Polycom Telepresence m100

Help Book

Version 1.0

Table of Contents

Getting Started with Polycom Telepresence m100

Welcome to Polycom Telepresence m100

Polycom Telepresence m100 is an easy-to-use video conferencing application that lets you see and hear the people you call. With Polycom Telepresence m100, you can connect to anyone else who is using Polycom Telepresence m100 or other types of video conferencing systems. You can show your Windows desktop to participants in video calls. Polycom Telepresence m100 contacts who don't have cameras can still participate in calls.

Related Topics

Starting Polycom Telepresence m100

Software Updates and License Activation

Placing a Call

Starting Polycom Telepresence m100

You can start Polycom Telepresence m100 manually when you want to make a call, or you can configure it to start automatically when you start Windows . Once Polycom Telepresence m100 is running, you can place or receive calls.

To start Polycom Telepresence m100 manually:

>> On your Windows desktop, double-click   to start Polycom Telepresence m100.

To exit from Polycom Telepresence m100:

1. In the Windows system tray, right-click   .

2. Choose **Exit**.

To configure Polycom Telepresence m100 to start automatically:

1. From the main window, click **Menu > Preferences > General**.

2. Select **Automatically start Polycom Telepresence m100 when system starts**.

3. Click **OK**.

Tip: These settings take effect the next time you restart.

Related Topics

Placing a Call

Answering a Call

Activating Your Software

Polycom Telepresence m100 prompts you to activate your software every time it starts until you enter a valid activation key code. You can either enter the activation codes or simply click **Continue** if you prefer to use the evaluation version.

You can obtain an Activation Key Code from the Polycom web site, or you can use an Activation Key Code file provided by your network administrator.

To obtain activation key code for your Polycom Telepresence m100 :

1. On a computer, open Internet Explorer version 6.x, 7.x, or 8.x.

2. Log in at http:// support.polycom.com.

3. Under **Licencing & Product Registration**, click **Activation/Upgrade**.

Note that you will need to set up an account if you don't have one.

3. Click **Single Activation/Upgrade**.

Follow the onscreen instructions to request the activation key code. Make a note of this number for use during activation of your software.

To activate Polycom Telepresence m100 by importing a License File:

1. Save the Activation Key Code file to your local computer.

2. From the main window, click **Menu > Preference > Activation**.

3. Select **Import License File**, then select the license file saved on your computer.

4. Click **Import**.

To activate Polycom Telepresence m100 manually:

1. From the main window, click **Menu > Preference > Activation**.

2. Select **Manual Input**, then input the license number and the activation key code of your product.

3. Click **Activate**.

Related Topic

Preferences: Activation

First Steps with Polycom Telepresence m100

To get started, try these Polycom Telepresence m100 tasks. To get more detailed information, use the links to related topics at the bottom of this topic.

After you install the Polycom Telepresence m100, there are five sample sites included in your Contacts list. You can make H.323 calls to these sample sites. You can also choose to delete them.

To Call a Sample Site from Your Contacts List

1. Select a sample site from your Contacts list.

2. Set the call type to H.323.

3. Click **Call** to start the call.

To Restore the Sample Sites to Your Contacts List

1. From the main window, click **Menu > Preferences > User Profile**.

2. In the Import Contacts section, click ⋯ and go to C:\Program Files\Polycom\Polycom Telepresence m100\assets\samplesites

3. Select PolycomSampleSites.xml.

4. Click **Import**.

5. Click **Merge**.

Related Topics

About Your Contacts List, the Directory, and Your Recent Calls
Placing a Calls
Answering a Call

Calling and Answering

Placing a Call

You can place a call by choosing a name from your Contacts list, the Directory, or your Recent Calls. You can also call by entering the calling information yourself. Depending on the type of system you're using and the type of system you're calling, you can place a video call, or place an audio call.

To place a call by choosing a name from your Contacts list:
>> Do one of the following:

- Double-click a Contact to place a video call. If the Contact's system does not support video, an audio call starts.

