



# Intel<sup>®</sup> SoC FPGA Embedded Development Suite (SoC EDS) Standard Version 19.1 Release Notes

Updated for Intel<sup>®</sup> Quartus<sup>®</sup> Prime Design Suite: **19.1**



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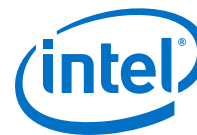
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## Intel® SoC FPGA Embedded Development Suite (SoC EDS) Standard Version 19.1 Release Notes

This document provides up-to-date information about the SoC EDS Standard Edition version 19.1 release for the of the Intel® SoC FPGA Embedded Development Suite (SoC EDS) software.

The SoC EDS Standard Edition targets the Cyclone® V, Arria® V, and Intel Arria 10 devices and must be used only with FPGA projects created in Intel Quartus® Prime Standard Edition.

For more information, refer to the *Intel SoC FPGA Embedded Development Suite User Guide*.

For earlier versions of these release notes, refer to the *Intel SoC FPGA Embedded Development Suite Archives* section.

### Related Information

- [Intel SoC FPGA Embedded Development Suite Archives](#) on page 4  
Provides a list of user guides for previous versions of the SoC FPGA EDS IP core.
- [Intel SoC FPGA Embedded Development Suite User Guide](#)

## What's New

- Intel Agilex™ support:
  - Added the Intel Agilex Golden Hardware Reference Designs for SoC FPGA Development Kits (GHRD).
  - U-Boot, UEFI, and Arm\* Trusted Firmware (ATF) are no longer part of Intel SoC FPGA EDS, but are available on [GitHub](#).

For information about how to build the bootloaders, refer to [RocketBoards.org](#).

### Related Information

[RocketBoards.org](#)

## Tool Versions

**Table 1. Std Edition Tool Version Updates**

Tools	Version
Arm Development Studio 5* (DS-5*) Intel SoC FPGA Edition	5.29.2
Mentor Graphics* Baremetal GCC Compiler	6.2.0 (Sourcery CodeBench Lite 2019.05-16) which includes GCC version 8.3.1 20190416
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Tools	Version
Linux* Compiler	4.8.3 (Linaro* GCC 7.2-2017.11)
Arm Compiler 5	5.06
Arm Compiler 6	6.10.1

## Resolved Issues

- arm-altera-eabi-gdb removed to eliminate security vulnerabilities
- cygwin\_setup folder included on Windows\* to facilitate your manual Cygwin installation

## Known Issues

**Table 2. No Support for Compilation of HPS designs in SoC EDS version 19.1 Windows.**

<b>Description:</b>	SoC EDS Windows version 19.1 cannot be used to compile Cyclone V and Arria V HPS designs. <i>Note:</i> SoC GHRD, also removed from Intel SoC FPGA EDS because GHRD is missing from /embedded/edamples/hardware.
<b>Workaround:</b>	You must compile your HPS Cyclone V and Arria V designs in 19.1std Linux.

## Intel SoC FPGA Embedded Development Suite Archives

Intel Quartus Prime Version	Release Notes (PDF)
18.1	<a href="#">Intel SoC FPGA Embedded Development Suite Release Notes (18.1)</a> These release notes cover Intel Quartus Prime versions 18.0 through 18.1.
18.0	<a href="#">Intel SoC FPGA Embedded Development Suite Release Notes (18.0)</a> These release notes cover Intel Quartus Prime versions 17.0 through 18.0.

## Revision History for Intel SoC FPGA Embedded Development Suite (SoC EDS) Release Notes

Document Version	Changes
2019.09.30	<ul style="list-style-type: none"> <li>• Separated the SoC EDS Standard Edition and SoC EDS Professional Edition release notes.</li> <li>• Added Tool Version Updates and Known Issues.</li> </ul>
2018.09.24	<ul style="list-style-type: none"> <li>• Updated the Arm Development Studio 5 (DS-5) Intel SoC FPGA Edition version.</li> <li>• Added "Enhancements" and "Issues Resolved" for these areas in : <ul style="list-style-type: none"> <li>— Golden Hardware Reference Designs for SoC FPGA Development Kits (GHRD)</li> <li>— Arm DS-5 Intel SoC FPGA Edition</li> <li>— Bootloader Generator and Bootloader</li> </ul> </li> </ul>
2018.05.07	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 18.0 release of the SoC FPGA EDS software - Standard and Pro editions.
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Document Version	Changes
2017.12.05	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 17.1 release of the SoC FPGA EDS software - Standard and Pro editions.
2017.05.08	Release Notes divided into a Pro and Standard section.
2016.11.07	Added clarity to the early IO release feature.
2016.05.09	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 16.0 release updates
2016.01.22	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 15.1.1 release updates
2015.11.02	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 15.1 release updates
2015.06.05	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 15.0.1 release updates
2015.05.01	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 15.0 release updates