

Cisco IOS Software Release 12.2(8)YM

This product bulletin describes the new features introduced in Cisco IOS® Software Release 12.2(8)YM.

New Features

HSRP—Hot Standby Routing Protocol

Cisco 806, 826/827/827H/827-4V,
828—PLUS feature sets

HSRP allows a secondary router with a backup WAN connection to take the role of the primary router and connection should the primary CPE and/or the primary WAN fail for any reason. The role implies that the routers create a common virtual MAC and IP address and communicates such as the backup router checks for availability of the primary router and or the connection (whichever is monitored).

DNS Proxy

Cisco 806, 826/827/827H/827-4V, 828—
all feature sets

The ability to act as a DNS server (really a proxy) for LAN connected devices, in order to always have a DNS server address to give to DHCP clients regardless if the WAN DNS server has been learned over IPCP or DHCP already.

Proxy DNS makes it much easier to configure the router, since there is no need to know what IP address is assigned to E0.

NAT Skinny Pass-Through

Cisco 806, 826/827/827H/827-4V, 828—
PLUS feature sets

NAT pass-through feature. Cisco IP phones use the Selsius Skinny Station Protocol to connect with and register to the Cisco Call Manager (CCM). Messages flow back and forth, that include IP address and port information, used to identify other IP phone users with which a call can be placed.

To be able to deploy Cisco IOS NAT between the IP phone and CCM in a scalable environment, NAT needs to be able to detect the Selsius Skinny Station Protocol and understand the information passed within the messages.

When an IP phone attempts to connect to the CCM and it matches the configured NAT translation rules, NAT will translate the original source IP address and replace it with one from the configured pool. This new address will be reflected in the CCM and be visible to other IP phone users. This feature will need to be enabled by a command specifying the port used.

NAT SIP Pass-Through

Cisco 806, 826/827/827H/827-4V, 828—
PLUS feature sets

NAT pass-through feature. The SIP is an application-layer signaling protocol for creating and controlling multimedia sessions with two or more participants and a client-server protocol transported over TCP or UDP. The messages in the protocol might have IP addresses embedded in the

packet payload. If a message passes through a router configured with NAT, the embedded information must be translated and encoded back to the packet. This feature is enabled by default and configuration is only needed for use of non standard ports.

Music on Hand Live Feed (MoH):

Cisco 1700 Series

This feature provides support for MoH from a live audio feed connected to the router by an analog voice port. A Foreign Exchange Office (FXO) analog voice port or Ear and Mouth (E&M) analog voice port on the router provides MoH to the ITS system. The router checks the connection every 30 seconds and re-establishes it if the MoH call is terminated. In addition, the music file in the flash provides redundancy if the live audio feed is disconnected or discontinued.

Speed-Dial Directory:

Cisco 1700 Series

Local speed-dial is a new option on the IP Phone. For the local speed-dial option to be selected, a flash file named "speeddial.xml" is sent to a phone. In order for this feature to function, the "speeddial.xml" file must be in the flash.

Top-Line Description:

Cisco 1700 Series

The top-line description is a "label" on the top black bar of the 7960 or the 7940. The top-line description can be labeled using a configuration command. Examples of the label are "Cisco Systems" or "408-525-6000."

ICS-7750

There are no new features for this release, as this is a maintenance release for the following new features for the previous 12.2(8)YL release for the same platform.

The following are IOS features supported with 12.2(8)YM for the MRP300, MRP3-8FXS, and MRP3-16FXS:

Voice WIC support:

- VIC-4FXO-M1 with battery reversal detection and Caller ID support

WAN QoS feature support including:

- Resource reSerVation Protocol (RSVP)
- Weighted Fair Queuing (WFQ)
- Low Latency Queuing (LLQ)
- Class Based Weighted Fair Queuing (CBWFQ)
- Traffic Shaping
- Fragmentation and Interleaving
- IP Precedence

Analog Voice image supporting analog and BRI Voice Interface Cards for the ICS-7750 Analog Voice (ICS-7750-AV) package.

