



# Release Notes for Cisco 2800 Series Integrated Services Routers with Cisco IOS Release 15.0(1)XA

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**Cisco IOS Release 15.0(1)XA5**  
**OL-20857-06 Sixth Release**

These release notes describe new features and significant software components for the Cisco 2800 series routers that support the Cisco IOS Release 15.0(1)XA releases. These release notes are updated as needed. Use these release notes with [About Cisco IOS Release Notes](#).

For a list of the software caveats that apply to the Release 15.0(1)XA releases, see the [“Caveats” section on page 12](#) and the online [Caveats for Cisco IOS Release 15.0M](#) document. The caveats document is updated for every 15.0M maintenance release.

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# System Requirements

This section describes the system requirements for Release 15.0(1)XA5 and includes the following sections:

- [Memory Requirements, page 2](#)
- [Hardware Supported, page 5](#)
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## Memory Requirements

[Table 1](#) describes the memory requirements for the Cisco IOS feature sets supported by Cisco IOS Release 15.0(1)XA5 on the Cisco 2800 series routers.

**Table 1** Required Memory for the Cisco 2800 Series Routers with Cisco IOS Release 15.0(1)XA5

| Platform   | Image Name   | Feature Set   | Image                  | Flash Memory (MB) | DRAM (MB) |
|------------|--|---|------------------------|-------------------|-----------|
| Cisco 2801 | Cisco 2801 IOS Advanced Enterprise Services                        | Advanced Enterprise Services                        | adventerprisek9-mz     | 64                | 192       |
|            | Cisco 2801 IOS AISK9-AESK9 Feature Set Factory Upgrade For Bundles | AISK9-AESK9 Feature Set Factory Upgrade For Bundles |                        | 64                | 192       |
|            | Cisco 2801 IOS ASK9-AESK9 Feature Set Factory Upgrade For Bundles  | ASK9-AESK9 Feature Set Factory Upgrade For Bundle   |                        | 64                | 192       |
|            | Cisco 2801 IOS SPSK9-AESK9 Feat set factory upgrade for bundles    | SPSK9-AESK9 Feat set factory upgrade for bundles    |                        | 64                | 192       |
|            | Cisco 2801 IOS INT Voice/Video, IPIPGW, TDMIP GW AES               | INT Voice/Video, IPIPGW, TDMIP GW AES               | adventerprisek9_ivs-mz | 64                | 256       |
|            | Cisco 2801 IOS Advanced Enterprise Services SNA Switching          | Advanced Enterprise Services SNA Switching          | adventerprisek9_sna-mz | 64                | 192       |
|            | Cisco 2801 IOS Advanced IP Services                                | Advanced IP Services                                | advipservicesk9-mz     | 64                | 192       |
|            | Cisco 2801 IOS SPSK9-AISK9 Feature Set Factory Upgrade For Bundles | SPSK9-AISK9 Feature Set Factory Upgrade For Bundles |                        | 64                | 192       |
|            | Cisco 2801 IOS ASK9-AISK9 Feature Set Factory Upgrade For Bundles  | ASK9-AISK9 Feature Set Factory Upgrade For Bundles  |                        | 64                | 192       |

**Table 1** Required Memory for the Cisco 2800 Series Routers with Cisco IOS Release 15.0(1)XA5 (continued)

| Platform   | Image Name   | Feature Set   | Image            | Flash Memory (MB) | DRAM (MB) |
|------------|--|---|------------------|-------------------|-----------|
| Cisco 2801 | Cisco 2801 IOS AISK9-AISK9 Feature Set Factory Upgrade For Bundles | AISK9-AISK9 Feature Set Factory Upgrade For Bundles | advservicesk9-mz | 64                | 192       |
|            | Cisco 2801 IOS Advanced Security                                   | Advanced Security                                   | advsecurityk9-mz | 64                | 192       |
|            | Cisco 2801 IOS ASK9-ASK9 Feature Set Factory Upgrade For Bundles   | ASK9-ASK9 Feature Set Factory Upgrade For Bundles   |                  | 64                | 192       |
|            | Cisco 2801 IOS Enterprise Base w/o Crypto                          | Enterprise Base w/o Crypto                          | entbase-mz       | 64                | 128       |
|            | Cisco 2801 IOS Enterprise Base                                     | Enterprise Base                                     | entbasek9-mz     | 64                | 128       |
|            | Cisco 2801 IOS Enterprise services w/o crypto                      | Enterprise services w/o crypto                      | entservices-mz   | 64                | 192       |
|            | Cisco 2801 IOS Enterprise Services                                 | Enterprise Services                                 | entservicesk9-mz | 64                | 192       |
|            | Cisco 2801 IOS SPSK9-ESK9 Feat Set Factory Upgrade For Bundles     | SPSK9-ESK9 Feat Set Factory Upgrade For Bundles     |                  | 64                | 192       |
|            | Cisco 2801 IOS IP Base w/o Crypto                                  | IP Base w/o Crypto                                  | ipbase-mz        | 64                | 128       |
|            | Cisco 2801 IOS IP Base   | IP Base   | ipbasek9-mz      | 64                | 128       |
|            | Cisco 2801 IOS IP Voice w/o Crypto                                 | IP Voice w/o Crypto                                 | ipvoice-mz       | 64                | 192       |
|            | Cisco 2801 IOS INT Voice/Video, IPIP GW, TDMIP GW                  | INT Voice/Video, IPIP GW, TDMIP GW                  | ipvoice_ivs-mz   | 64                | 256       |
|            | Cisco 2801 IOS IP Voice  | IP Voice  | ipvoicek9-mz     | 64                | 192       |
|            | Cisco 2801 IOS SP Services   | SP Services   | spservicesk9-mz  | 64                | 192       |
|            | Cisco 2801 IOS SPSK9-SPSK9 Feature Set Factory Upgrade For Bundles | SPSK9-SPSK9 Feature Set Factory Upgrade For Bundles |                  | 64                | 192       |

**Table 1** Required Memory for the Cisco 2800 Series Routers with Cisco IOS Release 15.0(1)XA5 (continued)

| Platform   | Image Name   | Feature Set   | Image                     | Flash Memory (MB) | DRAM (MB) |
|------------|--|---|---------------------------|-------------------|-----------|
| Cisco 2811 | Cisco 2800 Advanced Enterprise Services                        | Enterprise Services                                 | adventerprisek9-mz        | 64                | 256       |
| Cisco 2821 |  |   |                           |                   |           |
| Cisco 2851 | Cisco 2800 AISK9-AESK9 Feature Set Factory Upgrade For Bundles | AISK9-AESK9 Feature Set Factory Upgrade For Bundles |                           | 64                | 256       |
|            | Cisco 2800 ASK9-AESK9 Feature Set Factory Upgrade For Bundles  | ASK9-AESK9 Feature Set Factory Upgrade For Bundles  |                           | 64                | 256       |
|            | Cisco 2800 INT Voice/Video, IPIPGW, TDMIP GW AES               | INT Voice/Video, IPIPGW, TDMIP GW AES               | adventerprisek9_ivs-mz    | 64                | 256       |
|            | Cisco 2800 INT Voice/Video GK, IPIPGW, TDMIP GW AES, LI        | INT Voice/Video GK, IPIPGW, TDMIP GW AES, LI        | adventerprisek9_ivs_li-mz | 64                | 256       |
|            | Cisco 2800 Advanced Enterprise Services With SNA Switching     | Advanced Enterprise Services With SNA Switching     | adventerprisek9_sna-mz    | 64                | 256       |
|            | Cisco 2800 Advanced IP Services                                | Advanced IP Services                                | advipservicesk9-mz        | 64                | 256       |
| Cisco 2811 | Cisco 2800 SPSK9-AISK9 Feat Set Factory Upgrade For Bundles    | SPSK9-AISK9 Feat Set Factory Upgrade For Bundles    |                           | 64                | 256       |
| Cisco 2821 |  |   |                           |                   |           |
| Cisco 2851 | Cisco 2800 ASK9-AISK9 Feature Set Factory Upgrade For Bundles  | ASK9-AISK9 Feature Set Factory Upgrade For Bundles  |                           | 64                | 256       |
|            | Cisco 2800 AISK9-AISK9 Feature Set Factory Upgrade For Bundles | AISK9-AISK9 Feature Set Factory Upgrade For Bundles |                           | 64                | 256       |
|            | Cisco 2800 Advanced Security                                   | Advanced Security                                   | advsecurityk9-mz          | 64                | 256       |
|            | Cisco 2800 ASK9-ASK9 Feature Set Factory Upgrade For Bundles   | ASK9-ASK9 Feature Set Factory Upgrade For Bundles   |                           | 64                | 256       |
|            | Cisco 2800 Enterprise Base w/o Crypto                          | Enterprise Base without Crypto                      | entbase-mz                | 64                | 256       |
|            | Cisco 2800 Enterprise Base                                     | Enterprise Base                                     | entbasek9-mz              | 64                | 256       |
|            | Cisco 2800 Enterprise Services w/o Crypto                      | Enterprise Services without Crypto                  | entservices-mz            | 64                | 256       |

**Table 1** Required Memory for the Cisco 2800 Series Routers with Cisco IOS Release 15.0(1)XA5 (continued)

| Platform                 | Image Name   | Feature Set   | Image            | Flash Memory (MB) | DRAM (MB) |
|--------------------------|--|---|------------------|-------------------|-----------|
| Cisco 2811<br>Cisco 2821 | Cisco 2800 Enterprise Services                                 | Enterprise Services                                 | entservicesk9-mz | 64                | 256       |
| Cisco 2851               | Cisco 2800 SPSK9-ESK9 Feature Set Factory Upgrade For Bundles  | SPSK9-ESK9 Feature Set Factory Upgrade For Bundles  |                  | 64                | 256       |
| Cisco 2811<br>Cisco 2821 | Cisco 2800 IP Base without crypto                              | IP Base without Crypto                              | ipbase-mz        | 64                | 256       |
| Cisco 2851               | Cisco 2800 IP Base   | IP Base   | ipbasek9-mz      | 64                | 256       |
|                          | Cisco 2800 IP Voice without crypto                             | IP Voice without Crypto                             | ipvoice-mz       | 64                | 256       |
|                          | Cisco 2800 INT Voice/Video, IPIP GW, TDMIP GW                  | INT Voice/Video, IPIP GW, TDMIP GW                  | ipvoice_ivs-mz   | 64                | 256       |
|                          | Cisco 2800 IP Voice  | IP Voice  | ipvoicek9-mz     | 64                | 256       |
|                          | Cisco 2800 SP Services   | SP Services   | spservicesk9-mz  | 64                | 256       |
|                          | Cisco 2800 SPSK9-SPSK9 Feature Set Factory Upgrade For Bundles | SPSK9-SPSK9 Feature Set Factory Upgrade For Bundles |                  | 64                | 256       |

## Hardware Supported

Cisco IOS Release 15.0(1)XA5 supports the following Cisco 2800 series routers:

- Cisco 2801
- Cisco 2811
- Cisco 2821
- Cisco 2851

For descriptions of existing hardware features and supported modules, see the hardware installation guides, configuration and command reference guides, and additional documents specific to the Cisco 2800 series routers, which are available at:

[http://www.cisco.com/en/US/products/ps5854/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps5854/tsd_products_support_series_home.html)

## Determining the Software Version

To determine the version of Cisco IOS software currently running on your Cisco 2800 series router, see *About Cisco IOS Release Notes* located at

[http://www.cisco.com/en/US/docs/ios/12\\_4/12\\_4x/12\\_4xy15/ReleaseNote.html](http://www.cisco.com/en/US/docs/ios/12_4/12_4x/12_4xy15/ReleaseNote.html).

## Upgrading to a New Software Release

For general information about upgrading to a new software release, see *About Cisco IOS Release Notes* located at

[http://www.cisco.com/en/US/docs/ios/12\\_4/12\\_4x/12\\_4xy15/ReleaseNote.html](http://www.cisco.com/en/US/docs/ios/12_4/12_4x/12_4xy15/ReleaseNote.html).

## Feature Set Tables

For information about feature set tables, see *About Cisco IOS Release Notes* located at

[http://www.cisco.com/en/US/docs/ios/12\\_4/12\\_4x/12\\_4xy15/ReleaseNote.html](http://www.cisco.com/en/US/docs/ios/12_4/12_4x/12_4xy15/ReleaseNote.html).