- Select a Contact, and then click ⬤ to place a video call.

- Right-click a Contact and choose **Place a Call**.

To place a call from the Directory:

1. Click 📓 to open the Directory.

2. Type a name in the **Search Text** field. For example, if you type **and**, your search may find Contacts such as Andrew Jones, Christine Anderson, or Andover Conference Room.

3. Click a name and then click ⬤ **Call** to start the call.

To place a call from your Recent Calls:

1. From the main window, do one of the following:

    - If your system is configured to include Recent Calls as a Contacts list group, click ⊞ to open the Recent Calls group, and select a name.

    - Click in the manual dial box at the bottom of the main window and start typing. If the Polycom Telepresence m100 finds the name you want, you can click to select it.

    - In the manual dial box at the bottom of the main window, click ▼, then select a name.

2. Click ⬤ **Call** to start the call.

To place a call by entering the calling information:

1. Type the calling information in the field at the bottom of the main window. As you type, the system finds matching Contacts from your Recent Calls. If Polycom Telepresence m100 finds the name you want, you can click to select it.

2. Click ⬤ **Call** to start the call.

To call a virtual meeting room on a bridge:

1. Do one of the following:

    - If Polycom Telepresence m100 and the virtual meeting room are registered to the same gatekeeper, enter the extension (E.164 address).

    - For SIP calls, enter the address in this format: RoomNumber@IP_Address. For example, 1000@11.12.13.14.

    - For H.323 calls, enter the address in this format: IP_Address##Extension. For example: 11.12.13.14##1000.

2. Click ⬤ **Call** to start the call.

Related Topics

Answering a Call

When you receive a call, you see a call notification that tells you who is calling. You can configure Polycom Telepresence m100 to answer calls automatically after this message appears, or you can configure Polycom Telepresence m100 to let you answer calls manually.

Automatically answering video calls is convenient, but keep in mind that an unexpected caller could interrupt you when you're busy or look at your room if you aren't there. To prevent callers from overhearing a conversation not intended for them, you can choose to mute all automatically answered calls.

To answer a call manually:

>> Click **Answer** to accept the call.

To ignore a call manually:

>> Click **Ignore** to refuse the call.

To set the system to answer calls automatically:

1. From the main window, click **Menu > Preferences > General**.

2. Enable **Auto-answer incoming calls**.

3. If you want to mute all incoming calls, enable **Mute auto-answered calls**.

Related Topics

Ending a Call

Either participant can end a call. When the call ends, the call window closes automatically.

To end a call:

1. If your video is full screen, move your mouse to display the toolbar.

2. Click **Hang up** on the toolbar.

Related Topics

Participating in a Multipoint Call

You can participate in multipoint calls that are hosted by a virtual meeting room or by a video conferencing system that can host multipoint calls. During a multipoint call, multiple sites can hear each other. Participants using video can also see each other.

For most multipoint calls, you choose someone from your Contacts list or the Directory or enter the calling information, just as you do for any other call. Some types of virtual meeting rooms require you to supply a password, extension, or meeting number after the call connects. You can get this information from the meeting organizer.

Some virtual meeting rooms allow the meeting organizer to specify calling information for all participants before the call starts. In this type of multipoint call, you simply answer the incoming call.

To join a multipoint call:

>> Choose the virtual meeting room number from your Contacts list, the Directory, or your Recent Calls.

 You can also click a link in a meeting invitation or manually dial the number supplied to you by the meeting organizer.

To enter a virtual meeting room password, extension, or meeting number:

>> When you hear the prompt, click **Tone Pad** on the toolbar and enter the required number.

To hang up from a multipoint call:

>> Click **Hang up** on the toolbar.

Related Topics

Placing a Call

Answering a Call

Entering a Virtual Meeting Room Password, Extension, or Meeting Number

Entering a Virtual Meeting Room Password, Extension, or Meeting Number

Some types of virtual meeting rooms require you to supply a password, extension, or meeting number after the call connects. You can get this information from the meeting organizer.

