

Cisco IOS Software Release 12.2(15)ZN

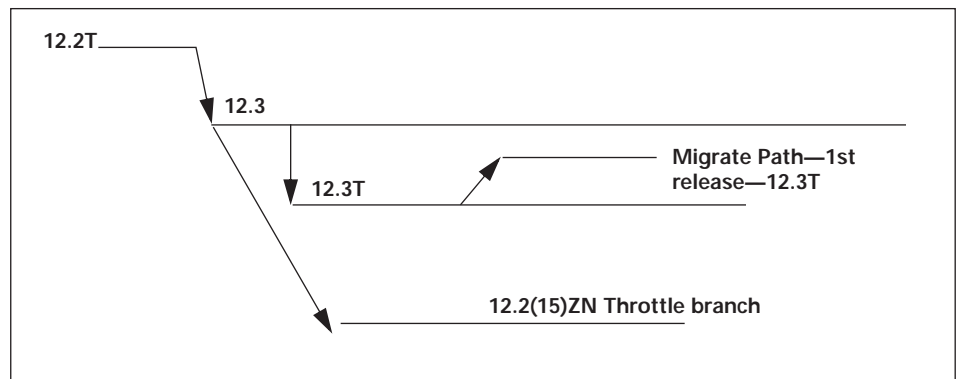
This product bulletin describes the content and delivery information about Cisco IOS® Software Release 12.2(15)ZN. It should be used in conjunction with the product bulletin titled Cisco IOS Software Release 12.3T. Release 12.2(15)ZN is a short-lived early-deployment release which will be later supported in the first release of 12.3T and it is supporting the Cisco 1700 Series routers (Cisco 1710, Cisco 1721, Cisco 1751, Cisco 1751-V, Cisco 1760) and Cisco 7400 Series routers (Cisco 7401).

The platform and features delivered with this early-deployment release with a Cisco.com date of May 1, 2003, will be immediately incorporated into the first release of Cisco IOS Software Release 12.3T. The date for the availability of the first release of the 12.3T train is July 28, 2003 [Note: This indicated date might be subject to change].

In addition to the details of the supported features described in this product bulletin, see also the Cisco IOS Release Notes for the 12.2(15)ZN release.

Customers should prepare to upgrade using the migration path as shown in Figure 1.

Figure 1:
Cisco IOS Release 12.2(15)ZN Release Train and Migration Guide



New Features in Cisco IOS Release 12.2(15)ZN

Table 1 gives the features that will be delivered in Release 12.2(15)ZN.

Table 1 Cisco IOS Software Release 12.2(15)ZN New Features

New Features	Cisco 1710	Cisco 1720	Cisco 1721	Cisco 1751	Cisco 1751-V	Cisco 1760	Cisco 7401
New Software Feature							
Layer 2 Tunnel Protocol Version 3	X	X	X	X	X	X	X



Detailed Information

New Software Features

Layer 2 Tunnel Protocol Version 3

- Supported Cisco 1700 Series platforms: Cisco 1710, 1720, 1721, 1751, 1751-V, 1760; supported in all IP PLUS images in 12.2(15)ZN (all s images)
- Supported Cisco 7000 platforms: Cisco 7401; supported in all IP images in 12.2(15)ZN (all is images)

The Layer 2 Tunnel Protocol Version 3 feature expands on Cisco support of the Layer 2 Tunnel Protocol Version 3 (L2TPv3). Previous Cisco IOS releases contained only limited support of L2TPv3. This special release 12.2(15)ZN introduces L2TPv3 control plane support and new commands for configuring both static and dynamic L2TPv3 sessions.

L2TPv3 is an Internet Engineering Task Force (IETF) l2tpext working group draft that provides several enhancements to L2TP for the capability to tunnel any Layer 2 payload over L2TP. Specifically, L2TPv3 defines the L2TP protocol for tunneling Layer 2 payloads over an IP core network using Layer 2 VPNs.

L2TP has to two fundamental parts:

- A control plane responsible for setting up the connection
- A data plane responsible for tunneling Layer 2 frames

L2TPv3 signaling is responsible for negotiating control plane parameters, session IDs and cookies; for performing authentication; and for exchanging configuration parameters. L2TPv3 is also used to reliably deliver hello messages and circuit status messages. These messages are critical to support circuit interworking, such as the local management interface (LMI), and to monitor the remote circuit status.

For more information about L2TPv3, refer to

http://www.cisco.com/warp/public/cc/pd/iosw/prodlit/l2tun_ds.htm

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios120/120newft/120limit/120s/120s25/l2tpv325.htm>

http://www.cisco.com/en/US/products/sw/iosswrel/ps5207/products_feature_guide09186a00801a756b.html

Product Numbers

Please note—For the 12.2(15)ZN release, the following images will be posted on Cisco.com (see Table 2).

Table 2 Posted Images on Cisco.com for Cisco IOS Release 12.2(15)ZN

Platform	Feature Set	Image Name	Image	Recommended Memory		
				Flash	DRAM	Runs from
Cisco 1710	IP/IPX/AT/IBM/	Cisco 1710 IOS	c1710-bk9no3r2	16 MB	64 MB	RAM
	FW/IDS PLUS	IP/IPX/AT/IBM/	sy-mz			
	IPSEC 3DES	FW/IDS PLUS				
		IPSEC 3DES				



Table 2 Posted Images on Cisco.com for Cisco IOS Release 12.2(15)ZN (Continued)

Platform	Feature Set	Image Name	Image	Recommended Memory		
				Flash	DRAM	Runs from
Cisco 1710	IP/FW/IDS PLUS IPSEC 3DES	Cisco 1710 IOS IP/FW/IDS PLUS IPSEC 3DES	c1710-k9o3sy-mz	16 MB	64 MB	RAM
Cisco 1720/ 1721/1751/ 1751-V/1760	IP PLUS	Cisco 1700 IOS IP PLUS	c1700-sy-mz	16 MB	48 MB	RAM
Cisco 1721/ 1751/1751-V/ 1760	IP/ADSL PLUS IPSEC 3DES	Cisco 1700 IOS IP/ADSL PLUS IPSEC 3DES	c1700-k9sy7-mz	16 MB	64 MB	RAM
Cisco 1721/ 1751/1751-V/ 1760	IP/ADSL/FW/IDS PLUS IPSEC 3DES	Cisco 1700 IOS IP/ADSL/FW/IDS PLUS IPSEC 3DES	c1700-k9o3sy7-mz	16 MB	64 MB	RAM
Cisco 7401	IP	Cisco 7400 Series IOS IP	C7400-is-mz	64 MB	128 MB	RAM
Cisco 7401	IP/FW/IDS IPSEC 3DES	Cisco 7400 Series IOS IP/ FW/IDS IPSEC 3DES	C7400-ik9o3s-mz	64 MB	128 MB	RAM
Cisco 7401	IP PLUS IPSEC 3DES	Cisco 7400 Series IOS IP PLUS IPSEC 3DES	C7400-ik9s-mz	64 MB	128 MB	RAM

Download Information

Cisco IOS Release 12.2(15)ZN Software can be downloaded from Cisco.com in the Software Image Library. Please note: Release 12.2(15)ZN is a release with limited availability. Prior to downloading, please contact Tuan Pham, Cisco Marketing, at tuapham@cisco.com.



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