



Cisco HealthPresence User Guide

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Introducing the Cisco HealthPresence Solution

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This introduction explains the audience, purpose, and scope of this user guide. It provides an overview of the Cisco HealthPresence solution for installations using Neurosynaptic Medical Devices, and then describes the system equipment, functionality, and requirements in more detail. These topics are included in this chapter:

- About This User Guide
- An Overview of the Cisco HealthPresence Solution
- Details of the Components and Equipment
 - Components at the Attendant Station
 - Supported Medical Devices
 - Components at the Provider Station
- The Importance of User Roles
- A Sample Workflow
 - The Attendant Begins the Appointment
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 - The Examination Begins
 - The Appointment Ends
- Basic System Tasks
 - Gaining Access to the System
 - Logging In to the System
 - Locking and Unlocking the Application
 - Logging Out of the System
 - Changing Your Password



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Read the Cisco HealthPresence Specifications, Warnings and Precautions¹ before using this solution in a clinical setting.

1. http://www.cisco.com/en/US/docs/solutions/Verticals/Healthcare/HealthPresence/Version_2/Specifications_ Warnings_Precautions/CHP_WarningsPrecautionsnsda.pdf

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About This User Guide

This User Guide is for health care professionals who use the Cisco HealthPresence[™] device. It assumes that these users will be primarily medical experts, but will also have some experience with personal computers. For those who could use a reminder, elementary computer terminology is included in the Glossary.

This guide describes the components of the Cisco HealthPresence solution as it is used with the neurosynaptic devices, and explains how various types of users interact with the system. The chapters in this guide are organized according to user roles, which are described in "The Importance of User Roles" on page 1-5.

Note

Instructions for using specific medical devices are not provided here. Such equipment can be from a number of different third-party manufacturers who may have supplied their own user's manuals.

An Overview of the Cisco HealthPresence Solution

The Cisco HealthPresence (CHP) solution allows a health care Provider (usually a physician) to evaluate a patient regardless of the physical location of the patient. For example, an Attendant can place a stethoscope on a patient's chest, and a physician can hear the heartbeat from a remote location.

The system allows patients to consult with specialists without traveling to the specialist's location. If the multi-party feature has been implemented, the specialist and the attending physician can both participate in the same patient conference. For explanations of the components and roles, see Table 1-1 below.

ltem	Explanation
Attendant	The licensed health care professional who attends the patient. This role includes positioning the patient, and using the medical devices to assist the Provider in evaluating the patient. An Attendant can be a medical technician, a nurse, a nurse practitioner, or a physician.
Attendant Station	The place where the patient and the Attendant meet. This area contains the medical device(s) used by the Attendant, the video conferencing system, and the Cisco HealthPresence Attendant Appliance.
Medical Devices	The devices used with the system allow the Attendant to measure and report medical information remotely. Supported devices are described in "Supported Neurosynaptic Medical Devices" on page 1-4.
Patient	The person who has made an appointment to be evaluated using the Cisco HealthPresence system.
Provider	The licensed medical professional who provides medical evaluations from a remote site. Most often this will be a physician, a physician's assistant, or a nurse practitioner.
Provider Station	The place where the Provider sits during the teleconference. This area contains the video conferencing system, and the Cisco HealthPresence Provider Appliance.

Table 1-1Components and Roles in a Clinical Setting

Details of the Components and Equipment

This section describes the components of the Cisco HealthPresence solution, and the Neurosynaptic Medical Devices that can be used with the system.

Components at the Attendant Station

Chapter 1

The components at the Attendant station include:

- A video conferencing system (monitor, speakers, phone, etc.) to facilitate teleconferencing among sites.
- The Cisco HealthPresence Attendant Appliance, which connects to all of the medical devices, and allows the Attendant to initiate conferences and to share data with the Provider.
- Medical devices approved for use with Cisco HealthPresence solution. These are listed in the next section.

Components at the Provider Station

Components at the Provider station include:

- A video conferencing system (monitor, speakers, phone, etc.) to facilitate teleconferencing among sites.
- The Cisco HealthPresence Provider Appliance, which allows the Provider to evaluate data supplied from the Attendant station, where the patient is located.
- Headphones, which the Provider uses to listen to the telephonic stethoscope remotely.
- An E-Pen for writing prescriptions, if this feature is installed at this site.

Supported Neurosynaptic Medical Devices

The Neurosynaptic Medical Devices that can be used with this system are pictured and described in Table 1-2.

Table 1-2 Neurosynaptic Medical Devices					
ltem	Description				
	NiBP				
	A semi-automatic Non-Invasive Blood Pressure measuring device. You inflate the cuff manually using the Inflation Bulb. Deflation is automatic. A manual safety release mechanism is provided.				
	Thermometer				
	A Temperature Sensor provides a clinical range from 93.5 F to 110 F with an accuracy of +/-0.2 F. The reading takes approximately one minute to stabilize.				
	Stethoscope				
	The stethoscope records the heart and respiratory sounds. A sound lock is available on the Chest Piece (diaphragm), similar to the one on acoustic stethoscopes.				
	ECG				
	A 12-channel ECG. Signals are digitally processed for the reduced noise and high quality required for diagnostics.				



The Cisco HealthPresence-Connect software is not intended to perform real-time, active, or online patient monitoring, and does not transmit or display any real-time data that is intended to alert a physician of alarms or other conditions that require a physician's immediate action or response.

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The Importance of User Roles

Your user role determines which screens you see, and which functions you can perform. User Accounts are configured so that users with a particular role (or roles) see only the screens and options appropriate to that job description. Any given user can have from one to five roles.

The five different user roles are listed in Table 1-3. The roles are ranked in the order shown in the table. For example, someone with both a Provider and Presenter role would default to the Provider screen. As another example, if the Site Administrator is also a Presenter, the default would be Presenter, which is higher up on the list.

When you log in, you see the main screen for your highest level user role; however, you can move to another screen by clicking the appropriate screen link. The screen selections for each user role are shown in Figure 1-1. In the example, the user has access to all five screens. The window displayed is the *Ready* Appointments window, as the Provider role is the highest in the list.



Table 1-3 Five Possible User Role

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HealthPresence

Change Password Lock Logout About Logged in as: Doctor Lee (Roles: attendant, participant, presenter, provider, siteadmin) Start Conference Enter Conference Enter Site Admin Ready Appointments Start Appointment eady Appointments **Ready Appointments** Start Appointment Start Conference Enter Conference Enter Site Admin (Provider) (Attendant) (Presenter) (Participant) (Site Administrator)

A Sample Workflow

This section provides a sample screen sequence of a typical medical session. All of these functions are described in detail later in this guide.

The Attendant Begins the Appointment

Think of this section as an executive summary. You aren't expected to try to read the details of the screens shown in these illustrations. You will see full-sized versions of all of these screens in later chapters. However, if you want to see the details now, you can click the appropriate cross-reference.

Step 1 The Attendant (A) gets the patient's measurements, seats the patient at the Attendant station, and fills in the patient's personal data. For details, see Figure 2-1 on page 2-4. Step 2 The Attendant displays a list of Providers, and selects a Provider. For details, see Figure 2-3 on page 2-5. 2 З Step 3 The Attendant takes the

Step 3 The Attendant takes the patient's vitals, transfers the vitals to the system,

and then alerts the Provider that this consultation can begin (see Figure 2-9 on page 2-11). This appointment appears on the Provider's *Ready Appointments* list.

The Provider Joins In

Step 4 The Provider (P) comes into the Provider station, logs in, and sees a list of all of the "ready" appointments that have selected him or her as a Provider. For details, see Figure 3-1 on page 3-2.

Step 5 The Provider clicks the appointment he or she wants to join. The appropriate appointment screen automatically displays (see Figure 3-2 on page 3-3).



The Examination Begins

Step 6 The Attendant shares the patient's vitals with the Provider.

> The Provider can now see the patient's vitals. For details see Figure 2-10 on page 2-12.

Step 7 Both the Attendant and the Provider join the conference (see Figure 2-11 on page 2-13).

> The patient and the Attendant can see the Provider on the

screen at the Attendant station. The Provider can see the patient and the Attendant on the screen at the Provider station.

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- Step 8 The Attendant uses one or more medical devices to examine the patient, and sends the data to the Provider.
- Step 9 The Provider evaluates the data, and communicates with the patient and the Attendant. For details see Figure 3-6 on page 3-9.

The Appointment Ends

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- Step 10 The Provider exits the appointment (see Figure 3-7 on page 3-9).
- Step 11 The Attendant does any necessary post-appointment work, such as saving (Figure 2-14 on page 2-17) or printing (Figure 2-18 on page 2-21) the patient data.
- Step 12 The Attendant ends the appointment. For details, see Figure 2-15 on page 2-18.





Basic System Tasks

The instructions in the remainder of this guide are based on your user role, for example, Attendant, Provider, Presenter, and so forth. The instructions here apply to all types of users.



When using CUVA in the Cisco HealthPresence Appliance, do not maximize the browser or you will not be able to see the video image of the participants. The browser should be about 75% of the window. You may need to adjust the browser size when you first log in.

Gaining Access to the System (If Necessary)

Normally, you will begin your sessions from the Cisco HealthPresence *Login* screen (shown in Figure 1-5 on page 1-9); however, if you do not see that screen:

- You may need to click the CHP Portal quick link.
- You may need to log in to Windows.
- You may need to log off and log in again.

Note

If the suggestions provided here do not work, you may need to contact support. When your Cisco HealthPresence system was installed, your site was provided with the appropriate numbers to call.

Using the CHP Portal Quick Link

Figure 1-2 The CHP Portal Quick Link If you see the message Page Not Found, 🏀 Internet Explorer cannot display the webpage - Windows Internet Explorer Service Unavailable, or something similar, 🚱 🍥 🗢 🙋 http://10.98.52.131/chppc click the CHP Portal quick link 🖕 Favorites 🛛 👍 🛲 CHP Portal (seeFigure 1-2). 🏉 Internet Explorer cannot display the webpage If you are logged in, and you see a You have been logged out... message, and, Internet Explorer cannot display the webpage when you click OK, you see Page Not Found, Service Unavailable, or a similar Quick Link message, click the CHP Portal quick link every minute or so for about five minutes.