To enter a password, extension, or meeting number:

>> When you hear the prompt, click **Tone Pad** on the toolbar and enter the required number.

Related Topics

Participating in a Multipoint Call

Placing a Call

Controlling the Far-End Camera

When you are in a call and the far-end camera supports pan, tilt, and zoom movement, it might be configured to allow you to control it.

To adjust the far-end camera:

1. Click on the toolbar.

2. Click the arrow buttons to move the camera up, down, left, or right:

3. Click **Zoom +** or **-** to zoom in or out.

Related Topic

Placing a Call

Using the Contacts, Directory, and Recent Calls Lists

Managing Your Contacts

From your Contacts list, you can place calls with just a click.

To add a person or system in the Directory to your Contacts list:

1. Click ![icon] to open the Directory.
2. Type a name in the **Search Text** field. For example, if you type **and**, your search may find Contacts such as Andrew Jones, Christine Anderson, or Andover Conference Room.
3. Click a name, then click **Add to Contacts**.
4. Change the display name (optional).
5. Click **OK**.

To add a recent caller to your Contacts list:

1. From the Recent Calls list, find the person or system to add.
2. Right-click and choose **Add to Contacts** to add the person or system to your Contacts list.
3. Change the display name (optional).
4. Click **OK**.

To create a new Contact:

1. From the main window, right-click on the Contacts list, then choose **Create Contact**.
2. Enter the display name and address, then click **OK**.

To delete a Contact:
>> Right-click the Contact and choose **Delete Contact**.

To change a Contact's display name:

1. Right-click the Contact, and choose **Edit Contact**.
2. In the **Display Name** field, type the new name using uppercase and lowercase letters, numbers 0 - 9, and the special characters space, dot, hyphen, backslash, and underscore.

The display name appears only on your computer, so it can be any name that's meaningful to you. For example, you might add your friend, whose address is mypresenceID. You might then choose "Christine" as a display name to help you more easily identify her in your Contacts list.

Related Topics
Searching for a Contact
Seeing Details About a Contact
Configuring the Directory Services

Using the Directory

If your Polycom Telepresence m100 is registered with a directory server, the Directory allows you to search for people and systems which are also registered with the same directory server. You can call the people you find from the Directory, or you can add them to your Contacts list.

To find a person or system in the Directory:

1. Click ![icon] to open the Directory.

2. Type a name in the **Search Text** field. For example, if you type **and**, your search may find Contacts such as Andrew Jones, Christine Anderson, or Andover Conference Room.

Related Topics

Configuring the Directory Services

Managing Your Contacts

Searching for a Contact

About Your Contacts List, the Directory, and Your Recent Calls

Configuring the Directory Service

The Directory Service provides a list of other systems that are registered with the Directory Server and available for calls. The systems appear in the directory, allowing other users to place calls to them by selecting their names.

To configure the Polycom GDS settings:

1. From the main window, click **Menu > Preferences > Directory**.

2. Enable **Global Address Book**.

3. Configure these settings:

Settings	Description
Global Directory (GDS)	Specifies the IP address or DNS address of the Global Directory Server.
Password	Lets you enter the global directory password, if one exists.
Register	Registers this system with the Global Directory Server.
Status	Indicates whether the system is successfully registered with Polycom Global Directory Server.

To configure the LDAP settings:

1. From the main window, click **Menu > Preferences > Directory**.

2. Enable **LDAP**.

3. Configure these settings:

Settings	Description
Server Address	Specifies the address of the LDAP directory server.
Port	Specifies the port used on the LDAP server. If you are using a Polycom CMA server as the LDAP server, use the default port 389.
Base DN	Specifies the top level of the LDAP directory where searches will initiate. For example, dc=company, dc=com. If you are using a Polycom CMA server as the LDAP server, configure Base DN as ou=users, ou=readiManager.

