

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 | |
| Zero-Touch Provisioning | 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 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) |

| Feature | Release & Platform |
|--|---|
| Zero Touch Provisioning: HTTP Download | 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 |
| DHCPv6 Support for Zero-Touch | Cisco IOS XE Fuji 16.9.1 |
| Provisioning | Cisco Catalyst 9300 Series Switches |
| | Cisco Catalyst 9500 Series Switches |
| 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 |
| | Cisco IOS XE Fuji 16.9.2 |
| | Cisco Catalyst 9200 Series Switches |

| Feature | Release & Platform |
|-------------|---|
| 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 |
| | Cisco IOS XE Fuji 16.9.1 |
| | Cisco 1000 Series Integrated Services Routers |

| 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 Programmability | |

| 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 |
| | Cisco IOS XE Fuji 16.9.2 |
| | Cisco Catalyst 9200 and 9200L Series Switches |
| | Cisco Catalyst 9300L SKUs |
| | Cisco IOS XE Gibraltar 16.10.1 |
| | Cisco Catalyst 9800-40 Wireless Controllers |
| | Cisco Catalyst 9800-80 Wireless Controllers |
| | Cisco Network Convergence System 520 Series |
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| Feature | Release & Platform |
|--------------------------------------|--|
| NETCONF and RESTCONF IPv6 Support | Cisco IOS XE Fuji 16.8.1a |
| | 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 |
| NETCONF Global Lock and Kill | Cisco IOS XE Fuji 16.8.1a |
| Session | 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 |

| Feature | Release & Platform |
|-------------------|--|
| 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 |
| | Cisco IOS XE Fuji 16.9.2 |
| | Cisco Catalyst 9200 Series Switches |
| gNMI Protocol | Cisco IOS XE Fuji 16.8.1a |
| | Cisco Catalyst 9300 Series Switches |
| | Cisco Catalyst 9400 Series Switches |
| | Cisco Catalyst 9500 Series Switches |
| | Cisco IOS XE Gibraltar 16.10.1 |
| | Cisco Catalyst 9500-High Performance Series Switches |

| Feature | Release & Platform |
|-----------------|--|
| 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 | Cisco IOS XE Everest 16.6.1 |
| Dial-In | 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 Aggregation Services Routers (ASR1001-HX, ASR1001-X, ASR1002-HX, ASR1002-X |
| | 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 |
| | Cisco IOS XE Fuji 16.9.1 |
| | Cisco ASR 900 Series Aggregation Services Routers |
| | Cisco ASR 920 Series Aggregation Services Router |
| | Cisco cBR-8 Converged Broadband Router |
| | Cisco Network Convergence System 4200 Series |
| | Cisco IOS XE Fuji 16.9.2 |
| | Cisco Catalyst 9200 and 9200L Series Switches |
| | Cisco Catalyst 9300L SKUs |
| | Cisco IOS XE Gibraltar 16.10.1 |
| | Cisco Cloud Services Router 1000v |
| | Cisco Network Convergence System 520 Series |

| Feature | Release & Platform |
|---|--|
| Model-Driven Telemetry gRPC Dial-Out | Cisco IOS XE Gibraltar 16.10.1 |
| | 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 Aggregated Services Router |
| | Cisco Catalyst 9200 and 9200L Series Switches |
| | Cisco Catalyst 9300 and 9300L Series Switches |
| | Cisco Catalyst 9400 Series Switches |
| | Cisco Catalyst 9500 and 9500-High Performance Series Switches |
| | Cisco cBR-8 Converged Broadband Router |
| | Cisco Cloud Services Router 1000V Series |
| | Cisco Network Convergence System 520 Series |
| | Cisco Network Convergence System 4200 Series |
| 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. |
| | - Cisco Catalyst 7500-111gh Fellothhance Series Switches. |

| Feature | Release & Platform |
|----------|--|
| OpenFlow | |
| OpenFlow | Cisco IOS XE Fuji 16.9.1 |
| | Catalyst 9300 Series Switches |
| | Catalyst 9400 Series Switches |
| | Catalyst 9500 Series Switches |
| | Catalyst 9500 Series High Performance Switches |