Windows 7 User Login

Figure 1-3

A Sample Windows 7 User Icon

If service is not restored by then, call support.



If your system has been powered off, either deliberately or accidentally, you will need to click on *chpuser* (see Figure 1-3), and then enter the Windows password for your installation. You will then see the Cisco HealthPresence login screen (Figure 1-5 on page 1-9).

Basic System Tasks

Log Off and then On Again

If you see a blank screen, it may be because someone has accidently closed the Internet Explorer browser. If this happens:

1. Press the Ctrl + Alt + Del keys on your keyboard.

You will see a screen like the one shown in Figure 1-4.

2. Click on the Log off selection.

The system will display the Cisco HealthPresence *Login* screen (see Figure 1-5).

Lock this computer
♦ Log off
Change a password
💠 Start Task Manager
Cancel



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This is the standard Windows operating system procedure for logging on and off. What isn't standard is that Internet Explorer automatically launches when someone logs in at the Cisco Health Presence login screen.

Logging In to the Cisco HealthPresence System

Normally, you will begin your sessions from the Cisco HealthPresence *Login* screen (see Figure 1-5); however, if you don't see that screen, see "Gaining Access to the System (If Necessary)" on page 1-8

- 1. Type your Username and Password in the boxes provided.
- 2. Click the Login button.

Figure 1-5 The Cisco HealthPresence Login Screen



Figure 1-4 The Log Off Selection

Locking and Unlocking the Application

If you leave your station, you should be careful to lock the application before you go. This prevents unauthorized access, and, if an appointment is active, it prevents anyone else from seeing the appointment data. You can unlock the application, returning to the same window, when you come back.

Warning

If you do not lock the application, and you leave it unattended for a certain length of time (determined when your system was configured), the system will log you out automatically. However, while the application is locked, automatic logout does not apply.

Lock the Application When You Leave

To lock your application:

- 1. Click Lock at the top right of the window (shown in Figure 1-6).
- 2. In the *Lock* confirmation message dialog box, click Yes.

The *Unlock* window displays. It contains your *Username* and a place for your *Password*. (A portion of this screen is shown at the right in Figure 1-6.)

Unlock the Application When You Return

To unlock your application, type in your *Password* (your *Username* will already be entered), and click **Unlock**.

 \mathcal{P} Tip

Keep in mind that another user can type over your name, and log into this station, ending any active appointment. You will be automatically logged out.





Changing Your Password

If you see a *Change Password* link at the top right of your screen (shown in Figure 1-6), your user account is authenticated by the Cisco HealthPresence system. You can change your password with these steps:

1. Click **Change Password** at the top right of the screen.

You see a screen such as the one in Figure 1-7.

- 2. Fill in the old and new passwords in the boxes provided.
- 3. Click OK.

Logging Out of the System

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At the end of the day, or if you will not be the next person to use this station, or if you will be gone for some time, you should log out of the system entirely. Make sure you have saved any appointment data first. To log out:

1. Click Logout at the top right of the window (shown in Figure 1-6).

You see one of the confirmation messages shown in Figure 1-8. (The first message appears only at the Attendant station.)

2. Click Yes.

Figure 1-8 Logout Messages



Figure 1-7

The Change Password Dialog Box

Current Password: New Password:]	
Confirm New Password	t		
Ok Cancel			

Basic System Tasks

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The Attendant Workflow

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This chapter describes the tasks performed by the licensed health care professional in the role of Cisco HealthPresence Attendant. Before the patient arrives, the Attendant ensures that the station is ready, and that the medical devices are operational. Once the patient arrives, the Attendant gathers patient data, and then joins in a teleconference with the Provider. At the request of the Provider, the Attendant gathers and shares data using medical devices, and then saves the data.

In this list of chapter topics, the primary sections are major tasks listed in the order that they are performed. The secondary items are subtasks, or, in some cases, steps. The final section describes tasks that are not always done during every appointment, but can be useful.

- Preparing for the Appointment
 - Prepare the System
 - Check the Equipment
- Starting the Appointment
 - Fill in (or Retrieve) the Patient's Personal Data
 - Select a Provider
 - Select Appointment Options (if applicable)
- Gathering and Sharing Patient Vitals
 - Weigh, Measure, and Position the Patient
 - Gather the Patient's Vitals
 - Notify the Provider that You are Ready to Begin
 - Share the Patient's Vitals with the Provider
 - Join the Teleconference
- Conducting the Consultation
 - Optimize the Audio Volume
 - Share ECG Data
 - Transmit Stethoscopic Sounds
- Completing the Appointment
 - Save the Patient Data
 - Conclude the Appointment
- Using Special Features and Functions
 - Chat with the Provider(s)
 - Consult with a Specialist
 - Print Patient Data

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- View and Print Presciptions

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Preparing for the Appointment

Attendant tasks that should be done before the medical appointment fall into two categories: 1) tasks that need to be done only once each day, and 2) tasks that should be done before every patient.

Each installation will have its own protocol about how often testing needs to be done, and who will be responsible for doing it. Appendix A contains a list of suggested tests to ensure that the Neurosynaptic Medical Devices are working correctly. Those tests only need to be performed once a day.

The tasks listed here should be done before each appointment.

Step 1 Prepare the Cisco HealthPresence system.

Step 2 Check the medical equipment.

<u>)</u> Tip

The teleconference microphone can transmit ambient noise in the surrounding area, such as audible conversations in or near the same area. Try to reduce or eliminate background noise before beginning a patient appointment.

Step 1 – Prepare the Cisco HealthPresence System

Normally, you will begin your sessions from the Cisco HealthPresence *Login* screen (see Figure 1-5 on page 1-9); however, if you don't see that screen, see "Gaining Access to the System (If Necessary)" on page 1-8.

When the Login screen is displayed:

- 1. Type your Username and Password in the spaces provided.
- 2. Click the Login button.

Once you have logged in, if you have an Attendant role, the *Start Appointment* screen displays (see Figure 2-1 on page 2-3).

Note

If you have other profiles as well as an Attendant profile, for example, conference Presenter and/or Participant, you will have the option of going to a different screen by clicking the screen name. In the example, the Attendant could also go to the *Start Conference* or *Enter Conference* screens.

Start Confe	erence	Enter Conference	Device Status
Cisco Cisco HealthF	resence		
Logged in as: Pat Nu	r e (Roles: attendar	it, particip-int, presenter)	Change Password Lock L pout About
Start Appointment	Start Conference	Enter Conference	Device Status 🥑
Start Appointm	ent		
10.00 65555			
Patient Id	0123	retrieve	
First Name	Blair		
Last Name	West		
Gender	Male 💌	2011/01/01/01	
Date Of Birth	1975/12/12	(yyyy/mm/dd)	
Reason For Visit	cinder in eye		
Allergies	none		
Medications	none		
Provider		select	
B2B Call			
B2B Group		~	
Call Type	◯ Multi-Party ⓒ Two Party		
Start Appointment			
	_		
pyright © 2009-2011 Cis∞			

Figure 2-1 The Start Appointment Screen

Step 2 – Check the Equipment

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As part of your pre-appointment preparation, you should verify that the medical devices you will need are available by looking at the status code at the top right-hand side of the screen (see Figure 2-1). The code meanings are shown in Table 2-1.

Code	Color	Meaning
V	Green	All devices are available.
	Red	No devices are available. Check the equipment.

 Table 2-1
 Device Status Codes

Starting the Appointment

After you have logged into the PC and made sure that the medical equipment is ready, you can start the appointment. The steps are summarized below, and then detailed later in this section.

- **Step 1** Fill in (or retrieve) the patient's personal data [*Retrieve*].
- Step 2 Select a Provider [Select].
- **Step 3** Select Appointment Options, if applicable.

Step 1 – Fill in (or Retrieve) the Patient's Personal Data

The *Start Appointment* screen has fields for you to fill in the patient's personal data. If you have the Electronic Medical Records application integrated into this system, you will be able to retrieve some of the information, rather than typing it all in (see Figure 2-1).

 ρ Tip

All of the fields on this screen are optional.

To fill in (or retrieve) the patient's personal data, follow these steps:

1. If your screen has a **Retrieve** link, type in the Patient Id, and then click this link to retrieve the patient's name, gender, and date of birth.

If your screen does not have a **Retrieve** link, type in the patient's name, select the appropriate gender, and type the date of birth.

- **2.** Add the reason for the visit (up to 30 characters).
- **3.** List any allergies (up to 300 characters).
- 4. List any current medications (up to 300 characters).



Filling in Patient Data



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The screen shown in the example is from a system that has both Business-to-Business and Multi-Party options. Your system may not have these options installed.

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Step 2 – Select a Provider

To select a Provider, follow these steps.

- 1. Click **Select** on the Start Appointment screen (see Figure 2-1 on page 2-3). The system displays a screen listing the available Providers and their specialities (see Figure 2-3). The availability of each Provider is shown by a color-coded symbol.
 - Green indicates that the Provider is available now.
 - Yellow indicates that the Provider is logged in, but is participating in another appointment.
 - Gray indicates that the Provider is not logged in.

Figure 2-3 The Select Provider Screen

Start Appointment Button List of Providers cisco Cisco HealthPresence Logged in as: Pat Nurse (Roles: attendant, participant, present Logout About Start Appointment Start Conference Enter Conference Device Status Start Appointment Patient Id 0123 Select Provider First Name Blair Last Name West Gende Male Provider Specialty Date Of Birth 1975/12/12 Barnard, Christiaar Cardiothoracic Surgen cinder in eye Reason For Visit Blackwell, Elizabeth General Practitione Allergies none Doctor, Kim General Practitioner 😑 Elders, Joycelyn Pediatrician dications none Johnson, Timothy Medical Journalist Virologist 🖯 Salk, Jonas B2E Close B2B Call T O Multi-Party Two Party Start Appoint

2. Click on the name of the Provider you want to choose.

The Start Appointment screen now shows the Provider name filled in.