Authentication Type	Specifies the protocol used for authentication with the LDAP server: NTLM, SIMPLE, or ANONYMOUS. If you are using a Polycom CMA server as the LDAP server, use the default setting NTLM.
Use TLS	Transport Layer Security Protocol enables TLS for securing data flow to and from the LDAP server.
User Name	Specifies the user name for authentication with LDAP server. For example, mydomain\jsmith.
Password	Specifies the password for authentication with LDAP server.

Related Topics

Using the Directory

Viewing Your Recent Calls

Polycom Telepresence m100 gives you several ways to view your recent calls:

- Your Recent Calls list lets you see the people and systems you've called and those who have called you. You can use this list to place calls and invite people to be on your Contacts list. To make it easier to find a Contact, each Contact is listed once, even if you have participated in multiple calls together.

- The Call Log gives you another view of the calls you've placed and received. Each call is listed, along with information about each call.

About your Recent Calls

Your Recent Calls list shows you whether you placed or received the call and whether the call connected.

Icon	Description
	Outgoing completed call
	Incoming completed call
	Incoming missed call

To place a call from your Recent Calls list:

1. From the main window, do one of the following:

   - If your system is configured to include Recent Calls as a Contacts list group, click ⊞ to open the Recent Calls group, and select a name.

   - Click in the manual dial box at the bottom of the main window and start typing. If the Polycom Telepresence m100 finds the name you want, you can click to select it.

   - In the manual dial box at the bottom of the main window, click ▼, then select a name.

2.   Click 🟢 **Call** to start the call.

To display your Recent Calls as a group in your Contacts list:

1.   From the main window, click **Menu > Preferences > General**.

2.   Specify whether to show recent calls in the Contacts list.

To view your Call Log:

>> From the main window, click **Menu > Call Log**.

Log entries appear in the list in the order the calls were placed to or received from the person or system. To find a recent call in the call log, click a column heading to sort or scroll through the names. Calls that connected

successfully are marked with 🔵 and calls that did not connect are marked with 🔴.

To delete entries from your Call Log:

1.   From the main window, click **Menu > Call Log**.

2.   Select the entry to delete.

3.   Right-click the entry and choose **Delete Selected Entry**.

Related Topics

Placing a Call
Seeing Details About a Contact
Managing Your Contacts
Searching for a Contact

Searching for a Contact

You can quickly find someone in your Contacts list, the Directory, or your Recent Calls, even when these lists contain many names. Once you find the person you want, click the name to place a call.

To search for a name in your Contacts or Recent Calls lists:

1.   Type the calling information in the manual dial box at the bottom of the main window. As you type, the system finds matching Contacts from your Contacts list and your Recent Calls. If the system finds the Contact, you can click to select it.

2.   Click 🟢 **Call** to start the call.

To search for a name in the Directory:

1.   Click 📙 to open the Directory.

2.   Type a name in the **Search Text** field. For example, if you type **and**, your search may find Contacts such as Andrew Jones, Christine Anderson, or Andover Conference Room.

    3.   Click a name and then do one of the following:

    - Click **Call** to place a video call, if both systems support it. If video is not supported, an audio call starts. If the person is registered with a video conferencing system as well as with Polycom Telepresence m100, you are prompted to choose which system to call.

    - Click **Add to Contacts** to add the person or system to your Contacts list.

4.   Optionally, change the display name.

5.   Click **Close** to return to the main window.

Related Topics

Placing a Call

Configuring the Directory Services

Seeing Details About a Contact

You can see information about each of your Contacts, including display name, call address, status, title, location, phone number, and email address.

To see details about a contact :
>> Right-click a Contact and choose **Show Details**.

To edit a Contact's details:
>> Right-click a Contact and choose **Edit Contact**.

To close the Details window:
>> Click the **X** in the top right corner of the window.

Related Topics

Viewing Your Recent Calls

Managing Your Contacts

About Your Contacts List, the Directory, and Your Recent Calls

Working with Content

Showing the Desktop

When you show your Windows desktop, all participants see the same content at the same time. You can show slides, spreadsheets, or any other type of file. Everyone sees everything on your Windows desktop, including the cursor. The far end cannot control the cursor or edit the file. Only one participant at a time can show content.

