



# Release Notes for the Cisco ATA 186 and Cisco ATA 188 Release 3.1(2)

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**October 5, 2004**

These release notes describe newly incorporated features, changed features or changed behavior, resolved issues, and open issues for the Cisco ATA 186 and the Cisco ATA 188 for Release 3.1(2), as well as for the 3.1(0) and 3.1(1) Cisco ATA releases for the SCCP, SIP, H.323 and MGCP protocols.

The term *Cisco ATA* refers to both the Cisco ATA 186 and the Cisco ATA 188.

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# Introduction to the Cisco ATA Analog Telephone Adaptor

The Cisco ATA is an analog telephone adaptor that allows traditional analog telephones to operate on IP-based telephony networks. The Cisco ATA supports two voice ports, each with its own independent telephone number.

Two Cisco ATA products are available to Cisco customers—the Cisco ATA 186 and the Cisco ATA 188. Both products run the same software and have two voice ports. The Cisco ATA 186 has one RJ45 port that provides access to an Ethernet network. The Cisco ATA 188 has an Ethernet switch and two RJ45 ports—one for accessing an Ethernet network and one for connecting a downstream Ethernet device such as a PC.

## Downloading and Upgrading the Software

Before you can use the Cisco ATA Release 3.1(2), you must first download and upgrade the Cisco ATA software. You can download the software (*ATA030102H323040927A.zip*), after logging in, at:

<http://www.cisco.com/cgi-bin/tablebuild.pl/ata186>



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**Note**

If you are using the Cisco ATA executable-file-upgrade method, check with the administrator of the TFTP server to make sure that the TFTP upgrade method is disabled. Otherwise, the Cisco ATA might downgrade to an old image via TFTP.

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For more information about downloading and upgrading software, see the Cisco ATA administrator's guides for the signaling protocol you are using. The administrator's guides can be found at the following location:

<http://www.cisco.com/univercd/cc/td/doc/product/voice/ata/ataadmn/index.htm>

# New Features

This section contains the following topics:

- [New Features for Release 3.1\(0\), page 3](#)
- [New Features for Release 3.1\(1\), page 4](#)

## New Features for Release 3.1(0)

**Table 1** lists new features for Cisco ATA Release 3.1(0), and includes the protocol(s) for which the feature applies.

**Table 1** *New Cisco ATA Features in Release 3.1(0)*

Topic	Behavior Description	Protocols
Auto-Retrieval of Held Call	Use ConnectMode bit 26 to enable this feature. If the Cisco ATA user places a call on hold to either initiate a second call or to answer a call-waiting call, this feature allows the Cisco ATA to automatically reconnect to the held party whenever the active call is disconnected from the far end.	SIP
Redirect Call to 302 Contact Address	Use ConnectMode bit 0 to enable this feature. This feature allows the Cisco ATA to send a redirected INVITE request to the IP address specified in a <i>302 Temporarily Moved</i> response instead of relaying the message through the SIP proxy.	SIP
Symmetric Codec Support	This Cisco ATA feature employs the use of the H.245 Master/Slave Determination scheme at the beginning of each call to determine which endpoint plays the role of Master in the selection of audio codecs. The Cisco ATA then uses the Master side's codec for transmitting and receiving data. Once media is established, both endpoints communicate with symmetric codecs.  Prior to this release, the Cisco ATA performed codec selection based on its preferred codec, which usually resulted in the Cisco ATA using different codecs for transmitting and receiving data.	H.323

## New Features for Release 3.1(1)

Table 2 lists the new features for Cisco ATA Release 3.1(1), and includes the protocol(s) for which the feature applies.

**Table 2** *New Cisco ATA Features in Release 3.1(1)*

Topic	Behavior Description	Protocols
Multicast Music on Hold	The Cisco ATA supports playing multicast Music on Hold. No additional configuration is needed.	SCCP
NATIP configuration parameter added for H.323	This parameter specifies the WAN address of the attached router/NAT, previously used only with the SIP protocol. Default: 0.0.0.0 Voice Configuration Menu Access Code: 200	H.323
Loose routing	If the Cisco ATA detects that its nearest proxy during a SIP request is a loose router, than the Cisco ATA must follow the procedures defined in RFC-3261 for all requests to that proxy for the remainder of the call. RFC-3261 defines the loose-routing format for SIP requests.	SIP
Tones for R+digit commands (for Sweden)	Prompt tones and error tones are now available for users with R1, R2, R3, and other functions configured in the various contexts of the Call Command field.	SIP

## Changed Feature for Release 3.1(1)

Table 3 lists a changed feature for Cisco ATA Release 3.1(1).

