



Arm[®] Socrates[™] Installation Guide

Version 1.9.0

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Arm® Socrates™ Installation Guide

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This document (101400_010900_15_en) was issued on 2024-12-04. There might be a later issue at <https://developer.arm.com/documentation/101400>

The product version is 1.9.0.

See also: [Proprietary Notice](#) | [Product and document information](#) | [Useful resources](#)

Start Reading

If you prefer, you can skip to [the start of the content](#).

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1. The Socrates IP Tooling platform

Familiarize yourself with the Arm® Socrates™ IP Tooling platform, and the installation and setup procedures.

1.1 About Socrates

Socrates™ IP Tooling platform is an environment for exploring, configuring, and building Arm IP ready for integration into a *System on Chip* (SoC).

The following examples show you some of the ways you can use Socrates™.

Designing a SoC

If you want to:

- Investigate Arm® IP features, properties, and configuration options
- Use this information to decide which IP to use in your system or subsystem design
- See which IP you already have licenses for
- Provide your procurement team with a detailed list of part numbers for the IP that you want to license

You can:

- Browse the **IP Catalog** and view information in **Socrates Help**
- Filter the **IP Catalog** by IP name or supported protocols
- Export information from the **Bill of Materials** about required and alternative part numbers



Note

You can open Socrates without a license. This enables you to browse the **IP Catalog** and view the videos.

Managing IP packages

If you want to:

- Ensure that the **IP Catalog** stays up-to-date with the latest release information
- Make finding the location of downloaded IP easier
- Update the **IP Catalog** entries so they are correctly associated with the latest IP packages

You can:

- View notifications for product and **IP Catalog** updates
- Enter shared download locations for all licensed IP packages

- Enable automatic refreshing of associations

Develop a system with Arm IP

If you want to:

- Understand IP configuration options, interfaces, and protocols
- Integrate IP into a system
- Build IP-XACT and Verilog output
- Automate the configuration and build procedures

You can:

- Browse the **IP Catalog** and view technical documentation in **Socrates Help**
- Organize and configure IP in the **Project Explorer**
- See validation and configuration errors in the **Create Configured IP** window
- Automatically build simple IP as part of the configuration procedure
- Use the *Command Line Interface* (CLI), and script-based API, for script-based solutions

Creating a high-level view of a SoC design

If you want to:

- Create a high-level view of your SoC design, containing configured IP instances and their high-level connections
- Choose the most suitable interconnect IP for your design, based on the high-level connectivity requirements of the other IP in your design
- Use this high-level view for further refinement and development of your design

You can:

- Use the **System Specification**, from the **Generators** group in the **IP Catalog**, to create an empty System Specification
- Add instances of your required non-interconnect IP to the System Specification
- Use **Interconnect Assistant** to select, configure, and add the most suitable interconnect IP to the System Specification, automatically creating all the required high-level connections

1.2 Installation overview

Follow the installation checklist steps:

Procedure

1. Clean your environment if you have a previous Socrates™ installation, or a previous installation of any of the Socrates™ System Builder, Socrates™ DE, CoreLink™ Creator, or CoreSight™ Creator tools. Ensure that your environment meets the installation requirements, and install any missing prerequisite software. See [2. Setting up your environment](#) on page 7

2. Run and follow the installation wizard. See [3. Installing and starting the software](#) on page 10.
3. Set up the server daemons and licenses. See [4. Setting up licensing](#) on page 14. You only need to do this if this is the first time that you have installed a Socrates™ product, or if you want to change your licensing setup.

2. Setting up your environment

Check and implement the installation environment and software requirements.

2.1 Cleaning your environment

You can remove previous installations of Socrates™ software.

Remove any previous installation of Socrates™, or the prior products Socrates™ System Builder, Socrates™ DE, CoreLink™ Creator, or CoreSight™ Creator before installing the latest version.

To uninstall, go to the installation location and run the following commands:

```
$ cd <install location>
$ ./uninstall
```

If you receive a prompt requesting permission to delete leftover files, click **Yes**.

Ensure that the installation directory is empty. You can then restore the backed-up workspace, if applicable.

See the *Arm® Socrates™ Release Note* for more information on updating the tool version.

