Cisco Emergency Responder Version 14 Release Notes

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Introduction

Cisco Emergency Responder Release 14 supports the following new features:

Compliance to New Federal Regulations

Cisco Emergency Responder can be configured to provide E911 support to remote teleworker and off-premises users. These users when registering over Virtual Private Network (VPN) or Mobile and Remote Access, can update their location through the phone display or through the Cisco Emergency Responder Off-premises User Page.

Simplified Administration

Support for configuration APIs for Emergency Response Location (ERL) Management, User Management, and associated Cisco Unified Communications Manager settings.

Role based Access Control: Default Standard User Groups like System Administrator, Network Administrator, ERL Administrator, Serviceability, Administrator Utility, and End User. Additional User Groups can be created with defined roles and access.

For more information on the APIs and their configuration, see the Cisco Emergency Responder (CER) API Documentation.

Infrastructure Refresh

Cisco Emergency Responder provides Switch Refresh Utility to simplify Voice LAN Switch replacement, minimizing administrator and logistics overhead, while ensuring E911 support.

Enhanced Security Considerations

1. Cipher Management provides the administrators the control to configure the set of security ciphers allowed for every TLS and SSH connection. This feature allows you to configure the recommended ciphers without breaking the compatibility with other components such as older model phones, or any entity that is securely tracked through Emergency Responder.
2. From Cisco Emergency Responder Release 14, all the certificate related operations are moved from Ipsec to Tomcat certificates. To create a trust between a publisher node and subscriber node, the Tomcat certificate should be exchanged between the publisher and subscriber for any cluster related operations to work.

Any Federal Information Processing Standards (FIPS) or hostname related changes require the same operation procedures.

Version Independent Licensing

Emergency Responder supports Version Independent User Licenses. The Licenses are annuity-style and issued for the subscription term. You can order these V14 licenses through Flex EA (Enterprise Agreement) or Flex NU (Named User—Professional, Enhanced, Access). For more information, see the Ordering Guide.

Emergency Responder 12.x continues to use the version 12.X License.

The licenses are managed on CSSM (Cisco Smart Software Manager). For more information, see the 'Cisco Smart Software Licensing' section in the Cisco Emergency Responder Administration Guide.

Smart Licensing Registration through Authentication based Proxy

Proxy server is updated to include extra authentication measures to register to Cisco Smart Software Manager using authentication based proxy server (HTTP or HTTPS).

Switch Support

Support switch port based tracking for new Voice LAN Switches with Simple Network Management Protocol (SNMP): Includes Catalyst 9300L, Cisco Catalyst 1000 Series, Cisco Industrial Ethernet 2000, 3000, 4000, and 5000 Series Switches, and Cisco Meraki Switches MS120, MS125, and MS355. For more information, see the Supported Voice Ready Lan Switches, on page 5 section.

Simplifying Release Number Scheme

From Release 14 onwards, Cisco Emergency Responder has adopted the single number release plan. There will be no (dot) releases like (dot five) in the past release versions. Service Upgrade releases will be published on top of the main major release 14 through the regular Software Maintenance cycle.

Requirements

Supported Hardware and Software

The information in the following sections discuss Hardware and Software requirements for Cisco Emergency Responder 14. Read these sections before you perform an upgrade.

Required Software

The following table lists required software that you must install to use Emergency Responder.

Table 1:

Item	Supported Software Release	Description
Cisco Unified Communications Manager	• Cisco Unified Communications Manager 14 • Cisco Unified Communications Manager 12.5(x) • Cisco Unified Communications Manager 12.0(x) • Cisco Unified Communications Manager 11.5(x) • Cisco Unified Communications Manager 11.0(x) • Cisco Unified Communications Manager 10.5(x) • Cisco Unified Communications Manager 10.0(x)	The software that runs the telephony network.
Web browser	• Firefox with Windows 10 (64 bit) • Chrome with Windows 10 (64 bit) • Internet Explorer 11 with Windows 10 (64 bit) • Internet Explorer 11 with Windows 7 (64 bit) • Safari with MacOS (10.x) • Microsoft Edge browser with Windows 10 (32 bit/64 bit)	We recommend that you use the latest version for all the web browsers supported.

Recommended Software

The following table lists optional software that is recommended for use with Emergency Responder.

Table 2: Recommended Software

Item	Minimum software release	Description
Email server	Any SMTP email server	Used to send email notifications to onsite alert (security) personnel. If you use an SMTP email paging server, personnel are paged instead of emailed.

Supported Phones

The following table lists the different types of phones that support Emergency Responder. The support that Emergency Responder supplies differs depending on the type of phone and the type of switch port to which the phone is attached.

Note Cisco will not issue bug fixes or security enhancements for endpoints that have reached End of Software Maintenance or End of Support status, regardless of whether those endpoints are deprecated or not deprecated. Cisco will not test Emergency Responder with End of Life phones. For endpoints that have reached End of Sale (EOS), or End of Software Maintenance, refer to the EOS link of that respective phone to view support details.

Table 3: Supported Phones

Phones	Description
Phones that are automatically tracked using Switch-port based tracking Most Cisco IP Phones and Telepresence/Webex devices support Cisco Discovery Protocol (CDP). This includes the Skinny Call Control Protocol (SCCP) and Session Initiation Protocol (SIP) IP Phones. Check the data sheets for each Cisco phone model/series to confirm CDP support. Devices that do not support CDP can potentially be tracked using the MAC table on the switch, to do this you must toggle "Enable CAM-based Phone Tracking" when you add the network switch to Emergency Responder.	These phones do not require any special Emergency Responder configuration. However, you must enable Cisco Discovery Protocol on the switches. **Note** Although Cisco Analog Telephone Adapter (ATA) phones support Cisco Discovery Protocol and SCCP, Emergency Responder cannot automatically track them. You can add ATA phones manually and assign them to an Emergency Response Location (ERL). Emergency Responder routes calls from ATA phones based on the assigned ERL. **Note** Cisco IP Communicator can be tracked using Cisco Discovery Protocol only when it is installed with the Device ID containing the MAC address of the wired network interface and operating over a wired network interface.
Phones that you can track using an IP subnet Any Cisco Unified IP Phone, Telepresence/Webex device, or third-party SIP phone can be tracked using IP subnet based tracking. Cisco Jabber can be tracked using IP subnet-based tracking.	To track these phones, you must configure the subnet and then assign ERLs to the configured subnets. **Note** Any IP endpoint can be tracked at call time using the IP subnet provided that the Use IP Address from Call Signaling Telephony setting is enabled.