## New and Changed Information

This section contains the following information:

- [New Hardware Features in Cisco IOS Release 15.0\(1\)XA5, page 6](#)
- [New Software Features in Cisco IOS Release 15.0\(1\)XA5, page 6](#)
- [New Hardware Features in Cisco IOS Release 15.0\(1\)XA4, page 6](#)
- [New Software Features in Cisco IOS Release 15.0\(1\)XA4, page 7](#)
- [New Hardware Features in Cisco IOS Release 15.0\(1\)XA3, page 7](#)
- [New Software Features in Cisco IOS Release 15.0\(1\)XA3, page 7](#)
- [New Hardware Features in Cisco IOS Release 15.0\(1\)XA2, page 7](#)
- [New Software Features in Cisco IOS Release 15.0\(1\)XA2, page 7](#)
- [New Hardware Features in Cisco IOS Release 15.0\(1\)XA1, page 7](#)
- [New Software Features in Cisco IOS Release 15.0\(1\)XA1, page 7](#)
- [New Hardware Features in Cisco IOS Release 15.0\(1\)XA, page 7](#)
- [New Software Features in Cisco IOS Release 15.0\(1\)XA, page 7](#)

### New Hardware Features in Cisco IOS Release 15.0(1)XA5

There are no new hardware features in this release.

### New Software Features in Cisco IOS Release 15.0(1)XA5

There are no new software features in this release.

### New Hardware Features in Cisco IOS Release 15.0(1)XA4

There are no new hardware features in this release.

## **New Software Features in Cisco IOS Release 15.0(1)XA4**

There are no new software features in this release

## **New Hardware Features in Cisco IOS Release 15.0(1)XA3**

There are no new hardware features in this release.

## **New Software Features in Cisco IOS Release 15.0(1)XA3**

There are no new software features in this release

## **New Hardware Features in Cisco IOS Release 15.0(1)XA2**

There are no new hardware features in this release.

## **New Software Features in Cisco IOS Release 15.0(1)XA2**

There are no new software features in this release

## **New Hardware Features in Cisco IOS Release 15.0(1)XA1**

There are no new hardware features in this release.

## **New Software Features in Cisco IOS Release 15.0(1)XA1**

There are no new software features in this release.

## **New Hardware Features in Cisco IOS Release 15.0(1)XA**

There are no new hardware features in this release.

## **New Software Features in Cisco IOS Release 15.0(1)XA**

### **DnD Feature Button**

Cisco Unified CME 8.0 adds support for the new DnD feature button. The DnD feature button allows the user to configure a line button with Do not Disturb feature instead of using the DnD softkey. Press the button to enable or disable the DnD feature when the phone is idle. This feature button can also be used as Hunt Log (HLog) button if the hunt-group logout DnD is configured in the phone. When it is used as HLog button, press the button to activate or deactivate the DnD.

## Unrestricted Display

Cisco Unified CME 8.0 adds support for Unrestricted Display in ephone. This feature adds unrestricted display option for a phone type in the Cisco Unified CME system. The Unrestricted Display configuration defines a set of attributes that describe the message display option of the ephone.

## Unlocked Meet-me Conference Bridge

Unlocked Meet-me conference allows the user to unlock the Meet-me conference bridge. All DN tags with the same number should be configured as unlocked. Unlocking the Meet-me conference bridge can allow unrestricted and uncontrolled access for external callers. This feature is supported only for Meet-me conference.

## Transporting 802.1q Tags over ATM PVCs for ADSL2+

This feature allows 802.1q tags to be transported over Asynchronous Transfer Mode (ATM) permanent virtual circuits (PVC) used in ADSL2+ uplinks. This feature offers the following benefits:

- It allows Customer Premise Equipment (CPE) to carry traffic with a provider-specific 802.1q-tag.
- It supports the deployment of voice, video, and data services at customer premises. This service combination offers a real-time channel dedicated to Voice over IP (VoIP) traffic, and a second channel that delivers best-effort Internet service. In the current release, all traffic is marked with an 802.1p marking of 0, best-effort. This is implemented using VLAN-based service differentiation.

## SIP/TLS/TCP Secure Call Signaling and SRTP Media Encryption with Cisco SRST

This feature adds Session Initiation Protocol/Transport Layer Security/Transmission Control Protocol (SIP/TLS/TCP) support for secure call signaling and Secure Real-time Transport Protocol (SRTP) for media encryption to establish a secure, encrypted connection between Cisco Unified IP Phones and a failover device using Cisco Unified Survivable Remote Site Telephony (Cisco SRST).

## DOD MLPP PBX1 certification for CME

Adds enhanced Multilevel Priority and Preemption (MLPP) features for Cisco Unified CME including:

- Additional MLPP announcements for isolated code (ICA), unauthorized precedence level (UPA), loss of C2 features (LOC2), and vacant code (VCA)
- Multiple service domains for the Defense Switched Network (DSN) and Defense Red Switched Network (DRSN)
- Route codes and service digits in dialing formats
- Support for supplementary services, such as Three-Way Conferencing, Call Pickup, and Cancel Call Waiting on Analog FXS ports

## Call Restriction Regulations for CME sales in India

The logical partitioning class of restriction (LPCOR) feature enables a single directory number on an IP phone or analog phone that is registered to Cisco Unified CME to connect to both PSTN and VoIP calls according to the restrictions specified by TRAI regulations. Cisco Unified CME can support both VoIP and PSTN calls while restricting the mixing of voice traffic between the PSTN and VoIP networks and preventing PSTN calls from connecting to remote locations over an IP trunk.



## MLPP Support for Supplementary Services on SCCP Controlled Analog Endpoints

Adds Multilevel Priority and Preemption (MLPP) support for supplementary services, such as Three-Way Conferencing, Call Pickup, and Cancel Call Waiting on analog FXS ports. MLPP service allows validated users to place priority calls, and if necessary, to preempt lower-priority calls. The new Cancel Call Waiting feature allows a phone user to disable Call Waiting service for a call.

## Cisco Unified Communications Manager Express 8.0 Music On Hold Enhancement (MOH)

Cisco Unified CME 8.0 and later versions enhances the MOH feature by playing different media streams to PSTN and VoIP callers who are placed on hold. The MOH enhancement allows you to configure up to five additional media streams supplied from multiple media files stored in a router's flash memory and eliminates the need for separate routers for streaming MOH media files.

Cisco Unified CME 8.0 MOH enhancement allows you to create MOH groups and assign ephone extension numbers to these MOH groups to receive different media streams. Callers to the extension numbers configured under the MOH groups can listen to different MOH media streams when they are placed on hold. For more information, see:

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

## Cisco Unified Survivable Remote Site Telephony 8.0 Music On Hold Enhancement (MOH)

Cisco Unified SRST 8.0 and later versions enhance the MOH feature by playing different media streams to PSTN and VoIP G.711 callers who are placed on hold. The MOH enhancement allows you to configure up to five additional media streams supplied from different media files stored in a router's flash memory and eliminates the need of separate routers for streaming multiple MOH media files. For more information, see:

[http://www.cisco.com/en/US/docs/voice\\_ip\\_comm/cusrst/feature/guide/MOH\\_srst.html](http://www.cisco.com/en/US/docs/voice_ip_comm/cusrst/feature/guide/MOH_srst.html)

## CME CSTA CTI Protocol Suite

This feature in Cisco Unified CME 8.0 enables call state monitoring and control and allows third party applications to monitor and control the Cisco Unified CME system to enable programmatic control of any SCCP telephony device registered with Cisco Unified CME.

## G.SHDSL Auto Pair Detect

The new **dsl-group auto** command automatically assigns the Central Office (CO) configuration to an ATM dsl-group on the Customer Premise Equipment (CPE) that has either Cisco HWIC-4SHDSL or Cisco HWIC-2SHDSL installed on the router. Automatic configuration is not supported on IMA groups. Automatic configuration is limited to one DSL group and ATM interface. Once a group is automatically configured, no other group can be created. All manually created groups must be deleted before creating an automatic configuration group.

## Secure SIP Failover for SRST

This feature enables VoIP calls that failover to Survivable Remote Site Telephony (SRST) devices to provide secure and encrypted transport using the Session Initiation Protocol (SIP). These voice calls originate from IP Phones running the SIP protocol.

## RFC 4040-Based Clear-Channel Codec Negotiation for SIP Calls

RFC4040 based clear-channel codec negotiation for SIP calls on both Cisco IOS SIP-TDM gateways and Cisco Unified Border Elements. For details about enabling this feature, see the **encap clear-channel standard** and **voice-class sip encap clear-channel** commands in the *Cisco IOS Voice Command Reference*:

[http://www.cisco.com/en/US/docs/ios/voice/command/reference/vr\\_book.html](http://www.cisco.com/en/US/docs/ios/voice/command/reference/vr_book.html)

## Support for SIP 181 “Call is Being Forwarded” Message

Support for SIP 181 Call is Being Forwarded message was added to Cisco IOS SIP TDM gateways and Cisco Unified Border Elements (Cisco UBEs). This feature is enabled by default—to disable this feature for all SIP 181 messages or for SIP 181 message either with or without SDP, see the **block** and **voice-class sip block** commands in the *Cisco IOS Voice Command Reference*:

[http://www.cisco.com/en/US/docs/ios/voice/command/reference/vr\\_book.html](http://www.cisco.com/en/US/docs/ios/voice/command/reference/vr_book.html)

On the Cisco UBE, this feature also adds the ability to receive SIP 181 messages on one leg and send out SIP 183 messages on the other leg. For details about enabling this feature on a Cisco UBE, see the **map resp-code** and **voice-class sip map resp-code** commands in the *Cisco IOS Voice Command Reference*:

[http://www.cisco.com/en/US/docs/ios/voice/command/reference/vr\\_book.html](http://www.cisco.com/en/US/docs/ios/voice/command/reference/vr_book.html)

## Support for Expires Timer Reset for SIP 183

Support for resetting the Expires timer upon receipt of SIP 183 message so that when the terminating device lacks answer supervision or does not send the required SIP 200 OK message within the timer expiry, you can enable this feature to send periodic SIP 183 messages to reset the Expires timer and preserve the call until final response. This feature can be enabled for SIP 183 messages either with or without SDP. For details about enabling this feature, see the **reset timer expires** and **voice-class sip reset timer expires** commands in the *Cisco IOS Voice Command Reference*:

[http://www.cisco.com/en/US/docs/ios/voice/command/reference/vr\\_book.html](http://www.cisco.com/en/US/docs/ios/voice/command/reference/vr_book.html)

## Support for Multiple Registrars on SIP Trunks on a Cisco Unified Border Element, on Cisco IOS SIP TDM Gateways, and on Cisco Unified Communications Manager Express

Support for simultaneous registration with multiple registrars for endpoints on a Cisco Unified Border Element, a Cisco IOS SIP TDM gateway, or on Cisco Unified Communications Manager Express. This feature enhances or introduces the **credentials**, **registrar**, **localhost** and **voice-class sip localhost** commands (see the Cisco IOS Voice Command Reference at

[http://www.cisco.com/en/US/docs/ios/voice/command/reference/vr\\_book.html](http://www.cisco.com/en/US/docs/ios/voice/command/reference/vr_book.html)) and adds support for multiple realms, which allows you to configure and enable authentication across different domains (or service providers). For details about this feature, see the Configuring Multiple Registrars on SIP Trunks feature guide:

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

## Support for PAI, PPI, and Privacy Headers on the SIP Trunk of Cisco Unified Communications Manager Express

Support for PAI, PPI, and Privacy Headers on the Cisco Unified CME SIP trunk. When enabled, Calling Number, Calling Name, and Privacy information is sent using PAI, PPI, and Privacy headers over the SIP trunk of Cisco Unified CME. This feature also enables interworking between the Remote-Party-ID (RPID) information contained in SIP line-side messages to PAI, PPI, and Privacy header information on the SIP trunk.

## Support for Stripping off Progress Indicator from Incoming Q.931 CALL-PROCEEDING Messages on Cisco IOS SIP Gateways, Cisco IOS H.323 Gateways, and Cisco UBEs

Support for stripping off progress indicator (PI) from incoming Q.931 CALL-PROCEEDING message on Cisco IOS SIP and H.323 gateways and on Cisco UBEs. Configuration of this feature determines whether an incoming Q.931 CALL-PROCEEDING message with a PI value results in a SIP 183 message or H.323 Progress message. This behavior allows interworking with third-party SIP and H.323 servers. For details about enabling this feature, see the **progress\_ind** command in the *Cisco IOS Voice Command Reference* at [http://www.cisco.com/en/US/docs/ios/voice/command/reference/vr\\_book.html](http://www.cisco.com/en/US/docs/ios/voice/command/reference/vr_book.html)

## IEEE 802.1ag - D8.1 standard Compliant CFM, Y.1731 multicast LBM / AIS / RDI / LCK, IP SLA for Ethernet

The ITU-Y.1731 Fault Management Functions feature adds to IEEE CFM the ETH-AIS and ETH-RDI functions for fault detection, fault verification, and fault isolation in large metropolitan-area networks (MANs) and WANs. For more information, see:

[http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce\\_cfm-ieee\\_y1731.html](http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce_cfm-ieee_y1731.html)

## Support for interworking between RSVP and non-RSVP call legs for SIP calls. Support for non-RSVP H.323 call leg to RSVP SIP call leg

The Support for Interworking Between RSVP Capable and RSVP Incapable Networks feature provides precondition-based Resource Reservation Protocol (RSVP) support for basic audio call and supplementary services on Cisco Unified Border Element (UBE). This feature improves the interoperability between RSVP and non-RSVP networks. RSVP functionality added to Cisco UBE helps you to reserve the required bandwidth before making a call.

