



Release Notes for the Cisco 800 and SOHO 90 Series Routers for Cisco IOS Release 12.2(8)YN

July 30, 2003

These release notes describe new features and significant software components for the Cisco 831 and 837 routers, and Cisco SOHO 91, and SOHO 97 routers that support Cisco IOS Release 12.2 T, up to and including Release 12.2(8)YN2. These release notes are updated as needed to describe new memory requirements, new features, new hardware support, software platform deferrals, microcode or modem code changes, related document changes, and any other important changes. Use these release notes with the [Cross-Platform Release Notes for Cisco IOS Release 12.2 T](#) located on CCO and the Documentation CD.

For a list of the software caveats that apply to Release 12.2(8)YN2, refer to the section “[Caveats](#)” and to the online [Caveats for Cisco IOS Release 12.2 T](#) document. The caveats document is updated for every 12.2 T maintenance release and is located on Cisco Connection Online (CCO) and the Documentation CD.

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Corporate Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

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System Requirements

This section describes the system requirements for Release 12.2(8)YN2 and includes the following sections:

- [Memory Requirements, page 2](#)
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Memory Requirements

This section describes the memory requirements for the Cisco IOS feature sets supported by Cisco IOS Release 12.2(8)YN2 on the Cisco 831, 837, SOHO 91, and SOHO 97 routers.

Table 1 Recommended Memory for the Cisco 831, 837, SOHO 91, and SOHO 97 Routers

Platforms	Image Name	Feature Set	Image	Flash Memory	DRAM Memory
Cisco 831	Cisco 831 IOS IP/FW/PLUS 3DES	IP/FW/PLUS 3DES	c831-k9o3sy6-mz	8 MB	32 MB
	Cisco 831 IOS IP/FW 3DES	IP/FW 3DES	c831-k9o3y6-mz	8 MB	32 MB
Cisco 837	Cisco 837 IOS IP/FW/PLUS 3DES	IP/FW/PLUS 3DES	c837-k9o3sy6-mz	8 MB	32 MB
	Cisco 837 IOS IP/FW 3DES	IP/FW 3DES	c837-k9o3y6-mz	8 MB	32 MB
Cisco SOHO 91	Cisco SOHO 91 IP/FW 3DES	IP/FW 3DES	soho91-k9oy6-mz	8 MB	32 MB
Cisco SOHO 97	Cisco SOHO 97 IP/FW 3DES	IP/FW 3DES	soho97-k9oy1-mz	8 MB	32 MB

Hardware Supported

Cisco IOS Release 12.2(8)YN2 supports the following Cisco 831, 837, SOHO 91, and SOHO 97 routers:

- Cisco 831 Routers
- Cisco 837 Routers
- Cisco SOHO 91 Routers
- Cisco SOHO 97 Routers

For detailed descriptions of new hardware features and which features are supported on each router, see the “[New and Changed Information](#)” section on page 10. For descriptions of existing hardware features and supported modules, see the hardware installation guides, configuration and command reference guides, and additional documents specific to Cisco 831, 837, SOHO 91, and SOHO 97 routers, which are available on Cisco.com and the Documentation CD at the following location:

http://www.cisco.com/univercd/cc/td/doc/product/access/acs_fix/800/index.htm

This URL is subject to change without notice. If it changes, point your web browser to CCO, and click the following path:

Cisco Product Documentation: Access Servers and Access Routers: Fixed Access : Cisco 800 Series Routers: <platform_name>

Determining the Software Version

To determine the version of Cisco IOS software currently running on your Cisco 831, 837, SOHO 91, and SOHO 97 router, log in to the router and enter the **show version EXEC** command. The following sample output from the **show version** command indicates the version number on the second output line:

```
router> show version
Cisco Internetwork Operating System Software
IOS (tm) C837 Software (C837-K9O3SY6-M), Version 12.2(8)YN2, EARLY DEPLOYMENT RELEASE
SOFTWARE (fc1) Synched to technology version 12.2(11.2u)T
```

Upgrading to a New Software Release

For general information about upgrading to a new software release, see *Software Installation and Upgrade Procedures* located at: http://www.cisco.com/warp/public/130/upgrade_index.shtml.

