



# CISCO IOS SOFTWARE RELEASE 12.3(8)XX

## PRODUCT OVERVIEW

This product bulletin describes the content and delivery information for Cisco IOS® Software Release 12.3(8)XX, and should be used in conjunction with the Cisco IOS Software Release 12.3T product bulletin. Cisco IOS Software Release 12.3(8)XX is a short-lived, early deployment release that will be supported in the sixth release of Cisco IOS Software Release 12.3T. It supports Cisco® 1700 Series routers (Cisco 1701, 1710, 1711, 1712, 1720, 1721, 1751, 1751-V, and 1760).

**Note:** Cisco 1710 and 1720 routers will not be supported in future PCG (Premises Communication Group) IOS Software releases after 12.3(8)XX.

The platform and features delivered with this early deployment release will be incorporated immediately into the sixth release of Cisco IOS Software Release 12.3T. The timeframe for the availability of the sixth release of the Cisco IOS Software Release 12.3T train is the first calendar quarter of 2005. This timeframe is subject to change.

Future early deployment releases will be provided for maintenance support until Cisco IOS Software Release 12.3(8)XX becomes available in the sixth release of Cisco IOS Software Release 12.3T.

In addition to the supported features described in this product bulletin, additional information is available in the release notes for Cisco IOS Software Release 12.3(8)XX.

Customers should be prepared to upgrade using the migration path described in Figure 1.

**Figure 1**  
Migration Path

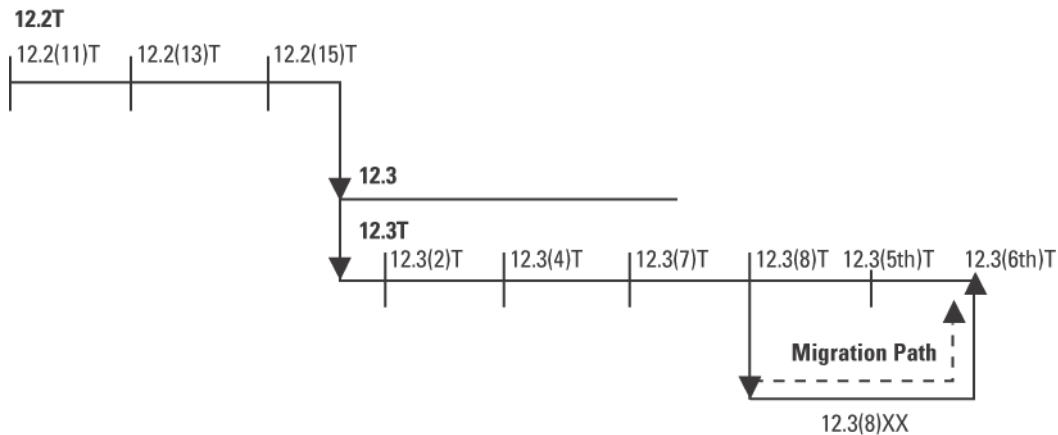


Table 1 lists Cisco IOS Software Release 12.3(8)XX features that are new to the respective platforms.

**Table 1**

New Features in Cisco IOS Software Release 12.3(8)XX

Feature	Description
ARP-Auto Logoff	Identifies active network users to prevent them being logged off erroneously

**DETAILED INFORMATION****New Feature****ARP-Auto Logoff**

Feature available across all Cisco 1700 Series routers and all feature sets.

ARP-Auto Logoff overcomes a limitation of the current Authorized Address Resolution Protocol (ARP) feature, which can cause premature logging off of peers. The ARP-Auto Logoff feature adds finer control for probing the authorized peers to provide more accurate and controlled detection of a peer's activeness. ARP-Auto Logoff allows for the configuration of the frequency on which a peer will be probed (the interval), as well as the maximum numbers of retries (the count).

The ARP-Auto Logoff feature is enabled by a new ARP interface command.

The new ARP probe function is enabled on an interface via an interface ARP configuration command. The configuration should be limited (but not enforced) to the interface that has the authorized ARP running. The new interface command format is:

```
[no] arp probe interval <1-10> count <1-60>
```

The interval value specifies the probing interval if the previous reply is not received, and the count specifies the limit of the maximum count of retries.

The start of the probing packet is triggered by the ARP timeout value for the entry. This value is calculated by the ARP timestamp, plus the configured ARP timeout value on the interface. Therefore, the real probe starting time is calculated based on the last received ARP reply packet for this entry.

To verify that the ARP probing process is running, use the following command:

```
show cpu process | in ARP
```

**Table 2**

Feature Sets and ordering information for Cisco IOS Software Release 12.3(8)XX

Cisco 1700 Series Legacy Images				Recommended Memory	
Platform	Software Product Description	Image File Name	Part Number	Flash	DRAM
Cisco 1720, 1721, 1751, 1751-V, 1760	Cisco 1700 Series, Cisco IOS Software IP	c1700-y-mz	S17C-12307XR	16 MB	48 MB
			S17C-12307XR=		
Cisco 1720, 1721, 1751, 1751-V, 1760, 1701	Cisco 1700 Series, Cisco IOS Software IP/ADSL	c1700-y7-mz	S17C7-12307XR	16 MB	48 MB
			S17C7-12307XR=		
Cisco 1721, 1751, 1751-V, 1760, 1701	Cisco 1700 Series, Cisco IOS Software IP/ADSL PLUS	c1700-sy7-mz	S17C7P-12307XR	16 MB	64 MB
			S17C7P-12307XR=		