## Support for dynamic payload type interworking for DTMF and codec packets for SIP-to-SIP calls

The Support for Dynamic Payload Type Interworking for DTMF and Codec Packets for SIP-to-SIP Calls feature. This feature allows the Cisco Unified Border Element interwork between different dynamic payload type values across the call legs for the same codec. Also, Cisco UBE supports any payload type value for audio, video, named signaling events (NSEs), and named telephone events (NTEs) in the dynamic payload type range.

## Support for MIB to report call volume and call rate related statistics on the Cisco Unified Border Element

Supports CISCO-VOICE-DIAL-CONTROL-MIB objects to obtain call volume and call rate information and CISCO-DSP-MGMT-MIB objects to report transcoding sessions availability information on the Cisco Unified Border Element.

## New Features in Release 15.0

For information regarding the features supported in Cisco IOS Release 15.0, see the *Release Notes* and *Feature Guides* links at:

[http://www.cisco.com/en/US/products/ps10591/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps10591/tsd_products_support_series_home.html)

## Limitations and Restrictions

There are no known limitations or restrictions in this release.

## Caveats

For general information on caveats and the bug toolkit, see *About Cisco IOS Release Notes* located at [http://www.cisco.com/en/US/docs/ios/12\\_4/12\\_4x/12\\_4xy15/ReleaseNote.html](http://www.cisco.com/en/US/docs/ios/12_4/12_4x/12_4xy15/ReleaseNote.html).

This section contains the following caveat information:

- [Open Caveats - Release 15.0\(1\)XA5, page 12](#)
- [Resolved Caveats - Release 15.0\(1\)XA5, page 13](#)
- [Open Caveats - Release 15.0\(1\)XA4, page 17](#)
- [Resolved Caveats - Release 15.0\(1\)XA4, page 18](#)
- [Open Caveats - Release 15.0\(1\)XA3, page 20](#)
- [Resolved Caveats - Release 15.0\(1\)XA3, page 20](#)
- [Open Caveats - Release 15.0\(1\)XA2, page 20](#)
- [Resolved Caveats - Release 15.0\(1\)XA2, page 21](#)
- [Open Caveats - Release 15.0\(1\)XA1, page 26](#)
- [Resolved Caveats - Release 15.0\(1\)XA1, page 26](#)
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- [Resolved Caveats - Release 15.0\(1\)XA, page 37](#)

## Open Caveats - Release 15.0(1)XA5

There are no open caveats in this release.

## Resolved Caveats - Release 15.0(1)XA5

**Note**

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This will be the last rebuild of the Cisco IOS XA release. No further DDTs will be committed to this branch. The migration path for this release is 15.1T or a later release.

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CScth03022 Crafted SIP packets may cause device to reload.

Multiple vulnerabilities exist in the Session Initiation Protocol (SIP) implementation in Cisco IOS Software and Cisco IOS XE Software that could allow an unauthenticated, remote attacker to cause a reload of an affected device or trigger memory leaks that may result in system instabilities. Affected devices would need to be configured to process SIP messages for these vulnerabilities to be exploitable.

Cisco has released free software updates that address these vulnerabilities. There are no workarounds for devices that must run SIP; however, mitigations are available to limit exposure to the vulnerabilities.

This advisory is posted at <http://www.cisco.com/warp/public/707/cisco-sa-20110928-sip.shtml>.

CScti33534 "no ipv6 address autoconfig" may cause crash after router advert flood.

**Symptom** After launching a flood of random IPv6 router advertisements when an interface is configured with "ipv6 address autoconf", removing the IPv6 configuration on the interface with "no ipv6 address autoconf" may cause a reload. Other system instabilities are also possible during and after the flood of random IPv6 router advertisements.

**Conditions** Cisco IOS is configured with "ipv6 address autoconf".

**Workaround** Not using IPv6 auto-configuration may be used as a workaround.

**Note**

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Cisco IOS checks for the hop limit field in incoming Neighbour Discovery messages and packets received with a hop limit not equal to 255 are discarded. This means that the flood of ND messages has to come from a host that is directly connected to the Cisco IOS device.

---

CSCtg64478 IOS-NAT drops SIP INVITE packet.

**Symptom** Router drops valid packets, causing SIP call to fail.

**Conditions** This is only for SIP traffic using SDP.

There is no workaround.

CSCsw64971 NAT-Entry deletion fails in SNAT backup router for H.323 RAS traffic.

**Symptom** NAT-Entry deletion fails in SNAT backup router for H.323 RAS traffic. We can also see crashes on the Standby router if the Active interface is brought up.

**Conditions** This can occur when using SNAT with HSRP and has been seen on numerous images.

**Workaround** There is no workaround.

CSCsx49358 Ping fails between the 6CE-6PE over the MPLS cloud.

**Symptom** A Cisco router may face ping failure between provider and customer networks.

**Conditions** This can occur on routers running Cisco IOS Release 12.4(23.15)T3.

**Workaround** There is no workaround.

CSCte91259 Dynamic DNS may crash router.

**Symptom** A Cisco router may unexpectedly reload due to a bus error after displaying an "%IDMGR-3-INVALID\_ID" error.

**Conditions** The crash will be seen only if the router is using DHCP Client Dynamic DNS update.

**Workaround** There is no workaround.

CSCTg41606 RRI configuration drops egress traffic due to incomplete adjacency.

**Symptom** With Reverse Route Injection (RRI) configured with the **reverse-route** command, if the crypto map is applied to a multi-access interface (for example, ethernet), then egress traffic may fail when the router cannot populate an ARP entry for the crypto peer address.

**Conditions** The symptom could occur when the upstream device does not support proxy arping.

**Workaround** Use the **reverse-route remote-peer <next-hop-ip>** command instead of the **reverse-route** command.

CSCTc73759 H323 gatekeeper crashing upon receipt of specific traffic.

**Symptom** The H.323 gatekeeper implementation in Cisco IOS Software is crashing after receiving specific traffic.

**Conditions** This issue occurs after receiving specific content on the TCP/H.245 session or the H.323 gatekeeper RAS device either on Cisco IOS releases 12.4(20)T1-ES5 or 12.4(20)T4.

**Workaround** There is no workaround. Refer to the advisory posted at <http://www.cisco.com/warp/public/707/cisco-sa-20100922-h323.shtml>.

CSCTg41733 Memory Leak on SIP UDP REGISTER Call Paths During Fuzzing.

**Symptom** Certain crafted packets may cause a memory leak in the device in very rare circumstances.

**Conditions** This symptom is observed on a Cisco IOS router configured for SIP processing.

**Workaround** Disable SIP if it is not needed.

CSCTb73450 L2TPv3: SCCRQ packets causes tunnel to reset after digest failure.

**Symptom** Start-Control-Connection-Request (SCCRQ) packets may cause tunnel to reset after digest failure.

**Conditions** This issue is observed when the SCCRQ packets are sent with an incorrect hash.

**Workaround** Disable SIP if it is not needed.

CSCtg64478 IOS-NAT drops SIP INVITE packet.

**Symptom** Router drops valid packets, causing SIP call to fail.

**Conditions** This is only for SIP traffic using SDP.

**Workaround** There is no workaround.

CSCsd34855 VTP update with a VLAN name >100 characters causes buffer overflow.

**Symptom** The VTP feature in certain versions of Cisco IOS software is vulnerable to a locally exploitable buffer overflow condition and potential execution of arbitrary code. If a VTP summary advertisement is received with a Type-Length-Value (TLV) containing a VLAN name greater than 100 characters, the receiving switch will reset with an Unassigned Exception error.

**Conditions** The packets must be received on a trunk enabled port, with a matching domain name and a matching VTP domain password (if configured). On the September 13, 2006, The Phenoelit Group posted an advisory containing three vulnerabilities: VTP Version field DoS, Integer Wrap in VTP revision, and Buffer Overflow in VTP VLAN name. These vulnerabilities are addressed by the following Cisco IDs: CSCsd52629/CSCsd34759-VTP version field DoS, CSCse40078/CSCse47765-Integer Wrap in VTP revision, and CSCsd34855/CSCei54611-Buffer Overflow in VTP VLAN name. Cisco statement and further information are available on the Cisco public website at <http://www.cisco.com/warp/public/707/cisco-sr-20060913-vtp.shtml>.

**Workaround** There is no workaround.

CSCtf91428 NAT H.323: router crashes in IP Input [in LL\_Get ]

The Cisco IOS Software Network Address Translation functionality contains three denial of service (DoS) vulnerabilities. The first vulnerability is in the translation of Session Initiation Protocol (SIP) packets, the second vulnerability in the translation of H.323 packets, and the third vulnerability is in the translation of H.225.0 call signaling for H.323 packets.

Cisco has released free software updates that address these vulnerabilities.

This advisory is posted at <http://www.cisco.com/warp/public/707/cisco-sa-20100922-nat.shtml>.

Note: The September 22, 2010, Cisco IOS Software Security Advisory bundled publication includes six Cisco Security Advisories. Five of the advisories address vulnerabilities in Cisco IOS Software, and one advisory addresses vulnerabilities in Cisco Unified Communications Manager. Each advisory lists the releases that correct the vulnerability or vulnerabilities detailed in the advisory. The table at the following URL lists releases that correct all Cisco IOS Software vulnerabilities that have been published on September 22, 2010 or earlier:

<http://www.cisco.com/warp/public/707/cisco-sa-20100922-bundle.shtml>

Individual publication links are in *Cisco Event Response: Semiannual Cisco IOS Software Security Advisory Bundled Publication* at the following link:

[http://www.cisco.com/web/about/security/intelligence/Cisco\\_ERP\\_sep10.html](http://www.cisco.com/web/about/security/intelligence/Cisco_ERP_sep10.html)



#### CSCtf17624 NAT SIP: Crash at ipnat\_clear\_sd

The Cisco IOS Software Network Address Translation functionality contains three denial of service (DoS) vulnerabilities. The first vulnerability is in the translation of Session Initiation Protocol (SIP) packets, the second vulnerability in the translation of H.323 packets, and the third vulnerability is in the translation of H.225.0 call signaling for H.323 packets.

Cisco has released free software updates that address these vulnerabilities.

This advisory is posted at <http://www.cisco.com/warp/public/707/cisco-sa-20100922-nat.shtml>.

Note: The September 22, 2010, Cisco IOS Software Security Advisory bundled publication includes six Cisco Security Advisories. Five of the advisories address vulnerabilities in Cisco IOS Software, and one advisory addresses vulnerabilities in Cisco Unified Communications Manager. Each advisory lists the releases that correct the vulnerability or vulnerabilities detailed in the advisory. The table at the following URL lists releases that correct all Cisco IOS Software vulnerabilities that have been published on September 22, 2010 or earlier:

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#### CSCte14603 IGMPv3 DoS Vulnerability

A vulnerability in the Internet Group Management Protocol (IGMP) version 3 implementation of Cisco IOS Software and Cisco IOS XE Software allows a remote unauthenticated attacker to cause a reload of an affected device. Repeated attempts to exploit this vulnerability could result in a sustained denial of service (DoS) condition. Cisco has released free software updates that address this vulnerability.

This advisory is posted at <http://www.cisco.com/warp/public/707/cisco-sa-20100922-igmp.shtml>.

Note: The September 22, 2010, Cisco IOS Software Security Advisory bundled publication includes six Cisco Security Advisories. Five of the advisories address vulnerabilities in Cisco IOS Software, and one advisory addresses vulnerabilities in Cisco Unified Communications Manager. Each advisory lists the releases that correct the vulnerability or vulnerabilities detailed in the advisory. The table at the following URL lists releases that correct all Cisco IOS Software vulnerabilities that have been published on September 22, 2010, or earlier:

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## Open Caveats - Release 15.0(1)XA4

There are no open caveats in this release.

## Resolved Caveats - Release 15.0(1)XA4

CSctd33567

The H.323 implementation in Cisco IOS Software contains two vulnerabilities that may be exploited remotely to cause a denial of service (DoS) condition on a device that is running a vulnerable version of Cisco IOS Software.

Cisco has released free software updates that address these vulnerabilities. There are no workarounds to mitigate these vulnerabilities other than disabling H.323 on the vulnerable device.

This advisory is posted at <http://www.cisco.com/warp/public/707/cisco-sa-20100922-h323.shtml>.

