



## New and Changed Information

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This chapter provides release-specific information about all features.

- [New and Changed Information, on page 1](#)

## New and Changed Information

This table summarizes the new and changed features, the supported platforms, and links to features.

*Table 1: New and Changed Feature Information*

Feature	Release & Platform
Provisioning	

Feature	Release & Platform
Zero-Touch Provisioning	

Feature	Release & Platform
	<p>Cisco IOS XE Everest 16.5.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 3650 Series Switches</li> <li>• Cisco Catalyst 3850 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> </ul> <p>Cisco IOS XE Everest 16.5.1b</p> <ul style="list-style-type: none"> <li>• Cisco 4000 Series Integrated Services Routers</li> </ul> <p>Cisco IOS XE Everest 16.6.2</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9400 Series Switches</li> </ul> <p>Cisco IOS XE Fuji 16.7.1</p> <ul style="list-style-type: none"> <li>• Cisco ASR 1000 Aggregation Services Routers (ASR1001-X, ASR1001-HX, ASR1002-X, ASR1002-HX)</li> </ul> <p>Cisco IOS XE Fuji 16.8.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9500-High Performance Series Switches</li> </ul> <p>Cisco IOS XE Fuji 16.8.2</p> <ul style="list-style-type: none"> <li>• Cisco ASR 1000 Series Aggregation Services Routers (ASR1004, ASR1006, ASR1006-X, ASR1009-X, ASR1013)</li> </ul> <p>Cisco IOS XE Gibraltar 16.12.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9200 Series Switches</li> </ul> <p><b>Note</b> This feature is not supported on C9200L SKUs.</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300L SKUs</li> <li>• Cisco Catalyst 9600 Series Switches</li> <li>• Cisco Catalyst 9800-40 Wireless Controllers</li> <li>• Cisco Catalyst 9800-80 Wireless Controllers</li> </ul> <p>Cisco IOS XE Amsterdam 17.2.1</p> <ul style="list-style-type: none"> <li>• Cisco Cloud Services Router 1000V Series</li> <li>• Cisco C1100 Terminal Services Gateway (Supported only on C1100TGX-1N24P32A)</li> </ul> <p>Cisco IOS XE Amsterdam 17.3.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 8200 Series Edge Platforms</li> </ul>

Feature	Release & Platform
	<ul style="list-style-type: none"> <li>• Cisco Catalyst 8300 Series Edge Platforms</li> </ul> Cisco IOS XE Cupertino 17.8.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9800-L Wireless Controllers</li> </ul>
Secure Zero-Touch Provisioning	Cisco IOS XE Dublin 17.11.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 and 9300L Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> </ul>
Zero Touch Provisioning: HTTP Download	Cisco IOS XE Fuji 16.8.1 <ul style="list-style-type: none"> <li>• Cisco 4000 Series Integrated Services Routers</li> <li>• Cisco Catalyst 3650 Series Switches</li> <li>• Cisco Catalyst 3850 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> </ul> Cisco IOS XE Fuji 16.8.1a <ul style="list-style-type: none"> <li>• Cisco Catalyst 9500-High Performance Series Switches</li> </ul>
DHCPv6 Support for Zero-Touch Provisioning	Cisco IOS XE Fuji 16.9.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> </ul> Cisco IOS XE Amsterdam 17.3.2a <ul style="list-style-type: none"> <li>• Cisco Catalyst 9800-40 Series Wireless Controllers</li> <li>• Cisco Catalyst 9800-80 Series Wireless Controllers</li> </ul>
Zero-Touch Provisioning Through YANG Models	Cisco IOS XE Cupertino 17.7.1 <ul style="list-style-type: none"> <li>• This feature is supported on all platforms that support NETCONF-YANG.</li> </ul>

Feature	Release & Platform
iPXE	<p>Cisco IOS XE Denali 16.3.2 and Cisco IOS XE Everest 16.5.1a</p> <ul style="list-style-type: none"><li>• Cisco Catalyst 3650 Series Switches</li><li>• Cisco Catalyst 3650 Series Switches</li></ul> <p>Cisco IOS XE Everest 16.6.1</p> <ul style="list-style-type: none"><li>• Cisco Catalyst 9300 Series Switches</li><li>• Cisco Catalyst 9500 Series Switches</li></ul> <p>Cisco IOS XE Everest 16.6.2</p> <ul style="list-style-type: none"><li>• Cisco Catalyst 9400 Series Switches</li></ul> <p>Cisco IOS XE Fuji 16.8.1a</p> <ul style="list-style-type: none"><li>• Cisco Catalyst 9500-High Performance Series Switches</li></ul> <p>Cisco IOS XE Fuji 16.9.2</p> <ul style="list-style-type: none"><li>• Cisco Catalyst 9200 Series Switches</li></ul> <p>Cisco IOS XE Gibraltar 16.11.1</p> <ul style="list-style-type: none"><li>• Cisco Catalyst 9600 Series Switches</li></ul>
Shells and Scripting	