Digital Voice image supporting analog and digital Voice Interface Cards (VWIC) for the ICS-7750 Digital Voice (ICS-7750-DV) package. This image does not support data channel groups on VWICs.

Software Maintenance Support

Maintenance for these features will be available on future 12.2X special releases until the code is incorporated into the seventh maintenance software release of 12.2T.

Detailed Information

For more detailed information about the platforms and features of Cisco IOS Software Release 12.2(8)YM, reference the following documents:

Release Notes for the Cisco 1700 series platforms for Cisco IOS Software Release 12.2(8)YM at:

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122relnt/1700/rn1700ym.htm>

Release Notes for the Cisco 820 series platforms for Cisco IOS Software Release 12.2(8)YM at:

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122relnt/800/rn800ym.htm>

Release Notes for the Cisco ICS-7750 for Cisco IOS Software Release 12.2(8)YM at:

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122relnt/ics7750/rn7750ym.htm>

Life Span

Cisco IOS Software Release 12.2(8)YM will be sold until the seventh maintenance release of Cisco IOS Software Release 12.2T.

Support

Cisco IOS Software Release 12.2(8)YM is supported by the Cisco Systems Product Support Policy found at:

<http://www.cisco.com/warp/customer/437/27.html>

Supported Hardware Platforms

The MOH Live Feed, Speed Dial, and Top Line description are supported on the following platforms: Cisco 1751 and 1760.



Hot Standby Routing Protocol, DNS Proxy, NAT pass-through for SIP and Skinny descriptions are supported on Cisco 806, 826, 827, 827H, 827-4V, and 828. Loss of Margin Monitor and DNS Proxy will be supported in a later release for the SOHO 76, 77, 77H, and 78.

The Cisco ICS 7750 has no new features compared to the previous 12.2(8)YL release and this release is considered as a maintenance release only.

Image product numbers and descriptions for the 1700 Series are listed below:

Table 1

12.2(8) YM Image List Number	Software Product Description	Image	Product Code	MOH Live Feed	Speed Dial	Top-Line Description	Flash	DRAM
1	Cisco 1700 IOS IP/ ADSL/IPX/AT/IBM/ VOICE/FW/IDS PLUS IPSEC 56	c1700-bk8n o3r2sv3y7- mz	S17Q7HVK8-12208YM	No	No	No	16 MB	64 MB
2	Cisco 1700 IOS IP/ ADSL/IPX/AT/IBM/ VOX/FW/IDS PLUS IPSEC 56	c1700-bk8n o3r2sv8y7- mz	S17Q7V8K8-12208YM	Yes	Yes	Yes	16 MB	96 MB
3	Cisco 1700 IOS IP/ ADSL/IPX/AT/IBM/ FW/IDS PLUS IPSEC 56	c1700-bk8n o3r2sy7-mz	S17Q7HK8-12208YM	No	No	No	16 MB	64 MB
4	Cisco 1700 IOS IP/ ADSL/IPX/AT/IBM/ VOICE/FW/IDS PLUSIPSEC3DES	c1700-bk9n o3r2sv3y7- mz	S17Q7HVK9-12208YM	No	No	No	16 MB	64 MB
5	Cisco 1700 IOS IP/ ADSL/IPX/AT/IBM/ VOX/FW/IDS PLUS IPSEC 3DES	c1700-bk9n o3r2sv8y7- mz	S17Q7V8K9-12208YM	Yes	Yes	Yes	16 MB	64 MB
6	Cisco 1700 IOS IP/ ADSL/IPX/AT/IBM/ FW/IDS PLUS IPSEC 3DES	c1700-bk9n o3r2sy7-mz	S17Q7HK9-12208YM	No	No	No	16 MB	64 MB
7	Cisco 1700 IOS IP/ ADSL/IPX/AT/IBM PLUS	c1700-bnr2 sy7-mz	S17Q7P-12208YM	No	No	No	16MB	48MB
8	Cisco 1700 IOS IP/ IPX/AT/IBM	c1700-bnr2 y-mz	S17Q-12208YM	No	No	No	8 MB	32 MB
9	Cisco 1700 IOS IP/ ADSL/VOICE/FW/IDS PLUS IPSEC 56	c1700-k8o3 sv3y7-mz	S17C7HVK8-12208YM	No	No	No	16 MB	64 MB