Note: The September 22, 2010, Cisco IOS Software Security Advisory bundled publication includes six Cisco Security Advisories. Five of the advisories address vulnerabilities in Cisco IOS Software, and one advisory addresses vulnerabilities in Cisco Unified Communications Manager. Each advisory lists the releases that correct the vulnerability or vulnerabilities detailed in the advisory. The table at the following URL lists releases that correct all Cisco IOS Software vulnerabilities that have been published on September 22, 2010, or earlier:

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[http://www.cisco.com/web/about/security/intelligence/Cisco\\_ERP\\_sep10.html](http://www.cisco.com/web/about/security/intelligence/Cisco_ERP_sep10.html)

CSctd86472

The Cisco IOS Software Network Address Translation functionality contains three denial of service (DoS) vulnerabilities. The first vulnerability is in the translation of Session Initiation Protocol (SIP) packets, the second vulnerability in the translation of H.323 packets and the third vulnerability is in the translation of H.225.0 call signaling for H.323 packets.

Cisco has released free software updates that address these vulnerabilities.

This advisory is posted at <http://www.cisco.com/warp/public/707/cisco-sa-20100922-nat.shtml>.

Note: The September 22, 2010, Cisco IOS Software Security Advisory bundled publication includes six Cisco Security Advisories. Five of the advisories address vulnerabilities in Cisco IOS Software, and one advisory addresses vulnerabilities in Cisco Unified Communications Manager. Each advisory lists the releases that correct the vulnerability or vulnerabilities detailed in the advisory. The table at the following URL lists releases that correct all Cisco IOS Software vulnerabilities that have been published on September 22, 2010, or earlier:

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CSctf72678

Multiple vulnerabilities exist in the Session Initiation Protocol (SIP) implementation in Cisco IOS Software that could allow an unauthenticated, remote attacker to cause a reload of an affected device when SIP operation is enabled.

Cisco has released free software updates that address these vulnerabilities. There are no workarounds for devices that must run SIP; however, mitigations are available to limit exposure to the vulnerabilities.

This advisory is posted at <http://www.cisco.com/warp/public/707/cisco-sa-20100922-sip.shtml>.

Note: The September 22, 2010, Cisco IOS Software Security Advisory bundled publication includes six Cisco Security Advisories. Five of the advisories address vulnerabilities in Cisco IOS Software, and one advisory addresses vulnerabilities in Cisco Unified Communications Manager. Each advisory lists the releases that correct the vulnerability or vulnerabilities detailed in the advisory. The table at the following URL lists releases that correct all Cisco IOS Software vulnerabilities that have been published on September 22, 2010, or earlier:

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Cisco Unified Communications Manager (CUCM) is affected by the vulnerabilities described in this advisory. Two separate Cisco Security Advisories have been published to disclose the vulnerabilities that affect the Cisco Unified Communications Manager at the following locations:

<http://www.cisco.com/warp/public/707/cisco-sa-20090826-cucm.shtml>

<http://www.cisco.com/warp/public/707/cisco-sa-20100922-cucmsip.shtml>

CSctb44167 Router reloads while testing Eapfast authentication with RadiusAccountng.

**Symptom** A Cisco router may reload when running EAP-FAST authentication with RADIUS Accounting.

**Conditions** This symptom is observed on a Cisco 1841 integrated services router that is running Cisco IOS Release 12.4T.

**Workaround** There is no workaround.

CSctf57481 FXS port controlled by STCAPP is stuck after a few calls.

**Symptom** No powering ring observed for the new incoming call on STCAPP control analog phone.

**Conditions** Configure STCAPP control analog phone with button **C** (overlay-callwaitng). After the STCAPP ephone park a call (FAC Park), if the XEE goes onhook before the parked call answered, there will be no power ring heard on the next incoming call to this STCAPP control analog phone.

**Workaround** Use button **O** (overlay) for the STCAPP ephone or shut/no-shut the STCAPP fxs port.

CSCTg04747 Octopoda: support making an outgoing call on a queuing dn.

**Symptom** Dial Via Office (DVO) failed to work using UCX-SI SDK.

**Conditions** When outgoing call is done using queuing-dn.

**Workaround** There is no workaround.

CSCTg36728 CTI makeCall request with prompt option crashes router when locale is enabled.

**Symptom** Router crashes or spurious memory access can be seen.

**Conditions** The symptom is observed if non-default locale is enabled and a UCME receives a make call request from UCXSI with the "prompt" option.

**Workaround** There is no workaround.

## Open Caveats - Release 15.0(1)XA3

There are no open caveats in this release.

## Resolved Caveats - Release 15.0(1)XA3

CSCTd66433 GW failed to send an UNREGISTER message.

**Symptom** GW failed to send REGISTER message when unconfigured from dial-peer.

**Conditions** GW failed to send REGISTER message when unconfigured from dial-peer.

**Workaround** There is no workaround.

## Open Caveats - Release 15.0(1)XA2

There are no open caveats in this release.

## Resolved Caveats - Release 15.0(1)XA2

CSCta19962

The H.323 implementation in Cisco IOS Software contains two vulnerabilities that may be exploited remotely to cause a denial of service (DoS) condition on a device that is running a vulnerable version of Cisco IOS Software.

Cisco has released free software updates that address these vulnerabilities. There are no workarounds to mitigate these vulnerabilities other than disabling H.323 on the vulnerable device if H.323 is not required.

This advisory is posted at <http://www.cisco.com/warp/public/707/cisco-sa-20100324-h323.shtml>.

CSCtb93855

The H.323 implementation in Cisco IOS Software contains two vulnerabilities that may be exploited remotely to cause a denial of service (DoS) condition on a device that is running a vulnerable version of Cisco IOS Software.

Cisco has released free software updates that address these vulnerabilities. There are no workarounds to mitigate these vulnerabilities other than disabling H.323 on the vulnerable device if H.323 is not required.

This advisory is posted at <http://www.cisco.com/warp/public/707/cisco-sa-20100324-h323.shtml>

CSCte53732 UC520 ran into rommon mode and locked up the console port access.

**Symptom** A Cisco UC520 crashes with memory corruption and frozen console access.

**Conditions** This symptom is observed when upgrading from Cisco IOS Release 15.0(1) image XA to XA1 with the default configuration applied.

**Workaround** Power-cycle the router. This symptom will not occur after the image has been upgraded.

CSCtd17417 Router crash when configured as mobile router with IP phone attached.

**Symptom** Router crash when configured as mobile router with IP phone attached.

**Conditions** Mobile IP with IP phone attached.

**Workaround** There is no workaround.

CSCTe08121 SRST8.0: 7937 with sccp version 17 would not register to SRST.

**Symptom** IP phones running firmware that uses sccp version 17 cannot register to SRST/CME-SRST or can register but will not obtain any lines.

**Conditions** SRST router running 15.0(1)XA. This is the first image with sccp version 17 support for SRST.

**Workaround** Download the IP phone firmware to a version that does not use sccp version 17.

For 79x1/5/2 phones and 7970s, this is 8.4 firmware.

For 7937 phones, get a load prior to 1.4(1).

CSCTe73286 SCCP lines cannot fallback to SRST properly.

**Symptom** The line buttons may be missing after phone falls back to the SRST.

**Conditions** If there are more than 42 buttons configured on the phone, some line buttons may be missing after the phone fails over to the SRST.

**Workaround** Downgrade the phoneload to sccp v16 or lower.

CSCTf12048 UC560 fan broken detection for environment monitoring.

**Symptom** The IOS messages could be observed.

%ENVM-3-FAN\_SLOW: System detected Sluggish Fan Condition.

%SMHM-2-SHUTDOWN: Shutdown service module due to a fan failed condition.

**Conditions** The symptom could happen under normal condition.

**Workaround** There is no workaround.

CSCTd66592 860 build fails with undefined reference to 'l2\_bmib\_add\_vlan\_entity\_entry'.

CSCTb66273 EZVPN+DVTI: Ping through EZVPN tunnel fails with Split-tunneling.

**Symptom** EzVPN traffic is getting dropped at the DVTI interface on the server.

**Conditions** The symptom is observed with an EzVPN DVTI server configured with split tunneling.

**Workaround** Remove the split tunnel configuration.

CSCTd78882 Stuck port possible with trunk group with max-retry and unplugged port.

**Symptom** FXO ports can get stuck in offhook state.

**Conditions** The symptom is observed when FXO ports are members of a huntgroup where the first member port is disconnected or down. The trunkgroup has max-retry configured and rapid calls are connected and disconnected using the trunkgroup.

**Workaround** Unconfigure max-retry. Under each port, configure timeouts power-denial 0" so that disconnected ports are moved to offhook state and will not be hunted.

CSCTe54658 CISCO-ISDN-MIB shows invalid output on Uc520.

**Symptom** CISCO-ISDN-MIB should be supported on UC520 from the MIB locator tool. Customer is using "demandNbrCallDetails" to monitor the status of Free BRI channels using ISDN MIB.

**Conditions** When trying to run an snmpwalk for an active call on UC520 on the following OIDs:

1.3.6.1.4.1.9.9.26.1.1.1.1.3 - Channel ID  
Always get the output as 0.

The output is different compared to the value received from the same configuration on 2800 and 3800.

**Workaround** There is no workaround.

CSCTd53835 UC500 crashed after configuring SPA525 with SPA500S.

**Symptom** Router crashes.

**Conditions** When configuring SPA525 phone with SPA500S side car, followed by restart command.

**Workaround** Use reset instead of restart.

CSCTe39270 CME does not support TsRemoteHold on sccp v16.

CSCTe84849 69xx phones display toast message "From XXXX" instead of Caller ID.

**Symptom** 69xx phones display toast message "From : XXXX" when it receives an incoming call for 6 seconds and then it displays the caller ID of the person.

**Conditions** Observed for 8.5.3 and 8.5.4 phone firmwares.

**Workaround** Not seen for phone firmware 8.5.1.66.22.

CSCTe65327 Caller ID does not work in Gilera2 image.

**Symptom** The Update method would have two call-info headers in certain call scenarios. This would cause the caller ID information to be "unknown" when the two headers were present.

**Conditions** Under certain call scenarios, the Update method would have two call-info headers, one for normal remotecc info and one for security status.

**Workaround** There is no workaround but it is not service effecting. Caller ID would be unavailable in certain instances.

CSCTc51573 CME GPickup/Pickup does not work with Voice Hunt-group.

**Symptom** CME group pickup or pickup features do not work properly.

**Conditions** The symptom is observed in Cisco IOS Release 12.4(24)T1 when a call is placed to the voice-hunt group.

**Workaround** There is no workaround.

CSCTd92892 myphoneapp of snr config should not be modified by monitor phone.

**Symptom** A monitor phone can change the monitored dn SNR number via myphoneapp application.

**Conditions** Using myphoneapp on a monitoring phone can change the SNR target of a monitored dn.

**Workaround** There is no workaround.

CSCTb73337 AnyConnect 2.4 does not work with IOS if cert not trusted/name mismatch.

**Symptom** AnyConnect Client version 2.4 does not work with IOS headend when a certificate is used that is not trusted or there is mismatch in the hostname entered in the URL to that to the CN (common name) or SAN (subject alternative name) in the IOS router certificate.

AnyConnect 2.4 fails to connect with IOS headend due certificate verify fail error.

This only pertains to the 2.4 version of AnyConnect and previous versions are not affected.

**Conditions**

- AnyConnect 2.4 is used.
- Untrusted router ssl certificate or CN or SAN does not match with that of the URL (fqdn) entered.



**Workaround** Any of the following workarounds may be used:

- Make sure that the router cert is trusted (import into cert store) and then match the CN/SAN on cert to that of the URL. If there is no DNS entry, then you can use a Local DNS entry by updating the host file for the hostname in certificate.
- Downgrade AnyConnect to a previous version 2.3.

CSCTf07474 TCP over IPsec session is failed after EZVPN session up and disconnected.

**Symptom** TCP sessions fail to establish between two IOS routers over an IPSEC VPN tunnel after an EZVPN client session has been established and torn down to the two routers. Logs show %FW-6-DROP\_PKT: Dropping TCP session 192.168.0.0:58553 192.168.255.255:23 due to invalid segment with IP ident 35331 tcpflags 0x5010 seq.no 2978402186 ack 1370657297.

The TCP sessions could be a telnet or H.323 sessions that terminate and originate between the two routers.

**Conditions**

- Two IOS routers setup with IPSEC point to point VPN.
- IOS release is 15.0(1)XA or higher.
- Both routers are setup as EZVPN servers.
- An EZVPN session has been established to one of the routers and has been disconnected.

**Workaround**

- Always keep an EZVPN client session up to the router.
- Remove and readd "IP inspect" CLI on WAN interface after EZVPN session has been disconnected.

CSCTf26271 UC500: 525G2 does not register with CME.

**Symptom** SPA525G2 phone would not register.

**Conditions** Plug in the SPA525G2 phone to the UC500.

**Workaround** There is no workaround.

CSCTf40571 Missing line button when sccp version 17 phones fallback to SRST.

