



Installing

Getting Started with Installing

The goal of this process is to successfully install the required components for Cisco BLISS for Cable.

Before You Begin

Complete the [Planning](#) process, including identifying needed components and familiarizing yourself with all detailed product requirements and important concepts for the application that you are implementing. Have copies of the completed [Network Site Survey](#) and Network Information Data Sheet (NIDS) provided by Cisco for your specific system. If you would like to enter any parameters different from the values on these data sheets, contact Cisco TAC for an evaluation of the potential impact of the changes. Obtain Cisco TAC concurrence on any changes.

When You Are Done

Go on to the [Configuring](#) process.

Installation Tasks

Installation Concepts

Installation Tasks

Complete the following tasks to install and initially configure Cisco BLISS for Cable components.

Task	Details
Install and configure Broadband Access Center for Cable (BACC).	<p>The Cisco BACC Installation Guide for Release 2.5 provides instructions for installing and configuring BACC.</p> <p>The BACC Administrator's Guide for Release 2.6 provides information on configuring BACC and on PacketCable™ DHCP options to BACC properties mapping.</p> <p>Note DNS and DHCP must be configured before other solution components are installed, because those components will use DNS.</p>
Install the Cisco BTS 10200 Softswitch server hardware according to manufacturer recommendations.	<p>The Cisco BTS 10200 Softswitch requires four application servers (two for the Call Agent/Feature Server and two for the Element Management System/Bulk Data Management System).</p> <ul style="list-style-type: none"> • Small Platform Option—Requires four Sun Microsystems 240 hosts (Netra or Sunfire). • Medium Platform Option—Requires four Sun Microsystems 440 hosts (Netra or Sunfire). • Large Platform Option—Requires four Sun Microsystems 1280 hosts (Netra or Sunfire). <p>For more information about hardware requirements, see the Cisco BTS 10200 Softswitch Release Notes for Release 4.5.</p>
Install the power distribution unit (PDU) for AC or DC systems.	<p>The PDU and power strips can be ordered through Cisco.</p> <ul style="list-style-type: none"> • DC-powered systems require two (redundant) feeds of 40 A. The Cisco part number is BTS10200-DCPDU=. • AC-powered systems require two (redundant) circuits of 20 A. The Cisco part number is BTS10200-ACPDU=.
Install the terminal server according to manufacturer recommendations.	<p>You need one alarm panel or your own terminal server that allows for console login. The Cisco BTS 10200 Alarm Panel serves as a terminal server. For more information about hardware requirements, see the Cisco BTS 10200 Softswitch Release Notes for Release 4.5.</p>
Install the Cisco Catalyst 2950 switches.	<p>The Catalyst 2950 Switch Hardware Installation Guide provides instructions for installing the Catalyst 2950.</p>
Cable the Cisco BTS 10200 hardware to the Cisco Catalyst 2950 switches.	<p>The Cisco BTS 10200 Softswitch Cabling, VLAN, and IRDP Procedures document provides instructions for cabling the Cisco BTS 10200 hardware to the Cisco Catalyst 2950 hardware.</p>

Task	Details
Configure VLANs on the Catalyst 2950.	The <i>Cisco BTS 10200 Softswitch Cabling, VLAN, and IRDP Procedures</i> document provides instructions for setting up VLANs on Catalyst 2950 switches.
Enable Internet Control Message Protocol (ICMP) Router Discovery Protocol (IRDP) on the Cisco BTS 10200 Softswitch and on adjacent routers.	The <i>Cisco BTS 10200 Softswitch Cabling, VLAN, and IRDP Procedures</i> document provides instructions for enabling IRDP.
Jumpstart the Cisco BTS 10200 hardware to install the Sun operating system, file systems, and necessary patches to the Sun servers.	<i>Cisco BTS 10200 Softswitch CD Jumpstart Procedure for Solaris 10 Based Duplex Systems, Release 4.5</i> , provides instructions for jumpstarting Solaris 10 on the Cisco BTS 10200 Softswitch host machines using the jumpstart CD.
Install the Cisco BTS 10200 Softswitch software.	<i>Cisco BTS 10200 Softswitch Application Installation, Release 4.5</i> , provides instructions for installing release 4.5 of the Cisco BTS 10200 Call Agent/Feature Server and Element Management System software on the servers.
Install the MGX.	The <i>Cisco MGX 8800/8900 Hardware Installation Guide, Releases 2-5.2</i> , provides instructions for installing the MGX components.
Install the Cisco IP Transfer Point (ITP) hardware.	Select from the following guides, depending on the component that you are using for ITP: <ul style="list-style-type: none"> • <i>Cisco7301 Installation and Configuration Guide</i> • <i>Cisco 7500 Series Installation and Configuration Guide</i>
Install Cisco ITP.	The <i>ITP Installation and Operations Manual</i> provides instructions for installing ITP.
Install the CMTS.	Select from the following guides, depending on the CMTS component you are using: <ul style="list-style-type: none"> • <i>Cisco uBR7246VXR Universal Broadband Router Hardware Installation Guide</i> • <i>Cisco uBR10012 Universal Broadband Router Hardware Installation Guide</i>
Install the embedded multimedia terminal adapter (eMTA).	See the appropriate manufacturer recommendations.

Installation Concepts

Read these conceptual, overview topics for the background knowledge that you need to install Cisco BLISS for Cable components.

BTS 10200 Site Preparation and Network Communications Requirements

Cisco MGX 8800/8900 Hardware Installation Guide, Releases 2 - 5.2:

- *Product Overviews*

- *Preparing for Installation*

Broadband Access Center for Cable Release 2.5: Preparing to Install Components