Feature	Release & Platform
Guest Shell	<p>Cisco IOS XE Everest 16.5.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 3650 Series Switches</li> <li>• Cisco Catalyst 3850 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> </ul> <p>Cisco IOS XE Everest 16.5.1b</p> <ul style="list-style-type: none"> <li>• Cisco 4000 Series Integrated Services Routers</li> </ul> <p>Cisco IOS XE Everest 16.6.2</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9400 Series Switches</li> </ul> <p>Cisco IOS XE Fuji 16.7.1</p> <ul style="list-style-type: none"> <li>• Cisco ASR 1000 Aggregation Services Routers (ASR1001-X, ASR1001-HX, ASR1002-X, ASR1002-HX)</li> <li>• Cisco Cloud Services Router 1000V Series</li> </ul> <p>Cisco IOS XE Fuji 16.8.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9500-High Performance Series Switches</li> </ul> <p>Cisco IOS XE Fuji 16.9.1</p> <ul style="list-style-type: none"> <li>• Cisco 1000 Series Integrated Services Routers</li> </ul> <p>Cisco IOS XE Gibraltar 16.11.1b</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9800-40 Wireless Controllers</li> <li>• Cisco Catalyst 9800-80 Wireless Controllers</li> </ul> <p>Cisco IOS XE Gibraltar 16.12.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9200 Series Switches</li> </ul> <p><b>Note</b> This feature is not supported on C9200L SKUs.</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300L SKUs</li> <li>• Cisco Catalyst 9600 Series Switches</li> </ul> <p>Cisco IOS XE Amsterdam 17.3.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 8200 Series Edge Platforms</li> <li>• Cisco Catalyst 8300 Series Edge Platforms</li> </ul>

Feature	Release & Platform
Python 3 Support in Guest Shell	Cisco IOS XE Amsterdam 17.1.1 <ul style="list-style-type: none"><li>• Cisco 1000 Series Integrated Services Routers</li><li>• Cisco ASR 1000 Aggregation Services Routers (ASR1000-RP1, ASR1000-RP2, ASR1000-RP3, ASR1001-X, ASR1001-HX, ASR1002-X, ASR1002-HX)</li><li>• Cisco Catalyst 9300 Series Switches</li><li>• Cisco Catalyst 9400 Series Switches</li><li>• Cisco Catalyst 9500 Series Switches</li><li>• Cisco Catalyst 9600 Series Switches</li><li>• Cisco ISR 4000 Series Integrated Services Routers</li></ul>
NETCONF Access from Guest Shell	Cisco IOS XE Bengaluru 17.6.1 <ul style="list-style-type: none"><li>• Cisco Catalyst 9200 Series Switches</li><li>• Cisco Catalyst 9300 and 9300L Series Switches</li><li>• Cisco Catalyst 9400 Series Switches</li><li>• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li><li>• Cisco Catalyst 9600 Series Switches</li></ul>

Feature	Release & Platform
Python APIs	<p>Cisco IOS XE Everest 16.5.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 3650 Series Switches</li> <li>• Cisco Catalyst 3850 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> </ul> <p>Cisco IOS XE Everest 16.5.1b</p> <ul style="list-style-type: none"> <li>• Cisco 4000 Series Integrated Services Routers</li> </ul> <p>Cisco IOS XE Everest 16.6.2</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9400 Series Switches</li> </ul> <p>Cisco IOS XE Fuji 16.7.1</p> <ul style="list-style-type: none"> <li>• Cisco ASR 1000 Aggregation Services Routers (ASR1001-X, ASR1001-HX, ASR1002-X, ASR1002-HX)</li> <li>• Cisco Cloud Services Router 1000V Series</li> </ul> <p>Cisco IOS XE Fuji 16.8.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9500-High Performance Series Switches</li> </ul>



Feature	Release & Platform
Python CLI Module	<p>Cisco IOS XE Everest 16.5.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 3650 Series Switches</li> <li>• Cisco Catalyst 3850 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> </ul> <p>Cisco IOS XE Everest 16.5.1b</p> <ul style="list-style-type: none"> <li>• Cisco 4000 Series Integrated Services Routers</li> </ul> <p>Cisco IOS XE Everest 16.6.2</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9400 Series Switches</li> </ul> <p>Cisco IOS XE Fuji 16.7.1</p> <ul style="list-style-type: none"> <li>• Cisco ASR 1000 Aggregation Services Routers (ASR1001-X, ASR1001-HX, ASR1002-X, ASR1002-HX)</li> <li>• Cisco Cloud Services Router 1000V Series</li> </ul> <p>Cisco IOS XE Fuji 16.8.1</p> <ul style="list-style-type: none"> <li>• Cisco 4000 Series Integrated Services Router models with a minimum of 4 GB RAM.</li> <li>• Cisco ASR 1000 Series Aggregation Services Routers (ASR1004, ASR1006, ASR1006-X, ASR1009-X, ASR1013)</li> </ul> <p>Cisco IOS XE Fuji 16.8.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9500-High Performance Series Switches</li> </ul>

Feature	Release & Platform
EEM Python Module	<p>Cisco IOS XE Everest 16.5.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 3650 Series Switches</li> <li>• Cisco Catalyst 3850 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> </ul> <p>Cisco IOS XE Everest 16.5.1b</p> <ul style="list-style-type: none"> <li>• Cisco 4000 Series Integrated Services Routers</li> </ul> <p>Cisco IOS XE Everest 16.6.2.</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9400 Series Switches</li> </ul> <p>Cisco IOS XE Fuji 16.7.1</p> <ul style="list-style-type: none"> <li>• Cisco ASR 1000 Aggregation Services Routers (ASR1001-X, ASR1001-HX, ASR1002-X, ASR1002-HX)</li> <li>• Cisco Cloud Services Router 1000V Series</li> </ul> <p>Cisco IOS XE Fuji 16.8.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9500-High Performance Series Switches</li> </ul>
Model-Driven Programmability	

