RealView Development Suite v4.1 Installation Guide for Windows and Red Hat Linux

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Release Information

The following changes have been made to this book.

Change History

Date	Issue	Confidentiality	Change
September 2003	Α	Non-Confidential	RealView Developer Suite v2.0 Release
January 2004	В	Non-Confidential	RealView Developer Suite v2.1 Release
December 2004	С	Non-Confidential	RealView Developer Suite v2.2 Release
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Product Status

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

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1 System requirements

The minimum specification of computer for use with ARM® RealView® Development Suite (RVDS) v4.1 must have a 1GHz Pentium III class processor with 512MB of system memory.

The recommended specification is a Pentium 4 class machine with 1GB of memory.

See the following sections for more details:

- · Supported platforms
- DSTREAM and RealView ICE host software.

Note	
- Note	

If you have RVDS Professional edition, the minimum recommended specification for ARM Profiler is a 2GHz dual-core processor with 1GB of memory.

1.1 Supported platforms

RVDS v4.1 is supported on:

- Windows 7 Enterprise Edition
- · Windows 7 Professional Edition
- Windows Vista Business Edition SP2
- Windows Vista Enterprise Edition SP2
- Windows XP Professional SP3
- · Windows Server 2003 (ARM Compiler toolchain only)
- · Solaris 10 (ARM Compiler toolchain only)
- · Red Hat Enterprise Linux 4 WS for Intel x86 using Gnome Window Manager and bash Shell
- Red Hat Enterprise Linux 5 Desktop+ Workstation option, Standard for Intel x86 using Gnome Window Manager and bash Shell.

All tools support both 32-bit and 64-bit versions of these operating systems where available. However, ARM DSTREAM™ and RealView ICE do not support 64-bit versions of Red Hat Linux. Also 64-bit USB drivers are not provided for Windows 7 and Windows Vista, and the 32-bit drivers do not work on these platforms.

---- Note

RVDS v4.1 uses the FLEX*net* license management software, owned by Flexera Software Inc. To use floating licenses, TCP/IP networking must be configured and running on every relevant computer. See the *FLEXnet for ARM® Tools License Management Guide v4.3* for more information.

1.2 DSTREAM and RealView ICE host software

The latest version of the DSTREAM and RealView ICE host software available at the time of the RVDS v4.1 release is installed with the **Full** product selection. However for:

- hardware debugging you require a DSTREAM or RealView ICE run control unit connected to the host using TCP/IP or USB
- capturing and analyzing trace with RealView Debugger from an Embedded Trace Buffer™ (ETB™) you
 require a DSTREAM or RealView ICE run control unit connected to the host using TCP/IP or USB
- capturing and analyzing trace with RealView Debugger from an Embedded Trace Macrocell" (ETM")
 you require a RealView Trace or RealView Trace 2 data capture unit connected to the host through a
 RealView ICE run control unit
- hardware profiling you require a RealView ICE run control unit connected to the host using TCP/IP or USB in conjunction with a RealView Trace 2 data capture unit connected to the host using USB.

—— Note

RealView Debugger does not support tracing from the external trace port of a SoC with DSTREAM.

You must purchase the DSTREAM, RealView ICE, RealView Trace, and RealView Trace 2 hardware separately, depending on your debug and trace requirements. When you purchase the DSTREAM or RealView ICE hardware, a version of the DSTREAM and RealView ICE host software is included. See ARM DSTREAM Setting Up the Hardware or ARM RVI and RVT Setting Up the Hardware for more information.

Networking software

To make a remote connection to target hardware with a DSTREAM or RealView ICE unit, your operating system must be installed with its supplied networking software.

2 Installing RealView Development Suite on Windows

To install RVDS v4.1, you can:

- · use the ARM RealView Software Wizard, and follow the on-screen prompts
- run the command-line installer, which is useful for installing from a batch file for unattended installations (see Installing RealView Development Suite from the command line on page 7).