Feature Set Tables

The Cisco IOS software is packaged in feature sets consisting of software images—depending on the platform. Each feature set contains a specific set of Cisco IOS features. Release 12.2(8)YN2 supports the same feature sets as Releases 12.2 and 12.2(8)T, but Release 12.2(8)YN2 includes new features supported by the Cisco 831, 837, SOHO 91, and SOHO 97 routers.



Caution

Cisco IOS images with strong encryption (including, but not limited to 168-bit (3DES) data encryption feature sets) are subject to United States government export controls and have limited distribution. Strong encryption images to be installed outside the United States are likely to require an export license. Customer orders can be denied or subject to delay due

to United States government regulations. When applicable, the purchaser/user must obtain local import and use authorizations for all encryption strengths. Please contact your sales representative or distributor for more information, or send an e-mail to export@cisco.com.

[Table 2](#) lists the features and feature sets supported in Cisco IOS Release 12.2(8)YN2.

The table uses the following conventions:

- Yes—The feature is supported in the software image.
- No—The feature is not supported in the software image.
- In—The number in the “In” column indicates the Cisco IOS release in which the feature was introduced. For example, “12.2(8)YN” means the feature was introduced in 12.2(8)YN. If a cell in this column is empty, the feature was included in a previous release or the initial base release.



Note

These feature set tables only contain a selected list of features, which are cumulative for Release 12.2(8)*nn* early deployment releases only (*nn* identifies each early deployment release). The tables do not list all features in each image—additional features are listed in the [Cross-Platform Release Notes for Cisco IOS Release 12.2 T](#) and Release 12.2 T Cisco IOS documentation.

Table 2 Feature List by Feature Set for Cisco 831, and SOHO 91 Routers

Feature	In	Feature Set		
		Cisco 831 Routers	Cisco SOHO 91 Routers	IP PLUS Cisco 831 Routers
Hardware Features				
10/100 Switch - 4 port, unmanaged	12.2.(8)YN	Yes	Yes	Yes
Switch queueing mechanism to enable QoS, fair queueing with priority queues.	12.2.(8)YN	Yes	No	Yes
Switch PHY to allow auto MDI- MDX	12.2.(8)YN	Yes	Yes	Yes
Aux function over console port	12.2.(8)YN	Yes	Yes	Yes
Support to boot from any IOS image in Flash	12.2.(8)YN	Yes	Yes	Yes
Hardware assisted encryption for 3DES	12.2.(8)YN	Yes	No	Yes
Software Features				
Layer 3 and Encapsulation Support				
IP routing, IRB	12.2.(8)YN	Yes	Yes	Yes
EIGRP	12.2.(8)YN	No	No	Yes
NAT, PAT with H.323 support	12.2.(8)YN	Yes	Yes	Yes
NAT IPSEC pass through single or multi user	12.2.(8)YN	Yes	Yes	Yes
TCP MSS intercept and adjustment	12.2.(8)YN	Yes	Yes	Yes
IPCP negotiated address, netmask, DNS and WINS	12.2.(8)YN	Yes	Yes	Yes