2.2 Installation requirements

Ensure that your software environment complies with the installation requirements.

An environment health check feature is provided with the installer. Use the health check to see the status of dependencies, and troubleshoot runtime issues. See [3.3 Installation Health Check script](#) on page 10.

The installation requirements are as follows:

- Red Hat® Enterprise Linux® 8.6 or later, 64-bit (Red Hat® Enterprise Linux® 7 no longer supported)
- At least 2.5GB of RAM
- At least 4GB of free disk space for the installation



Note

If the installation fails due to a lack of available disk space, follow the steps in [2.1 Cleaning your environment](#) on page 7 before you restart the installation procedure.

-
- At least 128MB space in your <home directory>

- Additional disk space depending on the number of user projects, and the size of the projects
- Certain libraries are necessary to successfully run and complete the installation. Use a package manager, for example `yum`, to find and install libraries. The required libraries are:
 - `redhat-lsb-core.i686`

**Note**

Depending on your Linux setup, you might require this library to allow the license manager to start automatically.

- `glibc.i686`
- `libxml2.i686`
- `libns1.x86_64`
- `libns1.i686`
- `libstdc++.i686`
- `zlib.x86_64` for 64-bit installations
- `libxml2.x86_64`
- `libxslt`

Missing libraries prompt an error message at installation or runtime, for example:

```
Xalan: error while loading shared libraries: libstdc++.so.5: cannot open shared
object file: No such file or directory
```

To free disk space after Linux library installations, run:

```
yum clean all
```

For more information about installing and using packages, see the Known Issues section of the *Arm® Socrates™ Release Note*.

2.3 Memory settings

To ensure that your Socrates™ installation runs correctly, you can change the default settings for Java heap space.

By default Socrates uses an initial heap size (`-xms`) of 2GB and a maximum heap size (`-xmx`) of 2GB.

Increasing the initial heap size can improve start up performance. Increasing the maximum heap size enables you to configure large configurations, such as those possible with Arm® CoreLink™ CMN-600 Coherent Mesh Network.

To update the heap sizes:

1. Open <install location>/ARM-Socrates.ini.
2. Edit the following lines, where g stands for gigabytes.

```
-Xms2g  
-Xmx2g
```

3. Installing and starting the software

Install and run the Socrates™ IP Tooling platform.

3.1 Product packages

Socrates™ is delivered in a product package.

Socrates™ functionality is enabled with FlexNet licenses. See [4. Setting up licensing](#) on page 14.

If you are a product licensee, you can download the product package for your IP from <http://developer.arm.com/downloads>.

3.2 Installing Socrates

There is a wizard to guide you through the installation process.

About this task

If you have an earlier installation of any Socrates™ tool, uninstall it before installing the current version. See [2.1 Cleaning your environment](#) on page 7 for more information.

To prepare for installation and start the installation wizard:

Procedure

1. Change to the directory of the unpacked installer package:

```
$ cd <path to ARM-Socrates-x.x.x-Linux-x86-64-Install> where x.x.x is the three or four-digit release number
```
2. You must have execute permissions to run the installer. To make the installer executable, run:

```
$ chmod +x ARM-Socrates-x.x.x-Linux-x86-64-Install
```
3. Start the installer:

```
$ ./ARM-Socrates-x.x.x-Linux-x86-64-Install
```



Note

During the installation procedure, you are prompted for an installation location. This location must be either an empty directory or a non-existent directory. If no directory exists, Socrates™ creates one. When the installation is complete, do not move the installation directory location.

4. The installation wizard opens. Follow the on-screen instruction to install.

3.3 Installation Health Check script

Arm® provides an Installation Health Check script. This script is run as part of the standard installation.

The script uses your current environment settings to check required dependencies, and to identify common installation problems. The script can be found in your installation directory, in `<install location>/etc/install/health_check`, named `checkInstallation.sh`.

The results of the Installation Health Check are presented as the final step of the installation wizard.

3.4 Starting Socrates

Use the `socrates.sh` command or double-click the Socrates™ icon to start Socrates™.

You can run `socrates.sh` directly from the installation location, through an alias to the installation location, or you can add the installation location to your path variable.

The Installation Health Check script runs the first time that you start the software, or the first time that you run a new version.

