

New and Changed Information

This chapter provides release-specific information about all features.

• New and Changed Feature Information, on page 1

New and Changed Feature 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	

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Cisco IOS XE Everest 16.5.1a • Cisco Catalyst 3650 Series Switches • Cisco Catalyst 3850 Series Switches • Cisco Catalyst 9300 Series Switches • Cisco Catalyst 9500 Series Switches
 Cisco Catalyst 3850 Series Switches Cisco Catalyst 9300 Series Switches
Cisco Catalyst 9300 Series Switches
Cisco Catalyst 9500 Series Switches
Cisco IOS XE Everest 16.5.1b
Cisco 4000 Series Integrated Services Routers
Sisco IOS XE Everest 16.6.2
Cisco Catalyst 9400 Series Switches
Sisco IOS XE Fuji 16.7.1
• Cisco ASR 1000 Aggregation Services Routers (ASR1001-X, ASR1001-HX, ASR1002-X, ASR1002-HX)
Cisco IOS XE Fuji 16.8.1a
Cisco Catalyst 9500-High Performance Series Switches
Cisco IOS XE Fuji 16.8.2
Cisco ASR 1000 Aggregation Services Routers (ASR1004, ASR1006, ASR1006-X, ASR1009-X, ASR1013)
Cisco IOS XE Fuji 16.8.1
Cisco 4000 Series Integrated Services Routers
Cisco Catalyst 3650 Series Switches
Cisco Catalyst 3850 Series Switches
Cisco Catalyst 9300 Series Switches
Cisco Catalyst 9500 Series Switches
Cisco IOS XE Fuji 16.8.1a
Cisco Catalyst 9500-High Performance Series Switches

Feature	Release & Platform
iPXE	Cisco IOS XE Denali 16.3.2 and Cisco IOS XE Everest 16.5.1a
	Cisco Catalyst 3650 Series Switches
	Cisco Catalyst 3650 Series Switches
	Cisco IOS XE Everest 16.6.1
	Cisco Catalyst 9300 Series Switches
	Cisco Catalyst 9500 Series Switches
	Cisco IOS XE Everest 16.6.2
	Cisco Catalyst 9400 Series Switches
	Cisco IOS XE Fuji 16.8.1a
	Cisco Catalyst 9500-High Performance Series Switches
Shells and Scripting	
Guest Shell	Cisco IOS XE Everest 16.5.1a
	Cisco Catalyst 3650 Series Switches
	Cisco Catalyst 3850 Series Switches
	Cisco Catalyst 9300 Series Switches
	Cisco Catalyst 9500 Series Switches
	Cisco IOS XE Everest 16.5.1b
	Cisco 4000 Series Integrated Services Routers
	Cisco IOS XE Everest 16.6.2
	Cisco Catalyst 9400 Series Switches
	Cisco IOS XE Fuji 16.7.1
	• Cisco ASR 1000 Aggregation Services Routers (ASR1001-X, ASR1001-HX, ASR1002-X, ASR1002-HX)
	Cisco Cloud Services Router 1000V Series
	Cisco IOS XE Fuji 16.8.1
	Cisco Catalyst 9500-High Performance Series Switches

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Feature	Release & Platform
Python APIs	Cisco IOS XE Everest 16.5.1a
	Cisco Catalyst 3650 Series Switches
	Cisco Catalyst 3850 Series Switches
	Cisco Catalyst 9300 Series Switches
	Cisco Catalyst 9500 Series Switches
	Cisco IOS XE Everest 16.5.1b
	Cisco 4000 Series Integrated Services Routers
	Cisco IOS XE Everest 16.6.2
	Cisco Catalyst 9400 Series Switches
	Cisco IOS XE Fuji 16.7.1
	Cisco ASR 1000 Aggregation Services Routers (ASR1001-X, ASR1001-HX, ASR1002-X, ASR1002-HX)
	Cisco Cloud Services Router 1000V Series
	Cisco IOS XE Fuji 16.8.1a
	Cisco Catalyst 9500-High Performance Series Switches

