



## New Features in Cisco IOS Release 12.4(22)T

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The following features were introduced in Cisco IOS Release 12.4(22)T. Links to feature documentation are also included.

Feature guides may contain information about more than one feature. To find information about a specific feature within a feature guide, see the Feature Information table at the end of the guide.

Feature guides document features that are supported on many different software releases and platforms. Your Cisco IOS software release or platform may not support all the features documented in a feature guide. See the Feature Information table at the end of the feature guide for information about which features in that guide are supported in your software release. Use Cisco Feature Navigator to find information about platform support and Cisco IOS and Catalyst OS software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.

For the latest feature information and caveats, see the release notes for your platform and software release at the following URL:

[http://www.cisco.com/en/US/products/ps6441/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/ps6441/prod_release_notes_list.html)

See the following sections for a list of features:

- [New Hardware Features Supported in Cisco IOS Release 12.4\(22\)T, page 1](#)
- [New Software Features Supported in Cisco IOS Release 12.4\(22\)T, page 2](#)

### New Hardware Features Supported in Cisco IOS Release 12.4(22)T

#### Cisco IAD2435-8FXS

[http://www.cisco.com/en/US/products/ps6441/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/ps6441/prod_release_notes_list.html)

#### Cisco VDG 1T3 Voice Gateway

[http://www.cisco.com/en/US/products/ps9890/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps9890/tsd_products_support_series_home.html)

#### Cisco VG202 and Cisco VG204 Voice Gateways

[http://www.cisco.com/en/US/products/ps6441/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/ps6441/prod_release_notes_list.html)



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**NME-IPS-K9**

*Release Notes for Cisco Intrusion Prevention System 6.1(1)E1 and E2*

[http://www.cisco.com/en/US/docs/security/ips/6.1/release/notes/17173\\_01.html](http://www.cisco.com/en/US/docs/security/ips/6.1/release/notes/17173_01.html)

*Installing Cisco Intrusion Prevention System Appliances and Modules 6.1*

<http://www.cisco.com/en/US/docs/security/ips/6.1/installation/guide/hwguide.html>

*Configuring the Cisco Intrusion Prevention System Sensor Using the Command Line Interface 6.1*

<http://www.cisco.com/en/US/docs/security/ips/6.1/configuration/guide/cli/cliguide.html>

*Installing and Using Cisco Intrusion Prevention System Device Manager 6.1*

<http://www.cisco.com/en/US/docs/security/ips/6.1/configuration/guide/idm/idmguide.html>

*Installing and Using Cisco Intrusion Prevention System Manager Express 6.1*

<http://www.cisco.com/en/US/docs/security/ips/6.1/configuration/guide/ime/imeguide.html>

**New Software Features Supported in Cisco IOS Release 12.4(22)T****3G Mobile Video Contact Center**

<http://www.cisco.com/en/US/docs/video/multicomm/3g324m.html>

**AAA Broadcast Accounting—Mandatory Response Support**

[http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec\\_aaa\\_\\_brcast\\_acct\\_spt.html](http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec_aaa__brcast_acct_spt.html)

**ACL Syslog Correlation**

[http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec\\_acl\\_syslog.html](http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec_acl_syslog.html)

**Application Performance Assurance Network Module**

[http://www.cisco.com/en/US/docs/cable/serv\\_exch/serv\\_control/broadband\\_app/apa/2.0.0/nme/user/guide/NME-APA\\_User\\_Guide.html](http://www.cisco.com/en/US/docs/cable/serv_exch/serv_control/broadband_app/apa/2.0.0/nme/user/guide/NME-APA_User_Guide.html)

**Call Hold/Resume for Shared Lines for SCCP Analog Ports on ISRs/VG224s**

<http://www.cisco.com/en/US/docs/ios/voice/fxs/configuration/guide/fsxholdres.html>

**CallBack on Busy for Analog Phones on Cisco Voice Gateways**

<http://www.cisco.com/en/US/docs/ios/voice/fxs/configuration/guide/fxsccbbusy.html>

