FlashPro v11.4 SP1 Release Notes

FlashPro software is packaged with Libero® software and installed by default. If you install Libero SoC v11.4 you do not need to install FlashPro standalone.

FlashPro is available as a standalone installation as a convenience for programming-only installations.

Libero SoC v11.4 is a comprehensive software suite for designing with Microsemi's SmartFusion2 and SmartFusion SoC FPGAs, and IGLOO2, IGLOO, ProASIC3 and Fusion FPGA families.

Visit the Documents tab on your device page at www.microsemi.com to obtain silicon Datasheets, Silicon User's Guides, Tutorials and Application Notes.

Development Kits and Starter Kits are available from the Microsemi website.

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What's New in FlashPro v11.4 SP1?

New SmartFusion2 and IGLOO2 Programming Features

Libero SPI Slave programming of the SmartFusion2 and IGLOO2 devices supported with FlashPro5.

The programming mode setting can be configured from "Programming Connectivity and Interface" tool within Libero.

Libero Select Target Device option added in the "Programming Connectivity and Interface" tool.

Allows the user to select the target device for programming when there are identical SmartFusion2 or IGLOO2 devices in the JTAG chain.

Libero export single device chain STAPL file for SmartFusion2/IGLOO2 devices.

Exports a STAPL file to program a single device within a JTAG chain. This is added to the "Export Bitstream" tool.

Introduced in FlashPro v11.4

FlashPro Express for Windows and Linux

FlashPro Express is a new production programming tool

- Windows supports FlashPro Lite, FlashPro3, FlashPro4, FlashPro5
- Linux supports FlashPro5 only

Programming

Integrated drivers for FlashPro5 hardware for Windows and Linux platforms.

New FlashPro Express programming tool for production programming.

Debug Policy can be enabled within the Security Policy Manager.

Libero programming on Linux with FlashPro5 for SmartFusion2 and IGLOO2.

Programming Recovery and Auto Update in Libero.

Updated Security Policy Manager in Libero.

Libero Export Programming Job tool simplifying job transfers to FlashPro Express.

Updated Export Bitstream tool In Libero allowing users flexibility in customizing the bitstream components and types of security files to be exported.

SmartDebug support for SmartFusion2 and IGLOO2 on Linux with FlashPro5.

Silicon Signature Programming Support.

Resolved Issues

Issues Fixed in v11.4 SP1

SAR 58949 - Generate bitstream fails during name change in programming connectivity and interface.

SAR 59218 - Export Bitstream, Export Programming Job and Generate Bitstream will fail if DPK is not entered in the Security Policy Manager.

Issues Fixed in v11.4

SAR 55421 - "Device I/O states During Programming" Option crashing on Linux.

Customer Reported SARs fixed in v11.4 SP1

SAR	Case Number	Product	Summary
56192	493642-1605209692, 493642-1659255930	FlashPro	Support two identical SmartFusion2 or IGLOO2 devices in chain.
59137	493642-1659255930	FlashPro	Support exporting chain STAPL for SmartFusion2 and IGLOO2.

Known Limitations, Issues and Workarounds

Programming

SAR 57456 - Optional procedures are not saved in .pro file.

Running ping on FlashPro5 will report that the programmer is not found.

This error message is incorrect and can be ignored. Message in log:

programmer '00XTYYFF' : Pinging Programmer...

Error: programmer '00XTYYFF' : FP5 delay failed.

Error: programmer '00XTYYFF' : Ping FAILED.

SAR 58993 - Generate Bitstream fails if device name is changed in "Programming Connectivity and Interface" tool.

You will see the bitstream generation error s below in the log window when the Libero design device name is changed in "Programming Connectivity and Interface" tool and then "Generate Bitstream" or "Export Bitstream" tool is run.

Error: The command 'load_programming_data' failed.

Error: Failure when executing Tcl script. [Line 3]

Error: The Execute Script command failed.

SAR 58063 - For SmartFusion2 and IGLOO2, optional procedures for a programming action configured in Libero are not exported in the Programming Job.

Workaround: Open the programming job project in FlashPro to configure and save this setting.

FlashPro5 is not supported for RHEL 5 and CentOS 5.

Programming Connectivity and Interface TCL support will be added in a future release.

Programming Settings TCL support will be added in a future release.

SVF for SmartFusion2 and IGLOO2 will be available in a future release.

SAR 51767 - Error: The command 'load_programming_data' failed.

During programming file generation if the serialization content files cannot be found, then you will see the following error: "Error: The command 'load_programming_data' failed."

Workaround: Open **Update eNVM Memory Content** and specify a valid path for each serialization content file.

SAR 45867 - STAPL player for SmartFusion2 or IGLOO2 will be available in a future release.

SAR 41069 - Add PDB loading from DDF for Libero environment

You may get an exit 6 idcode failure when chain programming within Libero using a PDB file.

Workaround: Use a STAPL file or use the standalone FlashPro tool for chain programming

SAR 47452 - FlashPro verify and erase errors are reported as programming failures.

If you run programming ACTION VERIFY/ERASE and there is a failure, then the error code will indicate it is a programming failure even though you were running action VERIFY/ERASE.

System Requirements

Refer to System Requirements on the web for more information regarding operating systems support and minimum system requirements. 64-bit OS is required for designing SmartFusion2 and IGLOO2 devices.

Setup Instructions for Linux OS can be found on the Libero SoC Documents webpage.

Changes in OS support

Supported

Windows 7, Windows 8.1 *(new)*

RHEL 5* and RHEL 6, CentOS 5* and CentOS 6 *(new)*

** RHEL 5 and CentOS 5 do not support programming using FlashPro5*

Discontinued

32-bit operating systems are no longer supported.

Windows XP is no longer supported.

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Installation requires Admin privileges.

Windows

Linux

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