

Programming and Debug Tools v11.9

Release Notes

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Revision History

The revision history describes the changes that were implemented in the document. The changes are listed by revision, starting with the most current publication.

Revision 1.1

Added Known Issue 4.3 SmartFusion2/IGLOO2: I/O State During Programming settings are not propagated to the programming file and Generate Bitstream state is not invalidated

Revision 1.0

Revision 1.0 was the first publication of this document.

Contents

Revision History.....	3
Revision 1.1.....	3
Revision 1.0.....	3
1 Programming and Debug Tools v11.9 Release Notes	5
2 What’s New in Programming and Debug Tools v11.9.....	6
2.1 FlashPro Lite supported on Windows 10	6
3 Resolved Issues	7
4 Known Limitations, Issues and Workarounds	8
4.1 FlashPro TCK cannot be set above 4MHz in single device mode	8
4.2 FlashLock/UPK1 does not protect eNVM bitstream programming/verify and read.....	8
4.3 SmartFusion2/IGLOO2: I/O State During Programming settings are not propagated to the programming file and Generate Bitstream state is not invalidated	8
4.4 SPPS: Ticket counter decrements incorrectly when using HSM flow.....	8
4.5 SPPS: Erase action in HSM flow fails if VERIFY ticket is not present	8
5 System Requirements	9
5.1 Operating System Support	9
6 Programming and Debug Tools v11.9 Download.....	10

1 Programming and Debug Tools v11.9 Release Notes

Microsemi's Programming and Debug Tools installer is intended for laboratory and production environments where Libero is not installed, and allows you to install the following tools:

- FlashPro/FlashPro Express
- SmartDebug Standalone
- Job Manager

All the above tools also available with the full Libero SoC v11.9 release.

2 What's New in Programming and Debug Tools v11.9

Programming and Debug Tools v11.9 includes new features, enhancements, and bug fixes.

2.1 FlashPro Lite supported on Windows 10

Libero SoC v11.9 extends support of FlashPro Lite to the Windows 10 platform.

3 Resolved Issues

The following table lists the customer-reported issues resolved in Libero SoC v11.9.

Case Number	Description
493642-2434780251	FlashPro should accept read only STAPL file
493642-2367580180	SmartFusion2/IGLOO2: Export device digest with DEVICE INFO action
493642-2412614121	Windows 10 (Win10) support for FlashPro Lite
493642-2408183444,493642-2399832422	SmartFusion2/IGLOO2: I/O Setting not held correctly prior to programming
493642-2386963737	SmartFusion: IHP request for programming files
493642-2391804130	SmartDebug errors out after setting a LiveProbe with a UPK1 set by the design
	CISCO: Add option to allow device for future key Rotation
	I/O state programming JTAG mode "Z" state means tristate with pull up
	Secured programming fails 2nd time using Libero11.8 SP3

4 Known Limitations, Issues and Workarounds

Note: Unless stated otherwise, known issues from Libero SoC v11.8, v11.8 SP1, v11.8 SP2, and v11.8 SP3 also apply to Libero SoC v11.9. Review the [Libero SoC v11.8 Release Notes](#), [Libero SoC v11.8 SP1 Release Notes](#), [Libero SoC v11.8 SP2 Release Notes](#), and [Libero SoC v11.8 SP3 Release Notes](#) for Known Issues in Libero SoC v11.8, v11.8 SP1, SP2, and SP3.

4.1 FlashPro TCK cannot be set above 4MHz in single device mode

If the maximum TCK frequency is set above 4MHz in single device mode, it will be reset to 4MHz, and a warning message will be displayed. Set TCK at 4MHz or below, or use chain mode.

4.2 FlashLock/UPK1 does not protect eNVM bitstream programming/verify and read

Once the Security Policy is programmed, SmartFusion2 and IGLOO2 eNVM bitstream programming and verification is protected by UEK1/UEK2. The user must know the correct UEK1/UEK2 to successfully program or verify the eNVM.

To prevent reading of the eNVM content, select the “No Debug” option under the “SmartDebug access control” option in the Debug Policy of the Security Policy Manager. The eNVM FlashLock/UPK1 protection option will be removed from the Security Policy Manager in the next release.

4.3 SmartFusion2/IGLOO2: I/O State During Programming settings are not propagated to the programming file and Generate Bitstream state is not invalidated

The I/O state during programming is not set according to the settings that the user set in the I/O State During Programming.

Workaround: After setting the I/O State(s) During Programming to the desired states, before programming or reprogramming, run the Generate Bitstream or Export Bitstream command and then run programming.

4.4 SPPS: Ticket counter decrements incorrectly when using HSM flow

Issue: When using HSM SPPS flow for larger SmartFusion2 and IGLOO2 devices (-060, -090 and -150), the number of devices per HSM ticket is incorrectly reduced as follows when running programming action in Flashpro Express:

PROGRAM action decreases program ticket counter by 2.

ERASE action decreases 1 verify ticket counter and 1 erase ticket counter.

Workaround: Specify double the number of devices per ticket in the "max_device" parameter of "new_hsmtask_ticket" in Job Manager.

4.5 SPPS: Erase action in HSM flow fails if VERIFY ticket is not present

If a HSM FlashPro Express job has tickets for PROGRAM and ERASE but not for VERIFY, the ERASE action will fail with the following message:

```
Error: No flashpro ticket data found.
```

Workaround: Add ticket for VERIFY if ERASE action is needed.

Note: Running the ERASE action will reduce the ERASE ticket count and VERIFY ticket count (if VERIFY action has not been run), so the user must specify a number of devices in both ERASE and VERIFY tickets.

5 System Requirements

For information about operating system support and minimum system requirements, see the [System Requirements](#) web page.

For Linux OS setup instructions, see [How to Set Up Linux Environment for Libero User Guide](#).

5.1 Operating System Support

Supported

- Windows 7, Windows 8.1, Windows 10
- RHEL 5*, RHEL 6, RHEL 7, CentOS 5*, CentOS 6, and CentOS 7
- SuSE 11 SP4 (Libero only. FlashPro Express, SmartDebug, and Job Manager are not supported.)

Note: * RHEL 5 and CentOS 5 do not support programming using FlashPro5.

Not Supported

- 32-bit operating systems
- Windows XP
- Support for the following operating systems will cease with the next major Libero SoC release. For more information, refer to [PCN17031](#).
 - RedHat Enterprise Linux 5.x through 6.5
 - CentOS 5.x through 6.5

6 Programming and Debug Tools v11.9 Download

Click the following links to download Programming and Debug Tools v11.9 on Windows and Linux operating systems:

- [Windows Download](#)
- [Linux Download](#)
- [Mega Vault Download](#)

Click the following links to download FlashPro on Windows and Linux operating systems:

- [Windows Download](#)
- [Linux Download](#)

Note: Installation requires administrator privileges to the system.

After successful installation, clicking **Help-> About Libero** will show Version: 11.9.0.3.