



## New and Changed Information

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This chapter provides release-specific information about all features.

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## 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 data-bbox="776 289 1101 321">Cisco IOS XE Everest 16.5.1a</p> <ul data-bbox="813 338 1219 527" style="list-style-type: none"> <li data-bbox="813 338 1219 369">• Cisco Catalyst 3650 Series Switches</li> <li data-bbox="813 386 1219 417">• Cisco Catalyst 3850 Series Switches</li> <li data-bbox="813 434 1219 466">• Cisco Catalyst 9300 Series Switches</li> <li data-bbox="813 483 1219 514">• Cisco Catalyst 9500 Series Switches</li> </ul> <p data-bbox="776 556 1101 588">Cisco IOS XE Everest 16.5.1b</p> <ul data-bbox="813 604 1325 636" style="list-style-type: none"> <li data-bbox="813 604 1325 636">• Cisco 4000 Series Integrated Services Routers</li> </ul> <p data-bbox="776 667 1089 699">Cisco IOS XE Everest 16.6.2</p> <ul data-bbox="813 716 1219 747" style="list-style-type: none"> <li data-bbox="813 716 1219 747">• Cisco Catalyst 9400 Series Switches</li> </ul> <p data-bbox="776 779 1052 810">Cisco IOS XE Fuji 16.7.1</p> <ul data-bbox="813 827 1481 940" style="list-style-type: none"> <li data-bbox="813 827 1481 890">• Cisco ASR 1000 Aggregation Services Routers (ASR1001-X, ASR1001-HX, ASR1002-X, ASR1002-HX)</li> <li data-bbox="813 907 1289 938">• Cisco Cloud Services Router 1000V Series</li> </ul> <p data-bbox="776 972 1065 1003">Cisco IOS XE Fuji 16.8.1a</p> <ul data-bbox="813 1020 1422 1052" style="list-style-type: none"> <li data-bbox="813 1020 1422 1052">• 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="816 291 1154 321">Cisco IOS XE Gibraltar 16.12.1</p> <ul data-bbox="850 338 1430 1192" 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 1430 472">• Cisco ASR 900 Series Aggregation Services Routers</li><li data-bbox="850 495 1430 525">• Cisco ASR 920 Series Aggregation Services Routers</li><li data-bbox="850 548 1370 577">• Cisco ASR 1000 Aggregation Services Routers</li><li data-bbox="850 600 1256 630">• Cisco Catalyst 3650 Series Switches</li><li data-bbox="850 653 1256 682">• Cisco Catalyst 3850 Series Switches</li><li data-bbox="850 705 1256 735">• Cisco Catalyst 9200 Series Switches</li><li data-bbox="850 758 1256 787">• Cisco Catalyst 9300 Series Switches</li><li data-bbox="850 810 1256 840">• Cisco Catalyst 9400 Series Switches</li><li data-bbox="850 863 1256 892">• Cisco Catalyst 9500 Series Switches</li><li data-bbox="850 915 1256 945">• Cisco Catalyst 9600 Series Switches</li><li data-bbox="850 968 1377 997">• Cisco Catalyst 9800 Series Wireless Controllers</li><li data-bbox="850 1020 1328 1050">• Cisco cBR-8 Converged Broadband Router</li><li data-bbox="850 1073 1328 1102">• Cisco Cloud Services Router 1000V Series</li><li data-bbox="850 1125 1377 1155">• Cisco Network Convergence System 520 Series</li><li data-bbox="850 1178 1393 1207">• 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 1377 630">• Cisco Catalyst 9200 and 9200L Series Switches</li><li data-bbox="850 653 1377 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 1377 1131">• Cisco Network Convergence System 520 Series</li><li data-bbox="850 1155 1393 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 