Phones	Description
Phones that you can manually define or track using an IP subnet • Phones that are connected to analog line gateways such as Cisco VG350 or VG224 series or ATA 180 series or ATA 190 series or ATA 191 series. • Any H.323 endpoints • Cisco Webex App (registered natively to Unified Communications Manager)	These phones are supported only if their calls are routed by Cisco Unified Communications Manager. **Note** Any IP endpoint can be tracked at call time using the IP subnet provided that the Use IP Address From Call Signaling Telephony setting is enabled. Cisco Webex client (registered native to Unified Communications Manager) is represented through the registered Spark RD (Remote Destination) and needs to be manually defined in Emergency Responder for tracking.
Phones supported for off-premises location confirmation and update with the Remote Worker Emergency Calling feature in Unified Communications Manager 9.0 and later • Cisco IP Communicator • Cisco Virtual Desktop (VXCC) • Cisco IP Phone 7800 Series • Cisco Unified IP Phone 9971, 9951, 8961, 8945, 8941, 8865, 8861, 8851, 8845, 8841, 7975, 7971, 7970, 7965, 7962, 7961, 7945, 7942, 7941, 7911, 7910, and 7906	When configured for off-premises use in Unified Communications Manager 9.0 and later, these phones provide displays for off-premises users to confirm or update their off-premises location. **Note** If the user dismisses the display before confirming or updating the location, the location can be recovered by selecting Running Applications from the Services menu or by resetting the phone.
Phones supported for Access Point based tracking with Unified Communications Manager 11.5 and later Cisco Unified Wireless IP Phone 7925G, 7925G-EX, 7926G, 8821, Cisco Jabber, and Cisco Webex App	Wireless Access Points need to be defined in Unified Communications Manager 11.5 and later, these phones provide their upstream infrastructure information (like BSSID) through Station Info messages to Unified Communications Manager. Cisco Emergency Responder through AXL Change Notification can track these phones through the associated Access Point.

Supported Voice Ready Lan Switches

The following table lists the LAN switch models that Emergency Responder supports. A LAN switch model is supported only if the SNMP System Object ID appears in this table, regardless of the LAN switch configuration or software release.

Note Emergency Responder requires SNMP Version 1, Version 2, Version 2c, or Version 3 for automatic tracking of Cisco Unified IP Phones by connected switch ports.

Important Cisco will not issue bug fixes or security enhancements for devices that have reached End of Software Maintenance or End of Support status, regardless of whether those devices are deprecated or not deprecated. Cisco will not test Emergency Responder with End of Life devices. For devices that have reached End of Sale (EOS), or End of Software Maintenance, refer to the EOS link of that respective device to view support details.

For information on all of the End of Support and End-of-Life products, see https://www.cisco.com/c/en_ca/products/eos-eol-listing.html.

For a list of firmware versions that are used for each Cisco device, see the Cisco Collaboration Systems Release Compatibility Matrix at http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/uc_system/unified/communications/system/Compatibility/CSR-Compatibility-Matrix.html.

Table 4: Supported Voice-Ready LAN Switches

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst C1000	C1000-8FP-2G-L	1.3.6.1.4.1.9.1.2959
	C1000-8P-2G-L	1.3.6.1.4.1.9.1.2959
	C1000-8FP-E-2G-L	1.3.6.1.4.1.9.1.2959
	C1000-8P-E-2G-L	1.3.6.1.4.1.9.1.2959
	C1000-8T-2G-L	1.3.6.1.4.1.9.1.2959
	C1000-8T-E-2G-L	1.3.6.1.4.1.9.1.2959
	C1000-16FP-2G-L	1.3.6.1.4.1.9.1.2959
	C1000-16P-2G-L	1.3.6.1.4.1.9.1.2959
	C1000-16P-E-2G-L	1.3.6.1.4.1.9.1.2959
	C1000-16T-2G-L	1.3.6.1.4.1.9.1.2897
	C1000-16T-E-2G-L	1.3.6.1.4.1.9.1.2959
	C1000-24FP-4G-L	1.3.6.1.4.1.9.1.2959
	C1000-24FP-4X-L	1.3.6.1.4.1.9.1.2959
	C1000-24P-4G-L	1.3.6.1.4.1.9.1.2959
	C1000-24P-4X-L	1.3.6.1.4.1.9.1.2897
	C1000-24PP-4G-L	1.3.6.1.4.1.9.1.2959
	C1000-24T-4X-L	1.3.6.1.4.1.9.1.2897

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst C1000	C1000-48FP-4G-L	1.3.6.1.4.1.9.1.2959
	C1000-48FP-4X-L	1.3.6.1.4.1.9.1.2897
	C1000-48P-4X-L	1.3.6.1.4.1.9.1.2897
	C1000-48PP-4G-L	1.3.6.1.4.1.9.1.2959
	C1000-48T-4G-L	1.3.6.1.4.1.9.1.2959
	C1000-24T-4G-L	1.3.6.1.4.1.9.1.2959
	C1000SM-16FP-2G-L	1.3.6.1.4.1.9.1.2943
	C1000SM-16P-2G-L	1.3.6.1.4.1.9.1.2941
	C1000SM-16P-E-2G-L	1.3.6.1.4.1.9.1.2942
	C1000SM-16T-2G-L	1.3.6.1.4.1.9.1.2939
	C1000SM-16T-E-2G-L	1.3.6.1.4.1.9.1.2940
	C1000SM-24FP-4G-L	1.3.6.1.4.1.9.1.2947
	C1000SM-24FP-4X-L	1.3.6.1.4.1.9.1.2954
	C1000SM-24P-4G-L	1.3.6.1.4.1.9.1.2946
	C1000SM-24P-4X-L	1.3.6.1.4.1.9.1.2953
	C1000SM-24PP-4G-L	1.3.6.1.4.1.9.1.2945
	C1000SM-24T-4G-L	1.3.6.1.4.1.9.1.2944
	C1000SM-24T-4X-L	1.3.6.1.4.1.9.1.2952

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst C1000	C1000SM-48FP-4G-L	1.3.6.1.4.1.9.1.2951
	C1000SM-48FP-4X-L	1.3.6.1.4.1.9.1.2957
	C1000SM-48P-4G-L	1.3.6.1.4.1.9.1.2950
	C1000SM-48P-4X-L	1.3.6.1.4.1.9.1.2956
	C1000SM-48PP-4G-L	1.3.6.1.4.1.9.1.2949
	C1000SM-48T-4G-L	1.3.6.1.4.1.9.1.2948
	C1000SM-48T-4X-L	1.3.6.1.4.1.9.1.2955
	C1000SM-8P-2G-L	1.3.6.1.4.1.9.1.2935
	C1000SM-8P-E-2G-L	1.3.6.1.4.1.9.1.2936
	C1000-48T-4X-L	1.3.6.1.4.1.9.1.2897
	C1000SM-8T-2G-L	1.3.6.1.4.1.9.1.2933
	C1000SM-8T-E-2G-L	1.3.6.1.4.1.9.1.2934
	C1000-12MP-2X-L	1.3.6.1.4.1.9.1.2897
	C1000-24MP-4X-L	1.3.6.1.4.1.9.1.2897
Catalyst C1000	C1000SM-8FP-2G-L	1.3.6.1.4.1.9.1.2937
	C1000SM-8FP-E-2G-L	1.3.6.1.4.1.9.1.2938
	C1000FE-24T-4G-L	1.3.6.1.4.1.9.1.3021
	C1000FE-24P-4G-L	1.3.6.1.4.1.9.1.3022
	C1000FE-48T-4G-L	1.3.6.1.4.1.9.1.3023
	C1000FE-48P-4G-L	1.3.6.1.4.1.9.1.3024
Connected Grid 2500	CGS-2520-16S-8PC	1.3.6.1.4.1.9.1.1246
Catalyst 2940	2940-8TF	1.3.6.1.4.1.9.1.542
	2940-8TT	1.3.6.1.4.1.9.1.540

