



Cisco BTS 10200 Softswitch GigE Support Feature Module

Revised: July 31, 2008

This document describes the Gigabyte Ethernet (GigE) Support provisioning for Release 6.0(1) of the Cisco BTS 10200 Softswitch and explains how to use it.

Purpose

The purpose of implementing the GigE Support Feature Module provisioning is to increase the bandwidth between the network switches and the Cisco BTS 10200 from 100 Mbps to 1000 Mbps.

GigE Support Provisioning

This document describes the steps needed to enable GigE support on the UNIX hosts of the Cisco BTS 10200 Softswitch. Use this procedure only after you upgrade to Cisco BTS 10200 Release 6.0(1) or later.



Caution

This is not an upgrade procedure. Performing the steps in this procedure will bring the Cisco BTS 10200 down on one side with temporary loss of redundancy. Do not start this procedure unless you have authorization from your supervisor. If you have questions, contact Cisco Technical Assistance Center (TAC).



Caution

Perform this procedure on one UNIX host at a time.



Caution

This procedure should be executed by a person very familiar with the operation and administration of the Cisco BTS 10200 and 29xx switches as well as the network and cabling of the Cisco BTS 10200.



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

© 2008 Cisco Systems, Inc. All rights reserved.

FINAL REVIEW DRAFT - CISCO CONFIDENTIAL

Prerequisites

1. The Cisco BTS 10200 Softswitch Release 6.0(1) must already be installed.
2. The BTS 10200 UNIX host must have network interfaces capable of running at GigE speed (1000 Mbps).

Provisioning the GigE Interface

For each host in Cisco BTS 10200, perform the following steps:

-
- Step 1** Ensure that the targeted Cisco BTS 10200 applications are operating in standby mode. These applications include the Call Agent (CA), the Feature Server for POTS, Tandem, and Centrex services (FSPTC), the Feature Server for AIN services (FSAIN), the Element Management System (EMS), and the Bulk Data Management System (BDMS). If necessary, perform a switchover to ensure this is the case.
- Step 2** Use the **platform stop all** command to stop the targeted Cisco BTS 10200 applications running on the UNIX host.
- Step 3** Identify and note the Ethernet ports on the 29xx switches that connect to the Cisco BTS 10200 UNIX host.
- Step 4** Modify the configuration of the switch ports connected to the Cisco BTS 10200 UNIX host to auto negotiate. To do so, first log in to the 29xx switch through console access, change to the switch port, and modify the speed and duplex mode settings on each port using the following commands:
- ```
no speed 100
no duplex full
shut
no shut
```
- Step 5** Save the switch configuration.
- Step 6** Reboot the Cisco BTS 10200 host using the **shutdown -g0 -y -i6** command. We recommend that you execute the **shutdown** command using the console port to avoid loss of connectivity during the reboot. After the reboot, all the targeted Cisco BTS 10200 applications should automatically restart and go into standby state.
- Step 7** Verify interface speed and duplex mode by executing the following command on the host:
- ```
dladm show-dev
```

Example output:

```
ca102> dladm show-dev
bge0 link: up speed: 1000 Mbps duplex: full
bge1 link: up speed: 1000 Mbps duplex: full
bge2 link: up speed: 1000 Mbps duplex: full
bge3 link: up speed: 1000 Mbps duplex: full
```

- Step 8** Repeat for the other UNIX hosts in the Cisco BTS 10200 system.
-

FINAL REVIEW DRAFT - CISCO CONFIDENTIAL

CCDE, CCENT, Cisco Eos, Cisco Lumin, Cisco Nexus, Cisco StadiumVision, Cisco TelePresence, the Cisco logo, DCE, and Welcome to the Human Network are trademarks; Changing the Way We Work, Live, Play, and Learn and Cisco Store are service marks; and Access Registrar, Aironet, AsyncOS, Bringing the Meeting To You, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, CCVP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Collaboration Without Limitation, EtherFast, EtherSwitch, Event Center, Fast Step, Follow Me Browsing, FormShare, GigaDrive, HomeLink, Internet Quotient, IOS, iPhone, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, iQuick Study, IronPort, the IronPort logo, LightStream, Linksys, MediaTone, MeetingPlace, MeetingPlace Chime Sound, MGX, Networkers, Networking Academy, Network Registrar, PCNow, PIX, PowerPanels, ProConnect, ScriptShare, SenderBase, SMARTnet, Spectrum Expert, StackWise, The Fastest Way to Increase Your Internet Quotient, TransPath, WebEx, and the WebEx logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0807R)

Copyright © 2008 Cisco Systems, Inc. All rights reserved.

FINAL REVIEW DRAFT - CISCO CONFIDENTIAL