



## gRPC Network Operations

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### 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.