- 3. Check to see if your system is configured with Appointment Options:
 - If the **Start Appointment** button is directly beneath the *Provider* field (as it is in the figure above) you do not need to select any Appointment Options, so you can skip Step 3 (Selecting Appointment Options). Click the **Start Appointment** button to display the *Patient Vitals* screen, and go to "Step 2 Gather the Patient's Vitals" on page 2- 10.
 - If your system does have Appointment Options (Multi-party calls, or Business-to-Business Conferencing), these options will be listed between the *Provider* field and the Start Appointment button. Go to "Step 3 – Select Appointment Options (if Applicable)" on page 2-6.

retrieve

(yyyy/mm/dd)

select

~

B2B Options

Step 3 – Select Appointment Options (if Applicable)

There are two appointment options that not every installation will have. These are:

- Two-Party or Multi-Party Calling
- Business-to-Business (B2B) Calls

Your site may have none, one, or both of these options. The sample screens in Figure 2-4 show both of these options. Note that the options are listed between the *Provider* field and the Start Appointment button.

Figure 2-4 **Appointment Options**

Start Appoint	ment	Start Appointment
	<	2
Patient Id	1234 retrieve	Patient Id 1234
First Name	Blair	First Name Blair
Last Name	West	Last Name West
Gender	Male 🖌	Gender Male 🗸
Date Of Birth	1975/12/12 (yyyy/mm/dd)	Date Of Birth 1975/12/12
Reason For Visit	Cinder in eye	Reason For Visit Cinder in eye
Allergies	None	Allergies None
Medications	None	Medications None
Provider	Kim Doctor select	Provider Kim Doctor
B2B Call		B2B Call
B2B Group		B2B Group B2BTestGroup
Call Type	Multi-Party	Call Type Multi-Party
	O Two Party	> Two Party
Start Appointment]\	Start Appointment
	Call Type	

Choosing a Call Type



Provider #1-Attending Physician

If your system is configured to support multi-party calls, you choose whether the call is going to be a two-party call (a point-to-point call) or a multi-party call (a bridge call) by clicking on the appropriate radio button (see Figure 2-4 above).

An example of a multi-party call would be if the consulting physician wants to include a specialist in the consultation. In this case, there would be two Provider stations involved in a single call.

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Setting Up a Business-to-Business (B2B) Appointment

Some installations are configured to allow the Attendant to make appointments with Providers located in another institution if that institution belongs to the same Business Group as the Attendant. This is called a Business-to-Business appointment. To set up a B2B appointment:

- 1. Click the B2B box so that it contains a checkmark (see Figure 2-4).
- 2. Select the appropriate business entity from the drop-down list.

Understanding the Business-to-Business Concept

The Business-to-Business concept allows for a number of appointment consultation possibilities. The drawing below illustrates some of these possibilities.

Figure 2-6 Business-to-Business Groups

The illustration shown here includes business entities and the groups that these business entities are in:

- #1 = Large corporation. It is in the Red group along with #4.
- #2 = An office of primary care physicians. It is in the Gold group with #3.
- #3 = A hospital specializing in cardiac care. It is in the Gold group with #2.
- #4 = A major teaching hospital. It is in the Red group with #1 and in the Blue group with #5 and #6. Because it is in both the Red and Blue groups, it is colored purple.
- #5 = A university hospital. It is in the Blue group with #4 and #6.
- #6 = Another university hospital. It is in the Blue group with #4 and #5.



Possible Scenarios and Use Cases

With the businesses and groups structured as shown, these are the possibilities:

- Attendant and Provider stations in #1 (large corporation) can share appointments with #4 (major teaching hospital) because they are both in the Red group. For example, a corporation could offer employees an on-site clinic using the resources of a large hospital.
- Attendant and Provider stations in #2 (primary care physicians) and #3 (cardiology specialists) can share appointments because they are both in the Gold group. In this way, general practitioners can provide specialized health care by calling in a consultant if the situation warrants it.
- Attendant and Provider stations in #4, #5, and #6 can share appointments and/or conferences with one another. As these are all university teaching hospitals, this would be a convenient way for them to share research results.

Accessing the Provider List for a Different Business Entity

If your installation is configured to support B2B calls, you have the option of selecting a Provider from a different business entity, as long as that business entity is in your Business Group. To access another Provider list, you must first have selected the B2B option and selected a B2B Group (see Figure 2-4 on page 2-6). Then, follow these steps:

- 1. Click **Select** next to the Provider field.
- 2. Choose a business entity from the drop-down *Business* menu.
- 3. Click on the name of the Provider you want to choose.

That Provider's name appears in the Provider field.

Figure 2-7 Selecting a Provider from a Different Business Entity

Start Appointn	nent			
Patient Id	1234	Select Provider		
First Name	Blair			
Last Name	West	Business Seton	· · · · · · · · · · · · · · · · · · ·	
Gender	Male 💌			
Date Of Birth	1975/12/12	Provider	Specialty	
Reason For Visit	Cinder in eye	Doctor Ajay	Internal Medicine	
Allergies	None	Chuck Doctor 81	General Medicine	
Medications	None	Kelly Doctor	Internal Medicine	
10 10 10 10 10 10 10 10 10 10 10 10 10 1		Kim Doctor	Internal Medicine	
Provider	Kim Doctor	Hanna	cardiologist	
B2B Call		SJDoc181		
B2B Group	B2BTestGroup			
Call Type	Multi-Party			
	Two Party			
	-			
Start Appointment				
			Close	

Gathering and Sharing Patient Vitals

After you have selected a Provider and picked Appointment Options (if necessary), you are ready to position your patient, collect your patient's vitals, begin the teleconference, and share the vitals with the Provider you have chosen. The steps for this process are summarized below, and then detailed later in this section.

- **Step 1** Weigh, measure, and position your patient.
- **Step 2** Get the patient's temperature [Get].
- **Step 3** Get the patient's blood pressure [Get].
- **Step 4** Notify the Provider that you are ready to begin [*Ready*].
- **Step 5** Share the patient's vitals with the Provider [Share].
- **Step 6** Join the Teleconference [Join].

Note: Steps 5 and 6 can be reversed. Pros and cons are explained later.

Step 1 – Weigh, Measure, and Position the Patient

Before you seat your patient at the Attendant station, you will need to get the patient's weight and height, so that you can enter it in the Vitals section of the screen. When that is done, follow these steps to position your patient appropriately.

- 1. Seat the patient in front of the video camera.
- 2. Adjust the seat height, if necessary, so that the patient's head is 6-12 inches below the top of the video display.



If at all possible, the patient should sit in a chair in front of the camera. If the patient needs to lie down during the exam for medical reasons, the Provider and patient can still see each other, but the patient may be outside of the camera's optimal focal range, and will appear smaller in the Provider's screen. Also, patient facial expressions and true skin color may be harder for the Provider to see. Eye contact may not be possible.

Step 2 – Gather the Patient's Vitals

Obtain the patient's vitals using the Neurosynaptics Medical Device following the steps listed here.

To take the patient's temperature:

- 1. Position the thermometer in the patient's mouth under the tongue.
- 2. Click the Get button next to the *Temperature* field.

The temperature will display intermediate readings until it is stabilized, and will then show the final value.

To take the patient's blood pressure:

- 1. Wrap the blood pressure cuff around the patient's arm.
- 2. Click the Get button next to the SYS/DIA field.
- **3**. Pump up the pressure in the cuff until it reads 210.
- 4. Release the pressure. When the reading is final, both the blood pressure and the pulse will be displayed on the screen.





If you need to change any of the patient information, first make the changes, and then click **Update** to share the updated data with the Provider (see Figure 2-8).

<u>₽</u> Tip

<u>)</u> Tip

For instructions on using the Neurosynaptic Medical Devices, see the *ReMeDi MDAU Hardware Operating Manual*.

Step 3 – Notify the Provider that You are Ready to Begin

Clicking **Ready** is the equivalent of placing a paper chart outside the door to the examining room. It lets the Provider know that you and the patient are ready for the Provider.

You can share the patient's vitals with the Provider either before or after you join the teleconference. Many Providers prefer to "read the chart" before seeing the patient, so that is the way the steps are listed here. However, both the Attendant and the Provider can join the teleconference, and then share the vitals file. This means that you and the patient will be able to see the Provider receiving and reading the vitals. The Provider will be looking down at the screen, and not at the patient.

<u>}</u> Tip

The Provider can indicate through the Chat feature when he or she wants you to share the vitals.

Once you have gathered the patient's vitals you are ready to have the Provider join in the appointment.

1. Click **Ready** at the bottom of the window.

Your name appears in the participant list on both your system and on the systems of any other participants who are a part of this consultation, AND this appointment displays on the Provider's system (see Figure 2-9).

2. If you want to share the patient's vitals with the Provider before you both join the conference (see each other on camera), go to "Step 4 – Share the Patient's Vitals" on page 2- 12.

If you prefer to see the Provider on the screen before you share the patient's vitals, go to "Step 5 – Join the Teleconference" on page 2- 13.

Appointment				Арроіі	ntment appe	ears on P	rovider's lis	t.
Patient Id	1234				/			
First Name	Blair							
Last Name	West	Ready App	ointments					
Gender	Male 🗸		Time	Patient	Reason For Visit	Attendant	Attendant Location	Provider
Date Of Birth	1975/12/12	select	12:44 PM	Blair West	Cinder in Eye	Pat Nurse	East Wing	Doctor Kim
Age								
Reason For Visit	Cinder in eye							
Allergies	None	1						(WC)
Medications	None							E SPE
Provider	Kim Doctor	2009-2011 Cisco and	/or its affiliates. All righ	its reserved.				P
Consult		select			_			
Participants	Pat Nurse	$\overline{\mathbf{A}}$	Α	(mark)				
Ready Not Read	dy Update End		Ľ	1×	١			

Figure 2-9 Ready Appointments

Attendant's name appears in Participants box.

