



## New and Changed Feature Information

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

- [Programmability Features Added or Modified in IOS XR Release 24.x.x, on page 1](#)

# Programmability Features Added or Modified in IOS XR Release 24.x.x

**Table 1: New and Changed Programmability Features**

Feature	Description	Changed in Release	Where Documented
Data logging with gNSI AcctzStream service	This feature was introduced	Release 24.4.1	<a href="#">Data logging with gNSI AcctzStream service</a>
gRPC Server TLS Version 1.3 Support	This feature was introduced	Release 24.4.1	<a href="#">gRPC server TLS version 1.3 support</a>
gNOI Healthz	This feature was introduced	Release 24.4.1	<a href="#">gNOI Healthz</a>
gNSI Accounting Logging	This feature was introduced	Release 24.3.1	<a href="#">gNSI Acctz Logging</a>
TPM Enrollment and Attestation	This feature was introduced	Release 24.3.1	<a href="#">TPM Enrollment and Attestation</a>
SPIFFE ID-Based Authentication and Authorization Services for gRPC Services	This feature was introduced	Release 24.2.11	<a href="#">SPIFFE ID-Based Authentication and Authorization Services for gRPC Services</a>
gNMI Union Replace Operation	This feature was introduced	Release 24.2.11	<a href="#">gNMI Union Replace Operation</a>
gNMI XPath-Based Authorization	This feature was introduced	Release 24.2.11	<a href="#">gNMI XPath-Based Authorization</a>

Feature	Description	Changed in Release	Where Documented
gNOI Packet Link Qualification	This feature was introduced	Release 24.2.11	<a href="#">gNOI Packet Link Qualification</a>
gNSI Rotate Credentials Update	This feature was introduced	Release 24.2.11	<a href="#">gNSI Credentialz Update</a>
NETCONF Version 1.0 with YANG Support	This feature was introduced	Release 24.2.11	<a href="#">NETCONF version 1.0 with YANG support</a>
Preprogram Backup LSPs Using Service Layer API	This feature was introduced	Release 24.2.11	<a href="#">Preprogram Backup LSPs Using Service Layer API</a>
Manage certificates using Certz.proto	This feature was introduced	Release 24.1.1	<a href="#">Manage certificates using Certz.proto</a>
Set Limit on Concurrent Streams for gRPC Server	This feature was introduced	Release 24.1.1	<a href="#">Set Limit on Concurrent Streams for gRPC Server</a>
IANA Port Numbers For gRPC Services	This feature was introduced	Release 24.1.1	<a href="#">IANA Port Numbers For gRPC Services</a>
View Inconsistent OpenConfig Configuration	This feature was introduced	Release 24.1.1	<a href="#">View Inconsistent OpenConfig Configuration</a>