12.2(8) YM Image List Number	Software Product Description	Image	Product Code	MOH Live Feed	Speed Dial	Top-Line Description	Flash	DRAM
10	Cisco 1700 IOS IP/ ADSL/VOX/FW/IDS PLUS IPSEC 56	c1700-k8o3 sv8y7-mz	S17C7V8K8-12208YM	Yes	Yes	Yes	16 MB	64 MB
11	Cisco 1700 IOS IP/ ADSL/FW/IDS PLUS IPSEC 56	c1700-k8o3 sy7-mz	S17C7HK8-12208YM	No	No	No	16 MB	48 MB
12	Cisco 1700 IOS IP/ ADSL/VOICE PLUS IPSEC 56	c1700-k8sv 3y7-mz	S17C7VK8-12208YM	No	No	No	16 MB	64 MB
13	Cisco 1700 IOS IP/ ADSL/VOX PLUS IPSEC 56	c1700-k8sv 8y7-mz	S17CV8K8-12208YM	Yes	Yes	Yes	16 MB	64 MB
14	Cisco 1700 IOS IP/ ADSL PLUS IPSEC 56	c1700-k8sy 7-mz	S17C7K8-12208YM	No	No	No	16 MB	48 MB
15	Cisco 1700 IOS IP/ ADSL/VOICE/FW/IDS PLUS IPSEC 3DES	c1700-k9o3 sv3y7-mz	S17C7HVK9-12208YM	No	No	No	16 MB	64 MB
16	Cisco 1700 IOS IP/ ADSL/VOX/FW/IDS PLUS IPSEC 3DES	c1700-k9o3 sv8y7-mz	S17C7V8K9-12208YM	Yes	Yes	Yes	16 MB	64 MB
17	Cisco 1700 IOS IP/ ADSL/FW/IDS PLUS IPSEC 3DES	c1700-k9o3 sy7-mz	S17C7HK9-12208YM	No	No	No	16 MB	64 MB
18	Cisco 1700 IOS IP/ ADSL/VOICE PLUS IPSEC 3DES	c1700-k9sv 3y7-mz	S17C7VK9-12208YM	No	No	No	16 MB	64 MB
19	Cisco 1700 IOS IP/ ADSL/VOX PLUS IPSEC 3DES	c1700-k9sv 8y7-mz	S17CV8K9-12208YM	Yes	Yes	Yes	16 MB	64 MB
20	Cisco 1700 IOS IP/ ADSL PLUS IPSEC 3DES	c1700-k9sy 7-mz	S17C7K9-12208YM	No	No	No	16 MB	48 MB
21	Cisco 1700 IOS IP/ ADSL/IPX/VOICE/FW/ IDS PLUS	c1700-no3s v3y7-mz	S17B7HPV-12208YM	No	No	No	16 MB	64 MB
22	Cisco 1700 IOS IP/ ADSL/IPX/VOX/FW/ IDS PLUS	c1700-no3s v8y7-mz	S17B7HPV8-12208YM	Yes	Yes	Yes	16 MB	64 MB
23	Cisco 1700 IOS IP/ ADSL/IPX/FW/IDS PLUS	c1700-no3s y7-mz	S17B7HP-12208YM	No	No	No	16 MB	48 MB