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst 2950	2950-12	1.3.6.1.4.1.9.1.323
	2950-24	1.3.6.1.4.1.9.1.324
	2950C-24	1.3.6.1.4.1.9.1.325
	2950G-24-EI-DC	1.3.6.1.4.1.9.1.472
	2950S-24	1.3.6.1.4.1.9.1.430
	2950SX-24	1.3.6.1.4.1.9.1.480
	2950SX-48	1.3.6.1.4.1.9.1.560
Catalyst 2960	2960-24LT-L	1.3.6.1.4.1.9.1.951
	2960-24PC-L	1.3.6.1.4.1.9.1.950
	2960-24-S	1.3.6.1.4.1.9.1.929
	2960-24TC-L	1.3.6.1.4.1.9.1.694
	2960-24TC-S	1.3.6.1.4.1.9.1.928
	2960-24TT-L	1.3.6.1.4.1.9.1.716
	2960-48PST-L	1.3.6.1.4.1.9.1.1016
	2960-48TC-L	1.3.6.1.4.1.9.1.695
	2960-48TC-S	1.3.6.1.4.1.9.1.927
	2960-48TT-L	1.3.6.1.4.1.9.1.717
	2960-8TC-L	1.3.6.1.4.1.9.1.798
	2960-8TC-S	1.3.6.1.4.1.9.1.1006
	2960G-24TC-L	1.3.6.1.4.1.9.1.696
	2960G-48TC-L	1.3.6.1.4.1.9.1.697
	2960G-8TC-L	1.3.6.1.4.1.9.1.799
	2960PD-8TT-L	1.3.6.1.4.1.9.1.952
	2960-48PST-S	1.3.6.1.4.1.9.1.1148
	2960-24LC-S	1.3.6.1.4.1.9.1.1146
	2960-24PC-S	1.3.6.1.4.1.9.1.1147

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst 2960-C	2960CPD-8PT-L	1.3.6.1.4.1.9.1.1315
	2960C-8PC-L	1.3.6.1.4.1.9.1.1366
	2960C-12PC-L	1.3.6.1.4.1.9.1.1367
Catalyst 2960-Plus	2960-Plus 48PST-L	1.3.6.1.4.1.9.1.1748
	2960-Plus 24PC-	1.3.6.1.4.1.9.1.1749
	2960-Plus 24LC-L	1.3.6.1.4.1.9.1.1750
	2960-Plus 48PST-S	1.3.6.1.4.1.9.1.1753
	2960-Plus 24PC-S	1.3.6.1.4.1.9.1.1754
	2960-Plus 24LC-S	1.3.6.1.4.1.9.1.1755
Catalyst 2960-S	2960S Stack	1.3.6.1.4.1.9.1.1208
	2960S-24PD-L	1.3.6.1.4.1.9.1.1261
	2960S-24PS-L	1.3.6.1.4.1.9.1.1265
	2960S-48FPD-L	1.3.6.1.4.1.9.1.1258
	2960S-48FPS-L	1.3.6.1.4.1.9.1.1263
	2960S-48LPD-L	1.3.6.1.4.1.9.1.1259
	2960S-48LPS-L	1.3.6.1.4.1.9.1.1264

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB	
Catalyst 2960L	C2960L24TQLL	1.3.6.1.4.1.9.1.2495	
	C2960L48TQLL	1.3.6.1.4.1.9.1.2496	
	C2960L24PQLL	1.3.6.1.4.1.9.1.2497	
	C2960L48PQLL	1.3.6.1.4.1.9.1.2498	
	Catalyst 2960X	Catalyst 2960X-48LPD-L	1.3.6.1.4.1.9.1.1691
Catalyst 2960X-48TD-L		1.3.6.1.4.1.9.1.1692	
Catalyst 2960X-24TD-L		1.3.6.1.4.1.9.1.1694	
Catalyst 2960X-48FPS-L		1.3.6.1.4.1.9.1.1695	
Catalyst 2960X-48LPS-L		1.3.6.1.4.1.9.1.1696	
Catalyst 2960X-48TS-L		1.3.6.1.4.1.9.1.1698	
Catalyst 2960X-24TS-L		1.3.6.1.4.1.9.1.1699	
Catalyst 2960X-24PSK-L		1.3.6.1.4.1.9.1.1700	
Catalyst 2960X-48LPS-S		1.3.6.1.4.1.9.1.1701	
Catalyst 2960X-24PS-S		1.3.6.1.4.1.9.1.1702	
Catalyst 2960X-48TS-LL		1.3.6.1.4.1.9.1.1703	
Catalyst 2960X-24TS-LL		1.3.6.1.4.1.9.1.1704	
Catalyst 2960X-24PS-L		1.3.6.1.4.1.9.1.1697	
Catalyst 2960X-24PD-L		1.3.6.1.4.1.9.1.1693	
		1.3.6.1.4.1.9.1.1690	

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst 2960X-48FPD-L		
Catalyst 2960XR	Catalyst 2960XR-24PD-I	1.3.6.1.4.1.9.1.1800
	Catalyst 2960XR-24TD-I	1.3.6.1.4.1.9.1.1801
	Catalyst 2960XR-48FPS-I	1.3.6.1.4.1.9.1.1802
	Catalyst 2960XR-48LPS-I	1.3.6.1.4.1.9.1.1803
	Catalyst 2960XR-48TS-I	1.3.6.1.4.1.9.1.1804
	Catalyst 2960XR-24PS-I	1.3.6.1.4.1.9.1.1805
	Catalyst 2960XR-24TS-I	1.3.6.1.4.1.9.1.1806
	Catalyst 2960XR-48FPD-L	1.3.6.1.4.1.9.1.1807
	Catalyst 2960XR-48LPD-L	1.3.6.1.4.1.9.1.1808
	Catalyst 2960XR-48PD-L	1.3.6.1.4.1.9.1.1809
	Catalyst 2960XR-24PD-L	1.3.6.1.4.1.9.1.1810
	Catalyst 2960XR-24TD-L	1.3.6.1.4.1.9.1.1811
	Catalyst 2960XR-48FPS-L	1.3.6.1.4.1.9.1.1812
	Catalyst 2960XR-48LPS-L	1.3.6.1.4.1.9.1.1813
	Catalyst 2960XR-48TS-L	1.3.6.1.4.1.9.1.1814
	Catalyst 2960XR-24PS-L	1.3.6.1.4.1.9.1.1815
	Catalyst 2960XR-24TS-L	1.3.6.1.4.1.9.1.1816
	Catalyst 2960XR-48FPD-I	1.3.6.1.4.1.9.1.1797
	Catalyst 2960XR-48LPD-I	1.3.6.1.4.1.9.1.1798
	Catalyst 2960XR-48TD-I	1.3.6.1.4.1.9.1.1799
Catalyst 2975	2975GS-48PS-L	1.3.6.1.4.1.9.1.1067
	2975GS-48PS-L-Stack	1.3.6.1.4.1.9.1.1068
Catalyst 3550	3550-24-DC	1.3.6.1.4.1.9.1.452

