

Cisco IOS Software Release 12.2(4)XW



Introduction

This product bulletin describes the survivable-remote-site-telephony (SRST) feature introduced in Cisco IOS[®] Software Release 12.2(4)XW for the Cisco 175x modular access routers.

New Features

The SRST feature provides the Cisco CallManager with fallback support for the Cisco IP phones attached to the router on your local Ethernet. It is currently supported on the Cisco 2600, 3600, 3810, IAD 2400, and Catalyst[®] 4224 platforms. With 12.2(4)XW, the SRST feature is introduced to the Cisco 175x Series routers.

Prior to SRST, when the WAN connection between the remote branch-office router and the Cisco CallManager failed, or connectivity with the Cisco CallManager was lost for some other reason, the Cisco IP phones at the branch office became unusable for the duration of the failure. SRST was developed to overcome this problem. The feature provides call-handling support on the branch-office router for its attached Cisco IP phones when a failure occurs. The system automatically detects the failure, and using Simple Network Auto-Provisioning (SNAP) technology, auto-configures the branch-office router to provide call-processing service for the local IP phones. When the failure is restored, call-handling capabilities for the Cisco IP phones switch back to the primary Cisco CallManager. During a failure, the Cisco IP Phone displays a message to inform the user that the Cisco IP Phone is in the Cisco CallManager fallback mode and is able to perform a limited set of functions.

By providing SRST features on the Cisco 175x routers, Cisco is reducing the likelihood of voice-service disruption, giving its customers the confidence to deploy multiservice e-business applications that will enhance employee productivity and reduce costs.



The SRST provides the following features on the Cisco 175x:

- Rehomeing of IP phones to a local router when WAN failures occur
- Maintenance of local extension-to-extension calls
- Maintenance of extension-to-Public Switched Telephone Network (PSTN) calls
- Maintenance of existing calls upon recovery
- Support for IP and basic-telephone-service (POTS) phones
- Speed dial and last-number redial
- Direct-outward-dial calling
- Direct-inward-dial calling
- Caller ID and automatic-number-identification (ANI) support
- Calling-party name
- Distinctive ringing
- Transfer (without consult)
- Call hold and pickup
- Call park and retrieve
- Call waiting
- Up to six lines per phone
- Up to 24 phones and 48 line appearances per system

SRST is supported in one image set IP/VOX PLUS for the Cisco 1750, and it is supported in all image sets containing VOX for the Cisco 1751. For details, refer to “Product Numbers and Descriptions” section.

Detailed Information

For more detailed information about the SRST feature with Cisco IOS Software Release 12.2(4)XW, reference the following document:

Release Notes for Cisco 1700 Series Platforms for Cisco IOS Software Release 12.2(4) XW at:

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122relnt/1700/rn1700xw.htm>

Maintenance Support

Maintenance for the SRST feature on the Cisco 1700 will be available on future 12.2X special releases until the code is incorporated into the fourth maintenance software release of 12.2T.

Life Span

Cisco IOS Software Release 12.2(4)XW will be sold until the fourth maintenance release of Cisco IOS Software Release 12.2T.

Supported Hardware Platforms

Cisco IOS Software Release 12.2(4)XW supports the Cisco 1750 and the Cisco 1751 Modular Access Router.

Product Numbers and Descriptions

Images are available for downloading from Cisco.com as of November.19, 2001.



First customer shipment (FCS) is on December 3, 2001. Table 1 gives product numbers and descriptions.