**Symptom** No line or speed dial buttons are shown on the fallback skinny phone.

**Conditions** Skinny phone falls back to the SRST.

**Workaround** Attach side cars to the phone.

## Open Caveats - Release 15.0(1)XA1

There are no open caveats in this release.

## Resolved Caveats - Release 15.0(1)XA1

CSCsv33322 `remove_snmp_index_entry` seen on first OIR removal in NM-1A-T3/E3.

CSCsw32679 IKE SAs between COOP KeyServers are not getting deleted

**Symptom** IKE does not get cleared, even if the GDOI Group is removed from the COOP Key servers.

**Conditions** Removed the GDOI Group from both the COOP Keyservers.

**Workaround** Issue `clear crypto isa`

CSCsx49309 FTP pauses 80 seconds in respond to "copy /verify ftp: flash:" op prompt.

**Symptom** When using the `copy ftp` command to update IOS software issued on a router, it takes approximately 80 seconds before the file transfer begins.

**Conditions** This is seen on a 2800 or 3800 series router, but is not seen on routers in other series, such as 2600 or 7200.

**Workaround** Use a different protocol to transfer the file, such as TFTP, RCP, or HTTP.

CSCsy54137 Some calls are shown active after WAN link flaps between gateway and CCM.

**Symptom** Some calls are shown as active after a WAN link outage between the gateway and Call Manager.

**Conditions** This symptom is observed if a WAN outage happens when more than 40 calls are in progress. Some random calls are then shown to be active when using the command `show call active voice compact` with Cisco IOS Release 12.4(24)T2.

**Workaround** There is no workaround.

CSCTa11698 skinny-nat is not doing deep packet inspection after issuing the command **clear ip nat trans**.

CSCTa24984 FWP - NULL should not be accepted as a name for class-maps and policy-maps.

**Symptom** NULL is accepted as a name for class-maps and policy-maps. No error message is displayed.

**Conditions** Create a class-map or policy-map with "" or " " or any other similar combination as the name.

**Workaround** There is no workaround.

CSCTa61523 Initial code commit for SWI 501 modem support.

CSCTa65909 Failed to get media source address for a stream in a DO call.

**Symptom** Failed to get media source address for a stream in a DO call.

**Conditions** Failed to get media source address for a stream in a DO call with rsvp.

**Workaround** There is no workaround.

CSCTa69407 DSP is not told to "turn off" digits with mgcp dtmf-relay nte-gw / nte-ca.

**Symptom** When using mgcp dtmf-relay type nte-gw, a sniffer trace will reveal that digits are sent both in-band (within the audio stream) and out-of-band (dtmf-relay). Because of this, double digits can be seen in Unity and MeetingPlace.

**Conditions** GW with PRI/CAS backhaul via MGCP to CUCM and mgcp dtmf-relay configured to use nte-gw.

**Workaround** Use mgcp dtmf-relay type out-of-band.

CSCTa79031 Pub key cache for peers is not cleared after cert map change.

**Symptom** If a certificate map is changed or added to the trustpoint, the pub key cache for the peers is not cleared. This makes it possible for a client which was connected in the past to reconnect again even if its certificate was banned by the certificate map.

**Workaround** Updated the 'Configuring Authorization and Revocation of Certificates in a PKI' module with notes to indicate that if a certificate map is changed or added to the trustpoint, the public key cache for the peers is not cleared. The link to the latest document is:

[http://www.cisco.com/en/US/docs/ios/sec\\_secure\\_connectivity/configuration/guide/sec\\_cfg\\_auth\\_rev\\_cert.html#wp1107650](http://www.cisco.com/en/US/docs/ios/sec_secure_connectivity/configuration/guide/sec_cfg_auth_rev_cert.html#wp1107650)

CSCTa81752 Keepalive does not get applied, debugs show as feature applied.

CSCTa84002 Path confirmation failure while making transcoding call.

CSCTa98556 Clientless WebVPN incorrectly redirected access to web portal.

**Symptom** Incorrect redirection is seen while using IOS WebVPN.

**Conditions** Only seen with IE8.

**Workaround** IE6 can be used as a workaround.

**Further Problem Description:** Customer has two server (A, B) protected behind the IOS WebVPN . Some pages on server A automatically does a silent login to server B and gets the information required to generate reports. When using IE8 this login information does not gets properly propagated to the backend server B which results in redirection request to the login page from server B.

CSCTb00695 Default shaper Bc and Be is 25ms on LE platforms.

CSCTb10100 Same bridge-group is accepted on main interface & and its lw-vlan.

CSCTb11302 Precedence Call waiting tone not generated when caller id is enabled.

CSCTb15175 8792 can only receive up to 4.5 Mbps instead of 7 Mbps.

CSCTb28877 Crashes when debug tftp packet is enabled.

**Symptom** Crash occurs on router configured as tftp-server when IPV6 addresses are used for tftp copy and tftp packet/event debugs have been enabled on the server router.

**Conditions**

- A router is configured as tftp server and IPV6 addresses are configured on both the server and client interfaces and the IPV6 addresses are used for the tftp copy.
- **debug tftp packets/events** is configured on the tftp server router.

Unconfigure **debug tftp packets/events**.

CSCTb34358 IP tunnel source interfaces are mixed up after reload.

**Symptom** Tunnel sources get mixed up when tunnel interfaces are configured with serial subinterfaces as sources and the router is reloaded.

**Conditions** The symptom occurs only after a reload or when a saved configuration is applied to the running configuration.

**Workaround** There is no workaround.

CSCTb39686 Caller ID check failed after Call Blast scenario.

**Symptom** Wrong Caller ID is displayed after Call Blast done.

**Conditions** Phone A does a call blast by calling pilot number xxxxx. All the phones start ringing till time out 60 seconds then call lands on the final phone B. Phone B answers the call and gets connected, then it checks for called number at Phone A. The final phone's number should be displayed. But the pilot number is displayed.

**Workaround** There is no workaround.

CSCTb40985 IP SLA memory leak with invalid source address.

**Symptom** The memory occupied by the IP SLAs Sync Pro may gradually increase.

**Conditions** The issue occurs when ICMP path jitter operation is configured on the router with invalid source address. Platform is sup720-3B with 12.2(33)SXII image.

**Workaround** Configure the SLA operation with the right source address.

CSCTb42748 No ringback on Incoming SIP to AA to SNR line with different codecs.

**Symptom** No ringback on Incoming SIP to AA to SNR line with different codecs.

**Conditions**

- The incoming call is from SIP trunk.
- The outgoing call to mobile has different codec than the incoming call leg.
- The mobile phone on the sip trunk needs to send back the 183 progress message while ringing.
- User is not able to hear the ringback tone after ringing the mobile phone.

**Workaround** There is no workaround.

CSCTb43226 12.4 IOS MGCP generates 510 remote description error.

**Symptom** Voice call is rejected, because gateway replies 510 error for MDCX message.

**Conditions** Interworking with 3rd party IAD device, which doesn't support NSE codec, will mess up SDP format.

**Workaround** Disable t38 and modem passthrough, so gateway doesn't generate NSE in SDP.

CSCTb44681 Fix static\_route single source diffs between eagle\_cnh and mcp\_dev.

CSCTb46181 Incorrect updation of Winscale options.

**Symptom** Application set window scale factor does not get used by the accepted connection, instead the scale factor set by the global command **ip tcp window XXXX** is used.

**Conditions** **ip tcp window XXXX** configured to a higher than 65535 value. Connection has window scale enabled on both sides.

**Workaround** There is no workaround.

CSCTb47950 I/O memory depleted after 20 minutes of CME SIP TRUNK calls.

**Conditions** The router runs into low-mem condition due to mem-fragmentation in certain voip-perf testing. It has a known work-around and is not a problem as such unless similar level of bursty traffic with the peculiar size of request is generated (as used in testing).

CSCTb48731 Port MEP remains inactive after interface is no shut from shut.

CSCTb48984 Adjust webvpn.html page and add support for iphone and ipod.

**Symptom** SSLVPN Login Page is not properly displayed on mobile devices. Also, there is no support for iPhone and iPod safari browsers.

**Conditions** The symptom is observed on an access page using Windows Mobile, or on an iPhone or iPod.

**Workaround** Page is displayed but quality is poor.

CSCTb49885 Caller ID check failed for Call Foward with supp.services disabled.

**Symptom** The called name is not displayed on the caller sccp phone when the call is forwarded to non-sccp endpoint (ie. sip trunk or sip phone ). The called number is displayed correctly.

**Workaround** There is no workaround.

CSCTb51993 NAS got crashed while establishing pppoe session @ tw\_timer\_stop.

**Symptom** A router crashes upon bringing up PPPoE sessions.

**Conditions** The symptom is observed when AAA proposes a pool name but the pool is not defined on the NAS as well as the radius.

**Workaround** Define the pool on the NAS or as a dynamic pool on the radius.

CSCTb56878 Memory Leak at dom\_data\_strdup.

**Symptom** When we load an FPM tcdf file on the router, a memory leak is seen. However, this is a one time operation and has minimal impact.

**Conditions** Whenever we load an FPM tcdf file, the XML parser parses the file which causes a memory leak. This happens in all the advanced images where FPM is used. This memory leak is not seen until we load a tcdf file. This issue is specific to the PI11 codebase.

**Workaround** There is no workaround.

CSCTb57404 SNR Module sets wrong leg mode for SIP-SIP Call.

**Symptom** When using the UCME Single Number Reach feature, it is not possible to hold/resume a call from the mobile device once the SNR ephone has entered auto-hold state.

**Conditions**

- Phone A calls SNR phone B
- SNR mobile phone C rings after timeout timer pops
- Answer the call from phone C
- SNR phone B will be in auto-hold after delay timer pops
- Press hold on phone C and it will not be possible to hold/resume the call

**Workaround** There is no workaround.

CSCTb59171 BGP IPv6 is not working with ipbasek9.

**Symptom** IPv6 BGP does not work with ipbasek9.

**Conditions** ipbasek9 is the only package enabled.

**Workaround** There is no workaround.

CSCTb60300 Router crash @ ipnat\_sbc\_add\_static\_cfg.

**Symptom** Router crashes when SBC proxy address is configured if the address is IPADDR\_ZERO.

**Conditions** Only for SBC proxy address configuration and only if either of the addresses is zero.

**Workaround** There is no workaround.

CSCTb66305 shared-dn ephone unregister affects another ephone BLF subscription.

**Symptom** cme on c3825-advipservicesk9-mz.124-24.T1.bin.

**Conditions** When one ephone runs UNREGISTER\_ABNORMAL, the other ephone with shared DN will stop sending BLF presence subscription. For example:

```
ephone 34 button 1:5 2:4
ephone 61 blf-speed-dial 1 ... button 1:5 2:4
```

When ephone 34 unregisters, ephone 61 stops sending presence subscription.

**Workaround** There is no workaround.



CSCTb67831 Typo error "numeric" found in the command forward-to-voicemail.

CSCTb70102 Wrong application is invoked by the SRST gateway for calling from stcapp phone.

**Symptom** When SRST and STCAPP are configured and running on the same router, SCCCP-controlled analog phones may be unable to make an outgoing call.

**Conditions** This symptom is observed when, upon WAN link failure, the phones register to an SRST gateway.

**Workaround** There is no workaround.

**Further Problem Description:** This symptom occurs due to STCAPP automatically adding a *station-id* parameter under the **voice-port** command in order to save DN information for registration to SRST.

CSCTb71835 Queue-limit configured in ms is not shown.

**Symptom** Queue-limit configured in ms is not displayed in **show policy-map int** output.

**Conditions** This happens in a scenario where queue-limit is configured in ms in class-default.

**Workaround** There is no workaround.

CSCTb71889 DNS query response is dropped on a NAT-PT router.

**Symptom** DNS A answers from IPv4 DNS server (which is supposed to be forwarded to IPv6 side as AAAA-answer) is dropped on NAT-PT routers.

**Conditions** This symptom is observed when DNS NAT-ALG is enabled.

**Workaround** There is no workaround.

CSCTb73115 Memory chunk leaked at NAT String Chu while configuring ip nat pool.

**Symptom** Chunk memory leaked while configuring the ip nat pool.

**Conditions** While configuring the pool with subnet mask smaller than required length for the start and end ip address.

**Workaround** There is no workaround.

CSCTb73219 Unable to clear the arp sub-interface entry.

CSCTb73967 Router crashed while doing udp-echo operation in ip sla.

**Symptom** Using the command **default dest-ipaddr** for udp-echo, udp-jitter, and tcp-connect causes a device to crash.

**Conditions** The symptom is observed with the command **default dest-ipaddr**.

**Workaround** Do not use the command **default dest-ipaddr**. This sets the address to 0.0.0.0, which is not valid.

CSCTb74251 On hook dialing did not work on 7911 SCCP phone.