**CDR Support for SRST Operational Mode, CME Call Hold Duration, and Shared Line Identification**

<http://www.cisco.com/en/US/docs/ios/voice/cdr/developer/guide/cdrdefs.html>

**CEoIP - Clock Source Switchover to Internal**

[http://www.cisco.com/en/US/products/ps6441/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/ps6441/prod_release_notes_list.html)

**CEoIP - Unidirectional Support**

[http://www.cisco.com/en/US/products/ps6441/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/ps6441/prod_release_notes_list.html)

**Certificate IP Address Extension Support**

[http://www.cisco.com/en/US/products/ps6441/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/ps6441/prod_release_notes_list.html)

**Cisco IOS Firewall Support for TRP**

[http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec\\_fwll\\_trp.html](http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec_fwll_trp.html)

**Cisco IOS SSL VPN Internationalization**

[http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec\\_ssl\\_vpn.html](http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec_ssl_vpn.html)

**Cisco Unified Communications Trusted Firewall Control**

[http://www.cisco.com/en/US/docs/voice\\_ip\\_comm/cucme/feature/guide/TrustedFirewallControll.html](http://www.cisco.com/en/US/docs/voice_ip_comm/cucme/feature/guide/TrustedFirewallControll.html)

**DC Voltage-Based VMWI for SCCP Controlled VG224 Analog Ports**

<http://www.cisco.com/en/US/docs/ios/voice/fxs/configuration/guide/fxsdcvmwi.html>

**Embedded Event Manager 3.0**

[http://www.cisco.com/en/US/docs/ios/netmgmt/configuration/guide/nm\\_eem\\_overview.html](http://www.cisco.com/en/US/docs/ios/netmgmt/configuration/guide/nm_eem_overview.html)

**Flexible Access Code**

<http://www.cisco.com/en/US/docs/ios/voice/fxs/configuration/guide/fxsccpsplmft.html>

**Flexible NetFlow—IPv4 Multicast Statistics Support**

<http://www.cisco.com/en/US/docs/ios/fnetflow/configuration/guide/cgf-mcast.html>

**Flexible NetFlow—Layer 2 Fields**

[http://www.cisco.com/en/US/docs/ios/fnetflow/configuration/guide/cust\\_fnflow\\_rec\\_mon.html](http://www.cisco.com/en/US/docs/ios/fnetflow/configuration/guide/cust_fnflow_rec_mon.html)

**Flexible NetFlow—MPLS Egress NetFlow**

[http://www.cisco.com/en/US/docs/ios/netflow/configuration/guide/get\\_start\\_cfg\\_nflow.html](http://www.cisco.com/en/US/docs/ios/netflow/configuration/guide/get_start_cfg_nflow.html)

**Flexible NetFlow—NetFlow V5 Export Protocol**

[http://www.cisco.com/en/US/docs/ios/fnetflow/configuration/guide/cfg\\_de\\_fnflow\\_exprts.html](http://www.cisco.com/en/US/docs/ios/fnetflow/configuration/guide/cfg_de_fnflow_exprts.html)

**Flexible Netflow - Top N Talkers Support**

<http://www.cisco.com/en/US/docs/ios/fnetflow/configuration/guide/cgf-topn.html>

**GETVPN Phase 1.2**

[http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec\\_encrypt\\_trns\\_vpn.html](http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec_encrypt_trns_vpn.html)

**GPRS: Gateway Support Node R8.0**

[http://www.cisco.com/en/US/docs/ios/12\\_4/12\\_4x/12\\_4\\_15xq/ggsn8\\_0/cfg/ggsn80\\_12415xq.html](http://www.cisco.com/en/US/docs/ios/12_4/12_4x/12_4_15xq/ggsn8_0/cfg/ggsn80_12415xq.html)

**Lawful Intercept**

[http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec\\_lawful\\_intercept.html](http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec_lawful_intercept.html)