(see Installing RealView Development Suite from the command line on page 7).	
Note	
RVDS does not support multiple concurrent installations. Uninstall any other versions of RVDS be installing this RVDS v4.1.	fore
See the following sections for more details:	
Installing on Windows with the ARM RealView Software Wizard	
 Modifying or uninstalling RealView Development Suite on page 4. 	
Note	
The product must be installed from an account with administrator privileges.	
Note	

It is recommended that you read the release notes for important information about this release before

2.1 Installing on Windows with the ARM RealView Software Wizard

To install RVDS v4.1:

1. Do one of the following:

continuing with the installation.

- If you are installing RVDS from a CD, insert the CD into the CD-ROM drive.
 - The ARM RealView Software Wizard starts automatically. If it does not start, run the program setup . exe in the top-level directory of the CD-ROM.
- If you are installing a patch, download the patch from the ARM website and run $\mathtt{setup.exe.}$
- 2. Follow the on-screen prompts to install RVDS.

The Customize panel of the ARM RealView Software Wizard lists all component software options. Select:

- · Full to install all component software. This is the default option.
- No Documentation to install the default component software without documentation.
- · ARM Compiler Only to install only the ARM Compiler toolchain.
- · RVD Only to install only RealView Debugger.
- . RVI Only to install only the DSTREAM and RealView ICE host software.

To choose your own set of installation options, then select or deselect the options as required. The installation type changes to ${\tt Custom}$.

Not	e 		
You can set u	p or modify the environment variable	les after the installation is	complete by using the
armeny tool	(see the RealView® Development Se	uite Getting Started Guide	e for more details).

- 3. Continue with the installation.
- 4. When the software installation is complete, the ARM License Wizard is launched. If you already have a network FLEXnet license server set up and running, or if you want to defer installing a license to a later time, click Cancel. Otherwise, follow the prompts to install your license file or go to the ARM licensing web site to obtain a license.
- 5. When the Mentor Graphics Nucleus support installation dialog box is displayed:
 - If you do not want to download the Nucleaus support files, select Continue with Installation, then click Next. The Nucleus support dialog box closes and the installation continues.
 - To download the Nucleaus support files, select Download Mentor Graphics Nucleus support files, then click Next. The ARM Login web page web opens in your web browser, and the installation continues. After the installation completes, log into your ARM account or click Register

to create a new account. After you have logged in, select **Downloads** to access the downloads page. Expand the **Software Development Tools** group and click **RealView Development Suite** (RVDS) **4.0**. A list of Public Downloads is displayed that includes RVDS4.x support **MentorGraphics Nucleus**. Click **Download Now** for that item and follow the download instructions.

If you installed the DSTREAM and RealView ICE host software, see Completing the DSTREAM and RealView ICE host software installation on page 10 for additional steps that are required to complete the installation of the DSTREAM or RealView ICE unit.

— Note

On Windows platforms, RVDS depends on C runtime libraries from Microsoft Visual Studio 2005 Service Pack 1 release. The Microsoft installer for the C library, vcredist_x86_2005spl_atl_fix.exe, is started automatically after you complete the RVDS installation. The Microsoft installer might require a reboot of your computer.

2.2 Modifying or uninstalling RealView Development Suite

To modify or uninstall RVDS:

- 1. Make sure that no RVDS component is running before you start.
- Select Start → Programs → ARM → Modify or Uninstall RVDS 4.1 edition to launch the ARM RealView Software Wizard
- 3. Follow the on-screen prompts.
- 4. On the Product Setup panel, select:
 - Modify to change the installed components
 - Uninstall to completely remove RVDS from your computer.
- 5. If you are prompted to reboot, you must reboot your computer to complete the uninstall.

Note -

RealView Debugger stores DSTREAM and RealView ICE configuration (RVConfig .rvc) files in your RealView Debugger home directory. The default RealView Debugger home directory is:

"%APPDATA%\ARM\rvdebug\4.1.2"

When RVDS is uninstalled, the files in this directory are not removed.

3 Installing RealView Development Suite on Red Hat Linux

To install RVDS v4.1, you can:

- use the ARM RealView Software Wizard, and follow the on-screen prompts
- run the command-line installer, which is useful for installing from a batch file for unattended installations (see Installing RealView Development Suite from the command line on page 7).