data-bbox="818 296 1127 323">Cisco IOS XE Everest 16.6.1</p> <ul data-bbox="850 342 1373 474" style="list-style-type: none"> <li data-bbox="850 342 1352 369">• Cisco 4000 Series Integrated Services Router</li> <li data-bbox="850 392 1373 420">• Cisco ASR 1000 Aggregation Services Routers</li> <li data-bbox="850 443 1328 470">• Cisco Cloud Services Router 1000V Series</li> </ul> <p data-bbox="818 510 1105 537">Cisco IOS XE Fuji 16.8.1a</p> <ul data-bbox="850 556 1463 1079" style="list-style-type: none"> <li data-bbox="850 556 1360 583">• Cisco 1000 Series Integrated Services Routers</li> <li data-bbox="850 606 1433 634">• Cisco ASR 900 Series Aggregation Services Routers</li> <li data-bbox="850 657 1422 684">• Cisco ASR 920 Series Aggregation Services Router</li> <li data-bbox="850 707 1256 735">• Cisco Catalyst 3650 Series Switches</li> <li data-bbox="850 758 1256 785">• Cisco Catalyst 3850 Series Switches</li> <li data-bbox="850 808 1256 835">• Cisco Catalyst 9300 Series Switches</li> <li data-bbox="850 858 1256 886">• Cisco Catalyst 9400 Series Switches</li> <li data-bbox="850 909 1463 974">• Cisco Catalyst 9500 and 9500-High Performance Series Switches</li> <li data-bbox="850 997 1333 1024">• Cisco cBR-8 Converged Broadband Router</li> <li data-bbox="850 1047 1393 1075">• Cisco Network Convergence System 4200 Series</li> </ul> <p data-bbox="818 1115 1089 1142">Cisco IOS XE Fuji 16.9.2</p> <ul data-bbox="850 1161 1256 1188" style="list-style-type: none"> <li data-bbox="850 1161 1256 1188">• Cisco Catalyst 9200 Series Switches</li> </ul> <p data-bbox="818 1228 1154 1255">Cisco IOS XE Gibraltar 16.11.1</p> <ul data-bbox="850 1274 1451 1509" style="list-style-type: none"> <li data-bbox="850 1274 1256 1302">• Cisco Catalyst 9600 Series Switches</li> <li data-bbox="850 1325 1451 1352">• Cisco Catalyst 9800-CL Wireless Controller for Cloud</li> <li data-bbox="850 1375 1344 1402">• Cisco Catalyst 9800-40 Wireless Controllers</li> <li data-bbox="850 1425 1344 1453">• Cisco Catalyst 9800-80 Wireless Controllers</li> <li data-bbox="850 1476 1378 1503">• Cisco Network Convergence System 520 Series</li> </ul> <p data-bbox="818 1543 1154 1570">Cisco IOS XE Gibraltar 16.12.1</p> <ul data-bbox="850 1589 1333 1617" style="list-style-type: none"> <li data-bbox="850 1589 1333 1617">• Cisco Catalyst 9800-L Wireless Controllers</li> </ul> <p data-bbox="818 1656 1170 1684">Cisco IOS XE Amsterdam 17.3.1</p> <ul data-bbox="850 1703 1328 1785" style="list-style-type: none"> <li data-bbox="850 1703 1328 1730">• Cisco Catalyst 8200 Series Edge Platforms</li> <li data-bbox="850 1753 1328 1780">• 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 1325 367">• Cisco 1000 Series Integrated Services Routers</li> <li data-bbox="813 388 1325 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 1292 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 1357 1087">• Cisco IR1101 Integrated Services Router Rugged</li> <li data-bbox="813 1108 1341 1138">• Cisco Network Convergence System 520 Series</li> <li data-bbox="813 1159 1357 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 data-bbox="776 289 1065 321">Cisco IOS XE Fuji 16.8.1a</p> <ul data-bbox="813 338 1219 474" style="list-style-type: none"> <li data-bbox="813 338 1219 369">• Cisco