FLEXnet Publisher Lmgrd and Utilities Manual for installation instructions.

1.6.7.1 Installing the IP Paid Licenses

After you receive the paid IP license from Microsemi, append the text at the bottom of the original Libero license file. For example, if you have a node locked paid IP license, add this text in Libero node locked license.

1.7 Installation in Environments without a Consistent Internet Connection

If you prefer to disconnect from the Internet while using Libero, we encourage you to re-connect occasionally and manually **Check for SW Updates** and **Download New IP Cores** to take advantage of new features, enhancements and fixes.

Install the software as described in [1.4 Installing the Libero SoC Software](#).

1.7.1 Change Your Vault Location

If you install the Libero SoC Software onto a network drive for multi-user access, you may want to specify a Vault location that can be shared by all users.

Note: All users must have written permission to the shared vault location.

Microchip recommends a minimum disk space of 1.2 GB for the vault location. To change your Vault location:

1. Launch Libero SoC.
2. From the Project menu, choose **Vault/Repositories Settings**.
3. Click **Vault location**.
4. Enter a new Vault location in the text field.
5. Click **OK**.

To install Mega Vault,

Download and set-up of a complete Vault for new installations.

1. Using the link above, save the .zip file of the entire vault to your local machine (For example, c:\temp).
2. Unzip the file to a folder on your local machine (for example, c:\vault).

Set the path to the vault as follows:

For Libero PolarFire v2.1 and later (Windows only):

1. Run the **setup.exe** installer (included in the MegaVault zip file) to complete vault installation.
2. Click **Project** followed by **Vault/Repositories Settings**. The Vault/Repositories Setting dialog box is displayed.
3. Select **Vault location** from the options in the left pane.
4. Select a path for Vault installation folder (by default it will be C:\Microsemi\PolarFire_v2.1_MegaVault, however during installation you can select your preferred path).

1.7.1.1 Set the path to the vault as follows:

For Libero PolarFire v2.1 and later (Windows only):

Libero® SoC v12.4 or Later

Libero SoC Software Installation and Configuration

1. Run the **setup.exe** installer (included in the MegaVault zip file) to complete vault installation.
2. Click **Project** followed by **Vault/Repositories Settings**. The Vault/Repositories Setting dialog box is displayed.
3. Select **Vault location** from the options in the left pane.
4. Select a path for Vault installation folder (by default it will be C:\Microsemi\PolarFire_v2.1_MegaVault, however during installation you can select your preferred path).

1.7.2 Disable Internet Options

You can disable Libero access to the Internet, or disable the automatic software update features. This is useful if your Internet access is inconsistent. To do so:

1. In the **Project** menu choose **Preferences** to open the Preferences dialog box.
2. Click **Software update** and choose the **Do not check for updates** or **remind me at startup** radio button.
3. Click **Internet Access** and uncheck **Allow Access to Internet**.
4. Click **OK** to continue.

1.7.3 Download Direct Cores and SgCore (SmartDebug) Cores to Populate your Vault

When you maintain a constant Internet connection, you are prompted for download of Cores required for your Libero project. If you plan to disconnect from the Internet, you must populate your vault after initial Libero SoC installation and before you disconnect from the Internet. To do so:

1. Launch the Libero SoC Software.
2. From the **View** menu, choose **Windows > Catalog** to open the Catalog.
3. Click **Download them now**. The download may take several minutes, depending on your Internet speed. The completion percentage is tracked in the progress bar.

The **Download them now** button disappears when the download is complete. The new cores are now available in your Catalog.

You may also download the Direct Cores and Sgcores at http://www.actel-ip.com/cwps/download_index/DirectCore and http://www.actel-ip.com/cwps/download_index/SgCore.

1.7.4 Download Firmware Cores

You can download Firmware Cores and store them in the same vault location as the DirectCore and Sg (SmartDesign) cores:

1. Access the Firmware Catalog from **All Programs > Microsemi > Libero SoC_<version> FirmwareCatalog**.
2. Click **Download them Now** to download the Firmware Cores. You may also download the Firmware Cores at http://www.actel-ip.com/cwps/download_index/Firmware.

After the initial setup is completed following the steps above, an Internet connection is no longer required for Libero operation. However, most documentation and silicon user's guides are available only from our website at <http://www.microsemi.com/products/fpga-soc/design-resources/design-software/libero-soc#documents>. Note that without an Internet connection, some hyperlinks in Libero log windows will be inaccessible.