**Symptom**

- Shutdown cucm service.SCCP Phone 7911 registered with SRST
- Keep the phone on hook
- Press "New Call" softkey, nothing happens.

CSCTb88409 Router crashes when configuring object id under config-event-objlist.

**Symptom** A Cisco router may crash when configuring the object id in config-event-objlist subconfiguration mode.

**Conditions** This symptom is observed when entering the **cns config notify** command.

**Workaround** There is no workaround.

CSCTc14760 Router reloads during stress test.

CSCTc16399 NIOS watchdog timeout after power cycle MC5727 modem.

**Symptom** NIOS watchdog timer times out.

**Conditions** This symptom is observed when an MC5727 modem is power-cycled.

**Workaround** Reload the router.

CSCTc30869 L2 STP MIB and VlanMem MIB support for 1861 platform.

CSCTc52622 shdsl and cellular may overwrite cdb queue entries on fxd.

CSCTc52748 queueing-dn cannot be configured as a member of ephone hunt group

CSCTc53062 blf is not blocked if DND is set using CSTA message setDND.

**Symptom** Application sends CSTA setDND message to CME, CME does not update/block the blf monitor sessions.

**Conditions** Happens when the DND is set from CSTA message.

**Workaround** Once the phone state changes, it will reflect the real state to the blf sessions.

CSCTc75277 Call Transfer + Call Forward Scenario not working.

**Symptom** The CME does not process the incoming sip 302 message.

**Conditions** Call forward scenario where incoming sip 302 message is received.

**Workaround** Configure : voice service voip no notify redirect ip2ip.

CSCTc78721 Support Bridge-MIB and VLAN-Membership-MIB for 880&890 platforms.

CSCTc86342 IOS GW shows invalid syntax error for INVITE with multiple VIA headers.

**Symptom** Inbound SIP calls on IOS SIP GW / CME fails with 500 Internal Server Error.

**Conditions** Inbound SIP INVITE has multiple VIA headers. Voice source group is configured on IOS SIP GW/CME with access-list. The IOS version is 15.0(1)XA or 12.4(24)SB.

**Workaround** Use earlier IOS such as 12.4(20)T2. Remove voice source-group configuration

CSCTd07228 CME ephone call flows broken with Abacus SCCP version 4.

CSCTd11131 Fix compilation errors for the unix simulator in t\_base\_1.

CSCTd21596 Forbidden Header 'Call-Info' found in ACK.

**Symptom** The ACK to 200 OK packet sent by the CME (configured with firewall) contains 'Call-Info' Header, which is a forbidden header field when 15.1(0.2)PI12e is loaded on the CME.

**Conditions** Happens when the CME is loaded with 15.1(0.2)PI12e.

**Workaround** Call will flow through. Only if firewall is enabled, the ACK packets with Call-Info header will be dropped.

CSCTd23424 Add specific vendorCon to support trunk dn monitor and m button.

**Symptom** User can not press the button configured as trunk-dn monitor to pick up the parked call. Or user cannot press the button configured as M button to speed-dial.

**Conditions** Pressing the monitor button, no OP.

**Workaround** There is no workaround.

CSCTd26113 Unable to configure **call-forward system redirecting-expanded**.

**Symptom** Not able to configure **call-forward system redirecting-expanded**.

**Conditions** Not able to configure **call-forward system redirecting-expanded** on a 2800 router.

**Workaround** There is no workaround.

CSCTd26844 Cisco 500 phone registration fails when ephone tag is 56 or greater.

**Symptom** After a license upgrade from 48 to 64 user license on a UC520, the Cisco 500 series phone registration fails with the following errors in debug ephone register output:

```
Error: Device Id 80000 Configured Device Id -1 StationSPCPRegisterTokenReject sent on socket 4
```

**Conditions** Problem is seen when registering any 500 series phone to a CME on UC520 platforms. The problem only occurs when the ephone tag value for this phone registration is 56 or higher.

**Workaround** Use an ephone tag that is of lower numerical value. Ephone 55 or lower will work.

CSCTd42552 When CME fails to respond to "newcall", STCAPP hangs.

**Symptom** When shared line has 2 calls, and these 2 calls disconnect at the same time, the port might hang.

**Workaround** There is no workaround.

CSCtd47693 Add support for SPCPPlatformInfoGet msg handling (requested by UCC).

CSCtd53835 UC500 crashed after configuring SPA525 with SPA500S.

CSCtd66592 860 build fails with undefined ref. to 'l2\_bmib\_add\_vlan\_entity\_entry'.

**Symptom** Build failure is happening for 860 platform images.

CSCtd78882 Stuck port possible with trunk group with max-retry and unplugged port.

**Symptom** FXO ports can get stuck in offhook state.

**Conditions** FXO ports are members of a huntgroup where the first member port is disconnected or down. The trunkgroup has **max-retry** configured and rapid calls are connected and disconnected using the trunkgroup.

Unconfigure **max-retry**. Under each port, configure "timeouts power-denial 0" so that disconnected ports are moved to offhook state and will not be hunted.

## Open Caveats - Release 15.0(1)XA

There are no open caveats in this release.

## Resolved Caveats - Release 15.0(1)XA

CSCsj16203 CPU profiling may not be reliable in c800 during nested interrupt.

**Symptom** CPU profiling under interrupts is not reliable.

**Conditions** Symptom is present on all PowerQUICC platforms (Cisco 800, 1700, and 2600 Series Routers).

**Workaround** There is no workaround.

CSCso05336 Crash due to corrupted magic value in in-use chunk when accessing irc.

**Symptom** A Cisco 1811 router reloads when trying to connect to irc.freenode.net during the first 36 hours following a reload.

**Conditions** The symptom is observed only in the first 36 hours following a reload.

**Workaround** Do not connect to irc.freenode.net in the first 36 hours following a reload.

CSCsr09625 missing voice dsp crash-dump.

**Symptom** The **voice dsp crash-dump** CLI is missing on all platforms except AS5400.

**Conditions** This happens when the CLI's parser chain was moved, hence missing them on the platforms. Need to ensure the parser chain is implemented as platform independent.

**Workaround** There is no workaround.

CSCsr81161 sip consult xfer results in 1-way audio with supp service refer disabled.

**Symptom** Consult transfer with third party sip endpoints results in one way audio when the third party endpoint has delayed response to resume request which includes change in rtp stream parameters (i.e. port number).

**Conditions** sip supplementary services refer is disabled.

**Workaround** There is no workaround.

CSCsv01339 Unable to ping some devices on subnet.

CSCsv20058 Duplicate H245-alphanumeric at digit\_end on rfc2833 to h245-alpha.

**Symptom** Upon digit\_end on the RFC-2833 side, the IPIP GW misinterprets this and sends out h245-alphanumeric, which is duplicate. Typically, the IPIP GW should ignore all the tone packets after the digit\_begin is detected until the digit\_end.

**Conditions** RTP-NTE to H245-Alphanumeric conversion is triggering this event.

**Workaround** There is no workaround.

CSCsw49855 Ping stops working during speed/duplex testing.

**Symptom** IP connectivity fails for the interface following extended pings from FastEthernet interface. The **show interface** command will indicate that the output queue is wedged:

```
Output queue: 40/40 (size/max)
```

No more packets are switched out of the interface until the interface is cleared with the **clear interface fast<#>** command.

**Conditions** This is seen on a Cisco 881 running IOS versions 12.4(20)T1 and T2. No indication at this time that this is specific to these images. The problem is observed when the FastEthernet interface in question is set to 10/half or 100/half.

**Workaround** Once the problem has occurred, clear the interface with the command **clear interface fast<#>**. This problem has not yet been seen on an interface in full duplex mode.

CSCsx20984 Router reloads with bus error and no stack trace.

**Symptom** Router reloads with a bus error and no tracebacks.

**Workaround** There is no workaround.

CSCsx30643 TDM ERL always reports +6.0 dB for VWIC2 T1/E1 voice-ports using HWEKAN.

**Symptom** When querying for low-level DSP statistics for an active voice call the TDM ERL level reported is always identically +6.0 dB and never fluctuates:

**Conditions** This behavior is observed on Cisco IOS Voice GateWays installed with digital voice-ports configured on the VWIC2-1MFT-T1/E1 or VWIC2-2MFT-T1/E1 cards, and enabled with the EC-MFT-32 or EC-MFT-64 HardWare Echo CANCEllation (HWEKAN) daughter cards. The installed IOS version is any 12.4 or 12.4T release which supports the VWIC2 and EC-MFT hardware.

**Workaround** There is no known workaround available. If real-time visibility into the measured TDM ERL is desired, it is necessary to configure the digital voice-ports to use the SoftWare ECAN (SWEKAN) by setting **echo-cancel enable type software**. A **shutdown/no shutdown** of the voice-ports is recommended to ensure the new setting takes effect.

CSCsx49309 FTP pauses 80 seconds in response to **copy /verify ftp: flash: op** prompt.

**Symptom** When using the **copy ftp://** command to update IOS software issued on a router, it is seen that it takes approximately 80 seconds before the file transfer begins.

**Conditions** This is seen on a 2800 or 3800 series router, but is not seen on routers in other series, such as 2600 or 7200.

**Workaround** Use a different protocol to transfer the file, such as TFTP, RCP, or HTTP.

CSCsx67255 ISDN call failure with cause 47 after DSP allocation failure on channel.

**Symptom** An outgoing call from an IP phone to PSTN through ISDN PRI fails on a channel due to a DSP allocation failure (not enough DSPs to support the call). Subsequent calls through that same channel continue to fail with "resource unavailable" cause value equal to 47 even after DSP resources have been made available to handle the call.

**Conditions** The symptom occurs on a router running Cisco IOS Release 12.4(15)T8 or higher. The call must first fail with a legitimate DSP allocation error. Any call made through the same channel as the failed call will also fail.

DSP allocation failures on gateway can be checked through the use of the exec command **show voice dsp group all**. The last line of the show command output includes a counter for "DSP resource allocation failure".

This issue can also be seen in some cases upon bootup. When a gateway is reloaded, system resources will come up with a slightly different timing. If, for example, a PRI interface comes up before the DSP resources have fully initialized, there may be a similar failure.

**Workaround** The workarounds are as follows:

- Reload the router to clear the channel. If a reload cannot be done, busy out the channel with the failed calls using the **isdn busy b\_channel** command under the serial interface.
- If the issue is due to oversubscription of the DSP resources, change the configuration to meet the DSP resources available on the gateway. Further information can be found with the DSP Calculator at [http://www.cisco.com/cgi-bin/Support/DSP/cisco\\_prodsel.pl](http://www.cisco.com/cgi-bin/Support/DSP/cisco_prodsel.pl).
- If the issue is related to timing issues upon reload, shutdown the voice-port in question before reloading the gateway. When the gateway comes back up, take the voice-port out of shutdown.

CSCsx75353 High CPU Utilization seen on 2821 after upgrade to 12.4(15)T5.

**Symptom** High CPU usage is observed on a Cisco 2821 router. An increase of almost 10 percent in CPU utilization is observed with every voice call.

**Conditions** This symptom is observed when an AIM compression card is present on the motherboard (specifically AIM-COMPR2-V2).

**Workaround** Remove the AIM compression card from the motherboard.



CSCsy05003 Oneway audio with MTP on cube and **progress\_ind alert enable 8** configured.

**Symptom** CUCM --[h323]-- CUBE --[SIP]-- SIP provider

Outbound calls to the SIP provider have one-way audio. The internal IP phone can hear the remote party, but the remote party cannot hear the internal IP phone.

**Conditions** Fast start and MTP required is configured for the H323 gateway in CUCM -IOS hardware or software MTP is used on CUBE, **progress\_ind alert enable 8** is configured on the outgoing SIP dial-peer on CUBE.

**Workaround** Remove **progress\_ind alert enable 8** on the outgoing SIP dial-peer. Use CUCM SW MTP or any MTP that is not co-located on CUBE

CSCsy18996 TNP phones displaying "Acct" instead of "Transfer recall" in 12.4(24)T.

**Symptom** After a transfer recall, phones registered to CME will display "Acct" instead of "Transfer recall".

**Conditions** TNP phones with firmware 8.4.2 or 8.4.3.

**Workaround** There is no workaround.

CSCsy20149 Voice-port goes to transient unregister under SRST mode.

**Symptom** STCAPP voice-port becomes transiently unregistered for approximately one minute in SRST mode.

**Conditions** Some STCAPP voice-port is pending to switchover to SRST while active, and then when that port goes on hook and starts to switchover to SRST, the timing triggers the transiently unregistered issue on a certain port.

**Workaround** Wait for about a minute, and the port will automatically recover back to registered.

CSCsy24266 SIP overrides diversion header from APP RDN number from OR to LRD.

**Symptom** A call from a night hunt forwarded to BACD dial by an extension to an ephone (call forwarding no answer) to voicemail goes to the night hunt number and not the last redirected number.