Feature	Release & Platform
NETCONF Protocol	<p>Cisco IOS XE Denali 16.3.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 3650 Series Switches</li> <li>• Cisco Catalyst 3850 Series Switches</li> <li>• Cisco 4000 Series Integrated Services Routers</li> </ul> <p>Cisco IOS XE Everest 16.5.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> </ul> <p>Cisco IOS XE Everest 16.6.2</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9400 Series Switches</li> </ul> <p>Cisco IOS XE Fuji 16.7.1</p> <ul style="list-style-type: none"> <li>• Cisco ASR 900 Series Aggregation Services Routers</li> <li>• Cisco Network Convergence System 4200 Series</li> </ul> <p>Cisco IOS XE Fuji 16.9.2</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9200 Series Switches</li> </ul> <p>Cisco IOS XE Gibraltar 16.10.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9800 Series Wireless Controllers</li> <li>• Cisco Network Convergence System 520 Series</li> <li>• Cisco IR1101 Integrated Services Router Rugged</li> </ul> <p>Cisco IOS XE Gibraltar 16.11.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst IE 3200, 3300, 3400 Rugged Series</li> <li>• Cisco Embedded Service 3300 Series Switches</li> </ul>

Feature	Release & Platform
NETCONF and RESTCONF IPv6 Support	<p>Cisco IOS XE Fuji 16.8.1a</p> <ul style="list-style-type: none"> <li>• Cisco 4000 Series Integrated Services Routers</li> <li>• Cisco ASR 1000 Series Aggregation Services Routers</li> <li>• Cisco ASR 900 Series Aggregation Services Routers</li> <li>• Cisco Catalyst 3650 Series Switches</li> <li>• Cisco Catalyst 3850 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> <li>• Cisco cBR-8 Converged Broadband Router</li> <li>• Cisco Cloud Services Router 1000V Series</li> </ul> <p>Cisco IOS XE Gibraltar 16.11.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9500-High Performance Series Switches</li> </ul>
NETCONF Global Lock and Kill Session	<p>Cisco IOS XE Fuji 16.8.1a</p> <ul style="list-style-type: none"> <li>• Cisco 1100 Series Integrated Services Routers</li> <li>• Cisco 4000 Series Integrated Services Routers</li> <li>• Cisco ASR 1000 Series Aggregation Services Routers</li> <li>• Cisco ASR 900 Series Aggregation Services Routers</li> <li>• Cisco Catalyst 3650 Series Switches</li> <li>• Cisco Catalyst 3850 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> <li>• Cisco cBR-8 Converged Broadband Router</li> <li>• Cisco Cloud Services Router 1000v Series</li> </ul>

Feature	Release & Platform
NETCONF-YANG SSH Server Support	<p data-bbox="816 296 1154 321">Cisco IOS XE Gibraltar 16.12.1</p> <ul data-bbox="850 342 1433 1192" style="list-style-type: none"><li data-bbox="850 342 1360 367">• Cisco 1000 Series Integrated Services Routers</li><li data-bbox="850 390 1360 415">• Cisco 4000 Series Integrated Services Routers</li><li data-bbox="850 438 1433 464">• Cisco ASR 900 Series Aggregation Services Routers</li><li data-bbox="850 487 1433 512">• Cisco ASR 920 Series Aggregation Services Routers</li><li data-bbox="850 535 1373 560">• Cisco ASR 1000 Aggregation Services Routers</li><li data-bbox="850 583 1256 609">• Cisco Catalyst 3650 Series Switches</li><li data-bbox="850 632 1256 657">• Cisco Catalyst 3850 Series Switches</li><li data-bbox="850 680 1256 705">• Cisco Catalyst 9200 Series Switches</li><li data-bbox="850 728 1256 753">• Cisco Catalyst 9300 Series Switches</li><li data-bbox="850 777 1256 802">• Cisco Catalyst 9400 Series Switches</li><li data-bbox="850 825 1256 850">• Cisco Catalyst 9500 Series Switches</li><li data-bbox="850 873 1256 898">• Cisco Catalyst 9600 Series Switches</li><li data-bbox="850 921 1382 947">• Cisco Catalyst 9800 Series Wireless Controllers</li><li data-bbox="850 970 1333 995">• Cisco cBR-8 Converged Broadband Router</li><li data-bbox="850 1018 1328 1043">• Cisco Cloud Services Router 1000V Series</li><li data-bbox="850 1066 1382 1092">• Cisco Network Convergence System 520 Series</li><li data-bbox="850 1115 1382 1140">• Cisco Network Convergence System 4200 Series</li></ul>

Feature	Release & Platform
Named Method List	Cisco IOS XE Cupertino 17.9.1 <ul style="list-style-type: none"> <li>• Cisco 1000 Series Integrated Services Routers</li> <li>• Cisco 4000 Series Integrated Services Routers</li> <li>• Cisco ASR 900 Series Aggregation Services Routers</li> <li>• Cisco ASR 920 Series Aggregation Services Routers</li> <li>• Cisco ASR 1000 Aggregation Services Routers</li> <li>• Cisco Catalyst 8200 Series Edge Platforms</li> <li>• Cisco Catalyst 8300 Series Edge Platforms</li> <li>• Cisco Catalyst 8500 Series and 8500L Series Edge Platforms</li> <li>• Cisco Catalyst 9200 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> <li>• Cisco Catalyst 9800 Series Wireless Controllers</li> <li>• Cisco Cloud Services Router 1000V Series</li> <li>• Cisco Network Convergence System 520 Series</li> <li>• Cisco Network Convergence System 4200 Series</li> </ul>
Side-Effect Synchronization of the Configuration Database	Cisco IOS XE Bengaluru 17.4.1 <ul style="list-style-type: none"> <li>• Cisco ASR 1000 Series Aggregated Services Routers</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> </ul>