**Table 3** *Changed Cisco ATA Feature in Release 3.1(1)*

Topic	Feature Description	Protocols
Attended Call Transfer using REFER	Default call commands for the United States and Sweden have changed. All users using the Attended Call Transfer feature must base their call command string on the new default provided in the latest sip_example.txt file.	SIP

## Resolved Issues

This section contains the following topics:

- [Resolved Issues for Release 3.1\(0\), page 5](#)
- [Resolved Issues for Release 3.1\(1\), page 6](#)
- [Resolved Issues for Release 3.1\(2\)—H.323 Only, page 9](#)

## Resolved Issues for Release 3.1(0)

This section lists the issues in previous releases of the Cisco ATA that are resolved for Release 3.1(0):

- [Resolved Non-Protocol-Specific Issues, page 5](#)
- [Resolved SIP Issues, page 5](#)
- [Resolved SCCP Issues, page 6](#)
- [Resolved H.323 Issues, page 6](#)

### Resolved Non-Protocol-Specific Issues

[Table 4](#) lists the issues in previous releases of the Cisco ATA that are resolved for Cisco ATA Release 3.1(0) for all four supported protocols (SIP, H.323, SCCP and MGCP).

**Table 4** *Resolved Issues for All Protocols for Release 3.1(0)*

DDTS Number	Summary
CSCed45534	Spurious DTMF tones sound on the far end of the Cisco ATA.
CSCed69371	When two Cisco ATAs that are running 3.0 software obtain duplicate IP addresses via DHCP, the Cisco ATA enters an ARP infinite-loop state.

### Resolved SIP Issues

[Table 5](#) lists the issues in previous releases of the Cisco ATA that are resolved for Cisco ATA Release 3.1(0) for SIP only.

**Table 5** *Resolved Issues for SIP Protocol for Release 3.1(0)*

DDTS Number	Summary
CSCec57445	When the Cisco ATA disconnects an active call-waiting call, the second call also is dropped.
CSCed21399	Enabling the called-party anonymity feature causes Sweden call-transfer feature to fail.
CSCed29478	Requests originated by a callee to an <i>Anonymous</i> caller with CLIR privacy feature enabled results in the Cisco ATA sending a <i>404 Not Found</i> response.
CSCed38815	The Cisco ATA may send an incorrect media IP address in the Session Description Protocol of a <i>200 OK</i> message in response to a Re-INVITE request.
CSCed39412	The Cisco ATA sends an invalid port number when responding to an INVITE request.
CSCed41268	The Cisco ATA must change its behavior for responding to a BYE request for a unknown Call-ID.
CSCed44149	The Cisco ATA is sending a <i>486 Busy Here Response</i> that does not correlate to the call.
CSCed48422	The Cisco ATA includes an equal (=) sign instead of a colon (:) in the Proxy-Authorization header.

*Table 5 Resolved Issues for SIP Protocol for Release 3.1(0) (continued)*

DDTS Number	Summary
CSCed49460	The Cisco ATA may create a malformed Request-URI when the SIP proxy and outbound proxy are specified as IP addresses and the backup proxy is not specified.
CSCed49981	The Cisco ATA should handle a <i>180</i> response with Session Description Protocol (SDP) the same way it handles a <i>183</i> response with SDP.
CSCed51785	The Cisco ATA does not put a right-angle bracket around the URL in the Refer-To header.
CSCed51992	The Cisco ATA does not support the overloading of more than one Refer-To header in a REFER request.
CSCed54123	The call-waiting feature fails after a second hook flash on the Cisco ATA is performed, and the on-hold party is dropped.
CSCed60604	The Cisco ATA does not handle RTP header extensions.
CSCed63768	SessionTimer: When the Cisco ATA receives a re-INVITE to Refresh for a call on hold, the Cisco ATA <i>200 OK Response</i> should contain a 0.0.0.0 address in the 'c=' line of the Session Description Header.

## Resolved SCCP Issues

[Table 6](#) lists the issues in previous releases of the Cisco ATA that are resolved for Cisco ATA Release 3.1(0) for SCCP only.

*Table 6 Resolved Issues for SCCP Protocol for Release 3.1(0)*

DDTS Number	Summary
CSCed52004	The Cisco ATA cannot handle zero-length TCP messages.

## Resolved H.323 Issues

[Table 7](#) lists the issues in previous releases of the Cisco ATA that are resolved for Cisco ATA Release 3.1(0) for H.323 only.

*Table 7 Resolved Issues for H.323 Protocol for Release 3.1(0)*

DDTS Number	Summary
CSCed65226	The Cisco ATA does not use symmetric Tx/Rx codecs.

