

Intel® Software Guard Extensions SDK for Linux* OS Release Notes

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Revision: 1.7 Open Source (Intel® SGX SDK version: 1.7.100.36470)

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1 Introduction

Intel provides Intel® Software Guard Extensions (Intel® SGX) SDK, a software isolation technology, to help you protect your applications.

This document provides system requirements, installation instructions, limitations and legal information.

Product Contents

Intel® Software Guard Extensions SDK package includes:

- An Intel® Software Guard Extensions SDK installer for Linux* OS. It includes binaries to develop enclave applications. The main components include:
 - Trusted libraries, including standard C library, C++ runtime support, C++ STL, and others
 - Development tools, including edger8r, signing tool, and others
 - Sample projects

2 What's New

Intel® Software Guard Extensions SDK includes the following changes in this release:

- Cryptography for Intel® Integrated Performance Primitives (Intel® IPP) library is updated to version 9.0 Update 4
- Alignments with the latest Intel SGX for Linux* driver code
- Bug fixes

Changes in Previous Releases

- New `setjmp/longjmp` APIs in the trusted C library
- Support for profiling Intel SGX applications using Intel® VTune™ Amplifier. To profile Intel SGX applications, use VTune™ Amplifier 2016 Update 2, the “SGX Hotspots” analysis type.
- Intel® SGX Eclipse* plug-in to create Intel SGX enclave projects
- Support for implicit Thread Local Storage (TLS)
- Support for nested HW exception in a trusted environment

3 System Requirements

Software Requirement

- Supported Linux* OS distributions:
 - Ubuntu* 14.04.4 LTS 64-bit Desktop version

Note:

Please use the listed Linux* OS distributions. Other distributions are not supported.

4 Known Issues and Limitations

- Intel® SGX for Linux* OS does not support power management.
- Intel® SGX for Linux* OS does not support setting a different charset in GNU* Project Debugger (GDB*).
- Building the Intel SGX SDK sample project “RemoteAttestation” is possible only within the Intel SGX SDK installation folder.
- Intel® VTune™ Amplifier 2016 Update 2 does not support profiling of Intel SGX 1.7 applications.
- Intel SGX does not support the “long long” type in C++ templates.

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