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst 3560	3560-12PC-S	1.3.6.1.4.1.9.1.1015
	3560-24PS	1.3.6.1.4.1.9.1.563
	3560-24TS	1.3.6.1.4.1.9.1.633
	3560-48PS	1.3.6.1.4.1.9.1.564
	3560-48TS	1.3.6.1.4.1.9.1.634
	3560-8PC	1.3.6.1.4.1.9.1.797
	3560G-24PS	1.3.6.1.4.1.9.1.614
	3560G-24TS	1.3.6.1.4.1.9.1.615
	3560G-48PS	1.3.6.1.4.1.9.1.616
	3560G-48TS	1.3.6.1.4.1.9.1.617
	3560V2-24PS	1.3.6.1.4.1.9.1.1021
	3560V2-48PS	1.3.6.1.4.1.9.1.1025
	3560CX-12TC-S	1.3.6.1.4.1.9.1. 2133
	3560CX-8XPD-S	1.3.6.1.4.1.9.1.2131
	3560CX-8PT-S	1.3.6.1.4.1.9.1.2130
Catalyst 3560-C	3560CG-8PC-S	1.3.6.1.4.1.9.1.1317
	3560CPD-8PT-S	1.3.6.1.4.1.9.1.1368
	3560C-8PC-S	1.3.6.1.4.1.9.1.1466
	3560C-12PC-S	1.3.6.1.4.1.9.1.1465
Catalyst 3560-E	3560E-12D	1.3.6.1.4.1.9.1.930
	3560E-12SD	1.3.6.1.4.1.9.1.956
	3560E-24PD	1.3.6.1.4.1.9.1.795
	3560E-24TD	1.3.6.1.4.1.9.1.793
	3560E-48PD	1.3.6.1.4.1.9.1.796
	3560E-48TD	1.3.6.1.4.1.9.1.794

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst 3560-X	3560X-24P (-L/S/E)	1.3.6.1.4.1.9.1.1228
	3560X-48PF (-L/S/E)	1.3.6.1.4.1.9.1.1229
	3560X-48P (-L/S/E)	1.3.6.1.4.1.9.1.1229
	3560X-48U	1.3.6.1.4.1.9.1.1710
	3560X-48TS	1.3.6.1.4.1.9.1.2066
	WS-C3560X-48T-S	1.3.6.1.4.1.9.1.1227
Catalyst 3650	Catalyst C3650-24TS (-L/S/E)	1.3.6.1.4.1.9.1.1823
	Catalyst C3650-48TS (-L/S/E)	1.3.6.1.4.1.9.1. 1824
	Catalyst C3650-24PS (-L/S/E)	1.3.6.1.4.1.9.1. 1825
	Catalyst C3650-48PS (-L/S/E)	1.3.6.1.4.1.9.1. 1826
	Catalyst C3650-24TD (-L/S/E)	1.3.6.1.4.1.9.1. 1827
	Catalyst C3650-48TD (-L/S/E)	1.3.6.1.4.1.9.1. 1828
	Catalyst C3650-24PD (-L/S/E)	1.3.6.1.4.1.9.1. 1829
	Catalyst C3650-48PD (-L/S/E)	1.3.6.1.4.1.9.1.1830
	Catalyst C3650-Stack (-L/S/E)	1.3.6.1.4.1.9.1.1830
	Catalyst C3650-48PQ (-L/S/E)	1.3.6.1.4.1.9.1.1881
	Catalyst C3650-48TQ (-L/S/E)	1.3.6.1.4.1.9.1.1882

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst 3750	3750 Stack	1.3.6.1.4.1.9.1.516
	3750-24FS	1.3.6.1.4.1.9.1.656
	3750-24PS	1.3.6.1.4.1.9.1.536
	3750-24TS	1.3.6.1.4.1.9.1.513
	3750-48PS	1.3.6.1.4.1.9.1.535
	3750-48TS	1.3.6.1.4.1.9.1.512
	3750G-12S	1.3.6.1.4.1.9.1.530
	3750G-12S-SD	1.3.6.1.4.1.9.1.688
	3750G-16TD	1.3.6.1.4.1.9.1.591
	3750G-24PS	1.3.6.1.4.1.9.1.602
	3750G-24T	1.3.6.1.4.1.9.1.514
	3750G-24TS	1.3.6.1.4.1.9.1.511
	3750G-24TS-1U	1.3.6.1.4.1.9.1.624
	3750G-24WS-S25	1.3.6.1.4.1.9.1.778
	3750G-24WS-S50	1.3.6.1.4.1.9.1.779
	3750G-48PS	1.3.6.1.4.1.9.1.603
	3750G-48TS	1.3.6.1.4.1.9.1.604
	3750V2-24PS	1.3.6.1.4.1.9.1.1023
	3750V2-48PS	1.3.6.1.4.1.9.1.1027
Catalyst 3750-X	3750X-48P (-L/E)	1.3.6.1.4.1.9.1.1225
	3750X-48PF (-L/S/E)	1.3.6.1.4.1.9.1.1225
	3750X-48P (-L/S)	1.3.6.1.4.1.9.1.1225
	3750X-24P (-L/S/E)	1.3.6.1.4.1.9.1.1224
Catalyst 3750 Metro	3750-24TE-M	1.3.6.1.4.1.9.1.574

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst 3750-E	3750E-24PD	1.3.6.1.4.1.9.1.792
	3750E-24TD	1.3.6.1.4.1.9.1.789
	3750E-48PD	1.3.6.1.4.1.9.1.791
	3750E-48TD-S	1.3.6.1.4.1.9.1.790
Catalyst 3850	Catalyst C3850-24U (-L/S/E)	1.3.6.1.4.1.9.1.1767
	Catalyst C3850-48U (-L/S/E)	1.3.6.1.4.1.9.1.1768
	3850-48P (-L/S/E)	1.3.6.1.4.1.9.1.1641
	3850-24P (-L/S/E)	1.3.6.1.4.1.9.1.1642
	3850-48T (-L/S/E)	1.3.6.1.4.1.9.1.1643
	3850-24T (-L/S/E)	1.3.6.1.4.1.9.1.1644
	Catalyst 3850-12S-S	1.3.6.1.4.1.9.1.1880
	Catalyst 3850-12S-E	1.3.6.1.4.1.9.1.1880
	Catalyst 3850-24S-S	1.3.6.1.4.1.9.1.1879
	Catalyst 3850-24S-E	1.3.6.1.4.1.9.1.1879
	Catalyst C3850-12X48U	1.3.6.1.4.1.9.1.1745
Catalyst 4500	4503	1.3.6.1.4.1.9.5.58
	4503	1.3.6.1.4.1.9.1.503
	4506	1.3.6.1.4.1.9.5.59
	4506	1.3.6.1.4.1.9.1.502
	4507	1.3.6.1.4.1.9.1.501
	4510	1.3.6.1.4.1.9.1.537