Table 1 Product Numbers and Descriptions

Platform	Software Product Description	Software Image	Product Code	Support of SRST	Minimum Flash Memory	Minimum DRAM Memory
Cisco 1750/1751	Cisco 1700 Cisco IOS IP/ADSL/IP/AT/IBM/Voice/FW/IDS Plus IPsec 56 *	c1700-bk8no3r2sv3y7-mz	S17Q7HVK8-12204XW S17Q7HVK8-12204XW =	No	32 MB	64 MB
Cisco 1751	Cisco 1700 IOS IP/ADSL/IPX/AT/IBM/VOX/FW/IDS Plus IPsec 56 **	c1700-bk8no3r2sv8y7-mz	S17Q7V8K8-12204XW S17Q7V8K8-12204XW =	Yes	32 MB	64 MB
Cisco 1720/1750/1751	Cisco 1700 IOS IP/ADSL/IPX/AT/IBM/FW/IDS Plus IPsec 56	c1700-bk8no3r2sy7-mz	S17Q7HK8-12204XW S17Q7HK8-12204XW =	No	16 MB	48 MB
Cisco 1750/1751	Cisco 1700 IOS IP/ADSL/IPX/AT/IBM/Voice/FW/IDS Plus IPsec 3DES	c1700-bk9no3r2sv3y7-mz	S17Q7HVK9-12204XW S17Q7HVK9-12204XW =	No	32 MB	64 MB
Cisco 1751	Cisco 1700 IOS IP/ADSL/IPX/AT/IBM/VOX/FW/IDS Plus IPsec 3DES	c1700-bk9no3r2sv8y7-mz	S17Q7V8K9-12204XW S17Q7V8K9-12204XW =	Yes	32 MB	64 MB
Cisco 1720/1750/1751	Cisco 1700 IOS IP/ADSL/IPX/AT/IBM/FW/IDS Plus IPsec 3DES	c1700-bk9no3r2sy7-mz	S17Q7HK9-12204XW S17Q7HK9-12204XW =	No	16 MB	48 MB
Cisco 1720/1750/1751	Cisco 1700 IOS IP/ADSL/IPX/AT/IBM Plus	c1700-bnr2sy7-mz	S17Q7P-12204XW S17Q7P-12204XW =	No	16 MB	48 MB
Cisco 1720/1750/1751	Cisco 1700 IOS IP/IPX/AT/IBM	c1700-bnr2y-mz	S17Q-12204XW S17Q-12204XW =	No	8 MB	32 MB
Cisco 1750/1751	Cisco 1700 IOS IP/ADSL/Voice/FW/IDS Plus IPsec 56	c1700-k8o3sv3y7-mz	S17C7HVK8-12204XW S17C7HVK8-12204XW =	No	16 MB	48 MB
Cisco 1751	Cisco 1700 IOS IP/ADSL/VOX/FW/IDS Plus IPsec 56	c1700-k8o3sv8y7-mz	S17C7V8K8-12204XW S17C7V8K8-12204XW =	Yes	16 MB	64 MB
Cisco 1720/1750/1751	Cisco 1700 IOS IP/ADSL/FW/IDS Plus IPsec 56	c1700-k8o3sy7-mz	S17C7HK8-12204XW S17C7HK8-12204XW =	No	16 MB	48 MB
Cisco 1750/1751	Cisco 1700 IOS IP/ADSL/Voice Plus IPsec 56	c1700-k8sv3y7-mz	S17C7VK8-12204XW S17C7VK8-12204XW =	No	16 MB	48 MB
Cisco 1751	Cisco 1700 IOS IP/ADSL/VOX Plus IPsec 56	c1700-k8sv8y7-mz	S17-12204XW S17-12204XW=	Yes	16 MB	64 MB
Cisco 1720/1750/1751	Cisco 1700 IOS IP/Plus IPsec 56	c1700-k8sy7-mz	S17C7K8-12204XW S17C7K8-12204XW =	No	16 MB	48 MB
Cisco 1750/1751	Cisco 1700 IOS IP/ADSL/Voice/FW/IDS Plus IPsec 3DES	c1700-k9o3sv3y7-mz	S17C7HVK9-12204XW S17C7HVK9-12204XW =	No	16 MB	48 MB



Table 1 Product Numbers and Descriptions (Continued)