Step 4 – Share the Patient's Vitals

To share the patient's vitals, click the **Share** button (see Figure 2-10). In the example shown, neither the Provider nor the Attendant has joined the conference yet.





<u>Note</u>

In this manual, the ECG procedure is described after you have gathered the vitals and joined the teleconference, but you could also do it before, if you prefer.

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Step 5 – Join the Teleconference

The "Join" function allows you, your patient, and the Provider to communicate with one another orally and visually. Both the Attendant and the Provider must click **Join** to see each other on the video monitors.

To join the teleconference, follow these steps:

1. Click the **Join** button.

If the Provider has already clicked Join, you will see the Provider immediately.

2. Once you are in the teleconference, adjust the volume using the volume controls, the touch pad, or the remote control, depending on which equipment you have (see Appendix B, "Types of Audio Equipment").

The illustration below shows the **Join** button at the Attendant station, and the video monitor once both parties have connected. You can see the Provider on your monitor and the Provider can see you and the patient on the monitor at the Providers station (see Figure 2-11).

Figure 2-11 Join the Teleconference

Appointment		
Patient Id	1234	
First Name	Blair	
LastName	Witch	
Gender	Male V	
Date Of Birth	1975/12/12	(yyyy/mm/dd)
Age	107-5/12/12	()))))IIIIIIIIIIIIII
Reason For Visit	Cinder in eye	
Allergies	None	
Medications	None	
Provider		
Consult	Kim Doctor select	
Participants	PatNurse	
Join Leave		
The Joi	n Button	



The Patient and Attendant see the Provider



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Conducting the Examination

A major purpose of the Cisco HealthPresence system is to enable the Attendant to operate the medical devices, and to have the results interpreted by a Provider at a remote site.

The devices that you can use with the Cisco HealthPresence are listed and described in "Supported Neurosynaptic Medical Devices" on page 1-4. The manufacturers of these devices may have provided you with user manuals, and you may also have received training on each of the instruments that you are expected to use. This chapter does not talk about operating the instruments, but about using the instruments with the Cisco HealthPresence system.

You will not use every piece of equipment you have for every appointment. These are the things you may do:

- Optimize the Audio Volume
- Share ECG Data
- Share Stethoscopic Sounds

Optimize the Audio Volume

The phone at the Attendant station may be one of several types. The types of phones and their volume controls are described in Appendix B, "Types of Audio Equipment".

Warning

Some video systems use an integrated IP phone to connect video conference calls and to control the volume of conference calls. Depending on how your system was configured, if you have one of these IP phones, outside calls may or may not be supported. This includes 911 calls.

Share ECG Data

The Provider may ask you to share ECG data. To share this data:

- 1. Place the contacts on the patients limbs and chest, as instructed by the device manufacturer.
- 2. Click the *ECG* tab (see Figure 2-12).
- **3.** Use the drop-down menu at the bottom of the screen to indicate whether you are using a single lead or all of the leads.
- 4. Click the **Start** button.

Nothing is displayed until the ECG is finished. At that point the entire graph is displayed at the Attendant station. It may take five or six seconds before the Provider can see the graph as well.

<u>}</u> Tip

If you decide that you don't want to take the ECG, or if you want to start over, click the Cancel button.



Figure 2-12 Sharing ECG Data

<u>}</u> Tip

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For instructions on using the Neurosynaptic Medical Devices, see the *ReMeDi MDAU Hardware Operating Manual*.

Share Stethoscopic Sounds

If the telephonic stethoscope is part of this exam, you can set up your system to transfer the patient's heart and lung sounds to the Provider's headset. You will not be able to hear the sounds at your end.

If the Provider asks you to use the telephonic stethoscope:

- **1**. Position the stethoscope appropriately.
- 2. Click Start in the Stethoscope section at the bottom left of your computer screen.
- 3. When the Provider tells you to stop, click Stop.

Figure 2-13 Sharing Stethoscopic Sounds



Completing the Appointment

As the appointment comes to a close, you will need to save the information you have gathered, and then conclude the appointment. There are several ways to perform both of these tasks.

- **Step 1** Save the Patient Data
- **Step 2** Conclude the Appointment

Step 1 – Save the Patient Data

After the consultation is over, you will want to save the data that you have collected. How you do this depends on whether or not your Cisco HealthPresence system is connected to an Electronic Medical Records application.

Saving Data Using Electronic Medical Records

If your system has an interface to an Electronic Medical Records application, you will be able to save data by clicking a button. Only the Attendant can save data this way; this feature is not available from the Provider's system. Follow these steps:

1. Click the Save to EMR button in the upper left of your screen (see Figure 2-14).

The Save to EMR dialog box is displayed.

2. Click to place a checkmark in the boxes next to the types of items you want to save.

You can save appointment data, vitals, or, if your site as the E-pen application, the prescription. The only options shown will be the ones with content in them. If you want to save the ECG graph, you can print it out, and put it in the patient's physical file (see "Print Patient Data" on page 2- 21).

3. To save the data you have selected, click OK.

	altatia cisco HealthPresence			
Save to EMR Button	Loggest in siz Pet Name (Fish: alternated)	Characterized Link Long Host		
Items to be Saved	Approximated Partnettol Partnetto	Censulinu 🕑		
OK Button	Lastfame Sie Pensito be Saved Gender Use Concernent Duby Officer (2000-11/2) Vibra Aget (0) (Concernent			
	Adegres Portige Journe Prove Adegres Ports Medications @ptigr			
	Provider print Excitin Consult Partoports Part Narse			
		\sim		

Figure 2-14 Saving Patient Data

Saving Data Without Electronic Medical Records

If you do not have Electronic Medical Records connected to your Cisco HealthPresence system, you can transcribe the data to the patient's permanent record, or you can print out the data and file the printout in the patient's file.

Step 2 – Conclude the Appointment

As the appointment is finishing up, there are three possible commands you can choose, depending on what you want to do next. You can begin with the **Leave** button, then go to the **Not Ready** button, and finally go to the **End** button, or you can go directly to **Not Ready**, and then to **End**, or you can go directly to **End**. All of these buttons are shown in Figure 2-15.

Figure 2-15 Concluding the Appointment

- Leave the teleconference [Leave]
- Finish up the appointment details [Not Ready]
- End the session entirely [End]



Leave the Teleconference

If you use the **Leave** button to leave the teleconference, neither party can see or hear the other. You can start the teleconference up again by clicking the **Join** button.

Finishing Up the Appointment Details

If you would like to take a minute to save the appointment information (such as vitals, image captures or chats), click the **Not Ready** button. This prevents anyone from joining the appointment, but does not erase appointment information.

End the Session Entirely

If you have totally finished with this appointment, and are ready to go on to the next patient or leave the Attendant station, click **End**. This clears the patient information and returns you to the home page.



Be careful not to click **End** until you have saved the patient data by sending it to EMR, printing it, or transcribing it. You might also consider adding the Provider's notes, perhaps through the Chat feature.
Using Special Features and Functions

The items included in this section are all features that you may find useful, but are not necessarily a part of every appointment. These features include:

- Chat with the Provider
- Consult with a Specialist
- Print Patient Data
- View and Print Prescriptions

Chat with the Provider(s)

Figure 2-16 Using the Chat Feature Sender and Time Message Viewing Area Chat Tab Vitals Chat Doctor Lee 3:12:15 PM Please share vitals Sharing no Pat Nurse 3:13:04 PM PatNurse Message Participant Drop-Down Menu Send Button Message Entry Area

The Chat feature allows you to confer with the Provider(s) using text messages. You can use Chat to clarify communication, if there is a language difference. A specialist could share a URL related to the ailment or treatment.

A major bonus of the Chat feature is that, unlike with verbal communication, anything that you or the Provider "say" can be saved as part of the permanent record by being printed out.

To use the Chat feature:

- 1. Click on the **Chat** tab.
- 2. Select the participant(s) from the drop down list.
- **3.** Type the message.
- 4. Click Send (or press the Enter key on your keyboard).

Tip

It is quite possible that the patient can see the screen, so don't type anything you would not want the patient to see.



Keep in mind that the contents of the Chat box will include all text that has been sent during this session. For example, if you are just beginning a chat with a particular Provider, but you have slected All *Participants*, the new person will see not only the message that you are sending now, but anything else that has been entered.

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Consult With a Specialist

If your installation has the multi-party capability, and if you selected "multi-party" when you set up the appointment, you can consult with a specialist within the context of this appointment. When there is more than one Provider, the one that appears on the video screen will be the one who is speaking, or, if neither is speaking, the one who has spoken last.

You can also consult with a specialist using the B2B feature if you have selected B2B when you set up this appointment (see Figure 2-4 on page 2-6).

To bring the specialist into the appointment, follow these steps:

1. Move your cursor to the right of the *Consult* field, and click Select.

A pop-up dialog box with a list of Providers is displayed.

- 2. If this is a B2B Consult (as in the example in Figure 2-17), select a Business entity from the drop-down list.
- 3. Select the appropriate consultant Provider from the list.

If the consulting Provider is logged into the system, the appointment shows up in that Provider's list of "Ready" appointments. When the consultant selects the appointment, his or her name appears in the Participants box

Figure 2-17 Using the Consult Feature for B2B

			Select Busi	iness Entity	Select Provider
ed in as: Pat Nurse	e (Role: attendant)				
ppointment			Vitals Chat		
Patient Id	01234567		Weight		lb
First Name	Robin		Height		in
Last Name	Redbreast	i			-
Gender	Male 💌	Sele	ect Provider		
Date Of Birth	10/10/2010	(mm/dd/yyyy)			
\ge	7 month(s)	Bu	SINESS SETON	*	
Reason For Visit	Rash				
Mergies	Unknown		ovider	Specialty	
	None	0	Kelly Doctor	Internal Medicine	
Medications	None	0	Kim Doctor	Internal Medicine Neurosurgeon	2
Provider	Doctor Lee	0	sdoc Manoj	Neurosurgeon	
Consult	1	select	And the second second		
Participants					
Ready Not Rea	dy Up tate End				
\sim	$\sim h \sim$	$\sim h$	\sim	\sim	
	\	\			
	Consult Box	Select But	ton (for Consulta	nt)	

Print Patient Data

If your site has a printer attached to the Cisco HealthPresence system, you can print out most of the data you collected as part of the appointment. You can print the text portions of the appointment (see Figure 2-18) and you can also print ECG data (see Figure 2-19 on page 2-22).