12.2(8) YM Image List Number	Software Product Description	Image	Product Code	MOH Live Feed	Speed Dial	Top-Line Description	Flash	DRAM
24	Cisco 1700 IOS IP/ IPX	c1700-ny-m z	S17B-12208YM	No	No	No	8 MB	32 MB
25	Cisco 1700 IOS IP/ ADSL/VOICE/FW/IDS PLUS	c1700-o3sv 3y7-mz	S17C7HV-12208YM	No	No	No	16 MB	64 MB
26	Cisco 1700 IOS IP/ ADSL/VOX/FW/IDS PLUS	c1700-o3sv 8y7-mz	S17C7HV8-12208YM	Yes	Yes	Yes	16 MB	64 MB
27	Cisco 1700 IOS IP/ FW/IDS	c1700-o3y- mz	S17CH-12208YM	No	No	No	8 MB	32 MB
28	Cisco 1700 IOS IP/ VOICE PLUS	c1700-sv3y- mz	S17CVP-12208YM	No	No	No	16 MB	48 MB
29	Cisco 1700 IOS IP/ ADSL/VOICE PLUS	c1700-sv3y 7-mz	S17C7VP-12208YM	No	No	No	16 MB	64 MB
30	Cisco 1700 IOS IP/ VOX PLUS	c1700-sv8y- mz	S17CV8P-12208YM	Yes	Yes	Yes	16 MB	64 MB
31	Cisco 1700 IOS IP/ ADSL/VOX PLUS	c1700-sv8y 7-mz	S17C7V8P-12208YM	Yes	Yes	Yes	16 MB	64 MB
32	Cisco 1700 IOS IP/ ADSL PLUS	c1700-sy7- mz	S17C7P-12208YM	No	No	No	16 MB	48 MB
33	Cisco 1700 IOS IP	c1700-y-mz	S17C-12208YM	No	No	No	8 MB	32 MB
34	Cisco 1700 IOS IP/ ADSL	c1700-y7-m z	S17C7-12208YM	No	No	No	8 MB	32 MB
35	Cisco 1710 IOS IP/ IPX/AT/IBM/FW/IDS PLUS IPSEC 3DES	c1710-bk9n o3r2sy-mz	S171QHK9-12208YM	No	No	No	16 MB	48 MB
36	Cisco 1710 IOS IP/ FW/IDS PLUS IPSEC 3DES	c1710-k9o3 sy-mz	S171CHK2-12208YM	No	No	No	8 MB	48 MB



Image product numbers and descriptions for the 800 Series are listed below

Table 2

2.2(8) YM Image List Number	Software Product Description	Image	Product Code	HSRP	DNS Proxy	NAT Skinny Pass- Through	NAT SIP Pass- Through
1	Cisco 806 Series IOS IP/FW PLUS	c806-o3sy6-mz	S806CHP-12208YM	Yes	Yes	Yes	Yes
2	Cisco 806 Series IOS IP/FW PLUS 3DES	c806-k9o3sy6-mz	S806CHK9-12208YM	Yes	Yes	Yes	Yes
3	Cisco 820 Ser IOS IP	c820-y6-mz	S820C-12208YM	No	Yes	No	No
4	Cisco 820 Ser IOS IP/FW	c820-oy6-mz	S820CH-12208YM	No	Yes	No	No
5	Cisco 820 Ser IOS IP PLUS	c820-sy6-mz	S820CP-12208YM	Yes	Yes	Yes	Yes
6	Cisco 820 Ser IOS IP/FW PLUS IPSEC 3DES	c820-k9osy6-mz	S820CHK9-12208YM	Yes	Yes	Yes	Yes
7	Cisco 820 Ser IOS IP/VOICE	c820-v6y6-mz	S820CV-12208YM	No	Yes	No	No
8	Cisco 820 Ser IOS IP/FW/ VOICE	c820-ov6y6-mz	S820CHV-12208YM	No	Yes	No	No
9	Cisco 820 Ser IOS IP/VOICE PLUS	c820-sv6y6-mz	S820CVP-12208YM	Yes	Yes	Yes	Yes
10	Cisco 820 Ser IOS IP/FW/ VOICE PLUS 3DES	c820-k9osv6y6-mz	S820CHVK9-12208YM	Yes	Yes	Yes	Yes
11	Cisco 828 Series IOS IP	c828-y6-mz	S828C-12208YM	No	Yes	No	No
12	Cisco 828 Series IOS IP/FW	c828-oy6-mz	S828CH-12208YM	No	Yes	No	No
13	Cisco 828 Series IOS IP PLUS	c828-sy6-mz	S828CP-12208YM	Yes	Yes	Yes	Yes
14	Cisco 828 Series IOS IP/FW PLUS 3DES	c828-k9osy6-mz	S828CHK9-12208YM	Yes	Yes	Yes	Yes



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