Feature	Release & Platform
Python CLI Module	Cisco IOS XE Everest 16.5.1a
	Cisco Catalyst 3650 Series Switches
	Cisco Catalyst 3850 Series Switches
	Cisco Catalyst 9300 Series Switches
	Cisco Catalyst 9500 Series Switches
	Cisco IOS XE Everest 16.5.1b
	Cisco 4000 Series Integrated Services Routers
	Cisco IOS XE Everest 16.6.2
	Cisco Catalyst 9400 Series Switches
	Cisco IOS XE Fuji 16.7.1
	Cisco ASR 1000 Aggregation Services Routers (ASR1001-X, ASR1001-HX, ASR1002-X, ASR1002-HX)
	Cisco Cloud Services Router 1000V Series
	Cisco IOS XE Fuji 16.8.1
	• Cisco 4000 Series Integrated Services Router models with a minimum of 4 GB RAM.
	Cisco ASR 1000 Aggregation Services Routers (ASR1004, ASR1006, ASR1006-X, ASR1009-X, ASR1013)
	Cisco IOS XE Fuji 16.8.1a
	Cisco Catalyst 9500-High Performance Series Switches

Feature	Release & Platform
EEM Python Module	Cisco IOS XE Everest 16.5.1a
	Cisco Catalyst 3650 Series Switches
	Cisco Catalyst 3850 Series Switches
	Cisco Catalyst 9300 Series Switches
	Cisco Catalyst 9500 Series Switches
	Cisco IOS XE Everest 16.5.1b
	Cisco 4000 Series Integrated Services Routers
	Cisco IOS XE Everest 16.6.2.
	Cisco Catalyst 9400 Series Switches
	Cisco IOS XE Fuji 16.7.1
	Cisco ASR 1000 Aggregation Services Routers (ASR1001-X, ASR1001-HX, ASR1002-X, ASR1002-HX)
	Cisco Cloud Services Router 1000V Series
	Cisco IOS XE Fuji 16.8.1a
	Cisco Catalyst 9500-High Performance Series Switches
Model-Driven Programmabilit	y

Feature	Release & Platform
NETCONF Protocol	Cisco IOS XE Denali 16.3.1
	Cisco 4000 Series Integrated Services Routers
	Cisco ASR 1000 Series Aggregation Services Routers
	Cisco Cloud Services Router 1000V Series
	Cisco IOS XE Everest 16.5.1a
	Cisco Catalyst 3650 Series Switches
	Cisco Catalyst 3850 Series Switches
	Cisco IOS XE Everest 16.6.2
	Cisco Catalyst 9300 Series Switches
	Cisco Catalyst 9400 Series Switches
	Cisco Catalyst 9500 Series Switches
	Cisco IOS XE Fuji 16.8.1a
	Cisco 1000 Series Integrated Services Routers
	Cisco ASR 900 Series Aggregation Services Routers
	Cisco ASR 920 Series Aggregation Services Routers
	Cisco Catalyst 9500-High Performance Series Switches
	Cisco cBR-8 Converged Broadband Router
	Cisco Network Convergence System 4200 Series
NETCONF and RESTCONF IPv	6 Cisco IOS XE Fuji 16.8.1a
Support	Cisco 4000 Series Integrated Services Routers
	Cisco ASR 1000 Series Aggregation Services Routers
	Cisco ASR 900 Series Aggregation Services Routers
	Cisco Catalyst 3650 Series Switches
	Cisco Catalyst 3850 Series Switches
	Cisco Catalyst 9300 Series Switches
	Cisco Catalyst 9400 Series Switches
	Cisco Catalyst 9500 Series Switches
	Cisco cBR-8 Converged Broadband Router
	Cisco Cloud Services Router 1000V Series