Note	
RVDS does not support multiple concurrent installations. Uninstall any other veinstalling this RVDS v4.1.	rsions of RVDS before

See the following sections for more details:	
Installing on Red Hat Linux with the ARM RealView Software Wizard	
Modifying or uninstalling RealView Development Suite on page 6.	
Note	
Do not install as root, or other privileged user. If you do, then configuration files that might have to be modified by other RealView components (such as DSTREAM or RealView ICE) cannot be changed can cause configuration failures.	
Note Read the release notes for important information about this release before continuing with the insta	llation
The article and the release for the product and release series containing with the mode	ilatioi

Installing on Red Hat Linux with the ARM RealView Software Wizard

To install RVDS v4.1:

- Insert the CD into the CD-ROM drive.
- 2. If the CD-ROM drive does not automount:
 - a. su as root.
 - b. Mount the CD-ROM drive by typing:

mount device mount-dir

where device is the path of your CD-ROM drive, for example /dev/cdrom, and mount-dir is the path to an existing directory where the CD-ROM is to be mounted, for example, /mnt/cdrom

- c. Exit as root.
- 3. Move to the top-level CD-ROM directory. For example:

cd /mnt/cdrom

4. Start the ARM RealView Software Wizard:

setuplinux.bin

5. Follow the on-screen prompts to install RVDS.

The Customize panel of the ARM RealView Software Wizard lists all component software options. Select:

- Full to install all component software. This is the default option.
- No Documentation to install the default component software without documentation.
- ARM Compiler Only to install only the ARM Compiler toolchain.
- RVD Only to install only RealView Debugger.
- RVI Only to install only the DSTREAM and RealView ICE host software.

To choose your own set of installation options, select or deselect the options as required. The installation type changes to Custom.

Note ———
You can set up or modify the environment variables after the installation is complete by using the
armenv tool (see the RealView® Development Suite Getting Started Guide for more details).

6. Before you continue with the installation, you must export your RVDS license.

 Note		

The ARM License Wizard is not available on Red Hat Linux.

The installer generates a script file that sets up the environment variables for RVDS v4.1, install_directory/RVDS41env.posh.

Use the source command with the appropriate shell script to add the new environment to the current shell. You can also generate these shell script files using the armenv tool. See the RealView® Development Suite Getting Started Guide for more details.

If you installed the DSTREAM and RealView ICE host software, see Completing the DSTREAM and RealView ICE host software installation on page 10 for additional steps that are required to complete the installation of the DSTREAM or RealView ICE unit.

3.2 Modifying or uninstalling RealView Development Suite

To modify or uninstall RVDS:

- 1. Make sure that no RVDS component is running before you start.
- 2. Start the ARM RealView Software Wizard:

setuplinux.bin

- 3. Follow the on-screen prompts.
- On the Product Setup panel, select:
 - Modify to change the installed components
 - Uninstall to completely remove RVDS from your computer.
- 5. Follow the instructions to complete the required action.

Note	
RealView Debugger stores DSTREAM and RealView ICE configuration (RVConfig .rvc) files in your configuration (R	our

RealView Debugger home directory. The RealView Debugger home directory is:

-. / xxx

When RVDS is uninstalled, the files in this directory are not removed.

Uninstalling multiple ARM products

To uninstall multiple ARM products, do one of the following:

- Run the install_directory/bin/uninstall.sh command.
- Launch the ARM RealView Software Wizard with the -unistall option:

setuplinux.bin -uninstall

If you specify the uninstall option without the - prefix, then you must also specify the ARM product to uninstall (see *Uninstalling from the command line* on page 9 for details).

4 Installing RealView Development Suite from the command line

You can install RVDS using a CLI command:

- · On Windows, use:
 - setupcli.exe
- · On Red Hat Linux, use:

setupclilinux.bin

Note —

RVDS does not support multiple concurrent installations. Uninstall any other versions of RVDS before installing this RVDS v4.1.