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst 4500-E	4503-E	1.3.6.1.4.1.9.1.874
	4506-E	1.3.6.1.4.1.9.1.875
	4507R-E	1.3.6.1.4.1.9.1.876
	4510R-E	1.3.6.1.4.1.9.1.877
	4507R+E	1.3.6.1.4.1.9.1.1286
	4510R+E	1.3.6.1.4.1.9.1.1287
Catalyst 4900	4948	1.3.6.1.4.1.9.1.626
	4948-10GE	1.3.6.1.4.1.9.1.659
Catalyst 6500	6503	1.3.6.1.4.1.9.5.56
	6503	1.3.6.1.4.1.9.1.449
	6504	1.3.6.1.4.1.9.1.657
	6506	1.3.6.1.4.1.9.5.45
	6506	1.3.6.1.4.1.9.1.282
	6509	1.3.6.1.4.1.9.5.44
	6509	1.3.6.1.4.1.9.1.283
	6509-NEB	1.3.6.1.4.1.9.5.61
	6513	1.3.6.1.4.1.9.5.50
	6513	1.3.6.1.4.1.9.1.400
Catalyst 6500-E	6509-E	1.3.6.1.4.1.9.1.283
	6506-E	1.3.6.1.4.1.9.1.282
	6504-E	1.3.6.1.4.1.9.1.657
	6503-E	1.3.6.1.4.1.9.1.449
Catalyst 6800ia	Catalyst 6800ia-48FPD-L	1.3.6.1.4.1.9.1.1866
	Catalyst 6800ia-48TD-L	1.3.6.1.4.1.9.1.1867
Catalyst 68xx	Catalyst 68xx Virtual Switch	1.3.6.1.4.1.9.1.1934
Catalyst 6880-X	Catalyst 6880-XLE	1.3.6.1.4.1.9.1.1784

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst 6807-XL	Catalyst 6807-XL	1.3.6.1.4.1.9.1.1765
Catalyst 9200	C9200-24T	1.3.6.1.4.1.9.1.2694
	C9200-24P	1.3.6.1.4.1.9.1.2694
	C9200-48T	1.3.6.1.4.1.9.1.2694
	C9200-48P	1.3.6.1.4.1.9.1.2694
C9200CX-12P-2XGH	1.3.6.1.4.1.9.1.3164	
C9200CX-8PT-2G	1.3.6.1.4.1.9.1.3098	
C9200CX-8UXG-2X	1.3.6.1.4.1.9.1.3099	
C9200CX-8P-2XGH	1.3.6.1.4.1.9.1.3195	
C9200CX-8UXG-2XH	1.3.6.1.4.1.9.1.3196	
Catalyst 9200L	C9200L-24T-4G	1.3.6.1.4.1.9.1.2695
	C9200L-24P-4G	1.3.6.1.4.1.9.1.2695
	C9200L-48T-4G	1.3.6.1.4.1.9.1.2695
	C9200L-48P-4G	1.3.6.1.4.1.9.1.2695
	C9200L-24T-4X	1.3.6.1.4.1.9.1.2695
	C9200L-24P-4X	1.3.6.1.4.1.9.1.2695
	C9200L-48T-4X	1.3.6.1.4.1.9.1.2695
	C9200L-48P-4X	1.3.6.1.4.1.9.1.2695

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst 9300	c9300	1.3.6.1.4.1.9.1.2494
	c930024T	1.3.6.1.4.1.9.1.2435
	c930024P	1.3.6.1.4.1.9.1.2436
	c930024U	1.3.6.1.4.1.9.1.2437
	c930024X	1.3.6.1.4.1.9.1.2438
	c930048T	1.3.6.1.4.1.9.1.2439
	c930048P	1.3.6.1.4.1.9.1.2440
	c930048U	1.3.6.1.4.1.9.1.2441
	c930048UXM	1.3.6.1.4.1.9.1.2442
Catalyst 9300L	C9300L-24T-4X	1.3.6.1.4.1.9.1.2583
	C9300L-48T-4X	1.3.6.1.4.1.9.1.2584
	C9300L-24P-4G	1.3.6.1.4.1.9.1.2585
	C9300L-48P-4G	1.3.6.1.4.1.9.1.2586
	C9300L-24T-4G	1.3.6.1.4.1.9.1.2792
	C9300L-48T-4G	1.3.6.1.4.1.9.1.2793
	C9300L-24P-4X	1.3.6.1.4.1.9.1.2798
Catalyst 9300L	C9300L-24UXG-4X	1.3.6.1.4.1.9.1.2800
	C9300L-48UXG-4X	1.3.6.1.4.1.9.1.2801
	C9300L-24UXG-2Q	1.3.6.1.4.1.9.1.2802
	C9300L-48UXG-2Q	1.3.6.1.4.1.9.1.2803
	C9300L-48P-4X	1.3.6.1.4.1.9.1.2804
	C9300L-48PF-4X	1.3.6.1.4.1.9.1.2992
	C9300L-48PF-4G	1.3.6.1.4.1.9.1.2993
	C9300LM-48UX-4Y	1.3.6.1.4.1.9.1.2804

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst 9400	C9407R	1.3.6.1.4.1.9.1.2500
	C9410R	1.3.6.1.4.1.9.1.2501
	C9404R	1.3.6.1.4.1.9.1.2499
Catalyst 9500	c950012Q	1.3.6.1.4.1.9.1.2418
	c950024Q	1.3.6.1.4.1.9.1.2419
	c950040X	1.3.6.1.4.1.9.1.2420
Catalyst Express 500	500-24LC	1.3.6.1.4.1.9.1.725
	500-24PC	1.3.6.1.4.1.9.1.726
	500-24TT	1.3.6.1.4.1.9.1.724
	500G-12TC	1.3.6.1.4.1.9.1.727
Catalyst Express 520	520-24LC	1.3.6.1.4.1.9.1.933
	520-24PC	1.3.6.1.4.1.9.1.934
	520-24TT	1.3.6.1.4.1.9.1.932
	520-8PC	1.3.6.1.4.1.9.1.897
	520G-24TC	1.3.6.1.4.1.9.1.935
Cisco ME 4900	ME 4924-10GE	1.3.6.1.4.1.9.1.788
Catalyst C6880x	ciscoC6880x	1.3.6.1.4.1.9.1.1936
Catalyst 3560CX	Cisco Catalyst 3560CX-8XPD-S	1.3.6.1.4.1.9.1.2131
	Cisco Catalyst 3560CX-8PT-S	1.3.6.1.4.1.9.1.2130
Catalyst C3560	catwsC3560CX12pdS	1.3.6.1.4.1.9.1.2132
	catwsC3560CX12pcS	1.3.6.1.4.1.9.1.2134
	catwsC3560CX8tcS	1.3.6.1.4.1.9.1.2135
	catwsC3560CX8pcS	1.3.6.1.4.1.9.1.2136
Catalyst C2960	catwsC2960CX8tcL	1.3.6.1.4.1.9.1.2137
Catalyst 2960CX	Cisco Catalyst 2960CX-8PC-L	1.3.6.1.4.1.9.1.2191