Feature	Release & Platform
YANG Model Version 1.1	<p data-bbox="816 291 1154 321">Cisco IOS XE Cupertino 17.7.1</p> <ul data-bbox="850 338 1466 1178" style="list-style-type: none"><li data-bbox="850 338 1360 367">• Cisco 1000 Series Integrated Services Routers</li><li data-bbox="850 390 1360 420">• Cisco 4000 Series Integrated Services Routers</li><li data-bbox="850 443 1360 472">• Cisco ASR 900 Aggregation Services Routers</li><li data-bbox="850 495 1360 525">• Cisco ASR 920 Aggregation Services Routers</li><li data-bbox="850 548 1373 577">• Cisco ASR 1000 Aggregation Services Routers</li><li data-bbox="850 600 1378 630">• Cisco Catalyst 9200 and 9200L Series Switches</li><li data-bbox="850 653 1378 682">• Cisco Catalyst 9300 and 9300L Series Switches</li><li data-bbox="850 705 1256 735">• Cisco Catalyst 9400 Series Switches</li><li data-bbox="850 758 1466 816">• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li><li data-bbox="850 840 1256 869">• Cisco Catalyst 9600 Series Switches</li><li data-bbox="850 892 1344 921">• Cisco Catalyst 9800-40 Wireless Controllers</li><li data-bbox="850 945 1344 974">• Cisco Catalyst 9800-80 Wireless Controllers</li><li data-bbox="850 997 1333 1026">• Cisco cBR-8 Converged Broadband Router</li><li data-bbox="850 1050 1328 1079">• Cisco Cloud Services Router 1000V Series</li><li data-bbox="850 1102 1378 1131">• Cisco Network Convergence System 520 Series</li><li data-bbox="850 1155 1390 1184">• Cisco Network Convergence System 4200 Series</li></ul>

Feature	Release & Platform
Upgrade YANG Models to YANG 1.1	Cisco IOS XE Dublin 17.10.1 <ul style="list-style-type: none"> <li>• Cisco 1000 Series Integrated Services Routers</li> <li>• Cisco 4000 Series Integrated Services Routers</li> <li>• Cisco ASR 900 Aggregation Services Routers</li> <li>• Cisco ASR 920 Aggregation Services Routers</li> <li>• Cisco ASR 1000 Aggregation Services Routers</li> <li>• Cisco Catalyst 9200 and 9200L Series Switches</li> <li>• Cisco Catalyst 9300 and 9300L Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> <li>• Cisco Catalyst 9800-40 Wireless Controllers</li> <li>• Cisco Catalyst 9800-80 Wireless Controllers</li> <li>• Cisco cBR-8 Converged Broadband Router</li> <li>• Cisco Cloud Services Router 1000V Series</li> <li>• Cisco Network Convergence System 520 Series</li> <li>• Cisco Network Convergence System 4200 Series</li> </ul>
Converting IOS Commands to XML	Cisco IOS XE Cupertino 17.7.1 <ul style="list-style-type: none"> <li>• This feature is supported on all platforms that support NETCONF-YANG.</li> </ul>



Feature	Release & Platform
RESTCONF Protocol	<p>Cisco IOS XE Everest 16.6.1</p> <ul style="list-style-type: none"> <li>• Cisco 4000 Series Integrated Services Router</li> <li>• Cisco ASR 1000 Aggregation Services Routers</li> <li>• Cisco Cloud Services Router 1000V Series</li> </ul> <p>Cisco IOS XE Fuji 16.8.1a</p> <ul style="list-style-type: none"> <li>• Cisco 1000 Series Integrated Services Routers</li> <li>• Cisco ASR 900 Series Aggregation Services Routers</li> <li>• Cisco ASR 920 Series Aggregation Services Router</li> <li>• Cisco Catalyst 3650 Series Switches</li> <li>• Cisco Catalyst 3850 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li> <li>• Cisco cBR-8 Converged Broadband Router</li> <li>• Cisco Network Convergence System 4200 Series</li> </ul> <p>Cisco IOS XE Fuji 16.9.2</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9200 Series Switches</li> </ul> <p>Cisco IOS XE Gibraltar 16.11.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9600 Series Switches</li> <li>• Cisco Catalyst 9800-CL Wireless Controller for Cloud</li> <li>• Cisco Catalyst 9800-40 Wireless Controllers</li> <li>• Cisco Catalyst 9800-80 Wireless Controllers</li> <li>• Cisco Network Convergence System 520 Series</li> </ul> <p>Cisco IOS XE Gibraltar 16.12.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9800-L Wireless Controllers</li> </ul> <p>Cisco IOS XE Amsterdam 17.3.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 8200 Series Edge Platforms</li> <li>• Cisco Catalyst 8300 Series Edge Platforms</li> </ul>