Platform	Software Product Description	Software Image	Product Code	Support of SRST	Minimum Flash Memory	Minimum DRAM Memory
Cisco 1751	Cisco 1700 IOS IP/ADSL/VOX/FW/IDS Plus IPsec 3DES	c1700-k9o3sv8y7-mz	S17C7V8K9-12204XW S17C7V8K9-12204XW =	Yes	16 MB	64 MB
Cisco 1720/1750/1751	Cisco 1700 IOS IP/ADSL/FW/IDS Plus IPsec 3DES	c1700-k9o3sy7-mz	S17C7HK9-12204XW S17C7HK9-12204XW =	No	16 MB	48 MB
Cisco 1750/1751	Cisco 1700 IOS IP/ADSL/Voice Plus IPsec 3DES	c1700-k9sv3y7-mz	S17C7VK9-12204XW S17C7VK9-12204XW =	No	16 MB	48 MB
Cisco 1751	Cisco 1700 IOS IP/ADSL/VOX Plus IPsec 3DES	c1700-k9sv8y7-mz	S17CV8K9-12204XW S17CV8K9-12204XW =	Yes	16 MB	64 MB
Cisco 1720/1750/1751	Cisco 1700 IOS IP/ADSL Plus IPsec 3DES	c1700-k9sy7-mz	S17C7K9-12204XW S17C7K9-12204XW =	No	16 MB	48 MB
Cisco 1750/1751	Cisco 1700 IOS IP/ADSL/IPX/Voice/FW/IDS Plus	c1700-no3sv3y7-mz	S17B7HPV-12204XW S17B7HPV-12204XW =	No	16 MB	48 MB
Cisco 1751	Cisco 1700 IOS IP/ADSL/IPX/VOX/FW/IDS Plus	c1700-no3sv8y7-mz	S17B7HPV8-12204XW S17B7HPV8-12204XW =	Yes	16 MB	64 MB
Cisco 1720/1750/1751	Cisco 1700 IOS IP/ADSL/IPX/FW/IDS Plus	c1700-no3sy7-mz	S17B7HP-12204XW S17B7HP-12204XW =	No	16 MB	48 MB
Cisco 1720/1750/1751	Cisco 1700 IOS IP/IPX	c1700-ny-mz	S17B-12204XW S17B-12204XW =	No	8 MB	32 MB
Cisco 1750/1751	Cisco 1700 IOS IP/ADSL/Voice/FW/IDS Plus	c1700-o3sv3y7-mz	S17C7HV-12204XW S17C7HV-12204XW =	No	16 MB	48 MB
Cisco 1751	Cisco 1700 IOS IP/ADSL/VOX/FW/IDS Plus	c1700-o3sv8y7-mz	S17C7HV8-12204XW S17C7HV8-12204XW =	Yes	16 MB	64 MB
Cisco 1720/1750/1751	Cisco 1700 IOS IP/FW/IDS	c1700-o3y-mz	S17CH-12204XW S17CH-12204XW =	No	8 MB	32 MB
Cisco 1750/1751	Cisco 1700 IOS IP/Voice Plus	c1700-sv3y-mz	S17CVP-12204XW S17CVP-12204XW =	No	16 MB	48 MB
Cisco 1750/1751	Cisco 1700 IOS IP/ADSL/Voice Plus	c1700-sv3y7-mz	S17C7VP-12204XW S17C7VP-12204XW =	No	16 MB	48 MB
Cisco 1750/1751	Cisco 1700 IOS IP/VOX Plus	c1700-sv8y-mz	S17CV8P-12204XW S17CV8P-12204XW =	Yes	16 MB	48 MB
Cisco 1751	Cisco 1700 IOS IP/ADSL/VOX Plus	c1700-sv8y7-mz	S17C7V8P-12204XW S17C7V8P-12204XW =	Yes	16 MB	64 MB
Cisco 1720/1750/1751	Cisco 1700 IOS IP/ADSL Plus	c1700-sy7-mz	S17C7P-12204XW S17C7P-12204XW =	No	8 MB	48 MB

Table 1 Product Numbers and Descriptions (Continued)

Platform	Software Product Description	Software Image	Product Code	Support of SRST	Minimum Flash Memory	Minimum DRAM Memory
Cisco 1720/1750/1751	Cisco 1700 IOS IP	c1700-y-mz	S17C-12204XW S17C-12204XW =	No	8 MB	32 MB
Cisco 1720/1750/1751	Cisco 1700 IOS IP/ADSL	c1700-y7-mz	S17C7-12204XW S17C7-12204XW =	No	8 MB	32 MB

*Asymmetric Digital Subscriber Line (ASDL), Apple Talk (AT), Firewall (FW), Intrusion Detection System (IDS), IP Security (IPSec), Triple Digital Encryption Standard (3DES)

**Voice Entended Features (VOX)



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