Table 2 Feature List by Feature Set for Cisco 831, and SOHO 91 Routers

Feature	In	Feature Set		
		IP		IP PLUS
		Cisco 831 Routers	Cisco SOHO 91 Routers	Cisco 831 Routers
IPCP subnet delivery (connecting to DHCP and LAN configuration)	12.2.(8)YN	Yes	Yes	Yes
RIPv2	12.2.(8)YN	Yes	Yes	Yes
DHCP client, relay and server	12.2.(8)YN	Yes	Yes	Yes
Policy based routing	12.2.(8)YN	Yes	Yes	Yes
GRE	12.2.(8)YN	Yes	Yes	Yes
QoS				
LLQ	12.2.(8)YN	Yes	No	Yes
WRED	12.2.(8)YN	No	No	Yes
CBTS	12.2.(8)YN	No	No	Yes
CAR	12.2.(8)YN	No	No	Yes
Security and Connectivity				
Full syslog support	12.2.(8)YN	No	No	Yes
Lock and Key	12.2.(8)YN	No	No	Yes
AAA With Radius and TACACS+	12.2.(8)YN	No	No	Yes
AAA With TACACS+	12.2.(8)YN	No	Yes	No
Easy VPN Phase 1	12.2.(8)YN	Yes	No	Yes
Easy VPN Phase 2	12.2.(8)YN	Yes	No	Yes
SSH for secure remote management (no port mapping support required)	12.2.(8)YN	Yes	No	Yes
Firewall features phase 1 and 2 excluding IDS	12.2.(8)YN	Yes	Yes	Yes
Payload PPP compression (STAC)	12.2.(8)YN	Yes	Yes	Yes
Access Resilience and Redundancy				
Dial backup over console port	12.2.(8)YN	Yes	No	Yes
ISDN TA (Hayes Compliance)	12.2.(8)YN	Yes	No	Yes
HSRP	12.2.(8)YN	No	No	Yes
Interface Support				
Numbered and unnumbered interfaces	12.2.(8)YN	Yes	Yes	Yes
Ethernet support	12.2.(8)YN	Yes	Yes	Yes
Static routes	12.2.(8)YN	Yes	Yes	Yes
Multicast				
IP Multicast proxy	12.2.(8)YN	Yes	Yes	Yes
PIM Sparse mode	12.2.(8)YN	No	No	Yes

Table 2 Feature List by Feature Set for Cisco 831, and SOHO 91 Routers

Feature	In	Feature Set		
		IP		IP PLUS
		Cisco 831 Routers	Cisco SOHO 91 Routers	Cisco 831 Routers
Management Functions				
Remote upgrade ability of IOS	12.2.(8)YN	Yes	Yes	Yes
SA Agent support	12.2.(8)YN	No	No	No
Named access lists	12.2.(8)YN	Yes	Yes	Yes
Telnet client and server	12.2.(8)YN	Yes	Yes	Yes
Ability to manage IOS and CRWS upgrade separately	12.2.(8)YN	Yes	Yes	Yes
Management Information Bases (MIBs)				Yes
Chassis MIB	12.2.(8)YN	Yes	Yes	Yes
SNMP MIB 2	12.2.(8)YN	Yes	Yes	Yes
IOS protocols MIB	12.2.(8)YN	Yes	Yes	Yes
Interface MIBs	12.2.(8)YN	Yes	Yes	Yes
Entity MIB, Syslog MIB, Queue MIB, Mempool MIB, Image MIB	12.2.(8)YN	Yes	Yes	Yes
Support for all existing MIBs for ADSL models	12.2.(8)YN	Yes	Yes	Yes
Installation/Configuration				
CRWS support	12.2.(8)YN	Yes	Yes	Yes
Config Express	12.2.(8)YN	Yes	Yes	Yes
CiscoView, Cisco Resource Manager Essentials	12.2.(8)YN	Yes	Yes	Yes
IE2100 support	12.2.(8)YN	Yes	Yes	Yes
IP Routing				
GRE Keep Alive in Process Switch Mode	12.2.(8)YN	Yes	No	Yes

Table 3 Feature List by Feature Set for Cisco 837, and SOHO 97 Routers

Feature	In	Feature Set		
		IP		IP PLUS
		Cisco 837 Routers	Cisco SOHO 97 Routers	Cisco 837 Routers
Hardware Features				
10/100 Switch - 4 port, unmanaged	12.2.(8)YN	Yes	Yes	Yes
Switch queueing mechanism to enable QoS, fair queueing with priority queues	12.2.(8)YN	Yes	No	Yes