Feature	Release & Platform
RESTCONF YANG-Patch Support	<p data-bbox="776 287 1133 317">Cisco IOS XE Amsterdam 17.1.1</p> <ul style="list-style-type: none"> <li data-bbox="813 338 1321 367">• Cisco 1000 Series Integrated Services Routers</li> <li data-bbox="813 388 1321 417">• Cisco 4000 Series Integrated Services Routers</li> <li data-bbox="813 438 1393 468">• Cisco ASR 900 Series Aggregation Services Routers</li> <li data-bbox="813 489 1479 583">• Cisco ASR 1000 Aggregation Services Routers (ASR1000-RP2, ASR1000-RP3, ASR1001-HX, ASR1001-X, ASR1002-HX, ASR1002-X)</li> <li data-bbox="813 604 1219 634">• Cisco Catalyst 9200 Series Switches</li> <li data-bbox="813 655 1219 684">• Cisco Catalyst 9300 Series Switches</li> <li data-bbox="813 705 1219 735">• Cisco Catalyst 9400 Series Switches</li> <li data-bbox="813 756 1219 785">• Cisco Catalyst 9500 Series Switches</li> <li data-bbox="813 806 1292 835">• Cisco cBR-8 Converged Broadband Router</li> <li data-bbox="813 856 1289 886">• Cisco Cloud Services Router 1000V Series</li> <li data-bbox="813 907 1230 936">• Cisco Catalyst IE3200 Rugged Series</li> <li data-bbox="813 957 1230 987">• Cisco Catalyst IE3300 Rugged Series</li> <li data-bbox="813 1008 1230 1037">• Cisco Catalyst IE3400 Rugged Series</li> <li data-bbox="813 1058 1354 1087">• Cisco IR1101 Integrated Services Router Rugged</li> <li data-bbox="813 1108 1338 1138">• Cisco Network Convergence System 520 Series</li> <li data-bbox="813 1159 1354 1188">• Cisco Network Convergence System 4200 Series</li> </ul>

Feature	Release & Platform
NETCONF and RESTCONF Service-Level ACLs	Cisco IOS XE Gibraltar 16.11.1 <ul style="list-style-type: none"><li>• Cisco ASR 900 Series Aggregation Services Routers</li><li>• Cisco ASR 920 Series Aggregated Services Routers</li><li>• Cisco Catalyst 3650 Series Switches</li><li>• Cisco Catalyst 3850 Series Switches</li><li>• Cisco Catalyst 9200 Series Switches</li><li>• Cisco Catalyst 9300 Series Switches</li><li>• Cisco Catalyst 9400 Series Switches</li><li>• Cisco Catalyst 9500 Series Switches</li><li>• Cisco Catalyst IE3200 Rugged Series</li><li>• Cisco Catalyst IE3300 Rugged Series</li><li>• Cisco Catalyst IE3400 Rugged Series</li><li>• Cisco Embedded Services 3300 Series Switches</li><li>• Cisco IR1101 Integrated Services Router Rugged</li><li>• Cisco Network Convergence System 4200 Series</li><li>• Cisco Network Convergence System 520 Series</li></ul>

Feature	Release & Platform
gNMI Protocol	<p>Cisco IOS XE Fuji 16.8.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> </ul> <p>Cisco IOS XE Gibraltar 16.10.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9500-High Performance Series Switches</li> </ul> <p>Cisco IOS XE Gibraltar 16.11.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9600 Series Switches</li> </ul> <p>Cisco IOS XE Gibraltar 16.12.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9200 and 9200L Series Switches</li> <li>• Cisco Catalyst 9300L SKUs</li> <li>• Cisco cBR-8 Converged Broadband Router</li> </ul> <p>Cisco IOS XE Amsterdam 17.1.1</p> <ul style="list-style-type: none"> <li>• Cisco ASR 900 Series Aggregation Services Routers</li> <li>• Cisco ASR 920 Series Aggregation Services Router</li> <li>• Cisco Network Convergence System 520 Series</li> <li>• Cisco Network Convergence System 4200 Series</li> </ul> <p>Cisco IOS XE Amsterdam 17.2.1r</p> <ul style="list-style-type: none"> <li>• Cisco ASR 1000 Series Aggregation Services Routers</li> </ul> <p>Cisco IOS XE Cupertino 17.8.1</p> <ul style="list-style-type: none"> <li>• Cisco 1000 Series Integrated Services Routers</li> <li>• Cisco 4000 Series Integrated Services Routers</li> <li>• Cisco Catalyst 8200 Series Edge Platforms</li> <li>• Cisco Catalyst 8300 Series Edge Platforms</li> <li>• Cisco Catalyst 9800-CL Wireless Controller for Cloud</li> <li>• Cisco Catalyst 9800-40 Wireless Controllers</li> <li>• Cisco Catalyst 9800-80 Wireless Controllers</li> </ul>

Feature	Release & Platform
gNMI IPv6 support	Cisco IOS XE Dublin 17.10.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9200, 9200L Series Switches</li> <li>• Cisco Catalyst 9300, 9300L, 9300X Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> </ul>
gNMI Username and Password Authentication	Cisco IOS XE Gibraltar 16.12.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9200 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> <li>• Cisco Catalyst IE3200 Rugged Series</li> <li>• Cisco Catalyst IE3200 Rugged Series</li> <li>• Cisco Catalyst IE3300 Rugged Series</li> <li>• Cisco Catalyst IE3400 Rugged Series</li> <li>• Cisco Embedded Service 3300 Series Switches</li> </ul>
PROTO Encoding	Cisco IOS XE Dublin 17.11.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9200, 9200L, and 9200X Series Switches</li> <li>• Cisco Catalyst 9300, 9300L, and 9300X Series Switches</li> <li>• Cisco Catalyst 9400 and 9400X Series Switches</li> <li>• Cisco Catalyst 9500, 9500-High Performance, and 9500X Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> </ul>