Printing Text Information

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To print out the patient data, follow these steps:

1. In the upper left-hand corner of the screen, click **Print**.

A pop-up dialog box lists the items that you can choose to print.

2. Check the boxes for the things that you want to print, and click OK.

A Print Preview is displayed. If this is what you want to print, click **Print** at the bottom left of the preview screen.



Figure 2-18 Printing Textual Data

Printing Text Information with ECG Data

If the ECG tab is displayed on your system, you can also print patient data that includes an ECG graph. Follow these steps:

1. In the upper left-hand corner of the screen, click **Print**.

A pop-up dialog box lists the items that you can choose to print.

2. Check the boxes for the things that you want to print, and click OK.

A print preview is displayed. If this is what you want to print, click **Print** at the bottom left of the preview screen (see Figure 2-19 on page 2-22).

Figure 2-19 Printing ECG Data



View and Print Prescriptions

If your site supports the E-Pen feature, a physician can write prescriptions on the Cisco HealthPresence system using an E-Pen. Providers write prescriptions on the *Write Prescription* tab (which doesn't appear on the Attendant's screen), and Attendants (and other participants) view these prescriptions from the *View Prescription* tab (see Figure 2-20). Either can print the prescription.

The *View Prescription* tab is displayed at the Attendant station only if a Provider has written a prescription for this appointment, and shared it with the Attendant at this appointment. If there are multiple prescriptions, any of the participants can click the **Next** and **Previous** buttons. Only the Provider who wrote the prescription has a **Delete** button.

Figure 2-20 **Viewing Prescriptions Print** Button View Prescription Tab Pat Nurse (Role: attenda Device Status 👩 Vitals ECG Chat View Prescriptions Appointmen Patient Id First Name Liohr Last Name Doe Gender Male • Acme Medical Center Date Of Birth 2/1/1951 (mm/dd/yyyy) Age Reason For Visit sore throat PID: 1 Date: 06/28/2011 MRN: 1 nuts Patient: John Doe Age: 60 Sex Male Allergies Specialty: Internal Medicine Consultant: Kim Doctor lipito Medications Provide Kim Docto Consult selec Drugname Goes Here Participants Pat Nurse Kim Doctor Drug Dose Goes Here Ready Not Ready Update End Telepresence Kim Doctor, M.D. Join Leave Stethoscope Start Stop <-Previous Next-> **Previous** Button Next Button

Printing a Prescription

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To print a prescription click the **Print** button in the upper left-hand side of the *View Prescription* screen (see Figure 2-20).



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CHAPTER **3**

The Provider Workflow

Revised: January 5, 2012, 78-20626-01



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If you are a Provider you do not necessarily need to read the chapter that describes the Attendant tasks. However, it is important that both Attendant and Provider read the Introduction, as this material is not repeated in later chapters.

This chapter describes the tasks performed by the licensed health care professional in the role of Cisco HealthPresence Provider. During the appointment, the Attendant gathers patient data, and then shares it with the Provider.

When the Attendant and Provider are ready for the consultation to begin, both join the teleconference. You communicate with the Attendant and patient throughout the appointment, and, as the consultation proceeds, you will ask the Attendant to gather data using appropriate medical devices.

In this list of chapter topics, the primary sections are the major tasks, which are listed in the order that they need to be performed. The secondary items are subtasks, or sometimes, Steps.

- Arriving at the Appointment
 - Log In to the Cisco HealthPresence System
 - Choose an Appointment
 - Look Over the Patient's Personal Data
 - Look Over the Patient's Vitals
 - Join the Teleconference
- Conducting the Examination
 - Optimize the Audio Volume
 - View ECG Images
 - Listen to Stethoscopic Sounds
 - Exit the Appointment
- Using Special Features and Functions
 - Chat with the Attendant
 - Consult with a Specialist
 - Print Patient Data
 - Write, View, and Print Prescriptions

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Arriving at the Appointment

After you arrive at the Provider's station, you are ready to begin your part in the appointment. The steps for this process are summarized below, and then detailed later in this section.

- **Step 1** Log in to the Cisco HealthPresence system.
- **Step 2** Choose an appointment.
- **Step 3** Look over the patient's personal data.
- **Step 4** Look over the patient's vitals.
- **Step 5** Join the Teleconference.

Note: Steps 4 and 5 can be reversed. Pros and cons are explained later.

Step 1 – Log in to the Cisco HealthPresence System

Normally, you will begin your sessions from the Cisco HealthPresence *Login* screen (see Figure 1-5 on page 1-9); however, if you don't see that screen, see "Gaining Access to the System (If Necessary)" on page 1-8.

When the Login screen is displayed:

- 1. Type your *Username* and *Password* in the spaces provided.
- 2. Click the Login button.

If you have a Provider profile, the *Ready Appointments* screen is displayed (see Figure 3-1).

Step 2 – Choose an Appointment

You may choose an appointment based on your calendar, the reason for the visit, or the amount of time the patient has been waiting. Click *Select* to the left of the appointment you want to join. In the example shown in Figure 3-1 there is only one possible appointment that the Provider can choose.

Figure 3-1 The Ready Appointments Screen

One Possible Appointment	Ready Appo	ointments					
		Time	Patient	Reason For Visit	Attendant	Attendant Location	Provider
	select	12:44 PM	Blair West	Cinder in Eye	Pat Nurse	East Wing	Doctor Kim
	S						
	and/	or its affiliates. All rig	hts reserved.				
	$\left(\right)$						

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Step 3 – Look Over the Patient's Personal Data

Before listing the appointment on your *Ready Appointments* screen, the Attendant will have entered the patient's personal data. This data is shown on the left side of your screen (see Figure 3-2). At this point the vitals information (right side of the screen) may or may not be filled in. In the example shown in Figure 3-2, the vitals have not yet been shared.

When you choose the appointment, your name is displayed in the *Participants* box on your screen and on the Attendant's screen. In the example shown in Figure 3-2, both the Attendant (Pat Nurse) and the Provider (Kim Doctor) are listed in the Participants box. In the example shown in Figure 3-3, you can see that Pat Nurse and Kim Doctor are both listed in the Participants boxes in both the Attendant's and the Provider's screens.

Patient's Personal	Cisco HealthiPresence Logard H as: Res Decter (Hark, presence) Tast	Status Zauseint Look Look daard
Data	Appointment Patient3 [1234 First Name John Last Name John Last Name John Date Of Brits Date Of Brits EXXVV1851 (Inmrddigge) Ape 60	Wads ECG Chat With Prescription Weight ib Height in Temperature F STSDA mmHg Pulse bpm Time
Vitals (Blank)	Aderges A	
Participants Box	Participants Participants Rim Doctor	P

Figure 3-2 The Provider's Appointment Screen

Step 4 – Look Over the Patient's Vitals

Note

The Attendant may choose to share the patient's vitals either before or after you join the teleconference. Many Providers prefer to "read the chart" first; however, both the Attendant and the Provider can join the teleconference first, and then share the vitals.

The Attendant takes the patient's vitals using the Neurosynaptic Medical Devices. After the Attendant clicks **Share**, you can see the vitals on your *Vitals* tab.

If the Attendant has shared the vitals with you before you have both joined the conference, you will see the vitals now. If not, you can use the Chat feature to request that the Attendant share the vitals now, or you can go to "Step 5 - Join the Teleconference" on page 3- 5, and come back to this step after you have joined the teleconference.



Figure 3-3 The Attendant Shares the Patient's Vitals



The standard unit of measurement will be what is configured for the Attendant station. Be aware that the measurement you see may not be what is standard for you.

Step 5 – Join the Teleconference

The "Join" function allows you, the patient, and the Attendant to communicate with one another orally and visually. Both the Attendant and the Provider must click **Join** to see each other on the video monitors.

Positioning the Patient

The Attendant will most likely have positioned the patient in a chair in front of the camera, as this is the optimal viewing situation. If you require an adjustment, you can let the Attendant know.

If the patient needs to lie down during the exam for medical reasons, you and the patient can still see each other, but the patient may be outside of the camera's optimal focal range, and will appear smaller on your screen. Also, the patient's facial expressions and true skin color may be harder to see. Eye contact may not be possible.

Making Eye Contact

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If you are not used to consulting by teleconference you may need to remember that if you look into the camera, you can establish eye-contact with the patient. However, if you look at the patient's eyes on the video screen, it appears as if you are looking lower down.

Joining the Teleconference

To join the teleconference, click the **Join** button. If the Attendant has already clicked **Join**, you will see the Attendant and patient immediately.

The illustration (Figure 3-4) shows the **Join** button at the Provider station, and the video monitors for both the Attendant and Provider stations once both parties have connected.

Figure 3-4 The Provider Joins the Teleconference

Print Appointment Patient Id First Name Last Name Gender Date Of Birth Age Reason For Visit Allergies	1234 Beau Kidder Female 10/09/1953 57 Blurry vision Sulpha	(mm/dd/yyyy)	The Patient and Attendant see the Provider	
Medications Provider	None Doctor Lee		The Provider sees the Patient and the Attendant	
Consult Participants Exit Appointment	Pat Nurse Doctor Lee		The Join	
Join Join			Button	

Conducting the Examination

A major purpose of the Cisco HealthPresence system is to enable the Attendant to operate the medical devices, and allow you to interpret the results from a remote site. The devices that the Attendant can use with the Cisco HealthPresence are listed and described in "Supported Neurosynaptic Medical Devices" on page 1-4.