Table 5: Supported Voice-Ready LAN Switches (Continuation)

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst IE2000	IE-2000-24T67-B	1.3.6.1.4.1.9.1.1842
	IE-2000-24T67-B	1.3.6.1.4.1.9.1.1841
	IE-2000-24T67-B	1.3.6.1.4.1.9.1.1844
	IE-2000-24T67-B	1.3.6.1.4.1.9.1.1843
	IE-2000-16T67P-G-E	1.3.6.1.4.1.9.1.1845
	IE-2000-4TS-G-L	1.3.6.1.4.1.9.1.1470
	IE-2000-4TS-G-B	1.3.6.1.4.1.9.1.1470
	IE-2000-4T-G-B	1.3.6.1.4.1.9.1.1471
	IE-2000-8TC-B	1.3.6.1.4.1.9.1.1472
	IE-2000-16TC-L	1.3.6.1.4.1.9.1.1474

Table 6: Supported Voice-Ready LAN Switches (Continuation)

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst IE2000	IE-2000-16TC-B	1.3.6.1.4.1.9.1.1474
	IE-2000-16TC-G-L	1.3.6.1.4.1.9.1.1475
	IE-2000-16TC-G-N	1.3.6.1.4.1.9.1.1715
	IE-2000-16PTC-G-E	1.3.6.1.4.1.9.1.1730
	IE-2000-4S-TS-G-B	1.3.6.1.4.1.9.1.1759
	IE-2000-4T-G-L	1.3.6.1.4.1.9.1.1471
	IE-2000-16PTC-G-L	1.3.6.1.4.1.9.1.1729
	IE-2000-8TC-G-L	1.3.6.1.4.1.9.1.1473
	IE-2000-8TC-G-B	1.3.6.1.4.1.9.1.1473
	IE-2000-16TC-G-X	1.3.6.1.4.1.9.1.1520

Table 7: Supported Voice-Ready LAN Switches (Continuation)

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst IE2000U	IE-2000U-4S-G	1.3.6.1.4.1.9.1.1839
	IE-2000U-4TS-G	1.3.6.1.4.1.9.1.1869
	IE-2000U-8TC-G	1.3.6.1.4.1.9.1.1870
	IE-2000U-16TC-GP	1.3.6.1.4.1.9.1.1868
	IE-2000U-16TC-GP	1.3.6.1.4.1.9.1.1871
	IE-2000U-16TC-GP	1.3.6.1.4.1.9.1.1872
	IE-2000U-16TC-GP	1.3.6.1.4.1.9.1.1840

Table 8: Supported Voice-Ready LAN Switches (Continuation)

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst IE3x00/IE30x0	IE-3000-4TC	1.3.6.1.4.1.9.1.958
	IE-3000-8TC	1.3.6.1.4.1.9.1.959
	IE-3010-16S-8PC	1.3.6.1.4.1.9.1.1319
	IE-3010-24TC	1.3.6.1.4.1.9.1.1320
	IE-3200-8P2S	1.3.6.1.4.1.9.1.2684
	IE-3200-8P2S-E	1.3.6.1.4.1.9.1.2684
	IE-3200-8T2S	1.3.6.1.4.1.9.1.2683
	IE-3300-8T2S	1.3.6.1.4.1.9.1.2685
	IE-3300-8P2S	1.3.6.1.4.1.9.1.2686

Table 9: Supported Voice-Ready LAN Switches (Continuation)

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst IE3400/IE3400H	IE-3400-8T2S	1.3.6.1.4.1.9.1.2872
	IE-3400-8P2S	1.3.6.1.4.1.9.1.2687
	IE-3400H-24FT	1.3.6.1.4.1.9.1.2883
	IE-3400H-16FT	1.3.6.1.4.1.9.1.2882
	IE-3400H-16T	1.3.6.1.4.1.9.1.2885
	IE-3400H-24T	1.3.6.1.4.1.9.1.2886
	IE-3400H-8FT	1.3.6.1.4.1.9.1.2881
	IE-3400H-8T	1.3.6.1.4.1.9.1.2884

Table 10: Supported Voice-Ready LAN Switches (Continuation)

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst IE4000	IE-4000-8GT8GP4G-E	1.3.6.1.4.1.9.1.2079
	IE-4000-4T4P4G-E	1.3.6.1.4.1.9.1.2072
	IE-4000-8T4G-E	1.3.6.1.4.1.9.1.2070
	IE-4000-16GT4G-E	1.3.6.1.4.1.9.1.2078
	IE-4000-16T4G-E	1.3.6.1.4.1.9.1.2073
	IE-4000-4GC4GP4G-E	1.3.6.1.4.1.9.1.2077
	IE-4000-4GS8GP4G-E	1.3.6.1.4.1.9.1.2080
	IE-4000-4S8P4G-E	1.3.6.1.4.1.9.1.2074
	IE-4000-4TC4G-E	1.3.6.1.4.1.9.1.2069
	IE-4000-8GS4G-E	1.3.6.1.4.1.9.1.2076

Table 11: Supported Voice-Ready LAN Switches (Continuation)

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Catalyst IE4000	IE-4000-8GT4G-E i+F45:F48	1.3.6.1.4.1.9.1.2075
	IE-4000-8S4G-E	1.3.6.1.4.1.9.1.2071
Catalyst IE4010	IE-4010-4S24P	1.3.6.1.4.1.9.1.2368
	IE-4010-16S12P	1.3.6.1.4.1.9.1.2369
Catalyst IE5000	IE-5000-16S12P	1.3.6.1.4.1.9.1.2296
	IE-5000-12S12P-10G	1.3.6.1.4.1.9.1.2233

The following table lists the Meraki Switches and Meraki Managed Catalyst Switches that are supported for Switch Port based tracking through SNMP v2.

Table 12: Meraki Switches and Meraki Managed Catalyst Switches

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Meraki MS120	MS120-8	1.3.6.1.4.1.29671.2.338
	MS120-8LP	1.3.6.1.4.1.29671.2.339
	MS120-8FP	1.3.6.1.4.1.29671.2.340
	MS120-24	1.3.6.1.4.1.29671.2.341
	MS120-24P	1.3.6.1.4.1.29671.2.342
	MS120-48	1.3.6.1.4.1.29671.2.343
	MS120-48LP	1.3.6.1.4.1.29671.2.344
	MS120-48FP	1.3.6.1.4.1.29671.2.356
	MS120-48FP	1.3.6.1.4.1.29671.2.356
Meraki MS210	MS210-24P	1.3.6.1.4.1.29671.2.346
	MS210-48LP	1.3.6.1.4.1.29671.2.348
	MS210-24	1.3.6.1.4.1.29671.2.345
	MS210-48	1.3.6.1.4.1.29671.2.347
	MS210-48FP	1.3.6.1.4.1.29671.2.349

