



# NAT Support of H.323 v2 RAS

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This document describes enhanced Cisco IOS Network Address Translation (NAT) support of H.323 v2 Registration, Admission, and Status (RAS). It includes the following sections:

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## Feature Overview

Cisco IOS NAT supports all H.225 and H.245 message types, including those sent in the RAS protocol. RAS provides a number of messages that are used by software clients and Voice over IP (VoIP) devices to register their location, request assistance in call setup, and control bandwidth. The RAS messages are directed toward an H.323 gatekeeper.

Some RAS messages include IP addressing information in the payload, typically meant to register a user with the gatekeeper or learn about another user already registered. If these messages are not known to NAT, they cannot be translated to an IP address that will be visible to the public.

Previously, NAT did not support H.323 v2 RAS messages. With this enhancement, embedded IP addresses can be inspected for potential address translation.

## Benefits

- Customers can control their IP address scheme and include complete support for H.323 v2 gatekeeper designs.
- NAT enables customers to deploy private IP addresses within their network and perform translation to public IP addresses when connecting to the Internet or interconnecting with another corporate network.

## Related Documents

- *Cisco IOS IP Configuration Guide, Release 12.2*
- *Cisco IOS IP Command Reference, Volume 1 of 3: Addressing and Services, Release 12.2*

# Supported Platforms

- Catalyst 2900
- Catalyst 2900XL
- Catalyst 4000 series
- Catalyst 5000 family switches with an installed Route Switch Module
- Catalyst 6000
- Catalyst 8500 series
- Cisco 800 series
- Cisco 1000 series
- Cisco 1400 series
- Cisco 1600 series
- Cisco 1700
- Cisco 2600 series
- Cisco 3600 series
- Cisco 4000 series
- Cisco 6400 series
- Cisco 7000 series
- Cisco 8500 series
- Cisco 12000 series
- Cisco MC3810
- Cisco uBR900 series
- Cisco uBR7200
- LightStream 1010 series

## Platform Support Through Feature Navigator

Cisco IOS software is packaged in feature sets that support specific platforms. To get updated information regarding platform support for this feature, access Feature Navigator. Feature Navigator dynamically updates the list of supported platforms as new platform support is added for the feature.

Feature Navigator is a web-based tool that enables you to quickly determine which Cisco IOS software images support a specific set of features and which features are supported in a specific Cisco IOS image.

To access Feature Navigator, you must have an account on Cisco.com. If you have forgotten or lost your account information, e-mail the Contact Database Administration group at [cdbadmin@cisco.com](mailto:cdbadmin@cisco.com). If you want to establish an account on Cisco.com, go to <http://www.cisco.com/register> and follow the directions to establish an account.

Feature Navigator is updated when major Cisco IOS software releases and technology releases occur. As of May 2001, Feature Navigator supports M, T, E, S, and ST releases. You can access Feature Navigator at the following URL:

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

# Supported Standards, MIBs, and RFCs

## Standards

No new or modified standards are supported by this feature.

## MIBs

No new or modified MIBs are supported by this feature.

To obtain lists of supported MIBs by platform and Cisco IOS release, and to download MIB modules, go to the Cisco MIB website on Cisco.com at the following URL:

<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>

## RFCs

No new or modified RFCs are supported by this feature.

## Configuration Tasks

None

## Configuration Examples

None

## Command Reference

None

