

Vision Extension Package for S32V23x

1.2.0

Contents

| | |
|---|---|
| 1. Release Description..... | 2 |
| 1.1. Release Content..... | 2 |
| 2. What's New..... | 2 |
| 2.1. New Features..... | 2 |
| 3. Installation and Licensing..... | 2 |
| 4. Technical Support..... | 3 |
| Appendix A. Known Issues and Workarounds..... | 3 |



1. Release Description

NXP Semiconductors is pleased to announce the release of the Vision Extension Package for S32V23x 1.2.0.

1.1. Release Content

- Support for wizards creating application and library projects
- Visual Graph Tools to support the ISP and APEX2 targeted software design
- New project wizards to create Visual Graph Tools projects
- Integrated Vision SDK version 1.6.0¹
- Vision SDK project examples
- Support for wizard creating projects from Vision SDK project examples
- PAX-ISP assembler
- NXP APU compiler (clang version 4.0.1)
- GNU GDB clients for APEX2 and ISP coprocessor (gdb version 7.12.1)

2. What's New

The Vision Extension Package is intended to be installed on the S32 Design Studio for S32 Platform 3.3 with S32V2xx Development Package.

2.1. New Features

- Creating application and library projects with APEX2/ISP support for the Linux target
- Creating projects from VSDK project examples
- Creating Visual Graph Tools projects
- The PAX-ISP static sequencer support
- Validating the APEX2 and ISP diagrams
- Emission of the source code from graph projects
- On-chip debugging on APEX2 and ISP with the S32 Debug Probe
- Possibility to switch VSDK versions

3. Installation and Licensing

The extension package shall be installed to S32 Design Studio for S32 Platform 3.3 using the **S32DS Extensions and Updates** wizard. Before installation make sure that S32V2xx Development Package is installed.

To install the extension package:

1. Launch S32 Design Studio for S32 Platform 3.3.

¹Since version 1.3, Linux BSP is not included in the package and can be downloaded from the NXP website

2. Choose **Help** > **S32DS Extensions and Updates** from the menu bar.
3. In the **S32DS Extensions and Updates** dialog box, select **Vision extension package for S32V23x** from the list and click **Install/Update**.
4. Review the information on the confirmation page and click **Next**.
5. Accept the license terms. Click **Finish** to complete the installation.

After the installation completes, S32 Design Studio for S32 Platform 3.3 automatically prompts to be restarted.

You can download updates from the website manually to install the extension package on the computer with no access to the internet:

1. Download the archive file.
 - a. Go to the www.nxp.com Product List page.
 - b. Select S32 Design Studio from the list.
 - c. Select the extension package and click **Download Selected Files** to save the archive file in a local folder.
2. Install the extension package.
 - a. Choose **Window** > **Preferences** from the menu bar.
 - b. In the **Preferences** dialog box, click **S32 Design Studio** > **S32DS Extensions and Updates**.
 - c. Click **Add...**
 - d. Click **Archive** in the **Add Site** dialog box.
 - e. Navigate to the directory with the downloaded .zip file. Choose it and click **Open**, then click **OK**.
 - f. Choose **Help** > **S32DS Extensions and Updates** from the menu bar and continue the installation as usual.

4. Technical Support

The S32 Design Studio for S32 Platform 3.3 general issues are tracked through the S32DS Public NXP Community space:

<https://community.nxp.com/community/s32/s32ds>

For confidential cases and cases which cannot be publicly shared on NXP Community please follow the steps described here:

<https://community.nxp.com/docs/DOC-329745>

Appendix A. Known Issues and Workarounds

- **Debugging on ISP with S32 Debugger may fail:** When debugging an ISP application example, the execution of the program may be terminated unexpectedly after the S32 Debugger ISP configuration has been loaded.

An attempt to debug the program on the ISP coprocessor may fail after the first breakpoint is encountered. The failure occurs because the breakpoint freezes the application's ISP

frame, while the stream from the camera continues. After resume, the ISP frame cannot be synchronized with the stream and causes the program failure.

Workaround: No workaround available.

- **An ISP hardware breakpoint appears in the wrong debug context:** When debugging an ISP application example remotely using the S32 Debugger ISP configuration, a hardware breakpoint set on an ISP address appears in the context of the remote Linux application rather than in the ISP context.

Workaround: No workaround available.

- **Upload of an executable file may fail after reset of the board:** When starting a remote debug session for an ISP Linux application example, the first attempt to upload the executable to the target fails after reset of the board.

Workaround: Upload the file again, or restart S32 Design Studio.

- **The debugged source file is not detected:** When a debug session on ISP is started, at first stop the console displays the “No source available 0x...” message rather than the name of the source file being debugged.

Workaround: Wait and then step through the code. The source files and the views get in sync automatically.

- **Build fails when using Build All:** The **Build All** option builds only the active build configuration for each open project in the workspace, it does not build the referenced configurations. In case of ISP/APEX2 projects, the A53 configuration depends on the ISP and APU build configurations outputs.

Workaround: Use the **Build** option for each project.

- **Project files conflicting with files from SDK:** When changing Value or Description in S32DS Variables within some project there are two pop-ups on files conflicts.

Workaround: Close all projects, change Value or Description in S32DS_Variable at empty workspace.



How to Reach Us:

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nxp.com

Web Support:

nxp.com/support

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