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Meraki MS125	MerakiMS125-24	1.3.6.1.4.1.29671.2.371
	MerakiMS125-24P	1.3.6.1.4.1.29671.2.372
	MerakiMS125-48	1.3.6.1.4.1.29671.2.373
	MerakiMS125-48LP	1.3.6.1.4.1.29671.2.374
	MerakiMS125-48FP	1.3.6.1.4.1.29671.2.375
Meraki MS220	MerakiMS220-8	1.3.6.1.4.1.29671.2.304
	MerakiMS220-8p	1.3.6.1.4.1.29671.2.305
	MerakiMS220-24	1.3.6.1.4.1.29671.2.306
	MerakiMS220-24p	1.3.6.1.4.1.29671.2.307
	MerakiMS220-48	1.3.6.1.4.1.29671.2.308
	MerakiMS220-48lp	1.3.6.1.4.1.29671.2.309
	MerakiMS220-48fp	1.3.6.1.4.1.29671.2.310
Meraki MS225	MS225-24	1.3.6.1.4.1.29671.2.328
	MS225-24p	1.3.6.1.4.1.29671.2.329
	MS225-48	1.3.6.1.4.1.29671.2.330
	MS225-48lp	1.3.6.1.4.1.29671.2.331
	MS225-48fp	1.3.6.1.4.1.29671.2.332
Meraki MS250	MS250-24	1.3.6.1.4.1.29671.2.333
	MS250-24p	1.3.6.1.4.1.29671.2.334
	MS250-48	1.3.6.1.4.1.29671.2.335
	MS250-48lp	1.3.6.1.4.1.29671.2.336
	MS250-48fp	1.3.6.1.4.1.29671.2.337
Meraki MS320	MS320-24	1.3.6.1.4.1.29671.2.311
	MS320-24p	1.3.6.1.4.1.29671.2.312
	MS320-48	1.3.6.1.4.1.29671.2.313
	MS320-48lp	1.3.6.1.4.1.29671.2.314
	MS320-48fp	1.3.6.1.4.1.29671.2.315

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Meraki MS350	MS350-24	1.3.6.1.4.1.29671.2.318
	MS350-24p	1.3.6.1.4.1.29671.2.319
	MS350-48	1.3.6.1.4.1.29671.2.320
	MS350-48lp	1.3.6.1.4.1.29671.2.321
	MS350-48fp	1.3.6.1.4.1.29671.2.322
	MS350-24x	1.3.6.1.4.1.29671.2.327
Meraki MS355	MS355-24X	1.3.6.1.4.1.29671.2.357
	MS355-24X2	1.3.6.1.4.1.29671.2.358
	Meraki MS355-48X	1.3.6.1.4.1.29671.2.359
	Meraki MS355-48X2	1.3.6.1.4.1.29671.2.360

Supported Cisco Routers

The following table lists the Cisco routers Emergency Responder supports.

Table 13: Supported Cisco Routers

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Cisco 1800	Cisco 1861-SRST-B/K9	1.3.6.1.4.1.9.1.904
	Cisco 1861-SRST-C-B/K9	1.3.6.1.4.1.9.1.939
	Cisco 1861-SRST-C-F/K9	1.3.6.1.4.1.9.1.940
	Cisco 1861-SRST-F/K9	1.3.6.1.4.1.9.1.905
	Cisco 1861-UC-2BRI-K9	1.3.6.1.4.1.9.1.902
	Cisco 1861-UC-4FXO-K9	1.3.6.1.4.1.9.1.903
	Cisco1861	1.3.6.1.4.1.9.1.1065
Cisco 1900	Cisco 1905	1.3.6.1.4.1.9.1.1192
	Cisco 1921	1.3.6.1.4.1.9.1.1191
	Cisco 1941	1.3.6.1.4.1.9.1.1047

Series (Ethernet Ports Only)	Supported Device	System Object ID from CISCO-PRODUCTS-MIB or CISCO-STACK-MIB
Cisco 2800	Cisco 2811	1.3.6.1.4.1.9.1.576
	Cisco 2821	1.3.6.1.4.1.9.1.577
	Cisco 2851	1.3.6.1.4.1.9.1.578
Cisco 2900	Cisco 2911	1.3.6.1.4.1.9.1.1045
	Cisco 2921	1.3.6.1.4.1.9.1.1044
	Cisco 2951	1.3.6.1.4.1.9.1.1043
Cisco 3800	Cisco 3825	1.3.6.1.4.1.9.1.543
	Cisco 3845	1.3.6.1.4.1.9.1.544
Cisco 3900	Cisco 3925	1.3.6.1.4.1.9.1.1042
	Cisco 3925E	1.3.6.1.4.1.9.1.1144
	Cisco 3945	1.3.6.1.4.1.9.1.1041
	Cisco 3945E	1.3.6.1.4.1.9.1.1145

Supported Switch Modules and Network Modules

Emergency Responder supports the following switch modules and network modules.

Table 14: Supported Switch Modules and Network Modules

Switch Modules and Network Modules	System Object ID from CISCO-PRODUCTS-MIB
Cisco SM-ES2-16-P	1.3.6.1.4.1.9.1.1048
Cisco SM-ES3-16-P	1.3.6.1.4.1.9.1.1049
Cisco SM-ES3G-16-P	1.3.6.1.4.1.9.1.1050
Cisco SM-ES2-24-P	1.3.6.1.4.1.9.1.1052
Cisco SM-ES3-24-P	1.3.6.1.4.1.9.1.1053
Cisco SM-ES3G-24-P	1.3.6.1.4.1.9.1.1054
Cisco SM-D-ES3-48-P	1.3.6.1.4.1.9.1.1056
Cisco SM-D-ES3G-48-P	1.3.6.1.4.1.9.1.1057
NME-16ES-1G	1.3.6.1.4.1.9.1.702
NME-16ES-1G-P	1.3.6.1.4.1.9.1.663

Switch Modules and Network Modules	System Object ID from CISCO-PRODUCTS-MIB
NME-X-23ES-1G	1.3.6.1.4.1.9.1.703
NME-X-23ES-1G-P	1.3.6.1.4.1.9.1.664
NME-XD-24ES-2S-P	1.3.6.1.4.1.9.1.665
NME-XD-48ES-2S-P	1.3.6.1.4.1.9.1.666

Note Switch modules and network modules use the System Object IDs of the routers into which they are inserted.

Support for ISR-G2 SM and NM requires installation of the Cisco Options Package (COP) file. Download the COP file from the Download Software page on Cisco.com

Supported Cisco UCS Platforms

For information about supported Cisco Unified Computing System (UCS) platforms, see the Unified Communications Virtualization Supported Applications section of the Cisco Collaboration Virtualization wiki.

VMware Support

For information about VMware, see the Unified Communications VMWare Requirements section of the Cisco documentation wiki at https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/virtualization-software-requirements.html.

Supported OVAs and Capacity

For information about OVAs, administrators should see the Virtualization for Cisco Emergency Responder (CER) at http://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/virtualization-cisco-emergency-responder.html.

Related Documentation

Cisco Emergency Responder Documentation

See the publications for Cisco Emergency Responder. Navigate from the following documentation URL:

https://www.cisco.com/c/en/us/support/unified-communications/emergency-responder/series.html

Cisco Unified Communications Manager Documentation

See the *Cisco Unified Communications Manager Documentation Guide* and other publications specific to your Cisco Unified Communications Manager release. Navigate from the following URL:

https://www.cisco.com/c/en/us/support/unified-communications/unified-communications-manager-callmanager/series.html

Important Notes

Cisco Emergency Responder 14 Supported Upgrades

Cisco Emergency Responder 10.x and later is supported on Cisco Unified Computing System (UCS) and other virtual platforms only. All existing installations on Media Convergence Servers (MCS) should be migrated to UCS before upgrading to Cisco Emergency Responder 10.x or later.