Cisco 1700 Series Legacy Images					Recommended Memory	
Platform	Software Product Description	Image File Name	Part Number	Flash	DRAM	
Cisco 1721, 1751, 1751-V, 1760, 1701	Cisco 1700 Series, Cisco IOS Software IP/ADSL/Internetwork Packet Exchange (IPX) Protocol/AT/IBM PLUS	c1700-bnr2sy7-mz	S17Q7P-12307XR	16 MB	96 MB	
			S17Q7P-12307XR=			
Cisco 1721, 1751, 1751-V, 1760, 1701, 1711, 1712	Cisco 1700 Series, Cisco IOS Software IP/ADSL/Firewall/intrusion detection system (IDS) PLUS IPSEC 3DES	c1700-k9o3sy7-mz	S17C7HK9-12307XR	32 MB	96 MB	
			S17C7HK9-12307XR=			
Cisco 1721, 1751, 1751-V, 1760, 1701, 1711, 1712	Cisco 1700 Series, Cisco IOS Software IP/ADSL/IPX/AT/IBM/Firewall/IDS PLUS IPSEC 3DES	c1700-bk9no3r2sy7-mz	S17Q7HK9-12307XR	32 MB	96 MB	
			S17Q7HK9-12307XR=			
Cisco 1751, 1751-V, 1760	Cisco 1700 Series, Cisco IOS Software IP/ADSL/VOX PLUS	c1700-sv8y7-mz	S17C7V8P-12307XR	32 MB	96 MB	
			S17C7V8P-12307XR=			
Cisco 1751, 1751-V, 1760	Cisco 1700 Series, Cisco IOS Software IP/ADSL/VOX/Firewall/IDS PLUS IPSEC 3DES	c1700-k9o3sv8y7-mz	S17C7V8K9-12307XR	32 MB	96 MB	
			S17C7V8K9-12307XR=			
Cisco 1751, 1751-V, 1760	Cisco 1700 Series, Cisco IOS IP/ADSL/IPX/AT/IBM/VOX/Firewall/IDS PLUS IPSEC 3DES	c1700-bk9no3r2sv8y7-mz	S17Q7V8K9-12307XR	32 MB	128 MB	
			S17Q7V8K9-12307XR=			
Cisco 1700 Series Cross-Platform Images					Recommended Memory	
Platform	Software Product Description	Image File Name	Part Number	Flash	DRAM	
Cisco 1721, 1751, 1751-V, 1760, 1701	Cisco 1700 Series, Cisco IOS Software IP BASE	c1700-ipbase-mz	S17IPB-12307XR	16 MB	64 MB	
			S17IPB-12307XR=			
Cisco 1721, 1751, 1751-V, 1760, 1701	Cisco 1700 Series, Cisco IOS Software ENTERPRISE BASE	c1700-entbase-mz	S17EB-12307XR	16 MB	64 MB	
			S17EB-12307XR=			
Cisco 1721, 1751, 1751-V, 1760, 1701, 1711, 1712	Cisco 1700 Series, Cisco IOS Software ADVANCED SECURITY	c1700-advsecurityk9-mz	S17ASK9-12307XR	16 MB	64 MB	
			S17ASK9-12307XR=			
Cisco 1751, 1751-V, 1760	Cisco 1700 Series, Cisco IOS Software IP VOICE	c1700-ipvoice-mz	S17IPV-12307XR	32 MB	96 MB	
			S17IPV-12307XR=			
Cisco 1711, 1712 1721, 1751, 1751-V, 1760, 1701	Cisco 1700 Series, Cisco IOS Software ADVANCED IP SERVICES	c1700-advipservicesk9-mz	S17AISK9-12307XR	32 MB	96 MB	
			S17AISK9-12307XR=			
Cisco 1721, 1751, 1751-V, 1760, 1701	Cisco 1700 Series, Cisco IOS Software ENTERPRISE SERVICES	C1700-entservicesk9-mz	S17ESK9-12307XR	32 MB	96 MB	
			S17ESK9-12307XR=			
Cisco 1721, 1751, 1751-V, 1760, 1701	Cisco 1700 Series, Cisco IOS Software SP SERVICES	C1700-spservicesk9-mz	S17SPSK9-12307XR	32 MB	96 MB	
			S17SPSK9-12307XR=			
Cisco 1721, 1751, 1751-V,	Cisco 1700 Series, Cisco IOS	c1700-adventerprisek9-mz	S17AESK9-12307XR	32 MB	128 MB	



1760, 1701, 1711, 1712	Software ADVANCED ENTERPRISE SERVICES		S17AESK9-12307XR=		
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Cisco 1710 Series Legacy Images				Recommended Memory	
Platform	Software Product Description	Image File Name	Part Number	Flash	DRAM
Cisco 1710	Cisco 1710 Series, Cisco IOS Software IP/Firewall/IDS PLUS IPSEC 3DES	C1710-k9o3sy-mz	S171CHK9-12307XR	16 MB	64 MB
			S171CHK9-12307XR=		
Cisco 1710	Cisco 1710 Series, Cisco IOS Software IP/IPX/AT/IBM/Firewall/IDS PLUS IPSEC 3DES	C1710-bk9no3r2sy-mz	S171QHK9-12307XR	16 MB	96 MB
			S171QHK9-12307XR=		

## DOWNLOAD INFORMATION

Customers can download Cisco IOS Software Release 12.3(8)XX from the Cisco software image library, at: <http://www.cisco.com>

## FOR MORE INFORMATION

For more information about the Cisco 1700 Series, contact your local account representative or visit: <http://www.cisco.com/go/1700>

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