New and Changed Feature Information

This section lists all the new and changed features for the Programmability Configuration Guide.

New and Changed Programmability Features

Feature Name	Changed in Release	Description
Revised OpenConfig Data Models	Release 7.8.1	This releases introduces revisions to OpenConfig data models. For the list of models, the revised version and details, see the *Release Notes for Cisco 8000 Series Routers, IOS XR Release 7.8.1*
gRPC Network Operations Interface	Release 7.8.1	With the gRPC Network Operations Interface (gNOI) Revision 1.0.0, you can: • Cancel a pending reboot request using the `CancelReboot` RPC • Terminate a process using the `KillProcess` RPC You can access the gNOI system RPC messages from the Github repository

Feature Name	Changed in Release	Description
gNMI Bundling of Telemetry Updates	Release 7.8.1	With gRPC Network Management Interface (gNMI) bundling, the router internally bundles multiple gNMI `Update` messages meant for the same client into a single gNMI `Notification` message and sends it to the client over the interface. You can now optimize the interface bandwidth utilization by accommodating more gNMI updates in a single notification message to the client. We have now increased the gNMI bundling size from 32768 to 65536 bytes, and enabled gNMI bundling size configuration through Cisco native data model. Prior releases allowed only a maximum bundling size of 32768 bytes, and you could configure only through CLI. The feature introduces new XPaths to the `Cisco-IOS-XR-telemetry-model-driven-cfg.yang` Cisco native data model to configure gNMI bundling size. To view the specification of gNMI bundling, see Github repository.
Replace Router Configuration at Sub-tree Level Using gNMI	Release 7.8.1	Using the gNMI `SetRequest` message, you can replace the router's existing configuration with a new set of configurations at the subtree level within the same model. Earlier you could replace router configurations at the data tree root level. To view the specification of gNMI replace, see Github repository.