Table 3 Feature List by Feature Set for Cisco 837, and SOHO 97 Routers

Feature	In	Feature Set		
		IP		IP PLUS
		Cisco 837 Routers	Cisco SOHO 97 Routers	Cisco 837 Routers
Switch PHY to allow auto MDI- MDX	12.2.(8)YN	Yes	Yes	Yes
Aux function over console port	12.2.(8)YN	Yes	Yes	Yes
Support to boot from any IOS image in Flash	12.2.(8)YN	Yes	Yes	Yes
Hardware assisted encryption for 3DES	12.2.(8)YN	No	No	Yes
Software Features				
ADSL Features				
EOC message sets support	12.2.(8)YN	Yes	Yes	Yes
Dying gasp	12.2.(8)YN	Yes	Yes	Yes
G.lite, G.DMT and ANSI T1.413	12.2.(8)YN	Yes	Yes	Yes
ADSL over POTS	12.2.(8)YN	Yes	Yes	Yes
Console port	12.2.(8)YN	Yes	Yes	Yes
ATM Features				
Per VC queueing	12.2.(8)YN	Yes	Yes	Yes
Per VC traffic shaping	12.2.(8)YN	Yes	Yes	Yes
ATM VBRnrt, UBR, CBR	12.2.(8)YN	Yes	Yes	Yes
ATM Fault Management OAM (F5) segment CC and segment and end-2-end loopback and ILMI support	12.2.(8)YN	Yes	Yes	Yes
10 VC's, PVC	12.2.(8)YN	Yes	Yes	Yes
Support for VBR –rt	12.2.(8)YN	Yes	No	Yes
Fine granularity for PCR and SCR shaping for all traffic classes	12.2.(8)YN	Yes	No	Yes
Layer 3 and Encapsulation Support				
IP routing, IRB	12.2.(8)YN	Yes	Yes	Yes
EIGRP	12.2.(8)YN	No	No	Yes
NAT, PAT with H.323 support	12.2.(8)YN	Yes	Yes	Yes
NAT IPSEC pass through single or multi user	12.2.(8)YN	Yes	Yes	Yes
RFC 2684 routed and bridged	12.2.(8)YN	Yes	Yes	Yes
PPPoE, PPPoA	12.2.(8)YN	Yes	Yes	Yes
TCP MSS intercept and adjustment	12.2.(8)YN	Yes	Yes	Yes
IPCP negotiated address, netmask, DNS and WINS	12.2.(8)YN	Yes	Yes	Yes

Table 3 Feature List by Feature Set for Cisco 837, and SOHO 97 Routers

Feature	In	Feature Set		
		IP		IP PLUS
		Cisco 837 Routers	Cisco SOHO 97 Routers	Cisco 837 Routers
IPCP subnet delivery (connecting to DHCP and LAN configuration)	12.2.(8)YN	Yes	Yes	Yes
RIPv2	12.2.(8)YN	Yes	Yes	Yes
DHCP client, relay and server	12.2.(8)YN	Yes	Yes	Yes
Policy based routing	12.2.(8)YN	Yes	Yes	Yes
GRE	12.2.(8)YN	Yes	Yes	Yes
QoS				
LFI	12.2.(8)YN	No	No	Yes
LLQ	12.2.(8)YN	Yes	No	Yes
TX Ring adjustment	12.2.(8)YN	No	No	Yes
WRED	12.2.(8)YN	No	No	Yes
CBTS	12.2.(8)YN	No	No	Yes
CAR	12.2.(8)YN	No	No	Yes
Security and Connectivity				
Full syslog support	12.2.(8)YN	No	No	Yes
Lock and Key	12.2.(8)YN	No	No	Yes
AAA With Radius and TACACS+	12.2.(8)YN	No	No	Yes
Easy VPN Phase 1	12.2.(8)YN	Yes	No	Yes
Easy VPN Phase 2	12.2.(8)YN	Yes	No	Yes
SSH for secure remote management (no portmapping support required)	12.2.(8)YN	Yes	No	Yes
Firewall features phase 1 and 2 excluding IDS	12.2.(8)YN	Yes	Yes	Yes
Firewall features phase 1	12.2.(8)YN	No	Yes	No
Payload PPP compression (STAC)	12.2.(8)YN	Yes	Yes	No
Access Resilience and Redundancy				
Dial backup over console port	12.2.(8)YN	Yes	No	Yes
ISDN TA (Hayes Compliance)	12.2(8)YN	Yes	No	Yes
HSRP	12.2.(8)YN	No	No	Yes
Interface Support				
Numbered and unnumbered interfaces	12.2.(8)YN	Yes	Yes	Yes
DSL support	12.2.(8)YN	Yes	Yes	Yes
Ethernet support	12.2.(8)YN	Yes	Yes	Yes
Static routes	12.2.(8)YN	Yes	Yes	Yes