## Resolved Issues for Release 3.1(1)

This section lists the issues in previous releases of the Cisco ATA that are resolved for Release 3.1(1):

- [Resolved Non-Protocol-Specific Issues, page 7](#)
- [Resolved SIP Issues, page 7](#)

- [Resolved SCCP Issues, page 8](#)
- [Resolved H.323 Issues, page 9](#)
- [Resolved MGCP Issues, page 9](#)

## Resolved Non-Protocol-Specific Issues

**Table 8** lists the issues in previous releases of the Cisco ATA that are resolved for Cisco ATA Release 3.1(1) for all four supported protocols (SIP, H.323, SCCP and MGCP).

**Table 8** *Resolved Issues for All Protocols for Release 3.1(1)*

DDTS Number	Summary
CSCee75045	The Cisco ATA186 cannot correctly perform a reassembly of IP fragment packets.
CSCee84790	ATA may experience one-way audio after the RTP stream source is changed.

## Resolved SIP Issues

**Table 9** lists the issues in previous releases of the Cisco ATA that are resolved for Cisco ATA Release 3.1(1) for SIP only.

**Table 9** *Resolved Issues for SIP Protocol for Release 3.1(1)*

DDTS Number	Summary
CSCeb29729	Repeat dialing following a busy signal fails when the caller is in a three-way call.
CSCeb29807	Repeat dialing after a busy signal did not take place after a conference call completed.
CSCed52352	The attended CT feature did not work with the BTS10200 4.1.1I6 load.
CSCed78184	Request to add examples to the Cisco ATA administration guide for configuring the Sweden Call Waiting Hang-Up Alert feature.
CSCed81921	Message waiting indicator (MWI) messages are not recognized by the Cisco ATA 186.
CSCee08227	The Cisco ATA is not sending a BYE request when a call is disconnected.
CSCee11722	Blind transfer from the Cisco ATA to the Cisco IP Phone 7960 fails.
CSCee11971	If the conference warning tone is enabled, the conference feature does not work properly.
CSCee14271	The user can use the call return function to dial a blocked number.
CSCee15008	Malformed Request-URI, To-URI, and From-URI occurring in INVITE requests.
CSCee16830	Caller ID is presented upon call return even when Caller Line Identification Restriction (CLIR) is the default CallFeature setting.
CSCee21833	The Cisco ATA sends a malformed register.
CSCee22057	The Cisco ATA plays the conference warning tone even after one party in the conference has dropped out.

**Table 9** *Resolved Issues for SIP Protocol for Release 3.1(1) (continued)*

DDTS Number	Summary
CSCee38045	The Cisco ATA does not register after receiving a STUN binding response.
CSCee39037	The Cisco ATA inserts multiple Authentication headers in registers.
CSCee39477	Authentication fails when used with privacy/anonymity features.
CSCee43810	The Cisco ATA occasionally crashes during a lengthy call.
CSCee54974	NatServer default port is 0 instead of 5060.
CSCee55257	The Cisco ATA routes calls to the voice prompt server instead of the call-forwarded number.
CSCee55974	The DialPlan stored in the Cisco ATA configuration file was being truncated to 244 characters.
CSCee57176	The Cisco ATA sends a malformed ACK and no subsequent BYE after a CANCEL request.
CSCee58660	There are occasional problems with ACK Req-URIs that the Cisco ATA sends after receiving a <i>487 Request Cancelled</i> message.
CSCee59004	The Cisco ATA 186 processes the Range command and the DialPlan <b>R</b> rule incorrectly.
CSCee60515	The Cisco ATA can be attacked by RST, SYN and data-injection packets.
CSCee63601	A <i>From</i> header that contains an escape character is not copied correctly.
CSCee66726	Type Of Service (TOS) values are not being used to tag signaling and RTP packets.
CSCee68397	Sweden hook flash receives unexpected audio after conferencing is established.
CSCee89902	Sweden G.726 hook flash receives unexpected audio leak after conferencing is established.
CSCee91360	Loose router-enabled proxy causes subsequent calls to fail.

## Resolved SCCP Issues

[Table 10](#) lists the issues in previous releases of the Cisco ATA that are resolved for Cisco ATA Release 3.1(1) for SCCP only.

**Table 10** *Resolved Issues for SCCP Protocol for Release 3.1(1)*

DDTS Number	Summary
CSCed51467	The Conference Bridge keeps the phone session after the connection is lost.
CSCed90702	The behavior of the Cisco ATA for Conference Call differs between Cisco CallManager release 3.3 and Cisco CallManager release 4.0.
CSCed93371	The behavior of the Cisco ATA for the Call Hold/Resume feature differs between Cisco CallManager release 3.3 and Cisco CallManager release 4.0.
CSCee18828	The Cisco ATA186 is not playing Music on Hold on load ATA030100SCCP040211A.
CSCee22280	Support for Multicast Music on Hold for SCCP requested.