Depending on the licenses available to you, you might be asked to select a license.

When you restart Socrates™, select a workspace for your projects. The default Workspace area is created in `<home directory>/armSocrates/workspace`.

3.5 Troubleshooting

Identify and resolve troubleshooting issues that are associated with setting up licensing, and installing or running the software using the following information.

For a list of known technical issues and solutions for your version of Socrates™, see the *Arm® Socrates™ Release Note*.



As a first step in troubleshooting issues, Arm® recommends that you run the Installation Health Check script. See [3.3 Installation Health Check script](#) on page 10 for more instructions.

3.5.1 Cannot restore segment prot after reloc error

This error occurs when starting Socrates™.

File permissions conflict

A file permissions conflict due to a Linux security feature causes this error.

Solution

- Turn off the security feature by navigating to `/etc/selinux/config` and using the following command `SELINUX=disabled`
- Allow libraries to be relocated in memory using the following command `chcon -t texrel_shlib_t /opt/cubrid/lib/libcubridsa.so.8`

3.5.2 Java runtime environment fatal error

Memory access violation

You receive the following error message:

```
# A fatal error has been detected by the Java Runtime Environment:
#
# SIGSEGV (0xb) at pc=0x00000036a6e471d0,pid=1958, tid=139794478638848
#...
```

This error represents a memory access violation that is caused by a conflict between some versions of Eclipse® and RealVNC®.

Solution

Update to RealVNC Server version 5.0.5 or later.

3.5.3 IP Catalog association I/O error

This error can occur when associating IP in the IP Catalog.

IO error

You receive the following error message:

```
An IO error was encountered when walking the file tree starting at: ...
```

The behavior can occur when long paths are required to reference IP packages in shared Windows® and Linux locations.

Solution

Shorten the paths required to reference IP packages in shared Windows and Linux locations.

3.5.4 Workspace name cannot contain space character

Workspace name contains a space character that is shown by a red cross

If the workspace name contains the space character, for example `my workspace`, then it is shown in the **Data Explorer** with a red cross,

Solution

Modify the workspace name.

3.5.5 Help content or training videos do not open

Some Socrates™ help content and training videos load in an external web browser. Your default browser is normally used. Sometimes the help content does not open.

Your default browser is not set in Socrates

In some environments your default web browser might not be set in Socrates™.

Solution

1. Select **Window > Preferences > General > Web Browser**
2. Click **New**
3. Enter a name for your browser
4. Enter the location of your browser
5. Click **OK**
6. Tick the checkbox next to your browser to set it as the default external web browser

4. Setting up licensing

Set up the license server on a Linux platform. This enables runtime functionality.

4.1 User-Based Licensing

Previously, Arm development tools and models have been provided with either Node-Locked (NL) or Floating (FL) licenses. Arm are now migrating to User-based Licensing. User-based Licensing is a new licensing implementation that provide two license management models:

- Arm cloud license server, where your license entitlements are hosted on an Arm-managed server. Client user devices enable licenses using activation codes that are managed on the Arm User-based licensing portal by your administrator. If you have relatively few users, this is usually the easiest and fastest way of providing licenses for your users.
- A local license server where your license entitlements are managed on a local machine managed by your administrator. This model is more suitable if you have many users or your users have no access to the internet.

If you are new to UBL, we recommend using the resources in this order:

- <https://developer.arm.com/documentation/109727/latest/>. This provides more information on how to select the license model that should work best for you.
- <https://developer.arm.com/documentation/107573/latest/>. This provides in-depth information on how you can implement either licensing models.
- <https://developer.arm.com/documentation/102516/latest/>. This provides Information on how users can license their Arm Development tools.

For further details on licensing, please visit our [support page](#).

4.2 Setting up the floating license environment

Socrates™ uses FlexNet License Management from Flexera® Software. The license setup depends on the product licenses that you have. Set up your licensing environment using the following steps.

Generate and download the license files

1. Log in to the Arm® licensing portal <https://developer.arm.com/support/licensing>.
2. Enter your product serial number. If you have more than one product, enter the serial numbers individually. Contact your Arm® account manager to obtain the appropriate serial numbers.
3. Enter machine host ID and other requested information.
4. Click **Save** to download a `license.dat` file.