You will probably not ask the Attendant to use every piece of equipment for every appointment. These are the things you may want to do:

- Optimize the Audio Volume
- View ECG Data
- Listen to Stethoscopic Sounds

Optimize the Audio Volume

The phone at the Attendant station may be one of several types. The types of phones and their volume controls are described in Appendix B, "Types of Audio Equipment".



The video conferencing microphone can transmit ambient noise in the surrounding area, such as audible conversations in or near the same area. If this seems to be a problem, ask the Attendant to try to reduce or eliminate background noise before continuing with the patient appointment.



Some video systems use an integrated IP phone to connect video conference calls and to control the volume of conference calls. Depending on how your system was configured, if you have one of these IP phones, outside calls may or may not be supported. This includes 911 calls.

View ECG Data

You may ask the Attendant to share the ECG data. To view the data:

- 1. Click the *ECG* tab (see Figure 3-5).
- 2. Ask the Attendant to click the **Start** button.

The data is displayed first on the Attendant's screen, and, a few seconds later, on your screen.

Figure 3-5 Viewing the ECG Data

o HealthPresence	
ed in as: Kim Doctor (Role: provider)	Change Passent Lock Loom
spointment	Vitais ECG Chat Write Prescription
Pabent Id 1234 First Name John Last Name Doe	Vertical 10mm/mv/Horizontal: 25mm/Sec Lead 1 V1
Gender Male Date Of Birth 82201/1951 Age 80	Lead 2 V2
Reason For Visit Sore throat	Léad 3 V3
Nedications lipitor Provider Kim Doctor Consult	The and a second The Andrea
Paticipants Pat Nurse Kim Doctor	ave V4
Nepresence Jan	aVL V5
ethoscope Status: Idle	aVF V5

Listen to Stethoscopic Sounds

If you want the telephonic stethoscope to be part of this exam, the Attendant can set up the system at the Attendant's station to transfer the patient's heart and lung sounds to your headset. (The Attendant cannot hear the stethoscope sounds.) You control the volume using the control on your screen (see Figure 3-6.)

To use the telephonic stethoscope:

1. Let the Attendant know that you want to use the stethoscope, and where you want him or her to place the stethoscope on the patient's back or chest.

The Attendant positions the stethoscope, and clicks Start.

You can hear the stethoscope sounds through your headset, and the Stethoscope Status indicator on your screen changes from *Idle* to *Starting*.

- 2. Let the Attendant know if you'd like to have the scope repositioned. (You will be able to see where the scope is located using the video.)
- 3. When you have what you need, ask the Attendant to click Stop.

<u>}</u> Tip

It's a good idea to make sure that the volume on the computer is set to the lower third of its range when you first begin to listen through the headphones. You may also want to make sure that the stethoscope is plugged in before you log in to the system.

Figure 3-6 Listening to Stethoscopic Sounds



Exit the Appointment

Figure 3-7 Exit the Appointment

When you have finished, click **Exit** to leave the appointment.

You can proceed to another appointment, or you can log off the Provider station entirely.

If you exit the appointment and return while the appointment is still active, you will see the vitals and any current video. When you exit an appointment, it has no impact on the cached patient data.

	Ennt		
	Appointment		
	PatientId	1234	
	First Name	Beau	
	LastName	Kidder	
	Gender	Female	
	Date Of Birth	10/09/1953	(mm/dd/yyyy)
	Age	57	
	Reason For Visit	Blurry vision	
	Atlergies	Sulpha	
	Medications	None	
•.	Provider	Doctor Lee	
kit	Consult		
utton	Participants	Pat Nurse Doctor Lee	
	Exit Appointment		

Message Viewing Area

Using Special Features and Functions

The items included in this section are all features that you may find useful, but that are not necessarily a part of every appointment. These features include:

Chat Tab

- Chat with the Attendant
- Consult a Specialist
- Print Patient Data
- Write, View, and Print Prescriptions

Chat with the Attendant

Figure 3-8 Using the Chat Feature

The Chat feature allows you to confer with the Attendant and any of the other appointment participants using text messages. For example, if there is a language difference, you can use Chat to clarify communication. As another example, a specialist could share a URL related to the ailment or treatment.

A major bonus of the Chat feature is that, unlike with verbal communication, anything that you or the other participants "say" can be saved as part of the permanent record by being printed out.

To use the Chat feature:

- 1. Click on the **Chat** tab.
- **2.** Select the participant(s) from the drop down list.
- **3.** Type the message.
- 4. Click **Send** (or press the **Enter** key on your keyboard).



It is quite possible that the patient can see the screen, so don't type anything you would not want the patient to read.



Sender and Time

Consult With a Specialist

If your installation has the multi-party capability, the Attendant can set up the teleconference so that you can consult with a specialist (or other physician) within the context of this appointment. When there is more than one Provider, the one that appears on the Attendant's video monitor will be the one who is speaking or, if neither is speaking, the one who has spoken last.

You can also consult with a specialist from another business entity if the Attendant has chosen the B2B feature when setting up the appointment.

ppointment		
Patient Id	1234	
FirstName	Beau	
LastName	Kidder	
Gender	Female	
Date Of Birth	10/09/1953	(mm/dd/yyyy)
Age	57	
Reason For Visit	Blurry vision	
Allergies	Sulpha	
Medications	None	
Provider	Doctor Lee	
Consult	Doctor Fox	
Participants	Pat Nurse Doctor Lee	

Figure 3-9 The Consult Feature from the Provider's Station

Author Note: No changes?

Consult Box

To bring the specialist (or other physician) into the appointment, ask the Attendant to select a Provider for the *Consult* field.

If this consultation has been arranged in advance, the Attendant can select the appropriate Provider (whose name will be on the Provider's list). If you have not already arranged for this consultation, you can ask the Attendant to read you the list of available physicians with the speciality you need. (You will not be able to see the Provider list from your system).

Once the Attendant has selected a consulting Provider, this appointment will appear on his or her *Appointments Ready* screen (just as it did on yours). The consultant's name appears in the *Consult* box (see Figure 3-9). When the specialist joins the teleconference, his or her name appears in the *Participants* box.

Print Patient Data

If your site has a printer attached to the Cisco HealthPresence system, you can print out most of the appointment data. You can print the text portions of the appointment (see Figure 3-10) and you can also print ECG images (see Figure 3-11 on page 3-13).

Printing Text Information

To print out the textual patient data:

1. In the upper left-hand corner of the screen, click **Print**.

A pop-up dialog box provides a list of the items that you can choose to print.

2. Check the boxes for the things that you want to print, and click OK.

A print preview is displayed.

3. If this is what you want to print, click **Print** at the bottom left of the preview screen.

Figure 3-10 P	inting Textual Data	
---------------	---------------------	--

int Button			Pri	nt Dialog Box		
int .						
Appointment			Vitals			
Patient Id 12	234		Weight 117.8	lb		
First Name Be	au		Height 63	in		
Last Name Ki	dder		Temperature 10	F		
Gender Fe	emale		SYS/DIA 120/70	mmHg		
Date Of Birth 10)/09/1953 (mm	n/dd/yyyy)	Pulse 65	bpm		
Age 57		Manager Statione	1000	opini		
Reason For Visit BI	urryvision	Print				
Allergies St	Jpha	Items to be Printed				
N	one	Appointment			I I	
Medications	Dire	Vitals	Print Return			
Provider De	octor Lee	Chat				
Consult		Ok Cancel	Appointment		Vitals	
Participants P:	at Nurse		Date/Time:	06/03/2011 3:47 PM	Weight:	117.8 lb
D	octor Lee	-	Patient Id:	1234	Height:	63 in
Exit Appointment			First Name:	Beau	Temperature:	101 F
elepresence		-	Last Name:	Kidder	SYS/DIA:	120/70 mm
			Gender:	Female	Pulse:	65 bpm
Join			Date Of Birth:	10/09/1953	Spo2:	99 %
			Age:	57		
			Reason For Visit	Blurry vision		
			Allergies:	Sulpha None		
			Provider:	None Doctor Lee		
			Participants:	Pat Nurse		
				Doctor Lee		
Drir	nt Preview					
	•		Chat			
Pri	nt Button		Doctor Lee Pleas 3:12:15 PM	se share vitals now.		
			Pat Nurse Shari 3:13:04 PM	ing now		
			Print Return			

<u>Note</u>

Although there are **Print** and **Return** buttons at both the top and the bottom of the Print Preview screen, these do not show up on the printout.

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Printing Text Information with ECG Data

If the ECG tab is displayed on your system, you can also print ECG data. To print out the patient data including the ECG graph follow these steps:

1. In the upper left-hand corner of the screen, click **Print**.

A pop-up dialog box lists the items that you can choose to print.

2. Check the boxes for the things that you want to print, and click OK.

A print preview is displayed. If this is what you want to print, click **Print** at the bottom left of the preview screen (see Figure 3-11 on page 3-13).

Figure 3-11 Printing ECG Data



Write, View, and Print Prescriptions

If your site supports the E-Pen feature, a physician can write prescriptions on the Cisco HealthPresence system using an E-Pen. Providers write prescriptions on the *Write Prescription* tab (see Figure 3-12), and Attendants (or other participants) view these prescriptions from the *View Prescription* tab (see Figure 3-13 on page 3-15). Either can print the prescription.

Writing a Prescription

To write a prescription:

1. Click the Write Prescription tab.

You see a screen similar to the one shown in Figure 3-12.

2. Use the E-Pen to write the prescription.

If you need to erase what you have written, click the **Clear** button.

3. When you have finished, click the **Share** button to share the prescription with the Attendant and any other participants in the appointment.