Feature	Release & Platform
gRPC Network Operations Interface: gNOI Certificate Management & gNOI Bootstrapping with Certificate Service	Cisco IOS XE Amsterdam 17.3.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9200 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> </ul>
gNOI OS Installation Service	Cisco IOS XE Bengaluru 17.5.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9200 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> </ul>
gNOI Factory Reset Service	Cisco IOS XE Cupertino 17.7.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li> <li>• Cisco Catalyst 9800-40 Wireless Controllers</li> <li>• Cisco Catalyst 9800-80 Wireless Controllers</li> </ul>
gNMI Dial-Out Using the gRPC Tunnel Service	Cisco IOS XE Dublin 17.11.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9200, 9200L, and 9200CX Series Switches</li> <li>• Cisco Catalyst 9300, 9300L, and 9300X Series Switches</li> <li>• Cisco Catalyst 9400 and 9400X Series Switches</li> <li>• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li> <li>• Cisco Catalyst 9600 and 9600X Series Switches</li> <li>• Cisco Network Convergence System 4200 Series</li> </ul>

Feature	Release & Platform
Model-Based AAA	<p data-bbox="816 289 1089 321">Cisco IOS XE Fuji 16.8.1</p> <ul data-bbox="850 338 1446 678" style="list-style-type: none"><li data-bbox="850 338 1360 369">• Cisco 1000 Series Integrated Services Routers</li><li data-bbox="850 390 1360 422">• Cisco 4000 Series Integrated Services Routers</li><li data-bbox="850 443 1446 474">• Cisco ASR 1000 Series Aggregation Services Routers</li><li data-bbox="850 495 1433 527">• Cisco ASR 900 Series Aggregation Services Routers</li><li data-bbox="850 548 1433 579">• Cisco ASR 920 Series Aggregation Services Routers</li><li data-bbox="850 600 1321 632">• Cisco Cloud Services Router 1000v Series</li><li data-bbox="850 653 1321 684">• Cisco Network Convergence System 4200</li></ul> <p data-bbox="816 709 1102 741">Cisco IOS XE Fuji 16.8.1a</p> <ul data-bbox="850 758 1256 993" style="list-style-type: none"><li data-bbox="850 758 1256 789">• Cisco Catalyst 3650 Series Switches</li><li data-bbox="850 810 1256 842">• Cisco Catalyst 3850 Series Switches</li><li data-bbox="850 863 1256 894">• Cisco Catalyst 9300 Series Switches</li><li data-bbox="850 915 1256 947">• Cisco Catalyst 9400 Series Switches</li><li data-bbox="850 968 1256 999">• Cisco Catalyst 9500 Series Switches</li></ul>

Feature	Release & Platform
Model-Driven Telemetry NETCONF Dial-In	



Feature	Release & Platform
	<p>Cisco IOS XE Everest 16.6.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 3650 Series Switches</li> <li>• Cisco Catalyst 3850 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> </ul> <p>Cisco IOS XE Everest 16.6.2</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9400 Series Switches</li> </ul> <p>Cisco IOS XE Fuji 16.7.1</p> <ul style="list-style-type: none"> <li>• Cisco 4000 Series Integrated Services Routers</li> <li>• Cisco ASR 1000 Aggregation Services Routers (ASR1001-HX, ASR1001-X, ASR1002-HX, ASR1002-X)</li> </ul> <p>Cisco IOS XE Fuji 16.8.1</p> <ul style="list-style-type: none"> <li>• Cisco 1000 Series Integrated Services Routers</li> <li>• Cisco ASR 1000 RP2 and RP3 Series Aggregation Services Routers</li> </ul> <p>Cisco IOS XE Fuji 16.8.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9500-High Performance Series Switches</li> </ul> <p>Cisco IOS XE Fuji 16.9.1</p> <ul style="list-style-type: none"> <li>• Cisco ASR 900 Series Aggregation Services Routers</li> <li>• Cisco ASR 920 Series Aggregation Services Router</li> <li>• Cisco cBR-8 Converged Broadband Router</li> <li>• Cisco Network Convergence System 4200 Series</li> </ul> <p>Cisco IOS XE Fuji 16.9.2</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9200 and 9200L Series Switches</li> <li>• Cisco Catalyst 9300L SKUs</li> </ul> <p>Cisco IOS XE Gibraltar 16.10.1</p> <ul style="list-style-type: none"> <li>• Cisco Cloud Services Router 1000v</li> <li>• Cisco Network Convergence System 520 Series</li> </ul> <p>Cisco IOS XE Gibraltar 16.11.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9600 Series Switches</li> </ul>

Feature	Release & Platform
	Cisco IOS XE Amsterdam 17.3.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 8200 Series Edge Platforms</li> <li>• Cisco Catalyst 8300 Series Edge Platforms</li> </ul>
Model-Driven Telemetry gRPC Dial-out	Cisco IOS XE Gibraltar 16.10.1 <ul style="list-style-type: none"> <li>• Cisco 1000 Series Integrated Services Routers</li> <li>• Cisco 4000 Series Integrated Services Routers</li> <li>• Cisco ASR 1000 Series Aggregation Services Routers</li> <li>• Cisco ASR 900 Series Aggregation Services Routers</li> <li>• Cisco ASR 920 Series Aggregated Services Router</li> <li>• Cisco Catalyst 9200 and 9200L Series Switches</li> <li>• Cisco Catalyst 9300 and 9300L Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li> <li>• Cisco cBR-8 Converged Broadband Router</li> <li>• Cisco Cloud Services Router 1000V Series</li> <li>• Cisco Network Convergence System 520 Series</li> <li>• Cisco Network Convergence System 4200 Series</li> </ul> Cisco IOS XE Gibraltar 16.11.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9600 Series Switches</li> </ul> Cisco IOS XE Amsterdam 17.3.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 8200 Series Edge Platforms</li> <li>• Cisco Catalyst 8300 Series Edge Platforms</li> </ul>