Install the license daemon

The license daemon `armlmd` is required to host the licenses used by Socrates IP Tooling Platform. Download `armlmd` from <https://silver.arm.com/browse/BX002>. Use the search term **BX002 - FLEXnet binaries and utilities**.

Check the license daemon

Ensure that `armlmd` is correctly installed. Run:

```
cd BX002-PT-00004-r11p15-00re10
./lmutil lmver armlmd
```

Check that the output is the `armlmd` information, as follows. Take particular note of the version:

```
lmutil - Copyright (c) 1989-2017 Flexera Software LLC. All Rights Reserved.
FlexNet Licensing v11.15.0.0 build 215548 (ipv6) x64_lsb (liblmgr.a), Copyright
(c) 1988-2017 Flexera Software LLC. All Rights Reserved.
```

Edit the license files

Edit the license files for your application to enter the path to the `armlmd` license server daemon. Set the daemon ports, and the server hostname and host ID.

Set the environment variables on client workstations

Set the environment variable `ARMLMD_LICENSE_FILE` to the location of the `armlmd` license files, for example `27001@testserver.com`.

Start the license daemons on the server

To start the license daemon for the Socrates™ IP Tooling Platform, run:

```
/home/arm/Licensing/lmgrd -c /home/arm/Licensing/armlmd_lic.dat
-l /home/arm/armlmd_lic_log.log
```

This command invokes the `armlmd` daemon, and saves the daemon log to `/home/arm/armlmd_lic_log.log`.

4.3 Required licenses

Socrates™ uses several different licenses. The specific licenses that you have determine which IP you are able to configure and build.

Start-up without a license

You can start up Socrates without a license. Select the **No License** option.

Socrates licenses

To start Socrates™, and configure most IP, you must have at least one of the following Socrates™ licenses:

- A full `socrates` license.
- A `socrates_config_only` license, which enables you to configure Arm IP, but not build.
- A legacy `system_builder` or `socrates_flexibleaccess_ms` license, which gives the same functionality as the full license.

- A valid user based license, for example, Hardware Success Kit.

IP licenses

Socrates™ uses several different licenses for configuring and building specific IPs. The User-Based Licensing (UBL) acquired through the Hardware Success Kit covers only the base Socrates license.

You can configure most IP without having a license for it. However, to build IP-XACT and Verilog output you must download a licensed IP package to your system and associate it with the corresponding entry in the **IP catalog**. For more information, see the [Arm® Socrates™ User Guide](#).

For information on additional licenses required for some IP products, see *Arm® Socrates™ Release Note*.

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110 Fulbourn Road, Cambridge, England CB1 9NJ.

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Product and document information

Read the information in these sections to understand the release status of the product and documentation, and the conventions used in the Arm documents.

Product status

All products and Services provided by Arm require deliverables to be prepared and made available at different levels of completeness. The information in this document indicates the appropriate level of completeness for the associated deliverables.

Product completeness status

The information in this document is Final, that is for a developed product.

Revision history

These sections can help you understand how the document has changed over time.

Document release information

The Document history table gives the issue number and the released date for each released issue of this document.

Document history

Issue	Date	Confidentiality	Change
1.9.0-15	4 December 2024	Non-Confidential	First release for 1.9.0 for Socrates REL
1.8.1-14	21 March 2024	Non-Confidential	First release for 1.8.1 for Socrates REL
1.8.0-13	31 January 2024	Non-Confidential	First release for 1.8.0 for Socrates REL
1.7.10-12	8 September 2023	Non-Confidential	First release for 1.7.10 for Socrates REL
1.7.9-11	15 August 2023	Non-Confidential	First release for 1.7.9 for Socrates REL
1.7.8-10	21 July 2023	Non-Confidential	First release for 1.7.8 for Socrates REL