Tip: Before you show your Windows desktop, make sure that your content is ready.

To show the Windows desktop to other participants:

1. Click 📺 on the toolbar.

2. Click ▶ **Send Monitor**.

    The other participants see the content the way it appears on your monitor.

To stop showing the desktop:
>> Do one of the following:

- Click ⏹ .

- Close the Show Content window.

Related Topics
Placing a Call
Integrating with eBeam

Integrating with eBeam

If the eBeam application is installed on your computer, you can start eBeam when you show content in video calls.

To show the eBeam application to other participants:

1. In a call, click 📺 on the toolbar.

2. Click 📗 .

    The eBeam application starts automatically. For more information about using eBeam, refer to the documentation you received with your Luidia product..

To stop showing the eBeamapplication:
>> Click ⏹ .

Related Topics
Showing the Desktop

Customizing Your Polycom Telepresence m100 Environment

Showing and Hiding the PIP

During a call, you can verify the video you're sending to the far end by turning on the Picture-in-Picture window (the PIP). The PIP appears in the corner of the main video window. You can turn it on or off any time during a call.

Tip: The toolbar is automatically hidden when you choose full-screen video. To display the toolbar temporarily, move your mouse.

To show or hide the PIP:
>> Click on the toolbar.

Related Topics

Viewing Full-Screen Video

Hiding and Showing Your Preview Video Window

Configuring Alerts

You can set up your Polycom Telepresence m100 to use audible alerts to tell you when you receive a call.

To configure alerts:
1. From the main window, click **Menu > Preferences > Alerts**.

2. Specify whether you want to hear an audible ring when you receive a call.

3. Specify whether you want to hear just one ring or continue to hear repeated rings for incoming video calls.

   - Select **Ring once** to hear a single ring.

   - Select **Continue ringing** to hear repeated ringing until you answer or the caller hangs up.

Related Topics

Answering a Call

Viewing Full-Screen Video

When you are in a video call, you can see the video full screen. This gives you a better view of the person you're talking to. You may decide to use a smaller video window when you want to refer to content on your computer during a call. You can also switch back and forth between the two views during a call.

Tip: The toolbar is automatically hidden when you choose full-screen video. To display the toolbar temporarily, just move your mouse.

To view full-screen video:
>> Click on the toolbar.

To return to a smaller video window:
>> Do one of the following:

   - Click on the toolbar.

   - Press **Esc**.

Related Topics

Hiding and Showing Your Video Preview Window

When you're not in a call, the video from your camera is displayed in a window above your Contacts list. You can hide this window, if you prefer.

You can also verify your local video before you place a call, and adjust your camera if necessary.

To hide your video preview window:

>> Click .

To show your video preview window:

>> Click .

To configure the system to show video preview before placing a call:

1. From the main window, click **Menu > Preferences > General**.

2. Enable **Preview my video before placing a call**.

Related Topics

Setting Up Your Camera and Audio

Choosing a Camera

You may need to use different cameras in different environments. For example, you may use a webcam with your laptop when you work from your office, but you need to use the laptop's built-in camera when you work from home. Instead of reconfiguring your video preferences, you can choose the camera to use before the call.

For information about choosing a webcam or video device for use with Polycom Telepresence m100, refer to the *Release Notes for Polycom m100 Systems*, available at support.polycom.com.

For information about installing your webcam, refer to the documentation that came with your webcam.

To choose a camera for a call:

1. From the main window, click **Menu > Preferences > Video**.

2. Select the camera to use.

Setting	Description
None	Use no camera
Automatic	Let the system automatically select a camera
Specify	Choose the camera from a list of installed cameras

Related Topics

Placing a Call

Specifying Audio Preferences

Setting audio preferences lets you specify how your system handles audio.

