OCP SAI

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Switching ASICs (SDKs) do not have any common API.

- Same feature (for e.g. Routing Table) has different styles.
- Same underlying construct (for e.g. ACL) has different semantics.

SAI addresses above issue, and offers a C API that's common across ASICs.
Identifies the switching abstraction, express it as {object, attribute:value}
Open API, is extensible for newer abstractions and programmable ASICs.

SAI does not deal with specifying user-APIs or defining user-models.

- Note that many of these user-APIs end up using overlapping hardware abstractions.

Thus, SAI is a way to express hardware/ASIC constructs in an abstracted fashion, and provide a unified API across plethora of silicons/platforms.

SAI is an open initiative (https://github.com/opencomputeproject/OCP-Networking-Project-Community-Contributions/tree/master/sai/inc).

OCP-compliant platform will have SAI driver.

Thank you