Issue	Date	Confidentiality	Change
1.7.7-09	30 June 2023	Non-Confidential	First release for 1.7.7 for Socrates REL
1.7.6-08	4 April 2023	Non-Confidential	First release for 1.7.6 for Socrates REL
1.7.5-07	27 February 2023	Non-Confidential	First release for 1.7.5 for Socrates REL
1.7.3-06	30 September 2022	Non-Confidential	First release for 1.7.3 for Socrates REL
1.7.2-05	31 August 2022	Non-Confidential	First release for 1.7.2 for Socrates REL
1.7.1-04	17 June 2022	Non-Confidential	First release for 1.7.1 for Socrates REL
1.7.0-03	15 February 2022	Non-Confidential	First release for 1.7.0
1.6.1-02	10 August 2021	Non-Confidential	First release for 1.6.1
1.6.0-01	18 June 2021	Non-Confidential	First release for 1.6.0. Document issue numbering style updated.
0105-01	23 October 2020	Non-Confidential	Second release for 1.5
0105-00	25 September 2020	Non-Confidential	First release for 1.5
010401-00	12 June 2020	Confidential	First release for 1.4.1
0104-00	6 February 2020	Confidential	First release for 1.4
010304-00	1 October 2019	Confidential	First release for 1.3.4
010303-00	16 July 2019	Confidential	First release for 1.3.3
010302-00	24 May 2019	Confidential	First release for 1.3.2
010301-00	18 March 2019	Confidential	First release for 1.3.1
0103-00	8 February 2019	Confidential	First release for 1.3

Issue	Date	Confidentiality	Change
0102-00	23 November 2018	Confidential	First release for 1.2
0100-00	20 July 2018	Confidential	First release for 1.0

The Change history tables describe the technical changes between released issues of this document in reverse order. Issue numbers match the revision history in [Document release information](#) on page 19.

Table 2: Differences between issue 1.8.1-14 and issue 1.9.0-15

Change	Location
Updated information about Red Hat requirements and support (version 7 no longer supported, version 8 required)	2.2 Installation requirements on page 7
Updated the license information with UBL section.	4.3 Required licenses on page 15

Table 3: Differences between issue 1.8.0-13 and issue 1.8.1-14

Change	Location
Updated information about changing memory setting for Java heap sizes	2.3 Memory settings on page 8

Table 4: Differences between issue 1.7.10-12 and issue 1.8.0-13

Change	Location
Updated Red Hat operating system information	2.2 Installation requirements on page 7

Table 5: Differences between issue 1.7.9-11 and issue 1.7.10-12

Change	Location
No technical or functional changes	-

Table 6: Differences between issue 1.7.8-10 and issue 1.7.9-11

Change	Location
No technical or functional changes	-

Table 7: Differences between issue 1.7.7-09 and issue 1.7.8-10

Change	Location
No technical or functional changes	-

Table 8: Differences between issue 1.7.6-08 and issue 1.7.7-09

Change	Location
No technical or functional changes	-

Table 9: Differences between issue 1.7.5-07 and issue 1.7.6-08

Change	Location
No technical or functional changes	-

Table 10: Differences between issue 1.7.3-06 and issue 1.7.5-07

Change	Location
Changed terminology from "bundles" to "packages"	Throughout

Table 11: Differences between issue 1.7.1-04 and issue 1.7.2-05

Change	Location
Updated information and terminology for IP delivery	Throughout, including 4. Setting up licensing on page 14

Table 12: Differences between issue 1.7.0-03 and issue 1.7.1-04

Change	Location
Updated document version for 1.7.1 REL release	-
Updated Red Hat operating system information	2.2 Installation requirements on page 7

Table 13: Differences between issue 1.6.1-02 and issue 1.7.0-03

Change	Location
Added requirement for 128MB space in <home directory>, removed out-of-date information	2.2 Installation requirements on page 7
Removed out-of-date GTK section	-
Updated troubleshooting format	3.5 Troubleshooting on page 11

Table 14: Differences between issue 1.6.0-01 and issue 1.6.1-02

Change	Location
Updated configuration licenses information	4.3 Required licenses on page 15

Table 15: Differences between issue 0105-01 and issue 1.6.0-01

Change	Location
Editorial changes, including product version and document issue styles	Throughout
Updated reference to Arm Flexible Access	3.1 Product packages on page 10
Updated description of product version	3.2 Installing Socrates on page 10
Added reference to Release Note	3.5 Troubleshooting on page 11
Added Troubleshooting section	3.5.5 Help content or training videos do not open on page 13
Updated license information	4.3 Required licenses on page 15

