

# SAGE 4.0 General Release Notes

## Introduction

The SAGE Release Notes detail the features that are supported in the current release version(s). The notes also list the platforms that are currently supported and any additional ones that are newly added since the last release. There are example applications included in the SAGE binary release which demonstrates the SAGE functionality.

## Notable Changes in SSF 4.0.3 and SBL 4.0.6

### Highlight

- Compatible with URSR 18.2
- SBL 4.0.6 and SSF 4.0.3 requires minimum BFW version of 2.1.3
- SBL 4.0.6 requires at least SSF 4.0.3 and vice versa
- Added high memory DTU support for URR
- Added various 3rd party IP
- Various fixes for Keymaster TA

### Miscellaneous

- Various changes made to Nexus Security and HSM PI with the introduction of HSM version 2. Please note that Nexus security and HSM APIs may change as additional features are enabled and tested in SAGE

## Notable Changes in SSF 4.0.1 and SBL 4.0.2

### Highlight

- Compatible with URSR 18.1.4 and later release
- PlayReady 2.5, PlayReady 3.3 and Widevine DRM support
- Secure Video Path (SVP) support
- Support for BP3 provisioning. SAGE is required for BP3 parts
- Support HDMI Tx with HDCP 1.4/2.2
- Fixed disabled HDCP 1.4 for BP3 parts
- SAGE Unified Image Format (SUIF) for SBL, SSF and SAGE Trusted Applications (TA)

### Known Issues

- HDCP 2.2 Rx is not supported
- Occasional Security Reset seen on 7278B0 with BFW 2.0.2

### Miscellaneous

- Various changes made to Nexus Security and HSM PI with the introduction of HSM version 2. Please note that Nexus security and HSM APIs may change as additional features are enabled and tested in SAGE

## Supported Base SoC (Zeus 5.2)

BCM7278B0/B1

## Host SAGE Example Applications

The Broadcom Heartbeat application that tests if SAGE is running is located at: *BSEAV/lib/security/sage/utility/examples/heartbeat*

To run this application, execute the following command on the target platform: *./nexus heartbeat\_tool*