Table 3 Feature List by Feature Set for Cisco 837, and SOHO 97 Routers

Feature	In	Feature Set		
		IP		IP PLUS
		Cisco 837 Routers	Cisco SOHO 97 Routers	Cisco 837 Routers
Multicast				
IP Multicast proxy	12.2.(8)YN	Yes	Yes	Yes
PIM Sparse mode	12.2.(8)YN	No	No	Yes
Management Functions				
Remote upgrade ability of IOS	12.2.(8)YN	Yes	Yes	Yes
SA Agent support	12.2.(8)YN	Yes	Yes	Yes
Named access lists	12.2.(8)YN	Yes	Yes	Yes
Telnet client and server	12.2.(8)YN	Yes	Yes	Yes
Ability to manage IOS and CRWS upgrade separately	12.2.(8)YN	Yes	Yes	Yes
DSLAM Interoperability				
Alcatel ASAM 1000 and 7300 series	12.2.(8)YN	Yes	Yes	Yes
Cisco 62xx with NI-2 and 8 port ADSL over ISDN linecard	12.2.(8)YN	Yes	Yes	Yes
Cisco 62xx with NI-2 and Flexi line cards 4 and 8 port ADSL over POTS	12.2.(8)YN	Yes	Yes	Yes
Cisco 61xx with NI-2 and Flexi line cards 4 and 8 port ADSL over POTS	12.2.(8)YN	Yes	Yes	Yes
Lucent Stinger with Globespan line cards for ADSL over POTS	12.2.(8)YN	Yes	Yes	Yes
ECI HiFocus 120 and 240 DSLAM v4.0 or newer with ADI 918 and ADI930 chipsets	12.2.(8)YN	Yes	Yes	Yes
Management Information Bases (MIBs)				
ATM MIB	12.2.(8)YN	Yes	Yes	Yes
ADSL Line MIB	12.2.(8)YN	Yes	Yes	Yes
ADSL DMT Line MIB	12.2.(8)YN	Yes	Yes	Yes
Chassis MI	12.2.(8)YN	Yes	Yes	Yes
SNMP MIB 2	12.2.(8)YN	Yes	Yes	Yes
IOS protocols MIB	12.2.(8)YN	Yes	Yes	Yes
Interface MIBs	12.2.(8)YN	Yes	Yes	Yes
Entity MIB, Syslog MIB, Queue MIB, Mempoool MIB, Image MIB	12.2.(8)YN	Yes	Yes	Yes
Support for all existing MIBs for ADSL models	12.2.(8)YN	Yes	Yes	Yes
Installation/Configuration				
CRWS support	12.2.(8)YN	Yes	Yes	Yes

Table 3 Feature List by Feature Set for Cisco 837, and SOHO 97 Routers

Feature	In	Feature Set		
		IP		IP PLUS
		Cisco 837 Routers	Cisco SOHO 97 Routers	Cisco 837 Routers
Config Express	12.2.(8)YN	Yes	Yes	Yes
CiscoView, Cisco Resource Manager Essentials	12.2.(8)YN	Yes	Yes	Yes
IE2100 support	12.2.(8)YN	Yes	Yes	Yes

New and Changed Information

The following sections list the new hardware and software features supported by the Cisco 831, 837, SOHO 91, and SOHO 97 routers for Release 12.2(8)YN2.

New Hardware Features in Release 12.2(8)YN

The Cisco 831, 837, SOHO 91, and SOHO 97 have the following additional features over existing broadband routers:

- A 4-port Ethernet switch.
- Hardware encryption coprocessor.
- Virtual Aux port that uses the same physical port as the console port.
- A newer MPC857DSL processor.

New Software Features in Release 12.2(8)YN

The following sections describe the new software features supported by the Cisco 831, 837, SOHO 91, and SOHO 97 routers for Release 12.2(8)YN.

Flash File System Squeeze Utility

When a flash memory device is full, the files must be rearranged so the space used by the deleted files can be reclaimed. The “squeeze” feature erases all the deleted files from the router’s file system and copies all the valid files from the beginning of the flash memory. The squeeze operation can take as long as several minutes because it involves erasing and rewriting almost an entire flash memory space. To enable this feature, the entire flash device, including any partitions, has to be completely erased. There is a provision in the **erase** command to disable this squeeze utility.