These commands perform a non-interactive installation of RVDS. Use command-line options to specify the location, level, and the product variant for the installation. See the following sections for more details:

- · Getting help on the command line installer
- Installing on Windows
- Installing on Red Hat Linux on page 8
- Choosing the level of installation on page 8
- Installing a variant on a non-native platform on page 8
- Uninstalling from the command line on page 9
- Product syntax for command-line uninstaller on page 9
- Variant syntax for command-line uninstaller on page 9.

----- Note -----

Also see Completing the DSTREAM and RealView ICE host software installation on page 10 for additional steps that are required to complete the installation of the DSTREAM or RealView ICE unit.

4.1 Getting help on the command line installer

You can get help on the command line installer:

· On Windows, enter:

setupcli.exe help [command]

· On Red Hat Linux, enter:

setupclilinux.bin help [command]

4.2 Installing on Windows

If the CD is in drive D:, and C:\Program Files\ARM is your chosen installation directory, enter the following command:

D:\setupcli.exe install --source D: --target "C:\Program Files\ARM" --env SYSTEM

If you prefer to set up the user environment rather than the system environment, specify --env USER instead. This restricts the environment settings to your login on the computer.

You can also install RVDS to a network share, but each user must then setup their environment to run RVDS as follows:

```
cd "W:\ARM\bin\win_32-pentium"
armenv --system -p RVDS
```

During installation, the installer asks you to agree to the End User License Agreement (EULA). Enter yes.

Note ____

The product must be installed from an account with administrator privileges.



On Windows platforms, RVDS depends on C runtime libraries from Microsoft Visual Studio 2005 Service Pack 1 release. Before you use RVDS, you must run the Microsoft installer for the C library,

install_directory\Redistributables\MSVC\8.0sp1_atl_fix\3\vcredist_x86_2005sp1
_atl_fix.exe. The Microsoft installer might require a reboot of your computer.

4.3 Installing on Red Hat Linux

If the media is mounted as /mnt/cdrom and /opt/ARM/RVDS is your chosen installation directory, enter the following command:

```
/mnt/cdrom/setupclilinux.bin install --source /mnt/cdrom \
--target "/opt/ARM/RVDS"
```

During installation, the installer asks you to agree to the EULA. Enter yes.

4.4 Choosing the level of installation

You can choose the level of installation with the optional --level <code>option</code> argument, where <code>option</code> can be one of the following:

- Full to install all component software. This is the default option.
- · No Documentation to install all component software without documentation.
- · ARM Compiler Only to install only the ARM Compiler toolchain.
- RVD Only to install only RealView Debugger.
- . RVI Only to install only the DSTREAM and RealView ICE host software.

For example, to install only the ARM Compiler toolchain, enter the following command:

On Windows:

```
D:\setupcli.exe install --source D: --target "C:\Program Files\ARM" --env SYSTEM --level "ARM Compiler Only"
```

On Red Hat Linux:

```
/mnt/cdrom/setupclilinux.bin install --source /mnt/cdrom \
--target "/opt/ARM/RVDS" --level "ARM Compiler Only"
```

4.5 Installing a variant on a non-native platform

You can install the Windows or Red Hat Linux variant of RVDS on a non-native platform. For example, you might install the Red Hat Linux variant as a shared installation on a Windows server, because some of your users are using Red Hat Linux.

To install RVDS on a non-native platform, use the --var platform [win32|linux] argument to specify the non-native platform. For example, to install the Red Hat Linux variant of RVDS on Windows, enter:

```
D:\setupcli.exe install --source D: --target "C:\Program Files\ARM" --var platform linux --shared
```

See Variant syntax for command-line uninstaller on page 9 for details on the syntax of --var.

--shared prevents non-native elements of the installer from running. In this example, elements such as adding items to the Gnome Application menu are not performed.

Installing both variants on a single platform

To install both the Windows and Red Hat Linux variants of RVDS on a single platform, for example on Red Hat Linux:

1. Install the Red Hat Linux variant:

```
/mnt/cdrom/setupclilinux.bin install --source /mnt/cdrom \
--target "/opt/ARM/RVDS"
```

2. Install the Windows variant:

```
/mnt/cdrom/setupclilinux.bin install --source /mnt/cdrom \
--target "/opt/ARM/RVDS" --var platform win 32 --shared
```

--shared prevents non-native elements of the installer from running. In this example, elements such as launching the ARM License Wizard and adding items to the Windows Start menu are not performed.