**Conditions** The symptom is observed with Cisco IOS Release 12.4(22)T.

**Workaround** There is no workaround.

CSCsy31552 ADSL WIC/ATM interface stops forwarding traffic & reports output drops.

**Symptom** A Cisco 1841 router equipped with xDSL WIC will suddenly stop forwarding packets. The packets will appear as output drops on the ATM interface statistics. Under the PVC level, there are no drops. The DSL line is not flapping but the ATM interface(s) report output drops.

**Conditions** The symptom is observed when using a Cisco 1800 and 2800 series router equipped with the same ADSL-WIC module. The ATM interface(s) need to be bridge-group configured. The bridge-group is in forwarding mode.

**Workaround** Reload the router.

CSCsy32246 Call waiting tone not heard when caller-id is enabled for sip dsapp fxs.

**Symptom** The call-waiting tone will not be generated and the caller ID will not be displayed for the second call to a phone connected to a FXS port.

**Conditions** SIP Server -[sip]- Gateway (fxs) -- Analog phone

This is seen to occur when the Device Service Application (DSAPP) is enabled on the gateway to provide supplementary features for the phone connected to the FXS port using SIP. Configuring either **caller-id enable** or **caller-id enable type 2** on the FXS voice port will trigger this issue.

**Workaround** Configuring **caller-id enable type 1** under the voice port will provide call-waiting tone. However, caller-id will not be provided for the second call.

CSCsy37164 WINKUP minimum timer fails to expire on c3800 platforms on outbound calls.

**Symptom** A c3800 platform may intermittently fail to expire the CAS WINKUP minimum timer. This timer dictates how long a T1 CAS, wink-start endpoint must remain offhook before completing a wink. Failure to expire the timer will cause the c3800 to incorrectly classify a valid wink as invalid, failing outbound calls.

**Conditions** This can happen when there is a brief period of increased CPU usage while a call is in the process of connecting. In other words, a small spike in CPU usage can cause the time to fail to expire, thereby causing a wink failure.

**Workaround** Disable any periodic processes which may cause momentary spikes in CPU usage, such as SNMP polling, EEM scripts, or other automated processes. This may or may not help depending on the cause of the CPU spikes.

CSCsy61980 Problem with call list on CME.

**Symptom** Phone A (xxx) calls Phone B (yyy), Phone C (zzz) picks up the call through call pickup. A two way conversation is then established between Phone A (xxx) and Phone C (zzz). Then the call is disconnected.

When Phone A is checked, in Placed Calls, there is "Phone C yyy" instead of "Phone B yyy".

**Conditions** It happens with IP phones 7942/61/62 and latest version of firmwares 8.4.1-8.4.3. With 8.3.4 version of firmware, there is no issue. Also, there is no issue with latest version of firmware if the phones are registered to CME instead of Cisco Unified CM.

**Workaround** There is no workaround.

CSCsy88059 Second call gets dropped when the first call is put on hold.

**Symptom** Calls drop when answering the second call on Octo lines with the 'Hold' softkey.

**Conditions** If the calls come in a PRI or FXO interface, and a user on an active call on the octoline puts the call on hold while there is an incoming call, it will automatically answer the incoming call. Approximately 13 seconds later the second call is dropped.

**Workaround** When the second call comes in, use the 'Answer' softkey instead of putting the first call on hold. If the user requires to put a call on hold while a new call is coming in, they must wait until the incoming call stops ringing.

CSCsz00326 Memory fragmentation on VXML gateway.

**Symptom** Memory fragmentation, no call accepted, no output for **show run**.

**Workaround** Reload the router.

CSCsz03260 Unexpected callflow may cause exception on IOS H320 Gateway.

**Symptom** A gateway may take an exception when receiving an inbound H320 call when the call is placed via ISDN overlap sending.

**Conditions** The symptom is observed with Cisco IOS Release 12.4(22)T1.

**Workaround** There is no workaround.

CSCsz14947 12.4(20)T2 doesn't process SIP "REPLACES" header properly.

**Symptom** 12.4(20)T2 ignores SIP "REPLACES" header in mid-call INVITE from proxy and processes/routes call as if it were a new INVITE.

**Conditions** Call Resume performed on SIP side, proxy sends mid-call INVITE with REPLACES header to ISR running 12.4(20)T2.

**Workaround** There is no workaround.

CSCsz17030 Failure on 12.4(22)T, video port negotiated as port 0.

**Symptom** A video call for a 3G H.324 call fails to properly negotiate media.

**Conditions** In debug ccsip all debugs, this message can be seen:

```
/SIP/Info/sipSPIUpdateSrcSdpVariablePartVideo: Unsupported Video m-line: Setting stream  
2 portnum to zero
```

Also, in the media sent to the endpoint, the video port is set to 0 as the debug state.

**Workaround** There is no workaround.

CSCsz23481 **dsp allocation signaling dspid** command not available on 2801.

**Symptom** The **dsp allocation signaling dspid** command under voice-card on 2801 platform is not available.

**Conditions** This issue is on 2801 platform alone.

**Workaround** There is no workaround.

CSCsz23528 IO MEM autosizing must take Dovetail increased IOMEM usage into account.

**Symptom** After upgrading to 12.4(24)T images or newer, the amount of free IO MEM reported by **show memory** command output is much lower (4MB less) than with previous versions. The amount of IO MEM allocated upon boot up of the router has not changed with respect to previous versions.

This change in memory consumption is expected due to the integration of new features.

**Conditions** This defect is seen on 12.4(24)T on ISR platforms (28xx, 38xx series).

**Workaround** The amount of IO MEM can be increased manually by performing the following in configuration mode:

```
router(config)# memory-size io <5-50> percentage of DRAM to use for I/O memory: 5,
10, 15, 20, 25, 30, 40, 50
```

For most configurations, 5% should be enough.

CSCsz27002 OnHookMessage is not handled with the specified line and ref.

**Symptom** Call is terminated after aborting the transfer attempt.

**Conditions** This problem is observed if **transfer-digit-collect** is not configured or configured as **new**, the default.

**Workaround** Configure **transfer-digit-collect orig**.

CSCsz30353 Interrupt error occurred when IPSEC connection is up.

**Symptom** %GT64010-3-DMA: Interrupt error observed when IPSEC connection is up on DMVPN spoke.

**Conditions** c2431 platform with HW crypto engine.

**Workaround** There is no workaround.

CSCsz34920 NME-502 causing router to reboot.

**Symptom** Router continuously reboots.

**Conditions** This symptom is observed when an NME-502 is installed on the router.

**Workaround** Replace or remove the NME-502.

CSCsz35376 NM-2W VWIC2 reports multiple master clocks driving NM-2W PLL.

**Symptom** The command **show controllers t1** on a 3845/2xNM-2W/4 x VWIC2-2MFT-T1/E1 combo may report clock sources driving the NM-2W's PLL are different from the clock sources being reported from the NM-2W FPGA LCS register.

**Conditions** Observed on 3845/2xNM-2W/4 x VWIC2-2MFT-T1/E1 combo running 124-19b, 124-24.6b, and 124-24.6.T with NM-2W populated with 2 x VWIC2-2MFT-T1/E1 with all 4 DS1s defaulting to **clock source line** and the NM-2W not participating in the system backplane clock.

**Workaround** Configure **clock source line independent** on all 4 DS1s.

CSCsz45855 Cisco Unified Border Element not responding to reINVITES received while call transfer is in progress.

**Symptom** Cisco Unified Border Element ignores reINVITEs from Cisco Customer Voice Portal (CVP).

**Conditions** While call transfer is in progress and Cisco Unified Border Element is waiting for NOTIFY (with 200 or any final response code), after receiving NOTIFY (with 100), it receives INVITE.

**Workaround** There is no workaround.

CSCsz45898 SIP Cisco Unified Border Element does not forward 200ok for session refresh.

**Symptom** SIP Provider -[sip]- CUBE -[sip]- CUCM

Cisco Unified Border Element does not respond to the second reINVITE to refresh the session causing the session refresher to timeout and drop the call.

**Conditions** Media flow around configured on CUBE, CUBE running any IOS beginning with 12.4(22)T - INVITE method to refresh the session.

**Workaround** Configure media flow through on CUBE. If that's not an option, downgrade to any IOS before 12.4(22)T when media flow around is configured. E.g. 12.4(20)T, 12.4(15)T, etc.

CSCsz51722 SIP profile rules are not getting applied on OOD OPTIONS message.

**Symptom** SIP profile rules are not getting applied on OOD OPTIONS message irrespective of SIP profile being applied globally or at dial-peer level.

**Conditions** This issue is seen on CUBE.

**Workaround** There is no workaround.

CSCsz52576 vlan.dat file lost after second power cycle - VTP Domain Name disappears.

**Symptom** The vlan.dat file gets deleted after the second reload of the router, and the VLAN definition and names are lost (not the interfaces and IP addresses). It has been observed that when the vlan.dat is lost, in **sh vtp status**, the VTP Domain Name is blank (and was properly configured before).

**Conditions** This behavior is observed in a Cisco 3270 router that is running Cisco IOS Release 12.4(24)T. It is also observed with Cisco 1800 ISR with switch modules in Cisco IOS Release 12.4(22)T.

**Workaround** There is no workaround. Customer needs to reconfigure them again after reboot. This problem is not observed in Cisco IOS Release 12.4(15)T.

**Further Problem Description:** When a customer is running an image that does not store the VTP and VLAN information in the start-up configuration or the normal output of show running-config, the vlan.dat file gets overridden to the default vlan.dat approximately 2 minutes after reboot. The current VLANs and VTP information remains operational until the router is rebooted.

A reboot causes the VLANs and VTP information to disappear because the start-up configuration does not contain any VLAN or VTP information, nor does the vlan.dat file in flash.

The operating VTP information appears in the output of show running-config all (which shows non-default and default values), indicating that the router considers the VTP information to be at default values even when there is a VTP domain name configured. This allows the VLANs and VTP to remain operational until the router is rebooted.

CSCsz54468 Crashinfo caused by MRCP CLI command, the version is MRCPv2.

**Symptom** Crashinfo on VXML Gateway.

**Conditions** Running **show mrcp client session active detail** or **show mrcp client session active** and using MRCP v2.

**Workaround** Do not run these commands.

CSCsz55969 HWIC-1DSU-T1 module does not show the 15 min performance statistics.

**Symptom** HWIC-1DSU-T1 does not show the 15 min performance statistics.

**Conditions** The problem is specific to HWIC-1DSU-T1. WIC-1DSU-T1-V2 on the same box is not affected

**Workaround** There is no workaround.

CSCsz65335 RTSP not releasing socket when socket connect attempt fails.

**Symptom** VXML gateway is unable to open an RTSP connection to media server after media server is taken down and then brought back up.

**Conditions** The problem is observed when the media server is no longer reachable from the VXML gateway. When this occurs the VXML gateway attempts to open an RTSP socket connection to the media server. The socket connection attempt is not successful but the VXML gateway does not release the socket. With each connection attempt the socket is incremented until the max of 2047 is reached. Once the max is reached, the VXML gateway will no longer attempt to open a socket to the media server until a reload occurs.

**Workaround** Reload the VXML gateway.

CSCsz72535 Memory leak during IZCT testing - mem leak in gk\_circuit\_info\_do\_in\_acf().

**Symptom** While conducting a stress test with 13500 endpoint and calls between 1000 to 2000 during 17 hours, the test memory utilization was growing to 24%. After the test, the memory fallback is 20%, it does not revert to 4%.

**Workaround** There is no workaround.

CSCsz74629 Delay in propagation of interface link down state.

**Symptom** There is a delay in the propagation of interface link down state. Link failure is detected with a huge delay once the other end of the link gets disconnected.

**Conditions** This symptom is observed on a Cisco 1861 router that is running Cisco IOS Release 12.4(24)T.

**Workaround** The default keepalive period is 10 seconds and the periodic function which updates the link state change runs on the order of keepalive time, hence it takes long time to detect the link down state. If keepalive is set to 1 or 2 seconds, the time taken to detect link down is normal.



CSCsz84392 UC500 does not report FRU information for certain VIC modules.

**Symptom** When certain VIC modules are installed in a UC500, the UC500 will not correctly report the Product (FRU) Number in the **show diag** output. If the UC500 is being managed using the command line, this problem is cosmetic in nature, but if it is being managed by CCA, then the VIC module will not be detected.

**Conditions** So far, the problem has been observed with older VIC2-2BRI-NT/TE modules, with newer versions being apparently unaffected. However, it is possible the problem may be present on other VIC modules as well. All versions of UC500 software are affected.

**Workaround** The problem may be able to be worked around in some cases by replacing the VIC module with a more recently manufactured unit.

CSCsz88671 Onhook GPickup \* doesn't work.

