

Cisco IOS Software Release 12.0(7)XV

Introduction

This product bulletin describes the new features introduced in Cisco IOS® software Release 12.0(7)XV. This bulletin should be used in conjunction with Product Bulletin #537, Cisco IOS Software Release Process.

New Features

Release 12.0(7)XV is an Early Deployment (ED) release. This release delivers support for Remote Common ISDN Application Programming Interface (RCAPI) on the Cisco 801 and Cisco 803 models. Now customers can use Cisco 800 series routers to access popular European Internet and telematic services such as faxing, file transfer, and online banking.

With Common Application Programming Interface (CAPI) support, the Cisco 800 series offers shared access to Integrated Services Digital Network (ISDN) lines for applications such as:

- Electronic banking and online shopping with Deutsche Telecom's T-Online
- Personal communication applications such as Symantec's WinFax PRO
- Internet service providers such as T-Online, CompuServe, and AOL

The features delivered with this ED release will be immediately incorporated into the 12.1(2)T release. As such, maintenance for these features should be obtained from the 12.1T release. For more information about the Cisco IOS software release process, please see Product Bulletin #537.

Detailed Information

Release 12.0(7)XV Delivers Support for RCAPI

The CAPI is an application programming interface standard used to access ISDN equipment connected to Basic Rate Interfaces (BRIs) and Primary Rate Interfaces (PRIs). RCAPI is the CAPI feature configured remotely from a PC client.

The framing protocols supported by CAPI include High-Level Data Link Control (HDLC), HDLC inverted, bit transparent (speech), and V.110 synchronous/asynchronous.

CAPI integrates the following data link and network layer protocols:

- Link Access Procedure on the D-channel (LAPD) in accordance with Q.921 for X.25 D-channel implementation
- Point-to-Point Protocol (PPP)
- ISO 8208 (X.25 DTE-DTE)
- X.25 DCE, T.90NL, and T.30 (fax group 3)

CAPI supports the following features:

- Basic call features, such as call setup and tear-down
- Multiple B channels for data and voice connections
- Multiple logical data link connections within a physical connection
- Selection of different services and protocols during connection setup and on answering incoming calls
- Transparent interface for protocols above Layer 3
- One or more BRIs as well as PRI on one or more ISDN adapters
- Multiple applications
- Operating-systems-independent messages
- Operating-system-dependent exchange mechanism for optimum operating system integration
- Asynchronous event driven mechanism, resulting in high throughput
- Well defined mechanism for manufacturer specific extensions
- Multiple supplementary services

For more detailed information about the platforms and features being delivered in Release 12.0(7)XV, please reference the following document:

- Release Notes for Cisco 800 Series for Cisco IOS Release 12.0(7)XV
- Life span
- 12.0(7)XV will be sold until Cisco IOS Software 12.1(2)T is released.
- Support
- Cisco IOS Software 12.0(7)XV is supported by the Cisco Systems Product Support Policy.
- Supported Hardware Platforms
- Cisco IOS Software release 12.0(7)XV supports the following platforms:
 - Cisco 801, Cisco 802, Cisco 803, Cisco 804
 - Product Numbers and Descriptions

Cisco IOS Software Release 12.0(7)XV can be ordered using the following product numbers.

| Feature Name | Product Code | Software Image | Required Flash Memory | Required DRAM Memory | Runs From |
|------------------------|----------------|------------------|-----------------------|----------------------|-----------|
| IP | S8C-12.0.7XV | c800-y6-mw | 8 MB | 4 MB | RAM |
| IP Plus | S8CP-12.0.7XV | c800-sy6-mw | 8 MB | 4 MB | RAM |
| IP/IPX Plus | S8BP-12.0.7XV | c800-nsy6-mw | 8 MB | 4 MB | RAM |
| IP/Firewall | S8CH-12.0.7XV | c800-oy6-mw | 8 MB | 4 MB | RAM |
| IP/Firewall Plus | S8CHP-12.0.7XV | c800-osy6-mw | 8 MB | 4 MB | RAM |
| IP/FW/Plus/IPSEC56 | S8CHL-12.0.7XV | c800-osy656i-mw | 8 MB | 8 MB | RAM |
| IP/IPX/FW/IPSEC56/Plus | S8BHL-12.0.7XV | c800-nosy656i-mw | 8 MB | 8 MB | RAM |



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