

ISDN Module

Feature Summary

The ISDN module ensures that the ISDN protocol stack functions properly while the D-channel information (Q.931 and the Q.921 frames) are transported over possibly multiple IP networks via UDP across links managed by the Redundant Link Manager (RLM). For more information about RLM, see the feature module *Redundant Link Manager*.

List of Terms

CSC—Cisco Signaling Controller. A server which interfaces between the NAS and the SS7 signaling network.

NAS—Network Access Server. A Cisco platform (or collection of platforms such as an AccessPath TS or TS3 system, which interfaces between the packet world (for example, the Internet) and the circuit world (for example, the PSTN).

RLM—Redundant Link Manager.

Restrictions

Do not use this and other SS7 dial access solution commands if you are using a PRI interface.

Platforms

The following hardware platforms support this feature:

- Cisco AS5800
- Cisco AS5300
- Cisco AS5200
- Cisco AccessPath TS and TS3

Prerequisites

The rlm group should have already been configured. If not, see the feature module titled *Redundant Link Manager*.

Supported MIBs and RFCs

None.

Functional Description

The SS7 dial access solution uses the ISDN Q.931 and Q.921 protocols over an RLM module. RLM makes use of the UDP protocol to transfer information from the NAS to the CSC and vice versa.

Configuration Tasks

None.

Command Reference

The **isdn rlm-group** command is added for this feature. All of those IP addresses associated with the redundant servers will be called an rlm-group. Multiple rlm-groups will be allowed in each NAS.

All other commands used with this feature are documented in the Cisco IOS Release 12.0 command references.

isdn rlm-group

The **isdn rlm-group** command allows RLM to be used as a way of transporting the D channel information (signaling) over Ethernet. Use this command to specify the rlm-group number that ISDN will start using. Use the **no** form of this command to disable this function.

isdn rlm-group *number*
no isdn rlm-group *number*

Syntax Description

number The number of the rlm-group. Between 0 and 5.

Default

Disabled

Command Mode

Interface configuration

Usage Guidelines

This command first appeared in Cisco IOS Release 12.0(2)T.

Sample Display

```
interface Serial0:23
 ip address 7.0.0.1 255.0.0.0
 encapsulation ppp
 dialer map ip 7.0.0.2 name hawaii 1111111
 dialer load-threshold 1 either
 dialer-group 1
 isdn switch-type primary-ni
 isdn incoming-voice modem
 isdn rlm-group 1
 ppp authentication chap
 ppp multilink
 hold-queue 75 in
!
```

Related Commands

clear interface
clear rlm group statistics
interface
link source weight
protocol rlm port
retry keepalive
server
show rlm group statistics
show rlm group status
show rlm group timer
shutdown
timer

What to Do Next

For additional software configuration information, see the following publications:

- *Cisco SS7/CCS7 Dial Access Solution System Integration Guidelines*
- *Cisco AS5300 Universal Access Server Software Configuration Guide*
- *Cisco AS5800 Universal Access Server Installation and Configuration Guide*
- *Dial Solutions Configuration Guide (Cisco IOS Release 12.0)*