Feature	Release & Platform
NETCONF Global Lock and Kill Session	Cisco IOS XE Fuji 16.8.1a
	Cisco 1100 Series Integrated Services Routers
	Cisco 4000 Series Integrated Services Routers
	Cisco ASR 1000 Series Aggregation Services Routers
	Cisco ASR 900 Series Aggregation Services Routers
	Cisco Catalyst 3650 Series Switches
	Cisco Catalyst 3850 Series Switches
	Cisco Catalyst 9300 Series Switches
	Cisco Catalyst 9400 Series Switches
	Cisco Catalyst 9500 Series Switches
	Cisco cBR-8 Converged Broadband Router
	Cisco Cloud Services Router 1000v Series
RESTCONF Protocol	Cisco IOS XE Everest 16.6.1
	Cisco 4000 Series Integrated Services Router
	Cisco ASR 1000 Aggregation Services Routers
	Cisco Cloud Services Router 1000V Series
	Cisco IOS XE Fuji 16.8.1a
	Cisco 1000 Series Integrated Services Routers
	Cisco ASR 900 Series Aggregation Services Routers
	Cisco ASR 920 Series Aggregation Services Router
	Cisco Catalyst 3650 Series Switches
	Cisco Catalyst 3850 Series Switches
	Cisco Catalyst 9300 Series Switches
	Cisco Catalyst 9400 Series Switches
	Cisco Catalyst 9500 and 9500-High Performance Series Switches
	Cisco cBR-8 Converged Broadband Router
	Cisco Network Convergence System 4200 Series

Feature	Release & Platform
gNMI Protocol	Cisco IOS XE Fuji 16.8.1a
	Cisco Catalyst 9300 Series Switches
	Cisco Catalyst 9400 Series Switches
	Cisco Catalyst 9500 Series Switches
Model-Based AAA	Cisco IOS XE Fuji 16.8.1
	Cisco 1000 Series Integrated Services Routers
	Cisco 4000 Series Integrated Services Routers
	Cisco ASR 1000 Series Aggregation Services Routers
	Cisco ASR 900 Series Aggregation Services Routers
	Cisco ASR 920 Series Aggregation Services Routers
	Cisco Cloud Services Router 1000v Series
	Cisco Network Convergence System 4200
	Cisco IOS XE Fuji 16.8.1a
	Cisco Catalyst 3650 Series Switches
	Cisco Catalyst 3850 Series Switches
	Cisco Catalyst 9300 Series Switches
	Cisco Catalyst 9400 Series Switches
	Cisco Catalyst 9500 Series Switches

Feature	Release & Platform
Model-Driven Telemetry NETCONF Dial-In	Cisco IOS XE Everest 16.6.1
	Cisco Catalyst 3650 Series Switches
	Cisco Catalyst 3850 Series Switches
	Cisco Catalyst 9300 Series Switches
	Cisco Catalyst 9500 Series Switches
	Cisco IOS XE Everest 16.6.2
	Cisco Catalyst 9400 Series Switches
	Cisco IOS XE Fuji 16.7.1
	Cisco 4000 Series Integrated Services Routers
	Cisco ASR 1000 Series Aggregation Services Routers (ASR1001-HX, ASR1001-X, ASR1002-HX, ASR1002-X)
	Cisco IOS XE Fuji 16.8.1
	Cisco ASR 1000 RP2 and RP3 Series Aggregation Services Routers
	Cisco IOS XE Fuji 16.8.1
	Cisco 1000 Series Integrated Services Routers
	Cisco ASR 1000 RP2 and RP3 Series Aggregation Services Routers
	Cisco IOS XE Fuji 16.8.1a
	Cisco Catalyst 9500-High Performance Series Switches

Feature	Release & Platform
In-Service Model Updates	Cisco IOS XE Everest 16.5.1a
	Cisco Catalyst 9300 Series Switches
	Cisco Catalyst 9500 Series Switches
	Cisco IOS XE Everest 16.5.1b
	Cisco 4000 Series Integrated Services Routers
	Cisco IOS XE Everest 16.6.1
	Cisco Catalyst 3650 Series Switches
	Cisco Catalyst 3850 Series Switches
	Cisco IOS XE Everest 16.6.2
	Cisco Catalyst 9400 Series Switches
	Cisco IOS XE Fuji 16.7.1
	Cisco ASR 1000 Aggregation Services Routers
	Cisco IOS XE Fuji 16.8.1a
	Cisco Catalyst 9500-High Performance Series Switches.