



SAI 3.3.4.3

Release Notes

Jan 18, 2019

SAI-RN100

Corporate Headquarters

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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:

Supported APIs:

- sai_get_acl_table_attribute
- sai_create_acl_entry
- sai_delete_acl_entry
- sai_set_acl_entry_attribute
- sai_create_acl_range
- sai_get_acl_range
- sai_remove_acl_range
- sai_create_acl_counter
- sai_delete_acl_counter
- sai_get_acl_counter_attribute
- sai_create_fdb_entry
- sai_remove_fdb_entry
- sai_get_fdb_entry_attribute
- sai_fdb_event_notification
- sai_create_hostif_trap_group
- sai_get_hostif_trap_group_attribute
- sai_set_hostif_trap_group_attribute
- sai_remove_hostif_trap_group
- sai_create_hostif_trap
- sai_set_hostif_trap_attribute
- sai_get_hostif_trap_attribute
- sai_remove_hostif_trap
- sai_create_lag
- sai_remove_lag
- sai_get_lag_attribute
- sai_create_lag_member
- sai_get_lag_member_attribute
- sai_set_lag_member_attribute
- sai_remove_lag_member
- sai_create_mirror_session
- sai_get_mirror_session_attribute

- sai_set_mirror_session_attribute
- sai_remove_mirror_session
- sai_create_next_hop
- sai_remove_next_hop
- sai_set_next_hop_attribute
- sai_create_next_hop_group
- sai_get_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_get_virtual_router
- sai_remove_virtual_router
- sai_create_router_interface
- sai_get_router_interface_attribute
- sai_set_router_interface_attribute
- 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_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_set_wred_attribute
- sai_create_buffer_pool
- sai_set_ingress_priority_group_attr
- sai_create_buffer_profile
- sai_get_buffer_profile
- sai_set_buffer_profile_attribute
- sai_create_tunnel
- sai_get_tunnel
- sai_create_tunnel_term_table_entry
- sai_get_tunnel_term_table_entry
- sai_create_hash
- sai_set_hash_attribute
- sai_remove_hash
- sai_create_udf
- sai_get_udf
- sai_remove_udf
- sai_create_udf_match
- sai_get_udf_match
- sai_create_udf_group
- sai_get_udf_group
- sai_create_acl_table
- sai_delete_acl_table
- sai_create_host_interface
- sai_get_hostif_attribute
- sai_set_hostif_attribute
- sai_remove_host_interface
- sai_create_neighbor_entry
- sai_get_neighbor_attribute
- sai_set_neighbor_entry
- sai_remove_neighbor_entry
- sai_create_route
- sai_get_route
- sai_set_route_attribute

- sai_create_switch
- sai_remove_switch
- sai_get_switch_attribute
- sai_create_acl_table_group
- sai_get_acl_table_group
- sai_remove_acl_table_group
- sai_create_acl_table_group_member
- sai_get_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_port_attribute
- sai_set_vlan_attribute
- sai_queue_pfc_deadlock_notification
- sai_flush_fdb_entries
- sai_get_buffer_pool_stats
- sai_get_ingress_priority_group_stats
- sai_set_fdb_entry_attribute

1.1 Dependencies

This package depends on SDK 6.5.13

2. Deliverables

This section contains information about the deliverables.

2.1 Date of Delivery

SAI adapter version SAI 3.3.4.3 was released on Jan 18, 2019.

2.2 Distribution Method

SAI adapter is distributed through the Broadcom-Switch-Collab/SONiC_SAI private github repository (Branch INT_3.3, Label REL_GA_3.3.4.3) and 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 1.3.6

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 7260	Tomahawk-II (BCM56970_B0)
BRCM TD2 SVK	Trident-II (BCM56850_A1)
BRCM TH SVK	Tomahawk (BCM56960_A0)
BRCM TH2 SVK	Tomahawk-II (BCM56970_B0)
BRCM TD3 SVK	Trident-III (BCM56870_A0)
BRCM TH3 SVK	Tomahawk-3 (BCM56980_A0)
Celestica Halliburton	Helix-4 (BCM56340_A0)

4. Testing

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

5. Features Added

Below items describe additions to latest SAI 3.3 release.

- Support for several get attribute API's.
- EA quality for TH3 and TD3 (BRCM SAI Release 3.1 parity).
- Integrated HX4 support.
- Watermark stats.
- Enhancements and fixes for WB support for TH/TH2 (BCM56960/BCM56970).
- Fixes for customer found issues. Includes customer originated patches including move to SAI header version 1.3.6.

- Fixes for internally found issues.

6. Known Issues

- BCM56980_A0 TH3 currently does not support VLAN based RIFs.
- Only packet level stats are available for SAI Queue WRED module on all platforms.
- Following SAI features are unsupported on BCM56870_A0 TD3 – UDF-based Hashing, MMU buffer profiles.
- Some attribute default values are not applied automatically as expected for switch/port/QoS level. This will be fixed in a future release.

7. Previous Releases

The following table lists the previous release.

<i>Date</i>	<i>Release Number</i>	<i>Feature Set</i>	<i>Codebase</i>
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)	–
December 18, 2017	3.1.1.3	SAI 1.2 (partial support)	–
January 22, 2018	3.1.2.2	SAI 1.2 (partial support)	–
February 20, 2018	3.1.3.4	SAI 1.2 (partial support)	–
March 23, 2018	3.2.0.1	SAI 1.2.3 (partial support)	–
April 27, 2018	3.2.1.1	SAI 1.3 (partial support)	–
July 2, 2018	3.3.0.1	SAI 1.3 (partial support)	–
July 16, 2018	3.3.1.1	SAI 1.3 (partial support)	–
August 6, 2018	3.3.2.1	SAI 1.3 (partial support)	–
August 30, 2018	3.3.2.4	SAI 1.3 (partial support)	–
November 30, 2018	3.3.3.1	SAI 1.3.3 (partial support)	–
January 8, 2019	3.3.4.1	SAI 1.3.6 (partial support)	–