Table 16: Differences between issue 0105-00 and issue 0105-01

Change	Location
No technical or functional changes	-

Table 17: Differences between issue 010401-00 and issue 0105-00

Change	Location
First Non-Confidential release	-

Table 18: Differences between issue 0104-00 and issue 010401-00

Change	Location
Updated installation instructions to version 1.4.1 and reworded for clarity	3.2 Installing Socrates on page 10

Change	Location
Updated licenses for CMN-600AE	4.3 Required licenses on page 15

Table 19: Differences between issue 010304-00 and issue 0104-00

Change	Location
Updated information for product package downloading	3.1 Product packages on page 10
Clarified third-party requirements <code>compat-libstdc++</code> for RHEL6 and RHEL7	2.2 Installation requirements on page 7
Added new information regarding starting Socrates™	3.4 Starting Socrates on page 11
Added configuration only license information	4.3 Required licenses on page 15

Table 20: Differences between issue 010303-00 and issue 010304-00

Change	Location
Added new license information for CMN products	4.3 Required licenses on page 15

Table 21: Differences between issue 010302-00 and issue 010303-00

Change	Location
Added new Arm Flexible Access license information	4.3 Required licenses on page 15

Table 22: Differences between issue 010301-00 and issue 010302-00

Change	Location
Updated to 1.3.2 release	-

Table 23: Differences between issues 0103-00 and issue 010301-00

Change	Location
Updated FlexNet Licensing version	4.2 Setting up the floating license environment on page 14
Updated description of <code>arm_corelink_cmn_600_cml</code>	4.3 Required licenses on page 15

Table 24: Differences between issues 0102-00 and issue 0103-00

Change	Location
Updated for 1.3 requirements	2.2 Installation requirements on page 7
Added information about changing memory setting for Java heap sizes	2.3 Memory settings on page 8

Table 25: Differences between issues 0101-00 and issue 0102-00

Change	Location
Updated for 1.2 requirements	3.2 Installing Socrates on page 10

Table 26: Issue 0101-00

Change	Location
First release	-

Conventions

The following subsections describe conventions used in Arm documents.

Glossary

The Arm Glossary is a list of terms used in Arm documentation, together with definitions for those terms. The Arm Glossary does not contain terms that are industry standard unless the Arm meaning differs from the generally accepted meaning.

See the Arm Glossary for more information: developer.arm.com/glossary.

Typographic conventions

Arm documentation uses typographical conventions to convey specific meaning.

Convention	Use
<i>italic</i>	Citations.
bold	Interface elements, such as menu names. Terms in descriptive lists, where appropriate.
monospace	Text that you can enter at the keyboard, such as commands, file and program names, and source code.
monospace <u>underline</u>	A permitted abbreviation for a command or option. You can enter the underlined text instead of the full command or option name.
<and>	Encloses replaceable terms for assembler syntax where they appear in code or code fragments. For example: <pre>MRC p15, 0, <Rd>, <CRn>, <CRm>, <Opcode_2></pre>
SMALL CAPITALS	Terms that have specific technical meanings as defined in the Arm® Glossary. For example, IMPLEMENTATION DEFINED , IMPLEMENTATION SPECIFIC , UNKNOWN , and UNPREDICTABLE .



Caution

We recommend the following. If you do not follow these recommendations your system might not work.



Warning

Your system requires the following. If you do not follow these requirements your system will not work.



Danger

You are at risk of causing permanent damage to your system or your equipment, or of harming yourself.

**Note**

This information is important and needs your attention.

**Tip**

This information might help you perform a task in an easier, better, or faster way.

**Remember**

This information reminds you of something important relating to the current content.

Useful resources

This document contains information that is specific to this product. See the following resources for other useful information.

Access to Arm documents depends on their confidentiality:

- Non-Confidential documents are available at developer.arm.com/documentation. Each document link in the following tables goes to the online version of the document.
- Confidential documents are available to licensees only through the product package.

Arm product resources	Document ID	Confidentiality
Arm® Socrates™ User Guide	101399	Non-Confidential
Arm® Socrates™ Release Note	107828	Confidential