4.6 Uninstalling from the command line

You can uninstall RVDS from the command line:

On Windows, enter:

```
setupcli.exe uninstall --product product [--var variant] --root root
[--shared]
```

· On Red Hat Linux, enter:

setupclilinux.bin uninstall --product product [--var variant] --root root

See Product syntax for command-line uninstaller for details on the syntax for product.

See Variant syntax for command-line uninstaller for details on the syntax for variant.

--root root is the root of your installation, for example "C:\Program Files\ARM".

--shared prevents non-native elements of the uninstaller from running. For example, when uninstalling a Windows variant on Red Hat Linux, elements such as removing the ARM License Wizard and removing items from the Windows Start menu are not performed. See Installing a variant on a non-native platform on page 8.

----- Note --

RealView Debugger stores DSTREAM and RealView ICE configuration (RVConfig .rvc) files in your RealView Debugger home directory:

· On Windows, the default RealView Debugger home directory is:

"%APPDATA%\ARM\rvdebug\4.1.2

· On Red Hat Linux, the RealView Debugger home directory is:

~/rvd

When RVDS is uninstalled, the files in these directories are not removed.

Note —

To uninstall multiple ARM products, prefix the uninstall option with a hyphen. Do not include any other option, for example:

setupcli.exe -uninstall

4.7 Product syntax for command-line uninstaller

The syntax for specifying the product in the command-line unistaller is:

--product category Contents version revision

where:

category The product identifier, for example, RVDS.

version The version number of the product, for example, 4.1.

revision A specific build number for the product, for example 105.

For example, to uninstall RVDS v4.1 on Windows, enter:

setupcli.exe uninstall --product RVDS Contents 4.1 105 --root "C:\Program Files\ARM"

4.8 Variant syntax for command-line uninstaller

The syntax for specifying the variant in the command-line unistaller is:

--var name value [name value]...

It identifies the variant of the product to be uninstalled:

name The type of the variant, for example, platform, it is recommended that you use only the

platform variant.

value The specific variant, either linux or win_32.

For example, to uninstall the Red Hat Linux variant of RVDS v4.1, build 105, enter:

setupclilinux.bin uninstall --product RVDS Contents 4.1 105 --var product linux

5 Completing the DSTREAM and RealView ICE host software installation

If you have chosen to install the DSTREAM and RealView ICE host software, then you must set up your DSTREAM or RealView ICE hardware for use. The following sections describe how to do this:

- · Using DSTREAM or RealView ICE over a network
- Installing the USB device driver on Windows XP SP2 and Windows Vista
- Installing the USB device driver on Red Hat Linux on page 11
- Updating the DSTREAM or RealView ICE firmware on page 11.

Note	
------	--

You must purchase the RealView ICE hardware separately.

5.1 Using DSTREAM or RealView ICE over a network

To use a RealView ICE unit over a network, you must run the RVI Config IP utility to set up the network settings on that unit.

For information on using the RVI Config IP utility, see the ARM DSTREAM and RVIUsing the Debug Hardware Configuration Utilities.

5.2 Installing the USB device driver on Windows XP SP2 and Windows Vista

- 1. Connect the DSTREAM or RealView ICE unit to your PC using a USB cable, then power-on the unit.
- 2. Windows detects the connection, and a new hardware dialog appears.
- 3 Follow the on-screen instructions

Noto		

If you have already installed the DSTREAM and RealView ICE host software, you can find the drivers at the following location:

install directory\RVI\Drivers\usb driver\...\win 32-pentium

Additional information

Be aware of the following when installing the DSTREAM or RealView ICE USB driver:

 If you have USB 1.1 and USB 2.0 ports on your PC, connecting the DSTREAM or RealView ICE unit to a USB 1.1 port results in the following message:

HI-SPEED USB Device Plugged into non-HI-SPEED USB Hub

DSTREAM and RealView ICE are compatible with both ports, so you can either continue on USB 1.1 or move to an available USB 2.0 port for improved USB performance.