Feature	Release & Platform
Model-Driven Telemetry gNMI Dial-In	<p data-bbox="816 296 1154 321">Cisco IOS XE Gibraltar 16.12.1</p> <ul data-bbox="850 342 1463 657" style="list-style-type: none"> <li>• Cisco Catalyst 9200 and 9200L Series Switches</li> <li>• Cisco Catalyst 9300 and 9300L Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> <li>• Cisco cBR-8 Converged Broadband Router</li> </ul> <p data-bbox="816 695 1170 720">Cisco IOS XE Amsterdam 17.1.1</p> <ul data-bbox="850 741 1430 926" style="list-style-type: none"> <li>• Cisco ASR 900 Series Aggregation Services Routers</li> <li>• Cisco ASR 920 Series Aggregated Services Router</li> <li>• Cisco Network Convergence System 520 Series</li> <li>• Cisco Network Convergence System 4200 Series</li> </ul> <p data-bbox="816 963 1170 989">Cisco IOS XE Amsterdam 17.2.1</p> <ul data-bbox="850 1010 1446 1035" style="list-style-type: none"> <li>• Cisco ASR 1000 Series Aggregation Services Routers</li> </ul> <p data-bbox="816 1073 1170 1098">Cisco IOS XE Amsterdam 17.3.1</p> <ul data-bbox="850 1119 1446 1144" style="list-style-type: none"> <li>• Cisco ASR 1000 Series Aggregation Services Routers</li> </ul> <p data-bbox="816 1182 1154 1207">Cisco IOS XE Cupertino 17.8.1</p> <ul data-bbox="850 1228 1360 1413" style="list-style-type: none"> <li>• Cisco 1000 Series Integrated Services Routers</li> <li>• Cisco 4000 Series Integrated Services Routers</li> <li>• Cisco Catalyst 8200 Series Edge Platforms</li> <li>• Cisco Catalyst 8300 Series Edge Platforms</li> </ul>

Feature	Release & Platform
TLS for gRPC Dial-Out	Cisco IOS XE Amsterdam 17.1.1 <ul style="list-style-type: none"> <li>• Cisco 1000 Series Integrated Services Routers</li> <li>• Cisco 4000 Series Integrated Services Routers</li> <li>• Cisco ASR 900 Series Aggregation Services Routers</li> <li>• Cisco ASR 1000 Series Aggregation Services Routers ASR1000-RP1, ASR1000-RP2, ASR1000-RP3, ASR1001-HX, ASR1001-X, ASR1002-HX, ASR1002-X)</li> <li>• Cisco Catalyst 9200 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> <li>• Cisco cBR-8 Converged Broadband Router</li> <li>• Cisco Cloud Services Router 1000V Series</li> <li>• Cisco Catalyst IE3200 Rugged Series</li> <li>• Cisco Catalyst IE3300 Rugged Series</li> <li>• Cisco Catalyst IE3400 Rugged Series</li> <li>• Cisco IR1101 Integrated Services Router Rugged</li> <li>• Cisco Network Convergence System 520 Series</li> <li>• Cisco Network Convergence System 4200 Series</li> </ul>
TLDP On-Change Notifications	Cisco IOS XE Amsterdam 17.2.1 <ul style="list-style-type: none"> <li>• Cisco 4000 Series Integrated Services Routers</li> <li>• Cisco Catalyst 9200 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> </ul>
Subscription Dampening Period for On-Change Telemetry	Cisco IOS XE Dublin 17.11.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9800-CL Series Wireless Controller for Cloud</li> <li>• Cisco Catalyst 9800-40 Series Wireless Controller</li> <li>• Cisco Catalyst 9800-80 Series Wireless Controller</li> </ul>

Feature	Release & Platform
Kill Telemetry Subscription	<p>Cisco IOS XE Gibraltar 16.11.1</p> <ul style="list-style-type: none"> <li>• Cisco ASR 900 Series Aggregation Services Routers</li> <li>• Cisco ASR 920 Series Aggregated Services Routers</li> <li>• Cisco Catalyst 3650 Series Switches</li> <li>• Cisco Catalyst 3850 Series Switches</li> <li>• Cisco Catalyst 9200 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> <li>• Cisco IR1101 Integrated Services Router Rugged</li> <li>• Cisco Network Convergence System 4200 Series</li> <li>• Cisco Network Convergence System 520 Series</li> </ul> <p>Cisco IOS XE Gibraltar 16.11.1a</p> <ul style="list-style-type: none"> <li>• Cisco 1000 Series Integrated Services Routers</li> <li>• Cisco 4000 Series Integrated Services Routers</li> <li>• Cisco ASR 1000 Series Aggregation Services Routers</li> <li>• Cisco ASR 900 Series Aggregation Services Routers</li> <li>• Cisco ASR 920 Series Aggregation Services Routers</li> <li>• Cisco Cloud Services Router 1000V Series</li> </ul>
FQDN Support for gRPC Subscriptions	<p>Cisco IOS XE Bengaluru 17.6.1</p> <ul style="list-style-type: none"> <li>• Cisco ASR 900 Series Aggregation Services Routers (RSP2)</li> <li>• Cisco Catalyst 9200 Series Switches</li> <li>• Cisco Catalyst 9800-40 Wireless Controllers</li> <li>• Cisco Catalyst 9800-80 Wireless Controllers</li> </ul>
Leaf-Level Filtering	<p>Cisco IOS XE Cupertino 17.7.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 and 9300L Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> </ul>