Figure 3-12 Writing Prescriptions

Cisco HealthPre	sence				
ged in as: Kim Docto	r (Role: provider)				Change Password Lock Logost &
Appointment			Vitals ECG Chat Write	Prescription	
Patient Id	1234				
First Name	John				
LastName	Doe				
Gender	Male				
Date Of Birth	02/01/1951	mm/dd/yyyy)			
Age	60				
Reason For Visit	sore throat	_			
Allergies	nuts				
Medications	lipitor				
Provider	Kim Doctor				
Consult					
Participants	Pat Nurse Kim Doctor		Share Clear		
Exit Appointment					
Telepresence					
Join Leave.					
Stethoscope		/			
Status: Idle					
unando, rune					

Viewing a Prescription

When the Provider shares the prescription, the system adds a header (often a business name and logo) and a data section to the top of the prescription, and a trailer (often an address) at the bottom, and then saves the prescription with the appointment data. The example shown in Figure 3-13 shows the header, the data section, and the prescription, but the footer is not visible without using the scroll bar.

The *View Prescription* tab is displayed only if a Provider has written a prescription for this appointment. If there are multiple prescriptions, any of the participants can click the **Next** and **Previous** buttons. Only the Provider who wrote the prescription has a **Delete** button.



Figure 3-13 Viewing Prescriptions

Printing a Prescription

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To print a prescription click the Print button in the upper left-hand side of the *View Prescription* screen (see Figure 3-13).



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The Medical Conferencing Feature

Revised: January 5, 2012, 78-20626-01

This chapter describes the Cisco HealthPresence medical conferencing feature. This feature allows you to bring teleconferencing out of the meeting room and into a medical environment.

The conferencing capability is based on Cisco HealthPresence appointment teleconferencing, which is discussed elsewhere in this manual. If you are not already familiar with how Cisco HealthPresence appointments work, you should take a few minutes to read the Introduction to this manual to acquaint yourself with the terminology and to see how the shared workflow is managed.

- About Conferences in General
 - Types of Conferences
 - The Players and Their Roles
 - Ending a Conference
 - Possible Scenarios
 - Controlling the Audio Volume
- Starting or Entering a Conference
 - Starting a Conference
 - Entering a Conference
- Starting or Entering a Business-to-Business Conference
 - Starting a B2B Conference
 - Entering a B2B Conference
- Presenting a Conference
 - To Share Patient Vitals
 - To Start a Teleconference
 - To Share Stethoscopic Sounds
 - To Share ECG Data

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About Conferencing in General

This section provides an overview of the Cisco HealthPresence conferencing concept. More specific information, including step-by-step instructions based on conference type, is provided in later sections.

Types of Conferences

You can schedule a Cisco HealthPresence conference with the Presenter and all of the Participants in the same Business entity. This may be a hospital, a physicians office, or even a corporation. These entities may or may not be under the same roof, or even in the same city.

You can also schedule a Business-to-Business (B2B) conference, which involves more than one Business entity; however, all of the business entities must be in the same B2B Group. For an illustrated explanation of the Business-to-Business model, see "Understanding the Business-to-Business Concept" on page 2-7.

The Conference Environment

If your installation has the multi-party feature (see "Choosing a Call Type" on page 2-6), you can schedule a "medical" conference (that is, one that includes the medical instrumentation) for up to three people – one Presenter and two Participants; however, only one Participant can listen to the stethoscope. If your installation does not have the multi-party calling capability, you can have one Presenter and one Participant.

If your installation has the multi-party feature, and if the conference that you want to host does not include using the medical equipment, the number of people that you can invite to participate will depend on how your system was configured when it was installed.

You can participate in a conference from either an Attendant station or a Provider station. You can also be a Presenter from either an Attendant station or a Provider station. However, if you want to be able to collect and share patient data from any of the medical equipment, you must use an Attendant station. To see how each of these types of stations is equipped, see "Details of the Components and Equipment" on page 1-3.

The Players and Their Roles

There are two primary roles in Cisco HealthPresence conferences: the Presenter and the Participants. These two roles are described here.

The Presenter Role

The person who starts the conference is the Presenter. The Presenter's responsibilities include:

- Creating an alphanumeric Conference ID. This ID may have up to thirty characters, and should be unusual enough that it is probably unique.
- Choosing whether this is to be a local conference or a B2B conference.
- If this is a B2B conference, choosing which Business Group is to be invited.
- Deciding on the nature of the conference, and arranging for the appropriate Cisco HealthPresence station(s) to be available at the scheduled time.
- Deciding whether to use the medical devices as part of the conference.

In addition, the Presenter must also make sure that these administrative tasks are taken care of:

- Inviting the participants (this can be done by email, bulletins, or whatever seems appropriate).
- Making sure that each invited participant has the date, time, and Conference ID, and, if this is a B2B conference, the name of the B2B Group and the individual Business entity that is sponsoring the conference.

The Participant Role

The people who attend the conference are the Participants. Their responsibilities include:

- Knowing the date and time of the conference.
- Obtaining the Conference ID, and, if this is a B2B conference, the B2B Group and the individual Business entity that is sponsoring the conference.
- Reserving a Cisco HealthPresence station at the appropriate date and time.

Ending a Conference

If you are a Participant, you can leave the conference at any time by clicking **Exit Appointment** on the Appointment window.

If you are the Presenter, you end the conference by clicking the End button.

Possible Scenarios



This section lists some of the ways that your installation could use the conference feature.

Your installation could use the conference feature as a training session for other medical professionals. In this scenario, the Presenter could be a specialist who is demonstrating a new technique to colleagues (see Figure 4-1.)



Your installation could use the conference feature as a training session for patients. In this scenario the Presenter would be someone who is explaining techniques for managing a disease that all of the Participants (patients) have in common (see Figure 4-2).



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Controlling the Audio Volume

The phone at the Cisco HealthPresence station may be one of several types. The types of phones and their volume controls are described in Appendix B, "Types of Audio Equipment".



Some video systems use an integrated IP phone to connect video conference calls and to control the volume of conference calls. Depending on how your system was configured, if you have one of these IP phones, outside calls may or may not be supported. This includes 911 calls.

Starting or Entering a Conference

You can participate in a conference either as a Presenter or as a Participant. If you are the Presenter, you will *Start* the conference; if you are one of the Participants, you will *Enter* the conference.

Starting a Conference

Normally, you will begin your sessions from the Cisco HealthPresence *Login* screen (see Figure 1-5 on page 1-9); however, if you don't see that screen, see "Gaining Access to the System (If Necessary)" on page 1-8.

When the Login screen is displayed:

- 1. Type your Username and Password in the spaces provided.
- 2. Click the Login button.

Once you have logged in, if you have a Presenter role, the *Start Conference* screen displays (see Figure 4-3). (If you have other roles as well, you may need to click on the screen name to display it.)

- **3.** Type in an alphanumeric *Conference ID*.
- 4. Click the Start Conference button.

You will see the *Start Appointment* window (see Figure 2-1 on page 2-3). You can add patient data to this screen or leave it blank.

5. If necessary, optimize the volume (see Appendix B, "Types of Audio Equipment").

You next step will depend on what type of conference you are presenting. (See "Presenting a Conference" on page 4-9.)

Figure 4-3 The Start Conference Screen

Cisco HealthPresence		
Logged in as: Terry Trainer (Role: presenter)	Change Password Lock Logout About	
	Device Status 🖉	
Start Conference		Conference
Conference ID		Start Conference Button
© 2009-2011 Cisco and/or its affiliates. All rights reserved.		

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Entering a Conference

Normally, you will begin your sessions from the Cisco HealthPresence *Login* screen (see Figure 1-5 on page 1-9); however, if you don't see that screen, see "Gaining Access to the System (If Necessary)" on page 1-8.

When the Login screen is displayed:

- 1. Type your Username and Password in the spaces provided.
- 2. Click the Login button.

Once you have logged in, if you have a Participant role, the *Enter Conference* screen displays (see Figure 4-4). (If you have other roles as well, you may need to click on the screen name to display it.)

- 3. Type in the alphanumeric *Conference ID* in the space provided.
- 4. Click the Enter Conference button.

You will see the *Appointment* window (see Figure 3-2 on page 3-3). The conference Presenter may have entered some data, or the fields may be empty.

5. If necessary, optimize the volume (see Appendix B, "Types of Audio Equipment").

Figure 4-4 The Enter Conference Screen

Cisco Cisco HealthPresence		
Logged in as: Shane Student (Role: participant)	Change Password Lock Legout About	
Enter Conference		Conference ID
Conference ID		Enter Conference Button
© 2009-2011 Cisco and/or its affiliates. All rights reserved.		

<u>}</u> Tip

The teleconference microphone can transmit ambient noise in the surrounding area, such as audible conversations in or near the same area. If this seems to be a problem, ask the Presenter to try to reduce or eliminate background noise before continuing.

Starting or Entering a Business-to-Business Conference

You can participate in a B2B conference either as a Presenter or as a Participant. The Presenter *Starts* the conference, and the Participant(s) *Enter* the conference

Starting a B2B Conference

Normally, you will begin your sessions from the Cisco HealthPresence *Login* screen (see Figure 1-5 on page 1-9); however, if you don't see that screen, see "Gaining Access to the System (If Necessary)" on page 1-8.

When the *Login* screen is displayed:

- 1. Type your Username and Password in the spaces provided.
- 2. Click the Login button.

Once you have logged in, if you have a Presenter role, the *Start Conference* screen displays (see Figure 4-3). (If you have other roles as well, you may need to click on the screen name to display it.)

- **3.** Type in an alphanumeric *Conference ID*.
- 4. Indicate that this is a B2B conference by clicking the check box.
- 5. Use the drop-down menu to select the B2B Group that is sponsoring this conference.
- 6. Click the Start Conference button.

You will see the *Start Appointment* window (see Figure 2-1 on page 2-3). You can add patient data to this screen or leave it blank.

7. If necessary, optimize the volume (see Appendix B, "Types of Audio Equipment").

You next step will depend on what type of conference you are presenting. (See "Presenting a Conference" on page 4-9.)

Figure 4-5 The Start Conference Screen (B2B)



Entering a B2B Conference

Normally, you will begin your sessions from the Cisco HealthPresence *Login* screen (see Figure 1-5 on page 1-9); however, if you don't see that screen, see "Gaining Access to the System (If Necessary)" on page 1-8.