Catalyst 9300 Series Switches</li> <li data-bbox="813 386 1219 417">• Cisco Catalyst 9400 Series Switches</li> <li data-bbox="813 434 1219 466">• Cisco Catalyst 9500 Series Switches</li> </ul> <p data-bbox="776 506 1117 537">Cisco IOS XE Gibraltar 16.10.1</p> <ul data-bbox="813 554 1425 585" style="list-style-type: none"> <li data-bbox="813 554 1425 585">• Cisco Catalyst 9500-High Performance Series Switches</li> </ul> <p data-bbox="776 617 1117 648">Cisco IOS XE Gibraltar 16.11.1</p> <ul data-bbox="813 665 1219 697" style="list-style-type: none"> <li data-bbox="813 665 1219 697">• Cisco Catalyst 9600 Series Switches</li> </ul> <p data-bbox="776 728 1117 760">Cisco IOS XE Gibraltar 16.12.1</p> <ul data-bbox="813 777 1341 913" style="list-style-type: none"> <li data-bbox="813 777 1341 808">• Cisco Catalyst 9200 and 9200L Series Switches</li> <li data-bbox="813 825 1130 856">• Cisco Catalyst 9300L SKUs</li> <li data-bbox="813 873 1292 905">• Cisco cBR-8 Converged Broadband Router</li> </ul> <p data-bbox="776 942 1130 974">Cisco IOS XE Amsterdam 17.1.1</p> <ul data-bbox="813 991 1393 1178" style="list-style-type: none"> <li data-bbox="813 991 1393 1022">• Cisco ASR 900 Series Aggregation Services Routers</li> <li data-bbox="813 1039 1382 1071">• Cisco ASR 920 Series Aggregation Services Router</li> <li data-bbox="813 1087 1341 1119">• Cisco Network Convergence System 520 Series</li> <li data-bbox="813 1136 1352 1167">• Cisco Network Convergence System 4200 Series</li> </ul> <p data-bbox="776 1207 1143 1239">Cisco IOS XE Amsterdam 17.2.1r</p> <ul data-bbox="813 1255 1406 1287" style="list-style-type: none"> <li data-bbox="813 1255 1406 1287">• Cisco ASR 1000 Series Aggregation Services Routers</li> </ul> <p data-bbox="776 1318 1114 1350">Cisco IOS XE Cupertino 17.8.1</p> <ul data-bbox="813 1367 1411 1709" style="list-style-type: none"> <li data-bbox="813 1367 1325 1398">• Cisco 1000 Series Integrated Services Routers</li> <li data-bbox="813 1415 1325 1446">• Cisco 4000 Series Integrated Services Routers</li> <li data-bbox="813 1463 1287 1495">• Cisco Catalyst 8200 Series Edge Platforms</li> <li data-bbox="813 1512 1287 1543">• Cisco Catalyst 8300 Series Edge Platforms</li> <li data-bbox="813 1560 1411 1591">• Cisco Catalyst 9800-CL Wireless Controller for Cloud</li> <li data-bbox="813 1608 1305 1640">• Cisco Catalyst 9800-40 Wireless Controllers</li> <li data-bbox="813 1656 1305 1688">• 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="850 388 1360 420">• Cisco 4000 Series Integrated Services Routers</li><li data-bbox="850 438 1446 470">• Cisco ASR 1000 Series Aggregation Services Routers</li><li data-bbox="850 489 1433 520">• Cisco ASR 900 Series Aggregation Services Routers</li><li data-bbox="850 539 1433 571">• Cisco ASR 920 Series Aggregation Services Routers</li><li data-bbox="850 590 1321 621">• Cisco Cloud Services Router 1000v Series</li><li data-bbox="850 640 1321 672">• 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="850 808 1256 840">• Cisco Catalyst 3850 Series Switches</li><li data-bbox="850 858 1256 890">• Cisco Catalyst 9300 Series Switches</li><li data-bbox="850 909 1256 940">• Cisco Catalyst 9400 Series Switches</li><li data-bbox="850 959 1256 991">• 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>

