



Overview of Cisco EPOM

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Cisco EPOM Features

Cisco Extensible Provisioning and Operations Manager (Cisco EPOM) is a web-based application for real-time provisioning of the Cisco BTS 10200 Softswitch that allows authorized users to Show, Add, Edit, Delete, and check the status of Cisco BTS 10200 components.

The provisioning of tasks in Cisco EPOM generally match the tasks done by using Cisco BTS 10200 Softswitch CLI or MAC interface, but the tasks are done through a web-browser interface. Common multi step procedures are simplified by being grouped into tasks that are done by task wizards.

Authorized Cisco EPOM administrators set up and manage the Cisco EPOM server software and perform Cisco EPOM user administration and network setup tasks:

- Start and stop the Cisco EPOM web server software. (See the [“Starting Cisco EPOM”](#) section on [page 2-7](#).)
- Configure EPOM user authentication using a separate RADIUS server. (See the [“Configuring EPOM Authentication Using a Separate RADIUS Server”](#) section on [page 2-5](#)
- Configure SSL (Secure Socket Layer) Corba properties and certificates for secure Corba communication between Cisco EPOM and Cisco BTS 10200. (See the [“Configuring SSL Corba for Secure Communication Between Cisco EPOM and Cisco BTS 10200”](#) section on [page 2-6](#)
- Configure BTS and EPOM users using Security Wizard. (See the [“Configuring BTS and EPOM users using Security Wizard”](#) section on [page 2-9](#)
- Add, Edit, and Delete users, user groups, and domains. (See the [“Adding Domains, Groups, and Users”](#) section on [page 3-12](#).)
- Assign users to groups. (See the [“Adding Users and Assigning Them to Groups”](#) section on [page 3-15](#).)
- Assign domain access (either read/write or read only) to groups. (See the [“Adding Groups and Assigning Them to Domains”](#) section on [page 3-14](#).)

- Assign a Cisco BTS login to a Cisco EPOM group. This restricts a Cisco EPOM user's access to that of the assigned Cisco BTS user login. (See the [“Setting Up Cisco EPOM Security”](#) section on page 6-2.)
- Set up the network initially. (See the [“Setting Up a Network”](#) section on page 3-11.)
- Show, Add, Edit, and Delete single or multiple Cisco BTS 10200 devices. (See the [“Bulk Command Provisioning”](#) section on page 4-12.)
- Check boxes in the Edit page of EPOM GUI windows. Edit page will be initially loaded with invisible check boxes. They become visible only when you select a field to update it. (See [“Editing a Component in the Cisco BTS 10200 Configuration”](#) section on page 4-9)
- Set up custom navigation trees. (See the [“Creating Custom Navigation Trees”](#) section on page 6-3.)
- Create custom provisioning flows. (See the [“Customizing Cisco EPOM Provisioning Flows”](#) section on page 5-5.)
- View reports and download them to a Cisco BTS EMS server. (See the [“Viewing Reports”](#) section on page 7-1.)
- Manage EPOM BTS Corba Cache using Online Cache Management. [“Managing Cisco EPOM Corba Cache”](#) section on page 3-18
- Import and export Cisco BTS configurations over secure connections. [“BTS Export”](#) section on page 8-7
- Troubleshoot problems. See [Chapter 9, “Troubleshooting Cisco EPOM.”](#)

Cisco EPOM Database

The Cisco EPOM database maintains Cisco EPOM administrative data (users, groups, and domains) and the inventory of Cisco BTS 10200 devices.

Device-level information (such as subscribers, subscriber features, and communication with media gateways) is retrieved from the Cisco BTS EMS server devices in real time, and is not stored in the Cisco EPOM database.

Cisco EPOM Server Requirements

Platform requirements for Cisco EPOM 4.5 are:

- Cisco EPOM Server supporting 5 simultaneous client and 5 BTS servers
 - Sun workstation (440 MHz or more)
 - 1 GB RAM
 - 2 GB disk space
 - Sun Solaris 8 or Solaris 10 operating system
- Cisco EPOM Server supporting 20 simultaneous client and 10 BTS servers
 - Sun Ultra-60 workstation (440 MHz or faster, dual processor)
 - 2 GB RAM
 - 4 GB disk space
 - Sun Solaris 8 or Solaris 10 operating system

**Note**

EPOM cannot be installed along with BTS EMS. The Solaris jumpstart image for BTS EMS does not contain all the required packages for EPOM installation.

Default Port Assignments

Following are the default port assignments.

**Note**

You can change these port assignments during installation. See the “[Accessing Cisco EPOM](#)” section on page 2-8.

- MySQL port is 3310.
- Tomcat non-secure port is 8080.
- Tomcat secure port is 443.
- Tomcat shutdown port is 8041.

Cisco EPOM Client Requirements

For Windows

For Windows the Cisco EPOM Client requirements are:

- Microsoft Internet Explorer, Version 5.5 or higher.
- Netscape 6.2 or higher.

For Solaris

For Solaris you need Mozilla 1.1 or higher .

You can download Mozilla from <http://www.sun.com/software/solaris/browser>

If you try to access Cisco EPOM with unsupported web browser versions, an error message appears.

Cisco BTS 10200 Server Requirements

Following are the Cisco BTS 10200 Server requirements:

- Cisco BTS10200 EMS Server 4.5.0
Or
- Cisco BTS10200 EMS Server 4.4.1
Or
- Cisco BTS 10200 EMS Server 4.4.0
Or

- Cisco BTS 10200 EMS Server 4.2.x
Or
- Cisco BTS 10200 EMS Server 4.1.x
Or
- Cisco BTS 10200 EMS Server 3.5.x
Or
- Cisco BTSC is software package

Cisco BTS 10200 4.5 and Cisco EPOM 4.5 Compatibility

The following table lists the compatibility among the various release of Cisco BTS and Cisco EPOM:

Cisco BTS 10200 Release Number	Cisco EPOM Release Number
Cisco BTS 3.2	Cisco EPOM 1.1
Cisco BTS 3.3	Cisco EPOM 1.3
Cisco BTS 3.5.x with Visigenics CORBA	Cisco EPOM 1.3
Cisco BTS 3.5.x with Non Secure OpenOrb CORBA	Cisco EPOM 1.5
Cisco BTS 4.1.0 with Non Secure OpenOrb CORBA	Cisco EPOM 2.1
Cisco BTS 4.2.0 with Non Secure OpenOrb CORBA	Cisco EPOM 4.2(0)
Cisco BTS 4.4.0 with Secure or Non Secure OpenOrb CORBA	Cisco EPOM 4.4(0)
Cisco BTS 4.4.1 with Secure or Non Secure OpenOrb CORBA	Cisco EPOM 4.4(1)
Cisco BTS 4.5.0 with Secure or Non Secure OpenOrb CORBA	Cisco EPOM 4.5

You must use only compatible EPOM and BTS releases.

External RADIUS Server Requirements

Any platform capable of running Radius IETF (International Engineering Task Force).

Radius software must implement RADIUS IETF protocol.