When the Login screen is displayed:

- 1. Type your Username and Password in the spaces provided.
- 2. Click the Login button.

Once you have logged in, if you have a Participant role, the *Enter Conference* screen displays (see Figure 4-4). (If you have other roles as well, you may need to click on the screen name to display it.)

- 3. Type in the alphanumeric *Conference ID* in the space provided.
- 4. Click to put a checkmark in the B2B Conference box.
- 5. Select the appropriate B2B Group.
- 6. Select the Business entity that is sponsoring the conference.
- 7. Click the Enter Conference button.

You will see the *Appointment* window (see Figure 3-2 on page 3-3). The conference Presenter may have entered some data, or the fields may be empty.

8. If necessary, optimize the volume (see Appendix B, "Types of Audio Equipment").

Figure 4-6 The Enter Conference Screen (B2B)



<u>P</u> Tip

The teleconference microphone can transmit ambient noise in the surrounding area, such as audible conversations in or near the same area. If this seems to be a problem, ask the Presenter to try to reduce or eliminate background noise before continuing with the conference.

Presenting a Conference

You can use the conferencing feature for several different types of conferences. As part of the setup process, the Presenter needs to decide which type of conference to present, and which equipment to use. Once you have clicked the **Start Conference** button you will see the *Start Appointment* window (see Figure 4-7).

- 1. Click the **Ready** button to begin.
- 2. What you do next will depend on what type of conference you want to present. See the instructions in the following sections.



Figure 4-7 Start Appointment Screen for Presenters

To Share Patient Vitals

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If your presentation includes a patient, and you want to gather and share that patient's vital signs, see "Gathering and Sharing Patient Vitals" on page 2-9. The directions given in Chapter 2 for an Attendant working with a Provider also apply to a Presenter working with Participants. The only difference is that you click the **Share** button to share the vital signs with the conference Participants, not with a Provider.

To Start the Teleconference

After you have clicked the **Ready** button, to start the teleconference, click the **Join** button. (See "Step 5 – Join the Teleconference" on page 2-13.) The instructions in Chapter 2 apply to a Presenter communicating with Participants as well as to an Attendant communicating with a Provider.

To Share Stethoscopic Sounds

If you want to share stethoscopic sounds with one of the conference Participants, see "Share Stethoscopic Sounds" on page 2-16.

To Share ECG Data

If you want to share ECG data with conference Participants, see "Share ECG Data" on page 2-15.





Maintaining the System

Revised: January 5, 2012, 78-20626-01

This appendix lists the tasks that need to be performed each morning before the first Cisco HealthPresence appointment or conference. It lists ways to keep your equipment at its best throughout the work day, and, finally, it lists the tasks that need to be performed at the end of each day.

Morning Maintenance Tasks

Normally, you will begin your sessions from the Cisco HealthPresence *Login* screen (see Figure 1-5 on page 1-9); however, if you don't see that screen, see "Gaining Access to the System (If Necessary)" on page 1-8.

When the Login screen is displayed:

- 1. Type your Username and Password in the spaces provided.
- 2. Click the Login button.

Once you have logged in, if you have an Attendant role, the *Start Appointment* screen displays (see Figure 2-1 on page 2-3).

- **3.** When the *Start Appointment* screen is displayed (see Figure 2-1 on page 2-3), click the **Start Appointment** button.
- 4. Test the Neurosynaptic Medical Devices as recommended by the manufacturer.

Throughout the Day

To ensure that your Cisco HealthPresence equipment remains in optimal working condition:

- Turn off the medical devices when they are not in use.
- Replace protective covers, if appropriate.

Evening Maintenance Tasks

At the end of each work day, these tasks need to be performed at every Cisco HealthPresence station:

- 1. Log out of the Cisco HealthPresence system.
- 2. Leave the power strip turned on.
- 3. Leave the system powered on.





Types of Audio Equipment

Revised: January 5, 2012, 78-20626-01

Supported Audio Equipment

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The phone that you use with your Cisco HealthPresence system will be one of the ones listed in the table below. This table tells you whether or not the phone you are using is one of the IP phones, and how to control the volume.

Telephone	IP Phone?	Description	Volume Control	Illustration
Cisco TelePresence System 500 (CTS 500)	Yes	Consists of an integrated 37" display, camera, microphone, speakers, a Cisco Unified 7975G IP phone, and the Cisco TelePresence codec.	Use the volume control on the phone.	
Cisco Unified Video Advantage	Yes	Adds video to your communications by adding video telephony functionality to the Cisco IP Communicator.	Use the volume button on the IP Communicator screen, or use the up and down arrows on your keyboard.	
Cisco Unified IP phone 7985G	Yes	A desktop video phone, which includes a camera, LCD screen, speaker, keypad, an integrated codec, and a handset.	Use the volume control on the phone.	

Table B-1 Phones Used with the Cisco HealthPresence System

Telephone	IP Phone?	Description	Volume Control	Illustration
Cisco TelePresence System EX90	No	Video conferencing systems with fully integrated units including a codec, display, camera, microphone, and loudspeakers.	Use the volume control on the touch pad.	
Cisco TelePresence System EX60	No			
Cisco TelePresence C20	No	Fully interoperable with standards-based video conferencing or telepresence systems.	Use the remote control (shown) or the touch pad to raise or lower volume.	
Cisco TelePresence System C40	No			

Using the Phone for Other Purposes

You may not be able to use your phone to access outside lines; this includes 911. The signage at your site should indicate whether or not you can use this phone for purposes other than Cisco HealthPresence tasks.



Some video systems use an integrated IP phone to connect video conference calls and to control the volume of conference calls. Depending on how your system was configured, if you have one of these IP phones, outside calls may or may not be supported.

You can, if necessary, use this phone to communicate with another Cisco HealthPresence station using only the audio portion of the system. However, you should only do this if the video is not available, because you will not be able to start a video conference if you are in the middle of an audio call. As soon as you pick up the receiver, you will be making an audio-only call and the video portion of the system will not work.



GLOSSARY

Revised: January 5, 2012, 78-20626-01

Α	-
Attendant	The licensed health care professional who attends the patient. This role includes positioning the patient, and using the medical devices to assist the Provider in evaluating the patient. An Attendant can be a medical technician, a nurse, a nurse practitioner, or a physician.
Attendant Station	The place where the patient and the Attendant meet. This area contains the medical device(s) used by the Attendant, the video conferencing system, and the Cisco HealthPresence Attendant Appliance. See "Components at the Attendant Station" on page 1-3.

В

B2B	Business-to-Business. The Cisco HealthPresence system allows communication between stations in the same Business Entity, or from one Business Entity to another (B2B).
Browser	A computer application that connects your computer with the Internet. The Cisco HealthPresence solution uses <i>Internet Explorer</i> as its browser.
Business Entity	The Attendant and Provider stations managed by a single Cisco HealthPresence Application Server.

С

Chat	A feature that allows appointment participants to communicate using text messages. See "Chat with the Provider(s)" on page 2-19.
Cisco HealthPresence Solution	The system that combines audio, video, telemetry, computer networking, and a graphical user interface to enable physicians to offer services to patients in locations throughout the world.
Conference	A teleconference using the Cisco HealthPresence solution. Can be a regular conference (between members of the same Business Entity), or a B2B Conference (between members of the same B2B Group). See "Types of Conferences" on page 4-2.

Е

E- Pen Electronic Pen. Allows physicians to write online prescriptions.

EMR Electronic Medical Records. If your system includes the necessary software and is configured to enable an EMR interface, then you can save data from the appointment to EMR. See "Step 1 – Save the Patient Data" on page 2-17.

Н

Hosted A software delivery model in which the Cisco HealthPresence software and associated client data reside in a central location managed by a hosting service, and are accessed by clients using a web browser.

Μ

Medical Devices	Collection of medical devices used with the Cisco HealthPresence system. See "Supported Neurosynaptic Medical Devices" on page 1-4.
Medical Telemetry	The technology that allows the Attendant to measure and report medical information remotely.
Multi-Party	An appointment option that allows you to include more than one Provider in an appointment. If your system is configured to support multi-party calls, the Attendant chooses whether the call is going to be a two-party call (a point-to-point call) or a multi-party call (a bridge call). See "Step 3 – Select Appointment Options (if Applicable)" on page 2-6.

Ρ

Participant	The user role for the user who joins in a conference initiated by a Presenter.
Presenter	The user role for the user who initiates a conference.
Provider	The licensed medical professional who provides medical evaluations from a remote site. Most often this will be a physician, a physician's assistant, or a nurse practitioner.
Provider Station	The place where the Provider sits during the teleconference. This area contains the video conferencing system and the Cisco HealthPresence Provider Appliance. See "Components at the Provider Station" on page 1-3.

S

Site Admin Site Administrator. The person who maintains user accounts on the Cisco HealthPresence system.

Т

Telehealth Appointment	A Cisco HealthPresence medical appointment in which the Attendant can share patient vitals, video streams, and audio streams, with a Provider in a different location.	
Telemetry	The technology that allows a health care professional to measure patient medical data locally, and report the information to a physician in a different location.	
U		
URL	Uniform Resource Locator. An address on the World Wide Web. When you click a URL, your web page is redirected to that location	
User Role	Your User Role determines which screens you see, and which functions you can perform. User IDs are configured so that users with a particular role (or roles) see only the screens and options appropriate to that job description. Any given user can have from one to five roles within one User Account. The Site Administrator configures the User Accounts. See "The Importance of User Roles" on page 1-5.	
V		
Vitals	Patient data that includes temperature and blood pressure. Collected using the Neurosynaptic Medical	

Vitals Patient data that includes temperature and blood pressure. Collected using the Neurosynaptic Medical Devices, and transmitted to the Cisco HealthPresence system. See "Step 2 – Gather the Patient's Vitals" on page 2-10.

W

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WindowsThe operating system used by your Cisco HealthPresence system. If your system has been powered off,
either deliberately or accidentally, you will need to enter the Windows password for your installation.
See "Gaining Access to the System (If Necessary)" on page 1-8.

Glossary