Feature	Release & Platform
Mutual Authentication for gRPC Telemetry	Cisco IOS XE Cupertino 17.9.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9800-CL Series Wireless Controller for Cloud</li> <li>• Cisco Catalyst 9800-40 Series Wireless Controller</li> <li>• Cisco Catalyst 9800-80 Series Wireless Controller</li> </ul>
Pubd Restartability	Cisco IOS XE Cupertino 17.9.1 <ul style="list-style-type: none"> <li>• Cisco 1000 Series Integrated Services Routers</li> <li>• Cisco 4000 Series Integrated Services Routers</li> <li>• Cisco ASR 1000 Series Aggregation Services Routers</li> <li>• Cisco ASR 900 Series Aggregation Services Routers</li> <li>• Cisco ASR 920 Series Aggregated Services Router</li> <li>• Cisco Catalyst 9200 and 9200L Series Switches</li> <li>• Cisco Catalyst 9300 and 9300L Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> <li>• Cisco Catalyst 9800-CL Series Wireless Controller for Cloud</li> <li>• Cisco Catalyst 9800-40 Series Wireless Controller</li> <li>• Cisco Catalyst 9800-80 Series Wireless Controller</li> <li>• Cisco cBR-8 Converged Broadband Router</li> <li>• Cisco Cloud Services Router 1000V Series</li> <li>• Cisco Network Convergence System 520 Series</li> <li>• Cisco Network Convergence System 4200 Series</li> </ul>

Feature	Release & Platform
In-Service Model Updates	<p>Cisco IOS XE Everest 16.5.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches</li> </ul> <p>Cisco IOS XE Everest 16.5.1b</p> <ul style="list-style-type: none"> <li>• Cisco 4000 Series Integrated Services Routers</li> </ul> <p>Cisco IOS XE Everest 16.6.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 3650 Series Switches</li> <li>• Cisco Catalyst 3850 Series Switches</li> </ul> <p>Cisco IOS XE Everest 16.6.2</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9400 Series Switches</li> </ul> <p>Cisco IOS XE Fuji 16.7.1</p> <ul style="list-style-type: none"> <li>• Cisco ASR 1000 Aggregation Services Routers</li> </ul> <p>Cisco IOS XE Fuji 16.8.1a</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9500-High Performance Series Switches.</li> </ul>
Application Hosting	
Application Hosting	<p>Cisco IOS XE Gibraltar 16.12.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 Series Switches</li> </ul> <p>Cisco IOS XE Amsterdam 17.1.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9400 Series Switches</li> </ul> <p>Cisco IOS XE Amsterdam 17.2.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9500-High Performance Series Switches</li> <li>• Cisco Catalyst 9600 Series Switches</li> </ul> <p>Cisco IOS XE Bengaluru 17.5.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9410 Series Switches</li> </ul> <p>Cisco IOS XE Cupertino 17.7.1</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 9500-X Series Switches</li> </ul>

Feature	Release & Platform
Application Hosting: Front-Panel Network Port Access	Cisco IOS XE Gibraltar 16.12.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 Series Switches</li> </ul> Cisco IOS XE Amsterdam 17.1.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9400 Series Switches</li> </ul> <b>Note</b> Cisco Catalyst 9410R Switch does not support front-panel application-hosting.
Application Hosting: Front-Panel USB Port Access	Cisco IOS XE Gibraltar 16.12.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 Series Switches</li> </ul> Cisco IOS XE Amsterdam 17.1.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9400 Series Switches</li> </ul> <b>Note</b> Cisco Catalyst 9410R Switch does not support front-panel application-hosting.
Native Docker Container: Application Auto-Restart	Cisco IOS XE Amsterdam 17.2.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 Series Switches</li> </ul> Cisco IOS XE Bengaluru 17.5.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9410 Series Switches</li> </ul>
Application Hosting: ERSPAN Support on the AppGigabitEthernet Port	Cisco IOS XE Dublin 17.10.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300, 9300L, 9300X Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> </ul>
Multicast Routing on the AppGigabitEthernet Port	Cisco IOS XE Dublin 17.11.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300, 9300L, 9300X Series Switches</li> <li>• Cisco Catalyst 9400 and 9400X Series Switches</li> <li>• Cisco Catalyst 9500-High Performance Series Switches</li> <li>• Cisco Catalyst 9600 and 9600X Series Switches</li> </ul>



Feature	Release & Platform
Application Hosting: ThousandEyes Integration	Cisco IOS XE Amsterdam 17.3.3 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 and 9300L Series Switches</li> </ul> Cisco IOS XE Bengaluru 17.5.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9400 Series Switches</li> </ul> Cisco IOS XE Bengaluru 17.6.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300X Series Switches</li> </ul>
ThousandEyes BrowserBot	Cisco IOS XE Bengaluru 17.6.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300, 9300L, and 9300X Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> </ul>
<b>OpenFlow</b>	
OpenFlow	Cisco IOS XE Fuji 16.9.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches and Cisco Catalyst 9500-High Performance Series Switches</li> </ul>
OpenFlow Power over Ethernet	Cisco IOS XE Gibraltar 16.12.1 <ul style="list-style-type: none"> <li>• Catalyst 9300 Series Switches</li> <li>• Catalyst 9400 Series Switches</li> </ul>
OpenFlow Rewrite Fields	Cisco IOS XE Bengaluru 17.4.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9300 Series Switches</li> <li>• Cisco Catalyst 9400 Series Switches</li> <li>• Cisco Catalyst 9500 Series Switches and Cisco Catalyst 9500-High Performance Series Switches</li> </ul>
High Availability in OpenFlow Mode	Cisco IOS XE Bengaluru 17.5.1 <ul style="list-style-type: none"> <li>• Cisco Catalyst 9400 Series Switches</li> </ul>

