



NEXT RELEASES

SAI 1.5 release available soon.

Major changes will be seen in

- TAM
- NAT
- Sflow
- Generic Resource monitoring
- SAI counters

Firmware upgrade on Mellanox

NEW MEMBER

XCloud allows an organization of any size to build scalable, CapEx efficient, and a fully functional network infrastructure based on commodity hardware. Its dashboard provides comprehensive management of the entire network. The built-in toolset simplifies and automates daily tasks, saves engineering time and OpEx.

XCloud specializes in providing an API for CI/CD and has native integration with various software platforms.



NEW PLATFORM

JUNIPER QFX5210



EVENTS

OCPJ Meet-up 2019 Summer was held in Tokyo at NTT communications on Jun 27, 2019.

UPCOMING EVENTS

OCP Regional Summit | *Amsterdam* | 27 - 28 September 2019

OCP Global Summit | *San Jose* | 04 - 05 March 2020

HIGHLIGHTS OF OCP JAPAN MEET-UP SUMMER 2019

OCP Background and Projects :

Michael Schill, Community Specialist OCP Foundation

Deep Dive on OCP Software Projects :

Rajeev Sharma, Director, Software & Technologies OCPF

How OCP Solutions Quickly Deploy at Data Centers:

Alfred Chao, Senior Director MITAC

Open-Disaggregated Network :

George Tchapanian, CEO Edgecore Networks

SONiC - Innovating the Cloud Network :

Xin Liu, Principal Product Manager Microsoft

Journey of OCP

(Yahoo Japan!/: Kazuhide Fujimi)

CONTACT US

From -

To unsubscribed mail us -



NEW PLATFORM



QFX5210 supports advanced Layer 2, Layer 3, and MPLS features. For large public cloud providers—among the first to adopt 25GbE and 50GbE servers to meet explosive workload growth.

This switch has 64 QSFP28 (40G/100G) ports, 2 SFP+ (1G/10G) ports on Broadcom Tomahawk II chipset. CPU used in QFX5210-64C-S is Intel Broadwell-DE. The machine has Redundant and hot-swappable Power Supply (1+1) and also has Redundant and hot swappable fans (3+1).

- Added the device specific files, bcm configuration, portmapping file for Broadcom TH2
- Developed / ported the device drivers for platform specific CPLDs
- Developed the platform scripts

JUNIPER
NETWORKS

SAI 1.5

WHAT TO EXPECT !!

Telemetry And Monitoring (TAM)

TAM has been enhanced from 1.0 to 2.0 to achieve following goals:

- Express top level Telemetry and Monitoring domain
- Remain backward compatible for application with minimal or no change in the application code
- Provide extensibility for new functions/capability in each domain/sub domain and always remain backward compatible
- Remove any hardcoded assumptions about domain or domain's capabilities
- Provide full abstraction for operators to dynamically learn the number of domains supported within a networking element
- Provide full abstraction for operators to dynamically learn domains capabilities
- Provide flexibility to add new APIs for a given domain/sub domain
- Support local mathematical functions for hierarchical analysis

NAT

Provisioning of APIs to configure NAT feature. API set is generic to configure various types of NAT. Besides configuration, these APIs can read the NAT table for aging and is achieved using the TAM GET API.

Features: Basic NAT (SNAT, DNAT), subnet based NAT, NAT, Double NAT, NAT Exceptions

New SAI APIs are introduced for configuring the following.

- NAT Zones
- Enabling NAT
- Enable Traps for SNAT and DNAT Miss Packets

sFlow

sFlow sampling

- Statistical packet-based sampling of switched or routed packet flows to provide visibility into network usage and active routes
- Time-based sampling of interface counters.

sFlow monitoring

- sFlow Agents that reside in network equipment which gather network traffic and port counters and combines the flow samples and interface counters into sFlow datagrams and forwards them to the sFlow collector at regular intervals over a UDP socket
- sFlow collectors which receive and analyze the sFlow data.

sFlow support in SAI requires both samplepacket proposal and host-if proposal changes. Host-if module defines SAI Host Interface which is responsible for creating/deleting Linux netdev corresponding to the host interface type. The samplepacket proposal hasn't been changed recently and is used as-is.

Generic Resource Monitoring

Provisioning of API to configure SAI resources monitoring. This includes a function which queries the current resource usage in the ASIC for different types of SAI objects.

SAI counter

Defining counters explicitly per object type imposes restrictions to their usage. Hence the new counters model introduces APIs to query which objects support which counters and create a counter object that can be dynamically attached to other objects

UPGRADING MELLANOX

Mellanox components update

SDK to v3.4.1886

hw-mgmt (v2.0.0191)