Backup Dial Through Console Port

Backup Dial Through Console Port (Dial-on-Demand Routing-DDR) backup is a method of bringing up an alternate link should the primary WAN link fail. The router configured for DDR backup recognizes that the connection to the remote site has been lost, and initiates a DDR connection to the remote site using the modem setup via auxiliary port. This feature provides protection against WAN downtime by allowing configuration of a backup modem line connection.

When backup dial is enabled, and DDR backup is configured, the router recognizes that the WAN connection is lost, and initiates a DDR connection to the remote site using the modem setup via auxiliary port. Once the primary (WAN) link is up, the router diverts the traffic back to the WAN media.

New Software Features in Release 12.2(8)T

For information regarding the features supported in Cisco IOS Release 12.2 T, refer to the Cross-Platform Release Notes and New Feature Documentation links at the following location on CCO:

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122relnt/xprn122t/index.htm>

This URL is subject to change without notice. If it changes, point your web browser to CCO, and click the following path:

Service & Support: Technical Documents: Cisco IOS Software: Release 12.2: Release Notes: Cross-Platform Release Notes (Cisco IOS Release 12.2T)

Limitations

Backup Dial Through Console Port

- Since both the console port and auxiliary port in the IOS configuration correspond to the same physical RJ-45 port, both ports cannot be activated at the same time. A CLI is needed to enable/disable either one of the ports.
- If the backup dial configuration is enabled through NVRAM, the console port is not available. Use the reverse telnet command to disable the back up dial feature and access the router through the console port again. If the telnet command is not used, the router must be rebooted to make the console port available.

Caveats

Caveats describe unexpected behavior or defects in Cisco IOS software releases. Severity 1 caveats are the most serious caveats, severity 2 caveats are less serious, and severity 3 caveats are the least serious of these three severity levels.

Caveats in Release 12.2 T are also in Release 12.2(8)YN2. For information on caveats in Cisco IOS Release 12.2 T, refer to the *Caveats for Cisco IOS Release 12.2 T* document. For information on caveats in Cisco IOS Release 12.2, refer to the *Caveats for Cisco IOS Release 12.2* document. These documents list severity 1 and 2 caveats, and are located on CCO and the Documentation CD.

**Note**

If you have an account with Cisco.com, you can also use the Bug Toolkit to find select caveats of any severity. To reach the Bug Toolkit, log in to Cisco.com and click **Service & Support: Technical Assistance Center: Tool Index: Bug Toolkit**. Another option is to go to http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl.

Resolved Caveats - Release 12.2(8)YN2

Cisco IOS Release 12.2(8)YN2 is a rebuild release for Cisco IOS Release 12.2(8)YN. This section describes unexpected behavior that is fixed in Release 12.2(8)YN2.

Miscellaneous

CSCdz71127

Cisco routers and switches running Cisco IOS software and configured to process Internet Protocol version 4 (IPv4) packets are vulnerable to a Denial of Service (DoS) attack. A rare sequence of crafted IPv4 packets sent directly to the device may cause the input interface to stop processing traffic once the input queue is full. No authentication is required to process the inbound packet. Processing of IPv4 packets is enabled by default. Devices running only IP version 6 (IPv6) are not affected. A workaround is available.

Cisco has made software available, free of charge, to correct the problem.

This advisory is available at

<http://www.cisco.com/warp/public/707/cisco-sa-20030717-blocked.shtml>

CSCea02355

Cisco routers and switches running Cisco IOS software and configured to process Internet Protocol version 4 (IPv4) packets are vulnerable to a Denial of Service (DoS) attack. A rare sequence of crafted IPv4 packets sent directly to the device may cause the input interface to stop processing traffic once the input queue is full. No authentication is required to process the inbound packet. Processing of IPv4 packets is enabled by default. Devices running only IP version 6 (IPv6) are not affected. A workaround is available.

Cisco has made software available, free of charge, to correct the problem.

This advisory is available at

<http://www.cisco.com/warp/public/707/cisco-sa-20030717-blocked.shtml>

Open Caveats - Release 12.2(8)YN

Miscellaneous

CSCdy67155

Extra packets sent during performance testing causes test failure.

Workaround:

There is no workaround proposed as of now.

CSCdz01314

Interface async1 (console/aux) generated CRC errors at input.

Workaround:

There is no workaround proposed as of now.