2. References

- See the licensing information at, www.microsemi.com/products/fpga-soc/design-resources/licensing.
- View IP information at, <http://www.microsemi.com/products/fpga-soc/design-resources/ip-cores/direct-cores>.
- View the tool and device support for the various licenses at, www.microsemi.com/products/fpga-soc/design-resources/licensing.
- See the Libero License Selector Guide for more information about license offerings.
- See the [PCN17031](#) for the ceased operating system support.
- See the [CN17012](#): Customer Notification for the Libero SoC Software license offering changes.
- See www.microsemi.com/product-directory/design-resources/5092-ip-cores for Direct Core licenses.
- See www.microsemi.com/product-directory/technology/3861-imaging#imaging-software-and-ip for Video Cores licenses.
- See www.microsemi.com/applications/motor-control#ip-suite for Motor Control licenses.
- See the [PDN19017](#): Product Discontinuation Libero USB Dongle Licenses for discontinued Libero licenses.

3. Revision History

Revision	Date	Description
A	12/2020	Initial Revision

4. Microchip FPGA Technical Support

Microchip FPGA Products Group backs its products with various support services, including Customer Service, Customer Technical Support Center, a website, and worldwide sales offices. This section provides information about contacting Microchip FPGA Products Group and using these support services.

4.1 Customer Service

Contact Customer Service for non-technical product support, such as product pricing, product upgrades, update information, order status, and authorization.

- From North America, call **800.262.1060**
- From the rest of the world, call **650.318.4460**
- Fax, from anywhere in the world, **650.318.8044**

4.2 Customer Technical Support

Microchip FPGA Products Group staffs its Customer Technical Support Center with highly skilled engineers who can help answer your hardware, software, and design questions about Microchip FPGA Products. The Customer Technical Support Center spends a great deal of time creating application notes, answers to common design cycle questions, documentation of known issues, and various FAQs. So, before you contact us, please visit our online resources. It is very likely we have already answered your questions.

You can communicate your technical questions through our Web portal and receive answers back by email, fax, or phone. Also, if you have design problems, you can upload your design files to receive assistance. We constantly monitor the cases created from the web portal throughout the day. When sending your request to us, please be sure to include your full name, company name, and your contact information for efficient processing of your request.

Technical support can be reached at soc.microsemi.com/Portal/Default.aspx.

For technical support on RH and RT FPGAs that are regulated by International Traffic in Arms Regulations (ITAR), log in at soc.microsemi.com/Portal/Default.aspx, go to the **My Cases** tab, and select **Yes** in the ITAR drop-down list when creating a new case. For a complete list of ITAR-regulated Microchip FPGAs, visit the ITAR web page.

You can track technical cases online by going to [My Cases](#).

4.3 Website

You can browse a variety of technical and non-technical information on the Microchip FPGA Products Group [home page](#), at www.microsemi.com/soc.

4.4 Outside the U.S.

Customers needing assistance outside the US time zones can either contact technical support at (<https://soc.microsemi.com/Portal/Default.aspx>) or contact a local sales office.

Visit [About Us](#) for [sales office listings](#) and [corporate contacts](#).

The Microchip Website

Microchip provides online support via our website at www.microchip.com/. This website is used to make files and information easily available to customers. Some of the content available includes:

- **Product Support** – Data sheets and errata, application notes and sample programs, design resources, user's guides and hardware support documents, latest software releases and archived software
- **General Technical Support** – Frequently Asked Questions (FAQs), technical support requests, online discussion groups, Microchip design partner program member listing
- **Business of Microchip** – Product selector and ordering guides, latest Microchip press releases, listing of seminars and events, listings of Microchip sales offices, distributors and factory representatives

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Customer Support

Users of Microchip products can receive assistance through several channels:

- Distributor or Representative
- Local Sales Office
- Embedded Solutions Engineer (ESE)
- Technical Support

Customers should contact their distributor, representative or ESE for support. Local sales offices are also available to help customers. A listing of sales offices and locations is included in this document.

Technical support is available through the website at: www.microchip.com/support

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Note the following details of the code protection feature on Microchip devices:

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- There are dishonest and possibly illegal methods being used in attempts to breach the code protection features of the Microchip devices. We believe that these methods require using the Microchip products in a manner outside the operating specifications contained in Microchip's Data Sheets. Attempts to breach these code protection features, most likely, cannot be accomplished without violating Microchip's intellectual property rights.
- Microchip is willing to work with any customer who is concerned about the integrity of its code.
- Neither Microchip nor any other semiconductor manufacturer can guarantee the security of its code. Code protection does not mean that we are guaranteeing the product is "unbreakable." Code protection is constantly evolving. We at Microchip are committed to continuously improving the code protection features of our products. Attempts to break Microchip's code protection feature may be a violation of the Digital Millennium Copyright Act. If such acts allow unauthorized access to your software or other copyrighted work, you may have a right to sue for relief under that Act.

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