*Table 10 Resolved Issues for SCCP Protocol for Release 3.1(1) (continued)*

DDTS Number	Summary
CSCee38651	The Cisco ATA186 stops sending RTP packets for preservation calls after five minutes.
CSCee66104	For an active Cisco ATA call on port 2 only, this call is not preserved during a Cisco CallManager failover.

## Resolved H.323 Issues

[Table 11](#) lists the issues in previous releases of the Cisco ATA that are resolved for Cisco ATA Release 3.1(1) for H.323 only.

*Table 11 Resolved Issues for H.323 Protocol for Release 3.1(1)*

DDTS Number	Summary
CSCeb50977	The cch323_h225_receiver encounters a parse error.
CSCed84087	The Cisco ATA may not send the DRQ, depending on the call sequence.
CSCee14184	The Cisco ATA may send the wrong TCP sequence to the Cisco IOS Gateway.
CSCee41983	Supportability of G.723 codecs not depicted properly in H.245 CESE.

## Resolved MGCP Issues

[Table 12](#) lists the issues in previous releases of the Cisco ATA that are resolved for Cisco ATA Release 3.1(1) for MGCP only.

*Table 12 Resolved Issues for MGCP Protocol for Release 3.1(1)*

DDTS Number	Summary
CSCee03928	RTP statistics are missing in syslog.
CSCee54690	In NCS 1.0, the Cisco ATA uses an incorrect package name for PING.
CSCee76328	MGCP protocol error number 510 occurs.

## Resolved Issues for Release 3.1(2)—H.323 Only

[Table 13](#) lists the issue in previous releases of the Cisco ATA that are resolved for Cisco ATA Release 3.1(2). This release is only for the H.323 protocol.

*Table 13 Resolved Issues for H.323 Protocol for Release 3.1(2)*

DDTS Number	Summary
CSCef42352	The Cisco ATA resets after receiving packets from a test suite.

## Related Documentation

Use these release notes in conjunction with the documents located at this index:

<http://www.cisco.com/univercd/cc/td/doc/product/voice/ata/index.htm>

## Obtaining Documentation

Cisco documentation and additional literature are available on Cisco.com. Cisco also provides several ways to obtain technical assistance and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

### Cisco.com

You can access the most current Cisco documentation at this URL:

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<http://tools.cisco.com/RPF/register/register.do>

## Submitting a Service Request

Using the online TAC Service Request Tool is the fastest way to open S3 and S4 service requests. (S3 and S4 service requests are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Service Request Tool automatically provides recommended solutions. If your issue is not resolved using the recommended resources, your service request will be assigned to a Cisco TAC engineer. The TAC Service Request Tool is located at this URL:

<http://www.cisco.com/techsupport/servicerequest>

For S1 or S2 service requests or if you do not have Internet access, contact the Cisco TAC by telephone. (S1 or S2 service requests are those in which your production network is down or severely degraded.) Cisco TAC engineers are assigned immediately to S1 and S2 service requests to help keep your business operations running smoothly.

To open a service request by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)

EMEA: +32 2 704 55 55

USA: 1 800 553 2447

For a complete list of Cisco TAC contacts, go to this URL:

<http://www.cisco.com/techsupport/contacts>

## Definitions of Service Request Severity

To ensure that all service requests are reported in a standard format, Cisco has established severity definitions.

**Severity 1 (S1)**—Your network is “down,” or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

**Severity 2 (S2)**—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

**Severity 3 (S3)**—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

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- The Cisco *Product Catalog* describes the networking products offered by Cisco Systems, as well as ordering and customer support services. Access the Cisco Product Catalog at this URL:

<http://cisco.com/univercd/cc/td/doc/pcat/>

- *Cisco Press* publishes a wide range of general networking, training and certification titles. Both new and experienced users will benefit from these publications. For current Cisco Press titles and other information, go to Cisco Press at this URL:

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- *Packet* magazine is the Cisco Systems technical user magazine for maximizing Internet and networking investments. Each quarter, Packet delivers coverage of the latest industry trends, technology breakthroughs, and Cisco products and solutions, as well as network deployment and troubleshooting tips, configuration examples, customer case studies, certification and training information, and links to scores of in-depth online resources. You can access Packet magazine at this URL:

<http://www.cisco.com/packet>

- *iQ Magazine* is the quarterly publication from Cisco Systems designed to help growing companies learn how they can use technology to increase revenue, streamline their business, and expand services. The publication identifies the challenges facing these companies and the technologies to help solve them, using real-world case studies and business strategies to help readers make sound technology investment decisions. You can access iQ Magazine at this URL:

<http://www.cisco.com/go/iqmagazine>

- *Internet Protocol Journal* is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:

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