


Cisco IOS Software Release 12.0(21)SX on Cisco 10000 Series



This product bulletin describes new features introduced in Cisco IOS Software Release 12.0(21)SX for the Cisco 10000 series next generation Internet Router.

- It will run only on PRE1 (P10 image only)
- It will have feature parity with 12.0(21)ST
- It is a one off release to meet time to market/customer commitments

Overview

This product bulletin describes Cisco IOS Release 12.0(21)SX, which will offer E1 support for the 24-port E1/T1 copper module, and platform MIB enhancements. The release will be classed as an "limited availability" until Cisco IOS Release 12.0(22)S is posted later in the year. Customers will be expected to upgrade to Release 12.0(22)S for any bug fixes found in the SX release. This release is scheduled to post in late February 2002, and it will include full TAC support.

New Features in Cisco IOS Software Release 12.0(21)SX

The following features and improvements are supported in Cisco IOS Release 12.0(21)SX:

E1 Support for 24-port E1/T1 Copper Module

The software will introduce channelized E1 functionality for the new 24-port E1/T1 copper line card, which will ship late February 2002. The module is the latest in the series of line cards recently introduced on the Cisco 10000 series router and provides for aggregation of "low speed" (less than 2Mbps) leased lines. The module will greatly expand the utility of the Cisco 10000 series router by meeting the requirements of distributed or remote POP (point of presence) applications. Here the private line presentation and densities are very different from the centralized PoP applications.

Full feature support including T1 framing and high availability will be offered in the next maintenance release, Cisco IOS Release 12.0(22)S.

The part number and list price for this module is listed below:

ESR-24CE1T1 – 24-port E1/T1 copper Line Card, Global List Price \$35,000

MIB Enhancements

The Cisco 10000 series router enhanced management feature allows the router to be managed through the Simple Network Management Protocol (SNMP). The feature also expands the number of Management Information Bases (MIBs) included with the router.

Using the Cisco 10000 enhanced management feature, you can:

- Use SNMP set and get requests to access information in Cisco 10000 MIBs
- Reduce the amount of time and system resources required to perform functions like inventory management and bulk data transfers

Other benefits include:

- A standards-based technology (SNMP) for monitoring faults and performance on the router
- Support for all SNMP versions (SNMPv1, SNMPv2c, and SNMPv3)
- Notification of faults, alarms, and conditions that might affect services
- The ability to aggregate fault and alarm information for multiple entities
- A way to access router information other than through the command line interface (CLI)

MIBs Supported by Cisco IOS Release

To determine which MIBs are included in the Cisco IOS release running on the Cisco 10000 series ESR:

Step 1. Go to the Feature Navigator home page (<http://tools.cisco.com/TTDIT/CFN/jsp/index.jsp>).

Step 2. In the left column, click MIB Locator.

Step 3. Enter your username and password when prompted.

Step 4. For Platform Family, select 10000. If you select the platform first, the system displays only those releases and feature sets that apply to the Cisco 10000 series ESR.

Step 5. For Feature Set, select Edge Services Router.

Step 6. For Release, select the Cisco IOS software release you are interested in. The system displays a list of MIBs included in the selected Cisco IOS release.

Step 7. See [Table 3-1](#) in the *Cisco 10000 Series ESR MIB Specifications Guide* to determine which MIBs are supported by the Cisco 10000 series ESR.

Detailed MIB Enhancement Information

For MIB specifications, implementation constraints and trap details, see the *Cisco 10000 Series ESR MIB Specifications Guide*

<http://www.cisco.com/univercd/cc/td/doc/product/aggr/10000/10kmibs/specgdl/index.htm>.

Download Information

Customers can download Cisco IOS Release 12.0(21)SX software from Cisco Connection Online (CCO) in the software image library:

http://www.cisco.com/cgi-bin/Software/iosplanner/Planner-tool/iosplanner.cgi?get_crypto=&data_from=&hardware_name=10000&software_name=&release_name=&majorRel=12.0&state=:HW

A sample Java applet (10kApplets.jar) for performing a bulk-file retrieval using MIBs is available at the Cisco FTP site:

<ftp://ftp-eng.cisco.com/auto/ftp/omega/cheops>

Additional Sources

For additional information on Cisco IOS software Release 12.0(21)SX, please refer to the following sources:

Release Notes for Cisco IOS Release 12.0(21)SX (located at the URL <http://www.cisco.com/univercd/cc/td/doc/product/aggr/10000/10krn/index.htm>)

Cisco 10000 Series ESR MIB Specifications Guide (<http://www.cisco.com/univercd/cc/td/doc/product/aggr/10000/10kmibs/specgdll/index.htm>)



Corporate Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA

www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters
Cisco Systems Europe
11, Rue Camille Desmoulins
92782 Issy-les-Moulineaux
Cedex 9
France

www-europe.cisco.com
Tel: 33 1 58 04 60 00
Fax: 33 1 58 04 61 00

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA

www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters
Cisco Systems Australia, Pty., Ltd
Level 9, 80 Pacific Highway
P.O. Box 469
North Sydney
NSW 2060 Australia

www.cisco.com
Tel: +61 2 8448 7100
Fax: +61 2 9957 4350

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