CSCdy50090

Second copy of SAs for E1 does not show with IPSEC/GRE configuration.

Workaround:

There is no workaround proposed as of now.

CSCdy04573

CDP-4-DUPLEX_MISMATCH message with auto duplex configured in peer side.

- Configure the global command **no cdp advertise-v2** or
- Disable CDP on the complaining interface(s) or
- Change to Error Syslog level

Related Documentation

The following sections describe the documentation available for the Cisco 831, 837, SOHO 91, and SOHO 97 routers. Typically, these documents consist of hardware and software installation guides, Cisco IOS configuration and command references, system error messages, feature modules, and other documents. Documentation is available as printed manuals or electronic documents, except for feature modules, which are available online on Cisco.com and the Documentation CD.

Use these release notes with the documents listed in the following sections:

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

Release-Specific Documents

The following documents are specific to Release 12.2 and apply to Release 12.2(8)YN2. They are located on Cisco.com and the Documentation CD (under the heading **Service & Support**):

- To reach the *Cross-Platform Release Notes for Cisco IOS Release 12.2 T*, click this path:
Technical Documents: Cisco IOS Software: Release 12.2: Release Notes: Cisco IOS Release 12.2 T
- To reach product bulletins, field notices, and other release-specific documents, click this path:
Technical Documents: Product Bulletins
- To reach the *Caveats for Cisco IOS Release 12.2* and *Caveats for Cisco IOS Release 12.2 T* documents, which contain caveats applicable to all platforms for all maintenance releases of Release 12.2, click this path:
Technical Documents: Cisco IOS Software: Release 12.2: Caveats



Note

If you have an account with Cisco.com, you can also use the Bug Toolkit to find select caveats of any severity. To reach the Bug Toolkit, log in to Cisco.com and click **Service & Support: Technical Assistance Center: Tool Index: Bug Toolkit**. Another option is to go to http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl.

Platform-Specific Documents

Hardware installation guides, configuration and command reference guides, and additional documents specific to Cisco 831, 837, SOHO 91, and SOHO 97 series routers are available on Cisco.com and the Documentation CD at the following location:

http://www.cisco.com/univercd/cc/td/doc/product/access/acs_fix/800/index.htm

This URL is subject to change without notice. If it changes, point your web browser to CCO, and click the following path:

Cisco Product Documentation: Access Servers and Access Routers: Fixed Access Routers: Cisco 800 Series Routers: <platform_name>

Obtaining Documentation

These sections explain how to obtain documentation from Cisco Systems.

World Wide Web

You can access the most current Cisco documentation on the World Wide Web at this URL:

<http://www.cisco.com>

Translated documentation is available at this URL:

http://www.cisco.com/public/countries_languages.shtml

Documentation CD-ROM

Cisco documentation and additional literature are available in a Cisco Documentation CD-ROM package, which is shipped with your product. The Documentation CD-ROM is updated monthly and may be more current than printed documentation. The CD-ROM package is available as a single unit or through an annual subscription.

Ordering Documentation

You can order Cisco documentation in these ways:

- Registered Cisco.com users (Cisco direct customers) can order Cisco product documentation from the Networking Products MarketPlace:
http://www.cisco.com/cgi-bin/order/order_root.pl
- Registered Cisco.com users can order the Documentation CD-ROM through the online Subscription Store:
<http://www.cisco.com/go/subscription>
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- Priority level 4 (P4)—You need information or assistance concerning Cisco product capabilities, product installation, or basic product configuration.
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- Priority level 2 (P2)—Your production network is severely degraded, affecting significant aspects of business operations. No workaround is available.
- Priority level 1 (P1)—Your production network is down, and a critical impact to business operations will occur if service is not restored quickly. No workaround is available.

The Cisco TAC resource that you choose is based on the priority of the problem and the conditions of service contracts, when applicable.

Cisco TAC Web Site

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

If you are a Cisco.com registered user, and you cannot resolve your technical issues by using the Cisco TAC Web Site, you can open a case online by using the TAC Case Open tool at this URL:

<http://www.cisco.com/tac/caseopen>

If you have Internet access, we recommend that you open P3 and P4 cases through the Cisco TAC Web Site.

Cisco TAC Escalation Center

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