To specify audio preferences:

1. From the main window, click **Menu > Preferences > Audio**.

2. Choose the audio input device to use. Typically, the audio input device is a microphone or headset. Choose **Auto** to use the Windows default audio device.

3. Choose the audio output device to use for video calls. Typically, the audio output device is speakers or a headset. Choose **Auto** to use the Windows default audio device.

Related Topics

Testing Audio Devices
Adjusting the Volume
Configuring Alerts

Adjusting the Volume

Polycom Telepresence m100 lets you adjust volume in a number of ways. For example, you can increase or decrease the volume, and you can mute the microphone manually or automatically.

For best results, set the volume level of your computer to one-half the maximum volume before adjusting the volume level.

To adjust the speaker volume:

>> Move on the toolbar.

To mute or unmute the microphone:

>> Click on the toolbar.

To mute the microphone automatically:

1. From the main window, click **Menu > Preferences > General**.

2. Select **Mute auto-answered calls**.

When your microphone is muted during a call, The mute icon appears on the screen, and the mute button on the toolbar is highlighted.

Related Topics

Placing a Call

Configuring Network Settings

Specifying Your Network Preferences

Polycom Telepresence m100 automatically adjusts to give you the best call quality for your connection type. You can allow Polycom Telepresence m100 to automatically determine your connection type, or you can specify it yourself. If your administrator has set a call rate limit, this rate determines the rate used for calls.

Note: You cannot change your network settings during a call.

To specify your network type:

1. From the main window, click **Menu > Preferences > Network**.

2. Select the type of network connection you have:

Network Type	Network Limit (all traffic)	Call Rate Limit	Video	Content	Audio
Enterprise Network	10 Mbps	1920 kbps	yes	yes	yes
Premium Broadband	768 kbps or greater	512 kbps	yes	yes	yes
Fast Broadband	512 kbps	384 kbps	yes	yes	yes
Standard Broadband	384 kbps	256 kbps	yes	yes	yes
Basic Broadband	256 kbps	128 kbps	yes	yes	yes
Minimum Broadband	128 kbps	64 kbps	yes	yes	yes

Related Topic

Preferences: Network

Specifying Call Settings

NATs and firewalls provide security for your network by limiting outside access to your internal network. Some access, however, is necessary for video conferencing. Therefore, to enable your Polycom Telepresence m100 to freely place and receive calls with the outside world, while still maintaining protection for your network, you must also open ports in the firewall.

If your system is on a network where the transmit bandwidth is significantly lower than the receive bandwidth, use asymmetric network to ensure that there is sufficient bandwidth for outgoing calls.

To open media ports in the firewall:

1. From the main window, click **Menu > Preferences > Call Settings**

2. Set the media port range used by the system.

3. Open the same range of ports in your firewall. You must also open these ports in your firewall:

   - Port 1718 (UDP): Gatekeeper discovery

   - Port 1719 (UDP): Gatekeeper RAS (must be bidirectional)

   - Port 1720 (TCP): H.323 call setup (must be bidirectional)

   - Port 1731 (TCP): Audio call control (must be bidirectional)

- Port 5060 (TCP and UDP): SIP

To specify bandwidth:

1. From the main window, click **Menu > Preferences > Call Settings**.

2. Click **Asymmetric Network** if you are using an ADSL connection in which the network transmitting bandwidth is significantly different from its receiving bandwidth.

3. Set the maximum bandwidth for outgoing calls in the **Maximum Transmit Bandwidth** field.

To set up encryption:

1. From the main window, click **Menu > Preferences > Call Settings**.

2. Choose one of these AES Encryption settings:

Settings	Description
Off	The system places and accepts only unencrypted calls. The system refuses incoming encrypted call.
On	The system places and accepts only encrypted calls. The system refuses incoming unencrypted call.
Auto	The encryption is used when it is available on far-site systems; however, unencrypted call can still connect successfully.

To enable NAT and specify the external IP address:

1. From the main window, click **Menu > Preferences > Call Settings**.

2. Click **Use NAT**.

3. Enter the external IP address.

   Callers outside the LAN use this external IP address to call your system.