**Symptom** If GPickup and '\*' is pressed when the phone is on hook, the GPickup won't pickup the ringing call from the pickup-group to which the seized DN belongs. The seized DN depends on how the auto-line is configured on the phone.

**Conditions** This problem only occurs if the onhook phone sends the StationKeypadButtonMessage for the '\*'.

**Workaround** Go offhook before pressing GPickup and enter '\*' or enter "\*#\*" to work around the problem.

CSCsz92704 Voice GWs not supporting DSPfarm services should provide warning message.

**Symptom** IOS Voice GateWay (VGW) platform families like the IAD2430, VG224, VG202, and VG204 are fixed form-factor VGWs which have C5510 DSPs soldered onto the mainboard. As such they are not expandable to install extra DSP resources and are meant primarily as TDM-IP devices. Nonetheless in most IOS releases it is possible to configure **dsp services dspfarm** under the **voice-card 0** CLI in the running-config as well as to set **dspfarm profile N <conferenceltranscode>** even though transcoding and conferencing services are not supported on these platforms. There aren't enough DSPs available to make these DSP services viable in addition to accommodating regular TDM-IP VoIP calls. Attempts at sustaining a conference or transcoding call fail, users get confused and open up TAC Service Requests.

**Conditions** This behavior is observed on fixed form-factor IOS Voice GateWay platform families like the Cisco IAD2430, VG224, VG202, and VG204, installed with any release of IOS.

**Workaround** Not applicable. DSP transcoding and conferencing features are not supported on the aforementioned VGW platforms.

CSCsz96106 Unable to configure ds1 option on snmp-server host - Ambiguous command.

**Symptom** Unable to configure ds1 option on snmp-server host command, ambiguous command error.

**Example:**

```
Router(config)#snmp-server host 10.10.10.10 tests ds1 % Ambiguous command: "snmp-server
host 10.10.10.10 tests ds1"
```

**Conditions** 1841 router running 12.4(24)T but probably affects all other platforms and previous versions.

**Workaround** There is no workaround.

CSCta02224 Calls on FXO port disconnect after hold and resumed via line button.

**Symptom** A call is placed on hold from an IP phone. If the user resumes the call by lifting the handset, and then pressing the line button, the call will disconnect within 60 seconds. The precise time that it takes for the call to disconnect may vary (5-60 seconds).

Call comes in via FXO port, -User answers by lifting handset -User press 'hold' button and places handset onhook -User lifts handset, then press the line button -Call drops after a few seconds.

**Conditions** CME versions 7 and 7.1 IOS version 12.4(20)T and 12.4(24.6)T9 7960 phone load 8.0(5.0).

**Workaround** If the call is resumed by pressing the line button or resumed before lifting the handset, the call will not disconnect.

CSCta07241 1841 and 2801 do not print memory dumps to crashinfo.

**Symptom** Crashinfo context is missing useful troubleshooting information.

**Conditions** This is seen in any memory corruption crashinfos for the 1841 and 2801.

**Workaround** There is no workaround.

CSCta07484 Crash on a router due to array index out of boundary.

**Symptom** A crash may occur on a CME when doing a web query on an ephone.

**Conditions** The symptom is observed when doing a web query on an ephone and maximum SIP phones are not configured on the CME under **voice register global**.

**Workaround** Configure maximum supported SIP phones under **voice register global**.

CSCTa11416 H320 one-way video when H.239 enabled on endpoint.

**Symptom** Video endpoint -[h323]- H320 GW -[ISDN]- Video Endpoint

A call through a H.320 gateway results in two-way audio and one-way video.

**Conditions** This is seen when the H.239 capability is enabled on the Video endpoint.

**Workaround** Disable H.239 capability.

CSCTa14536 Router crash pointing to SYS-6-STACKLOW on IPIPGW.

**Symptom** A Cisco IOS VoIP gateway configured for IPIPGW (CUBE) functionality may crash.

**Conditions** A gateway configured for IPIPGW functionality with the command **allow-connections** under **voice service voip** under rare conditions will crash while processing VoIP calls.

This has been found to occur in some scenarios where a single voip call loops (meaning the call is from the IPIPGW back to the same IPIPGW) through the IPIPGW.

When this occurs, the following error message may be noticed:

```
%SYS-6-STACKLOW: Stack for process IP Input running low, 0/12000
```

**Workaround** The workaround is to track down the source of the call looping and correct the problem there.

The other possible workaround is to introduce another termination point in the RTP packet flow beside the IPIPGW. For example, if interworking with Cisco Unified Communications Manager (Callmanager) a MTP resource may be used to prevent this loop as long as the MTP resource is not the CUBE gateway.

CSCTa16495 IOS should warn if no DSP resources exist for voice-port at bootup.

**Symptom** When the router boots up, voice ports that require DSPs like FXO and FXS cards do not show up in the running configuration. The card shows up in **show diag**, **show inventory**, and **show version** but the "voice-port 0/0/0" does not show up in the configuration.

**Conditions** This happens when there are no available DSPs for the voice ports to use on bootup. The system should print a command similar to: **%VOICE-PORT-INIT: Voice-port 0/0/0 was not initialized due to a lack of DSP resources.**

This indicates that analog voice ports did not have enough DSPs to initialize. **show voice dsp group all** should be used to validate there are enough DSPs. The DSP calculator ([http://www.cisco.com/cgi-bin/Support/DSP/cisco\\_prodsel.pl](http://www.cisco.com/cgi-bin/Support/DSP/cisco_prodsel.pl)) should be used to ensure the router has sufficient PVDM modules.

**Workaround** This bug addresses adding the bootup command: **%VOICE-PORT-INIT: Voice-port 0/0/0 was not initialized due to a lack of DSP resources.**

CSCTa24037 CME crashed for BACD incoming call while transferring to MOC over SIP trunk.

**Symptom** A Cisco router may reload due to a bus error and show the following messages:

```
%ALIGN-1-FATAL: Illegal access to a low address 10:09:03 PDT Tue Sep 1 2009
addr=0x0, pc=0x4159DB10z , ra=0xFFFFB4DFz , sp=0x4F059900
```

```
%ALIGN-1-FATAL: Illegal access to a low address 10:09:03 PDT Tue Sep 1 2009
addr=0x0, pc=0x4159DB10z , ra=0xFFFFB4DFz , sp=0x4F059900
```

```
TLB (store) exception, CPU signal 10, PC = 0x415A2630
```

**Conditions** The symptom is observed on a Cisco 2851 router that is running Cisco IOS Release 12.4(24)T1.

**Workaround** There is no workaround.

CSCTa31622 IOS crashes on CPU hog when mini-logger is enabled.

**Symptom** Gateway automatically reloads when minilogger is enabled and DSP crash occurs.

**Workaround** There is no workaround.

CSCTa34276 Should allow fixed-no-timestamps mode for clear channel in voip.

**Symptom** While the CLI is configured for H.323 fixed playout mode without timestamps, the DSP is configured for fixed playout mode with timestamps.

**Conditions** T1/E1 --- 3845 ---ip--- 3845 --- T1/E1 CLI: playout-delay mode fixed no-timestamps

**Workaround** There is no workaround.

CSCta40055 Placed calls directory on CUCME shows local user name if overlapping extensions exist.

**Symptom** When using overlapping dial-plans between 2 CUCME sites, the "Placed Calls" directory of the originating phone will display the correct called number, but the incorrect called name. CUCME correlates the called number with the local username, even though a unique prefix was prepended, and dialed, to the main extension.

**Workaround** There is no workaround.

CSCta40916 TOH played for incoming H323 call before media negotiation occurs.

**Symptom** CME: IP phone when answered hears hold tone before getting proper media from the far end. Sometimes the call stays up; other times it drops with cause temp failure.

**Conditions** CME receiving/sending H323 slow start call over IP.

**Workaround** Use H.323 fast start.

**Further Problem Description:** Issue appears to be more visible in cause of slow WAN links (ex: Satellite links)

CSCta54469 During consult transfer, if call on hold disconnects the second leg drops.

**Symptom** During consult transfer, if call on hold disconnects before user can dial the consult leg, the consult leg will drop. The disconnect times vary from 60-90 seconds

**Conditions** Phone A calls Phone B. Phone B hits the transfer button to do a consult transfer which places Phone A on hold. Phone A hangs up before Phone B can dial. Phone B dials Phone C. Call from phone B to Phone C is dropped after about 1 minute.

Debugs show the CME forcing the DN back into an onhook state.

**Workaround** Configuring transfer-digit-collect orig-call will abort the transfer attempt when the first leg disconnects.

CSCta63555 CME crashes after submitting SNR number change menu from EM phone.

**Symptom** A router crashes if running with Cisco IOS Release 12.4(24)T or later.

**Conditions** The symptom is observed if the SNR number change menu is selected from an extension mobility phone. The router crashes after submitting the change.

**Workaround** Configure an SNR under the user-profile or logout-profile with which the extension mobility phone is provisioned.

CSCTa69407 DSP isn't told to "turn off" digits with mgcp dtmf-relay nte-gw / nte-ca.

**Symptom** When using mgcp dtmf-relay type nte-gw, a sniffer trace will reveal that digits are sent both in-band (within the audio stream) and out-of-band (dtmf-relay). Because of this, double digits can be seen in Unity and MeetingPlace.

**Conditions** GW with PRI/CAS backhaul via MGCP to CUCM and mgcp dtmf-relay configured to use nte-gw.

**Workaround** Use mgcp dtmf-relay type out-of-band.

CSCTa98556 Clientless webvpn incorrectly redirected access to web portal.

**Symptom** Incorrect redirection is seen while using IOS WebVPN.

**Conditions** Only seen with IE8.

**Workaround** IE6 can be used as a workaround

**Further Problem Description:** Customer has two servers (A,B) protected behind the IOS WebVPN. Some pages on server A automatically does a silent login to server B and gets the information required to generate reports. When using IE8 this login information does not get properly propagated to the backend server B which results in redirection request to the login page from server B.

CSCTb42748 No Ringback on Incoming SIP to AA to SNR line with different codecs.

**Symptom** No Ringback on Incoming SIP to AA to SNR line with different codecs.

**Conditions**

- The incoming call is from SIP trunk.
- The outgoing call to mobile has different codec than the incoming call leg.
- The mobile phone on the sip trunk needs to send back the 183 progress message while ringing.
- User is not able to hear the ringback tone after ringing the mobile phone.

**Workaround** There is no workaround.

CSctb43226 12.4 IOS MGCP generates 510 remote description error.

**Symptom** Voice call is rejected, because gateway replies 510 error for MDCX message.

**Conditions** Interworking with third party IAD device, which doesn't support NSE codec, will mess up SDP format.

**Workaround** Disable t38 and modem passthrough so gateway doesn't generate NSE in SDP.

CSctb66305 Shared-dn ephone unregister affects another ephone BLF subscription.

**Symptom** cme on c3825-advipservicesk9-mz.124-24.T1.bin

one ephone UNREGISTER\_ABNORMAL, the other ephone with shared DN will stop sending BLF presence subscription.

Example:

```
ephone 34 button 1:5 2:4
ephone 61 blf-speed-dial 1 ... button 1:5 2:4
```

when ephone 34 unregisters, ephone 61 stops sending presence subscription.

## Additional References

Use this release note with the documents and websites in this release note and the documents listed in the following sections:

- [Release-Specific Documents](#)
- [Platform-Specific Documents](#)

## Release-Specific Documents

The following documents are specific to Release 15.0 and apply to Release 15.0(1)XA5:

- [New and Changed Information](#)
- [Caveats for Cisco IOS Release 15.0M](#)

## Platform-Specific Documents

Hardware installation guides, configuration and command reference guides, and additional documents specific to the Cisco 2800 series routers are available at:

[http://www.cisco.com/en/US/products/ps5854/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps5854/tsd_products_support_series_home.html)

## Cisco IOS Software Documentation Set

The Cisco IOS software documentation set consists of the Cisco IOS configuration guides, Cisco IOS command references, and other supporting documents.

### Documentation Modules

Each module in the Cisco IOS documentation set consists of one or more configuration guides and one or more corresponding command references. Chapters in a configuration guide describe protocols, configuration tasks, and Cisco IOS software functionality, and contain comprehensive configuration examples. Chapters in a command reference provide complete command syntax information. Use each configuration guide with its corresponding command reference. *Cisco IOS Software Documentation* is available in html or pdf form.

Select your release and click the command references, configuration guides, or any other Cisco IOS documentation you need.

## Notices

See the “[Notices](#)” section in *About Cisco IOS Release Notes* located at [http://www.cisco.com/en/US/docs/ios/12\\_4/12\\_4x/12\\_4xy15/ReleaseNote.html](http://www.cisco.com/en/US/docs/ios/12_4/12_4x/12_4xy15/ReleaseNote.html).

Use this document in conjunction with the documents listed in the “[Additional References](#)” section.

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