



Secure Production Programming Solution Release Notes

Introduction

Secure Production Programming Solution (SPPS) is provided by Microchip for secure programming of SmartFusion®2, IGLOO®2, and PolarFire® devices in untrusted environments.

The operation engineer (OE) uses SPPS to prepare secure programming jobs based on design information received from design and firmware engineers. The created secure programming job is executed by manufacturing as part of the SPPS on the site of the contract manufacturer (CM).

SPPS provides the following during manufacturing in an untrusted environment or where insiders might be present:

- Ensures confidentiality of user design and security keys used through a secure initial key loading mechanism.
- Prevents unauthorized programming of the user design through an overbuild protection mechanism, preventing overbuilding of electronic systems.

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1. SPPS v12.6 Software Release Notes

These release notes contain important information about the Secure Production Programming Solution v12.6 release.

1.1 Software Features and Enhancements

- SPPS v12.6 resumes SPPS HSM support and is compatible with Libero® system on chip (SoC) v12.6 unified design suite. SPPS v12.0 is compatible with Libero 12.0 and 12.1 release.
Note: SPPS v12.6, Job Manager v12.6, and FlashPro Express v12.6 require U-HSM Server v12.6 and M-HSM Server v12.6, respectively.
- U-HSM and M-HSM servers are now supported on Windows 10 x64 platform. This platform requires nCipher Security World software v12.50.4 with Compatibility Package v1.0.0.

1.2 Tcl Changes

None

1.3 HSM Module Firmware Revision

SPPS v12.6 has been tested and verified on Thales HSM firmware revision 2.55.1.

1.4 nCipher Security World Revisions

SPPS v12.6 has been tested and verified on Thales nShield revisions 11.62.00, 11.70.00 and 12.50.4 with Compatibility Package 1.0.0.

2. Revision History

Revision	Date	Description
A	12/2020	Initial Revision

3. Microchip FPGA Technical Support

Microchip FPGA Products Group backs its products with various support services, including Customer Service, Customer Technical Support Center, a website, and worldwide sales offices. This section provides information about contacting Microchip FPGA Products Group and using these support services.

3.1 Customer Service

Contact Customer Service for non-technical product support, such as product pricing, product upgrades, update information, order status, and authorization.

- From North America, call **800.262.1060**
- From the rest of the world, call **650.318.4460**
- Fax, from anywhere in the world, **650.318.8044**

3.2 Customer Technical Support

Microchip FPGA Products Group staffs its Customer Technical Support Center with highly skilled engineers who can help answer your hardware, software, and design questions about Microchip FPGA Products. The Customer Technical Support Center spends a great deal of time creating application notes, answers to common design cycle questions, documentation of known issues, and various FAQs. So, before you contact us, please visit our online resources. It is very likely we have already answered your questions.

You can communicate your technical questions through our Web portal and receive answers back by email, fax, or phone. Also, if you have design problems, you can upload your design files to receive assistance. We constantly monitor the cases created from the web portal throughout the day. When sending your request to us, please be sure to include your full name, company name, and your contact information for efficient processing of your request.

Technical support can be reached at soc.microsemi.com/Portal/Default.aspx.

For technical support on RH and RT FPGAs that are regulated by International Traffic in Arms Regulations (ITAR), log in at soc.microsemi.com/Portal/Default.aspx, go to the **My Cases** tab, and select **Yes** in the ITAR drop-down list when creating a new case. For a complete list of ITAR-regulated Microchip FPGAs, visit the ITAR web page.

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3.3 Website

You can browse a variety of technical and non-technical information on the Microchip FPGA Products Group [home page](#), at www.microsemi.com/soc.

3.4 Outside the U.S.

Customers needing assistance outside the US time zones can either contact technical support at (<https://soc.microsemi.com/Portal/Default.aspx>) or contact a local sales office.

Visit [About Us](#) for [sales office listings](#) and [corporate contacts](#).

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- **Product Support** – Data sheets and errata, application notes and sample programs, design resources, user's guides and hardware support documents, latest software releases and archived software
- **General Technical Support** – Frequently Asked Questions (FAQs), technical support requests, online discussion groups, Microchip design partner program member listing
- **Business of Microchip** – Product selector and ordering guides, latest Microchip press releases, listing of seminars and events, listings of Microchip sales offices, distributors and factory representatives

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Customer Support

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- Distributor or Representative
- Local Sales Office
- Embedded Solutions Engineer (ESE)
- Technical Support

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- Microchip is willing to work with any customer who is concerned about the integrity of its code.
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