



# SAI 3.1.3.4

## Release Notes

February 20, 2018

SAI-RN100

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Corporate Headquarters

San Jose, CA

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# 1. Overview

This document provides a general description of the Broadcom SAI adapter release. It also describes the supported platforms, API support, resolved issues, and any relevant open issues.

## API details:

### Existing APIs:

- sai\_get\_acl\_table\_attribute
- sai\_create\_acl\_entry
- sai\_delete\_acl\_entry
- sai\_set\_acl\_entry\_attribute
- sai\_remove\_acl\_range
- sai\_create\_acl\_counter
- sai\_delete\_acl\_counter
- sai\_get\_acl\_counter\_attribute
- sai\_create\_acl\_range
- sai\_create\_fdb\_entry
- sai\_remove\_fdb\_entry
- sai\_get\_fdb\_entry\_attribute
- sai\_fdb\_event\_notification
- sai\_create\_hostif\_trap\_group
- sai\_remove\_hostif\_trap\_group
- sai\_set\_hostif\_trap\_group\_attribute
- sai\_set\_hostif\_trap\_attribute
- sai\_remove\_hostif
- sai\_set\_hostif\_attribute
- sai\_create\_lag
- sai\_remove\_lag
- sai\_get\_lag\_attribute
- sai\_create\_lag\_member
- sai\_remove\_lag\_member
- set\_lag\_member\_attribute
- sai\_create\_mirror\_session
- sai\_remove\_mirror\_session
- sai\_remove\_neighbor\_entry
- sai\_create\_next\_hop
- sai\_remove\_next\_hop
- sai\_set\_next\_hop\_attribute

- sai\_create\_next\_hop\_group
- sai\_remove\_next\_hop\_group
- sai\_create\_policer
- sai\_remove\_policer
- sai\_get\_policer\_attribute
- sai\_get\_port\_attribute
- sai\_get\_port\_stats
- sai\_port\_event\_notification
- sai\_remove\_route
- sai\_create\_virtual\_router
- sai\_remove\_virtual\_router
- sai\_create\_router\_interface
- sai\_remove\_router\_interface
- sai\_set\_switch\_attribute
- sai\_create\_vlan
- sai\_remove\_vlan
- sai\_get\_vlan\_attribute
- sai\_create\_vlan\_member
- sai\_remove\_vlan\_member
- sai\_get\_vlan\_member\_attribute
- sai\_create\_qos\_map
- sai\_get\_queue\_stats
- sai\_set\_queue\_attribute
- sai\_get\_queue\_attribute
- sai\_create\_scheduler\_profile
- sai\_remove\_scheduler\_profile
- sai\_set\_scheduler\_attribute
- sai\_get\_scheduler\_attribute
- sai\_set\_scheduler\_group\_attribute
- sai\_get\_scheduler\_group\_attribute
- sai\_create\_wred
- sai\_remove\_wred
- sai\_get\_wred\_attribute
- sai\_create\_buffer\_pool
- sai\_set\_ingress\_priority\_group\_attr
- sai\_create\_buffer\_profile
- sai\_create\_tunnel
- sai\_create\_tunnel\_term\_table\_entry

- sai\_create\_udf
- sai\_remove\_udf
- sai\_create\_udf\_match
- sai\_create\_udf\_group
- sai\_create\_acl\_table
- sai\_delete\_acl\_table
- sai\_create\_hostif
- sai\_create\_neighbor\_entry
- sai\_set\_neighbor\_attribute
- sai\_create\_route
- sai\_set\_route\_attribute
- sai\_create\_switch
- sai\_remove\_switch
- sai\_get\_switch\_attribute
- sai\_create\_acl\_table\_group
- sai\_remove\_acl\_table\_group
- sai\_create\_acl\_table\_group\_member
- sai\_remove\_acl\_table\_group\_member
- sai\_create\_bridge\_port
- sai\_remove\_bridge\_port
- sai\_set\_bridge\_port\_attribute
- sai\_get\_bridge\_port\_attribute
- sai\_get\_bridge\_attribute
- sai\_set\_lag\_attribute
- sai\_set\_mirror\_session\_attribute
- sai\_set\_port\_attribute
- sai\_set\_vlan\_attribute

Updated APIs:

- sai\_create\_switch
- sai\_set\_switch\_attribute
- sai\_get\_switch\_attribute
- sai\_set\_port\_attribute
- sai\_get\_port\_stats
- sai\_set\_queue\_attribute
- sai\_get\_queue\_stats
- sai\_queue\_pfc\_deadlock\_notification
- sai\_create\_neighbor\_entry

- sai\_remove\_neighbor\_entry
- sai\_create\_router\_interface
- sai\_set\_router\_interface\_attribute
- sai\_create\_acl\_table\_group\_member
- sai\_remove\_acl\_table\_group\_member

New APIs:

- sai\_flush\_fdb\_entries

## 1.1 Dependencies

This package depends on OpenNSL 3.4.1.11.

## 2. Deliverables

This section contains information about the deliverables.

### 2.1 Date of Delivery

SAI adapter version 3.1.3.4 was released on February 20, 2018.

### 2.2 Distribution Method

SAI adapter is distributed through the Broadcom DocSafe.

### 2.3 Items Included in This Release

The following items are included in this release:

SAI adapter library for supported platforms

Corresponding SAI header files from SAI version 1.2.3



### 3. Platform Support

This release contains support for the platforms listed in the following table:

Platform	Broadcom Switching Silicon
Dell S6000	Trident-II (BCM56850_A1)
Dell S6100	Tomahawk (BCM56960_A0)
Arista 7620	Tomahawk-II (BCM56970_B0)
BRCM TD2 SVK	Trident-II (BCM56850_A1)
BRCM TH SVK	Tomahawk (BCM56960_A0)
BRCM TH2 SVK	Tomahawk-II (BCM56970_B0)

### 4. Testing

Supported features were tested fully to GA quality and behave as defined by the detailed requirements.

### 5. Features Added

- Based off SAI Github 1.2.3 branch/tag headers
  - commit `c754414df96345c2b1fd08e8e22578abace28c28`
- Upgrade to OpenNSL 3.4.1.11/SDK 6.5.10
- Tomahawk2 support
- Critical Resource Monitor
- Finer grained PFC controls
- Support Directed Broadcast to host interface
- Support for trapping unicast ARP requests to CPU
- Bug fixes over 3.1.2.2
  - L3 interface resource leak when changing Router Interface MTU size. This will be fixed in the next release.
  - CS4145407 – Please configure CPU MMU settings in Broadcom SAI
  - CS3956093 – Broadcom recommended Total Available Shared Space for CPU traffic not getting set

### 6. Known Issues

- OpenNSL currently does not support graceful shutdown/exit via SAI switch shutdown. This will be fixed in the future release
- Some attribute default values are not applied automatically as expected for switch/port/QoS level. This will be fixed in a future release.
- SAI Warmboot is not supported

- Open CSPs: These will be fixed in a future release
  - CS3785133 – SAI returns insufficient Resource while adding ACL rules

## 7. Previous Releases

The following table lists the previous release.

<b><i>Date</i></b>	<b><i>Release Number</i></b>	<b><i>Feature Set</i></b>	<b><i>Codebase</i></b>
March 1, 2016	1.0.0.0	SAI 0.9.3 (partial support)	–
Nov 22, 2016	2.0.3.7	SAI 0.9.4 (partial support)	–
April 04, 2017	2.2.0.2	SAI 1.0 (partial support)	–
October 10, 2017	3.0.3.3	SAI 1.2 (partial support)	–

