

# Intel® Software Guard Extensions (Intel® SGX) Platform Software for Linux\* OS Release Notes

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29 June 2018

Revision: 2.2 Open Source (version: 2.2.100.45311)

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## 1 Introduction

This document provides system requirements, installation instructions, limitations and legal information for Intel® Software Guard Extensions (Intel® SGX) Platform Software (PSW).

### Product Contents

The Intel® Software Guard Extensions PSW package includes:

- Intel® SGX Application Enclaves
- Intel® SGX Runtime System Library
- Intel® SGX Application Enclave Service Manager (AESM)

## 2 What's New

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

- Support for Switchless Calls - It is a new mode of operation to perform calls from or to SGX enclaves
- Bug fixes.

## Changes in Previous Releases

Intel® Software Guard Extensions PSW includes the following changes in 2.1.103.44322 release:

- Update the cryptography lib to Intel® Integrated Performance Primitives Cryptography 2018 Update 2.1. Mitigated security vulnerability CVE-2018-3617(<https://cve.mitre.org/cgi-bin/cvename.cgi?name=2018-3617>). For more details, refer to Intel Security Advisory INTEL-SA-00106(<https://security-center.intel.com/advisory.aspx?intelid=INTEL-SA-00106&languageid=en-fr>) and INTEL-SA-00135(<https://security-center.intel.com/advisory.aspx?intelid=INTEL-SA-00135&languageid=en-fr>).
- Update Intel® SGX platform service Dal applet.
- Bug fixes.

Intel® Software Guard Extensions PSW includes the following changes in 2.1.102.43402 release:

- Mitigated security vulnerability CVE-2018-3689 (<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2018-3689>). For more details, refer to Security Advisory INTEL-OSS-10004 (<https://01.org/security/advisories/intel-oss-10004>)
- Mitigated security vulnerability CVE-2018-3626 (<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2018-3626>). For more details, refer to Security Advisory INTEL-SA-00117 (<https://security-center.intel.com/advisory.aspx?intelid=INTEL-SA-00117&languageid=en-fr>)

Intel® Software Guard Extensions PSW includes the following changes in 2.1.101.42529 release:

- Security updates to Intel® SGX PSW

Intel® Software Guard Extensions PSW includes the following changes in version 2.1.100.42002:

- Support for CentOS\* 7.4
- Support for SUSE\* Linux Enterprise Server 12
- Bug fixes

Intel® Software Guard Extensions PSW includes the following changes in version 2.0.100.40905:

- Support for 3072 bit Intel® SGX provisioning server public key
- Support for Intel® SGX Enclave Dynamic Memory Management (EDMM)
- Support for Red Hat\* Enterprise Linux\* Server 7.4

Intel® Software Guard Extensions PSW includes the following changes in version 1.9.100.39124:

- Bug fixes

Intel® Software Guard Extensions PSW includes the following changes in version 1.8.100.37689:

- Trusted Platform Service support
- Support for RedHat and CentOS

### 3 System Requirements

#### Hardware Requirements

- 6th Generation Intel® Core™ Processor or newer

#### Software Requirements

- Supported Linux\* OS distributions:
  - Ubuntu\* 16.04.3 LTS 64-bit Desktop version
  - Ubuntu\* 16.04.3 LTS 64-bit Server version
  - Red Hat\* Enterprise Linux\* Server 7.4 (for x86\_64)
  - CentOS\* 7.4 (for x86\_64)
  - SUSE\* Enterprise Server 12 (for x86\_64)

#### Note:

1. Intel® SGX PSW supports Intel® Xeon® Processor E3 Server V5 and onwards platforms if the platform processor and BIOS supports Intel® SGX. Please check with OEM/ODM regarding BIOS support for enabling Intel® SGX.

2. Intel® SGX platform service is not supported in Intel® Xeon® Processor E3 Server platforms.

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