**Per Tunnel QoS**

[http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec\\_per\\_tunnel\\_qos.html](http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec_per_tunnel_qos.html)

**QoS: HQF Multiple Policy Support**

[http://www.cisco.com/en/US/docs/ios/qos/configuration/guide/qos\\_hqf\\_mply\\_support.html](http://www.cisco.com/en/US/docs/ios/qos/configuration/guide/qos_hqf_mply_support.html)

**SCCP Meet-Me Conference**

<http://www.cisco.com/en/US/docs/ios/voice/fxs/configuration/guide/fxssccpsplmft.html>

**RSVP Preconditions for Audio on SIP-TDM Gateway and Cisco Unified Communications Manager Express**

[http://www.cisco.com/en/US/docs/ios/voice/sip/configuration/guide/sip\\_cg-rsvp.html](http://www.cisco.com/en/US/docs/ios/voice/sip/configuration/guide/sip_cg-rsvp.html)

**SIP Diversion Header Enhancements**

[http://www.cisco.com/en/US/products/ps6441/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/ps6441/prod_release_notes_list.html)

**SIP History Information**

[http://www.cisco.com/en/US/docs/ios/voice/sip/configuration/guide/sip\\_cg-msg\\_tmr\\_rspns.html](http://www.cisco.com/en/US/docs/ios/voice/sip/configuration/guide/sip_cg-msg_tmr_rspns.html)

**SIP Multicast Music on Hold**

[http://www.cisco.com/en/US/docs/voice\\_ip\\_comm/cucm/admin/7\\_0\\_1/ccmcf/b04mohas.html](http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/admin/7_0_1/ccmcf/b04mohas.html)

[http://www.cisco.com/en/US/docs/voice\\_ip\\_comm/cucm/admin/7\\_0\\_1/ccmcf/b04mohfx.html](http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/admin/7_0_1/ccmcf/b04mohfx.html)

[http://www.cisco.com/en/US/docs/voice\\_ip\\_comm/cucm/admin/7\\_0\\_1/ccmcf/b04mohsv.html](http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/admin/7_0_1/ccmcf/b04mohsv.html)

[http://www.cisco.com/en/US/docs/ios/voice/cminterop/configuration/guide/vc\\_ucm\\_mgcp\\_gw.html#wp1063184](http://www.cisco.com/en/US/docs/ios/voice/cminterop/configuration/guide/vc_ucm_mgcp_gw.html#wp1063184)

**SIP SRTP Fallback to Nonsecure RTP for CUBE**

[http://www.cisco.com/en/US/products/ps6441/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/ps6441/prod_release_notes_list.html)

## **SIT Detection and Reporting**

[http://www.cisco.com/en/US/products/ps6441/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/ps6441/prod_release_notes_list.html)

## **Time-Based Antireplay on VSA**

[http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec\\_encrypt\\_trns\\_vpn.html](http://www.cisco.com/en/US/docs/ios/security/configuration/guide/sec_encrypt_trns_vpn.html)

## **Unified Communications Manager Express 7.0(1) Localization Configuration Enhancements**

[http://www.cisco.com/en/US/docs/voice\\_ip\\_comm/cucme/admin/configuration/guide/cmelocal.html](http://www.cisco.com/en/US/docs/voice_ip_comm/cucme/admin/configuration/guide/cmelocal.html)

## **VDG 1T3 Voice Gateway**

[http://www.cisco.com/en/US/products/ps9890/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps9890/tsd_products_support_series_home.html)

## **VRF Support on Cisco Unified Communications Manager Express, Survivable Remote Site Telephony, and Secure VRF Traversal for Audio Calls**

[http://www.cisco.com/en/US/docs/voice\\_ip\\_comm/cucme/admin/configuration/guide/cmevrf.html](http://www.cisco.com/en/US/docs/voice_ip_comm/cucme/admin/configuration/guide/cmevrf.html)

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