Direct upgrades to Cisco Emergency Responder 14 are supported only for the following releases:

- Cisco Emergency Responder 10.0(1) or Cisco Emergency Responder 10.0(2) or Cisco Emergency Responder 10.5(1) or Cisco Emergency Responder 10.5(1a)
- Cisco Emergency Responder 11.0(1), or Cisco Emergency Responder 11.5(1) or Cisco Emergency Responder 11.5(2) or Cisco Emergency Responder 11.5(2a) or Cisco Emergency Responder 11.5(3) or Cisco Emergency Responder 11.5(4) or Cisco Emergency Responder 11.5(4) SU1 or Cisco Emergency Responder 11.5(4) SU2 or Cisco Emergency Responder 11.5(4) SU3 or Cisco Emergency Responder 11.5(4) SU4 or Cisco Emergency Responder 11.5(4) SU9 or Cisco Emergency Responder 11.5(4) SU10
- Cisco Emergency Responder 12.0(1) or Cisco Emergency Responder 12.0(1) SU1 or Cisco Emergency Responder 12.0(1) SU2
- Cisco Emergency Responder 12.5(1) or Cisco Emergency Responder 12.5(1a) or Cisco Emergency Responder 12.5(1) SU1 or Cisco Emergency Responder 12.5(1) SU2 or Cisco Emergency Responder 12.5(1) SU3 or Cisco Emergency Responder 12.5(1) SU4 or Cisco Emergency Responder 12.5(1) SU5

COP Files Required for Upgrades to Release 14

Emergency Responder now improves the encryption for upgrading files. All COP and ISO upgrade files are now signed with the SHA1SUM hash-based signing tool. SHA-1 is now deprecated and has been superseded by SHA-2 (for example SHA-512).

Post-Release 14, all new COP and ISO files are signed with the SHA512SUM hash-based signing tool.

Table 15: Required COP Files for Upgrades and Migrations to Emergency Responder Release 14

From	To	Upgrade Type
10.0(1), 10.0(2), 10.5(1), and 10.5(1a)	14	Apply the required Upgrade Readiness COP File (pre-upgrade): `ciscocm.cer_preUpgradeCheck-X.k4.cop.sha512`. Refresh upgrade. Required COP files: • ciscocm.version3-keys.cop.sgn • ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn **Note** You must use the following COP file to upgrade from release 10.5(1) and 10.5(1a) to release 14 directly when you select the Switch Version as **No**: `ciscocm.cer_10x_RU_12.5su3.cop.sgn`. Apply the required Upgrade Readiness COP Files (post-upgrade): `ciscocm.cer_postUpgradeCheck-X.k4.cop.sha512`.

From	To	Upgrade Type
11.0(1)	14	Apply the required Upgrade Readiness COP File (pre-upgrade): `ciscocm.cer_preUpgradeCheck-X.k4.cop.sha512`. Refresh upgrade. Required COP file: • ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn Apply the required Upgrade Readiness COP Files (post-upgrade): `ciscocm.cer_postUpgradeCheck-X.k4.cop.sha512`.
11.5(1), 11.5(2), 11.5(2a), 11.5(3), 11.5(4), 11.5(4) SU1, 11.5(4) SU2, 11.5(4) SU3, 11.5(4) SU4, 11.5(4) SU9, 11.5(4) SU10	14	Apply the required Upgrade Readiness COP File (pre-upgrade): `ciscocm.cer_preUpgradeCheck-X.k4.cop.sha512`. Refresh upgrade. Required COP file: • ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn **Note** If you want to upgrade Emergency Responder from Release 11.5.x (except for Release 11.5(1)SU11) to 14SU2, use the following COP file: ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn. Apply the required Upgrade Readiness COP Files (post-upgrade): `ciscocm.cer_postUpgradeCheck-X.k4.cop.sha512`.
12.0(1), 12.0(1) SU1, and 12.0(1) SU2	14	Apply the required Upgrade Readiness COP File (pre-upgrade): `ciscocm.cer_preUpgradeCheck-X.k4.cop.sha512`. Refresh upgrade. Required COP files: • ciscocm.cer_resetudi.cop.sg • ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn Apply the required Upgrade Readiness COP Files (post-upgrade): `ciscocm.cer_postUpgradeCheck-X.k4.cop.sha512`.

From	To	Upgrade Type
12.5(1), 12.5(1a), 12.5(1) SU1, 12.5(1) SU2, 12.5(1) SU3, 12.5(1) SU4, 12.5(1) SU5,	14	Apply the required Upgrade Readiness COP File (pre-upgrade): `ciscocm.cer_preUpgradeCheck-X.k4.cop.sha512`. Required COP file: • ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn **Note** If you want to upgrade Emergency Responder from Release 12.5.x (except for Release 12.5(1)SU6) to 14SU2, use the following COP file: ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn. Apply the required Upgrade Readiness COP Files (post-upgrade): `ciscocm.cer_postUpgradeCheck-X.k4.cop.sha512`.

Caveats

This section contains information about accessing the Cisco Bug Search to find open caveats and resolved caveats.

Access Cisco Bug Search

Known problems (bugs) are graded according to severity level. These release notes contain descriptions of the following:

- All severity level 1 or 2 bugs
- Significant severity level 3 bugs

You can search for problems by using Cisco Bug Search.

Before you begin

To access Cisco Bug Search, you need the following items:

- Internet connection
- Web browser
- Cisco.com user ID and password

Procedure

Step 1 To access Cisco Bug Search, go to:

https://bst.cloudapps.cisco.com/bugsearch

Step 2 Log in with your Cisco.com user ID and password.

Step 3 To look for information about a specific problem, enter the bug ID number in the Search for field, then press **Enter**.

Open Caveats

Table 16: Open Caveats for Cisco Emergency Responder 14

Identifier	Headline
CSCvx38439	CER sends randomly picked line to the Intrado/Redsky when the Offpremise Phone having multiple lines
CSCvx40261	Redsky support for CER 12.5

Resolved Caveats

Table 17: Resolved Caveats for Cisco Emergency Responder 14

Identifier	Headline
CSCvx08115	Text truncation in CER ALI Formatting Tool
CSCvw96322	CER not sending email after backup CER becomes active
CSCvw80131	CER disregards proxy settings for licensing
CSCvu48074	CER SLM Connection Fails When Using Proxy
CSCvt97450	Incremental discovery not working due to ipv6 address searched in an incorrect OID
CSCvt73209	Scheduled backups executed one hour early or later when DST takes effect
CSCvs36001	CER: During Refresh Upgrade, VM console showing blue screen for over 30 minutes

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What'sNew in CiscoProduct Documentation*, which also lists all new and revised Ciscotechnical documentation, at:

http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0.

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