Related Topics

Specifying Your Network Preferences
Specifying H.323 Settings
Specifying SIP Settings

Specifying H.323 Settings

If your network uses a gatekeeper, the system can automatically register its H.323 name and extension. This allows others to call the system by entering the H.323 name or extension instead of the IP address.

To specify H.323 settings:

1. From the main window, click **Menu > Preferences > H.323**.

2. Configure these settings on the H.323 Settings screen:

Settings	Description
Gatekeeper	Select this setting to use a gatekeeper. • **Off** - Calls do not use a gatekeeper.

	• **Specify** - Calls use the specified gatekeeper.
Gatekeeper IP Address	Specifies the IP address or name of the gatekeeper.
H.323 Alias	Specifies the name that gatekeepers use to identify this system. You can make Point-to-point calls using H.323 Alias (Name) if both systems are registered to a gatekeeper. The H.323 Alias (Name) is the same as the Display Name, unless you change it.
H.323 Extension (E.164)	Specifies the extension that gatekeepers and gateways use to identify this system.

Related Topics

Specifying Your Network Preferences

Specifying SIP Settings

Specifying SIP Settings

If your network supports the Session Initiation Protocol (SIP), you can use SIP to connect IP calls. To use SIP, go to **Menu > Preferences > SIP** and enable SIP.

To specify SIP settings:

1. From the main window, click **Menu > Preferences > SIP**.

2. Click **Enable SIP** if SIP is available on your network and you would like to use it.

3. Specify the following settings:

Settings	Description
Transport Protocol	Specifies the protocol the system uses for SIP signaling. • TCP - Provides reliable transport via TCP for SIP signaling. • UDP - Provides best-effort transport via UDP for SIP signaling.
Type of SIP Server	Specifies whether to register your information with a SIP server.
Display Name	Displays the name that you entered on the General tab and that is displayed to the far site during calls.
User Name	Specifies the user name for authentication with a Registrar Server.
Domain	If you use Broadworks SIP server, specifies the domain name for authentication with Registrar Server. If you use Polycom DMA server as the SIP server, leave the domain blank.
Password	Specifies the password for authentication with Registrar Server.

Authorization Name	Specifies the name to use for authentication when registering with Registrar Server.
Registrar Server	Specifies the DNS name or IP address of the Registrar Server.
Registrar Server Status	Specifies if the system is register with Registrar Server.
Proxy Server	Specifies the DNS name or IP address of the SIP Proxy Server.

Related Topics

Specifying Your Network Preferences

Specifying H.323 Settings

Configuring System Safeguards

Setting Up Encryption

The encryption setting applies to all calls to and from Polycom Telepresence m100.

When you see 🔒 at the bottom of the screen, the call is encrypted. When you see 🔓 at the bottom of the screen, the call is not encrypted. By holding your cursor over the icon, you can view your current encryption status and key.

To set up encryption:
1. From the main window, click **Menu > Preferences > Call Settings**.
2. Choose one of these AES Encryption settings:

Settings	Description
Off	The system places and accepts only unencrypted calls. The system refuses incoming encrypted call.
On	The system places and accepts only encrypted calls. The system refuses incoming unencrypted call.
Auto	The encryption is used when it is available on far-site systems; however, unencrypted call can still connect successfully.

