gRPC Network Operations

gRPC Network Operations Interface Update

gNOI is the gRPC Network Operations Interface. gNOI defines a set of gRPC-based microservices for executing operational commands and procedure on network devices, such as OS Install, Activate, and Verification.

Through gNOI os.proto will be possible to perform operating system related tasks such as OS activation, install, detailed overview, internal OS commands, and finally to output a summary of OS operations.

Furthermore, gNOI os.proto can also be used to display the gnmib detailed state, check the gnmib operational statistics, and also to output modifiers.

GNMI Broker (GNMIB) Update

The GNMI Broker (GNMIB) has been extended to support the gRPC Network Operations Interface (gNOI) reset.proto service. This service provides functionality for restoring the device to its factory defaults via gRPC.

When the service is executed, it behaves similarly to the 'factory-reset all' command, and subsequently triggering a reload. Additionally, the service will maintain the current booted image. The additional steps below will be taken to comply with the reset.proto service:

- Set the rommon BOOT variable to the current booted image and maintain it through reload following factory-reset
- Enable autoboot to bring the device up on the current booted image following factory-reset.