If you are profiling with a RealView Trace 2 unit, use a USB 2.0 port.

Note ——

Profiling and tracing from the external trace port of a SoC with DSTREAM is not supported.

 The DSTREAM and RealView ICE host software provides new versions of the USB drivers for DSTREAM or RealView ICE. When upgrading from an earlier RealView ICE installation you can continue using the existing drivers without any problems.

It is possible to upgrade to the new drivers as follows:

- 1. Open Windows Device Manager. To do this:
 - Select Control Panel from the Start menu.
 - b. Double-click on System to open the System Properties dialog box.
 - c. Select the Hardware tab.
 - d. Click Device Manager to open the Device Manager dialog box.
- 2. Expand the Universal Serial Bus controllers group.
- 3. Select RealView ICE Hardware on USB.
- 4. Right-click and choose Update Driver... to open the Hardware Update Wizard.
- Install the USB driver as described in Installing the USB device driver on Windows XP SP2 and Windows Vista.

 RealView ICE releases earlier than the version provided with this RVDS release are unable to use the new drivers

To revert the USB drivers provided with an earlier RealView ICE release:

- 1. Open Windows Device Manager. To do this:
 - a. Select Control Panel from the Start menu.
 - b. Double-click on **System** to open the System Properties dialog box.
 - c. Select the Hardware tab.
 - d. Click Device Manager to open the Device Manager dialog box.
- 2. Expand the Universal Serial Bus controllers group.
- 3. Select RealView ICE Hardware on USB.
- 4. Right-click and choose Uninstall.
- Click OK.
- 6. RealView ICE or RealView Trace are removed from the device tree.
- 7. Install the earlier RealView ICE release.
- Windows XP SP1 is no longer supported by the driver that is located in:

```
install directory\RVI\Drivers\usb driver\...\win 32-pentium.
```

An earlier version that supports Windows XP SP1 is provided in:

install directory\RVI\Drivers\usb driver\...\win 32-pentium\old.

Use this location in step 3 of the procedure for reverting back to an earlier RealView ICE release on Windows XP SP1.

5.3 Installing the USB device driver on Red Hat Linux

Before connecting the DSTREAM unit, RealView ICE unit, or RealView Trace 2 unit on a Red Hat Linux platform, do the following:

- If you want to connect to the DSTREAM unit, RealView ICE unit, or RealView Trace 2 unit using USB, install the libusb library (/usr/lib/libusb-0.1.so.4). This is usually located in the libusb or libusb-0.1-4 package from your Red Hat Linux distribution.
- Set the correct permissions on the USB device nodes. The usb-install script (as used during the DSTREAM and RealView ICE installation) is provided to do this. You can find this script at:

install directory/RVI/Drivers/usb driver/.../linux-pentium/usb-install

— Note

You must run the ${\tt usb-install}$ script before connecting to DSTREAM, RealView ICE, or RealView Trace 2.

The script requires root access to write to the /etc directory, and prompts for the root password if it is not run as root

5.4 Updating the DSTREAM or RealView ICE firmware

To check if you have to update the firmware of your DSTREAM or RealView ICE unit:

- 1. Open the RVI Update utility:
 - On Windows, select Start → All Programs → ARM → RealView ICE vN.n → RealView ICE Update.
 - On Red Hat Linux platforms, select the appropriate shortcut. The shortcut depends on the version
 of Red Hat Linux and the desktop environment that you are using.

If no desktop shortcut is available, enter the following commands at the command-line:

source RVDS41env.posh

rviupdate

- 2. Connect to your DSTREAM or RealView ICE unit.
- 3. Make a note of the Version, for example 4.0.0 build 25.
- 4. Compare the version with the latest version of the firmware file, for example:

```
install_directory\RVI\Firmware\...\...\ARM-RVI-4.2.0-20-base.rvi
where 4.2.0 is the version number, and 20 is the build number.
```

5. If the firmware version is different, you are recommended to update the firmware to the latest version. For information on using the RVI Update utility to update your firmware, see the ARM DSTREAM and RVI Using the Debug Hardware Configuration Utilities.

RealView Development Suite v4.1