Related Topic

Using Passwords and Locking Features

Solving Problems

Troubleshooting

Symptom	Corrective Action
Video	
My camera is not listed in the device selection list.	Ensure that the camera is not in use by another application. Restart Polycom Telepresence m100. Reinstall your video device using the installation CD provided by the device's manufacturer, and then restart Polycom Telepresence m100.
Others don't see my video.	Ensure that your camera cable is connected securely. Restart Polycom Telepresence m100. Reinstall your video device using the installation CD provided by the device's manufacturer, and then restart Polycom Telepresence m100. Verify your camera settings. To do this, click **Menu,** and then choose **Preferences > Video**. Check your firewall settings. You may need to add Polycom Telepresence m100 to your Windows firewall exception list. To do this: 1. From the Windows desktop, click **Start** and choose **Control Panel > Windows Firewall**. 2. On the Exceptions tab, click **Add Program**. 3. Browse to c:\Program Files\Polycom\Polycom Telepresence m100\Polycom Telepresence m100.exe and click **Open**. If you are using a third party personal firewall on your computer, you may need to add Polycom Telepresence m100 to the firewall's exception list. Consult your firewall documentation for more information.
When calling, I see a warning message that a firewall on the computer or network may be blocking incoming audio and video.	Ensure that your camera cable is connected securely. Restart Polycom Telepresence m100. Reinstall your video device using the installation CD provided by the device's manufacturer, and then restart Polycom Telepresence m100. Verify your camera settings. To do this, click **Menu,** and then choose **Preferences > Video**. Check your firewall settings. You may need to add Polycom Telepresence m100 to your Windows firewall exception list. To do this: 1. From the Windows desktop, click **Start** and choose **Control Panel > Windows Firewall**. 2. On the Exceptions tab, click **Add Program**. 3. Browse to c:\Program Files\Polycom\Polycom Telepresence m100\Polycom Telepresence m100.exe and click **Open**. If you are using a third party personal firewall on your computer, you may need to add Polycom Telepresence m100 to the firewall's exception list. Consult your firewall documentation for more

	information.
My video preview window shows blue video.	Ensure that the camera is not in use by another application.
	Ensure that your camera cable is connected securely.
	Restart Polycom Telepresence m100.
	Reinstall your video device using the installation CD provided by the device's manufacturer, and then restart Polycom Telepresence m100.
My video preview window shows the Polycom Telepresence m100 logo.	This is normal for systems that are configured to allow calls without a camera. A logo is shown in place of local video when the camera is not available.
	If you have a camera connected to your computer, ensure that your camera cable is connected securely.
My local video looks grainy.	To make sure you send the best quality video, try the following:
	• Try turning on more lights in the room, and use natural or incandescent lighting instead of fluorescent lights.
	• Ensure that your camera is configured correctly. For more information, see Choosing a Camera.
Call quality is not good on my laptop.	Ensure that your laptop is connected to a power source. Running on battery power can reduce the laptop's performance.
	Adjust your Windows power management setting to **High Performance** (on Windows Vista) or **Maximum Performance** (on Windows XP).
It takes a long time to display video after the call starts.	Network problems can slow down the call connection. You may want to try the call again later
Audio	
My microphone is not listed in the device selection list.	Reinstall your audio device using the installation CD provided by the device's manufacturer, and then restart Polycom Telepresence m100.
Others don't hear my audio.	Ensure that your audio is not muted. If your audio is muted, you see 🔇 on the screen and 🔇 is highlighted on the toolbar.
	Ensure your microphone cable is connected securely.
	Reinstall your audio device using the installation CD provided by the device's manufacturer, and then restart Polycom Telepresence m100.
	Verify your audio settings. To do this, click **Menu,** and then choose Preferences > Audio. After you make a change, click **Test Audio Devices** to test the audio devices.
Far-end participants hear an echo.	Reduce the volume on your system.
	Place the microphone and speakers as far apart as possible.
	Use earphones instead of speakers.
	Use a headset instead of microphone and speakers.
	If you use a laptop's integrated speakers with the laptop's integrated microphone or with a webcam's microphone, the structure of the laptop computer and the quality of the laptop speakers may cause problems that the Windows echo canceller cannot correct. Connect external speakers and use them instead of

	the integrated speakers.
Far-end participants hear poor audio	Place the microphone farther from the person speaking. Speaking too close to the microphone can cause poor audio quality.
I don't hear audio from others.	Ensure that the far-end audio is not muted. Ensure that your volume is set to an audible level. Ensure that your speaker cable is connected securely. Reinstall your audio device using the installation CD provided by the device's manufacturer, and then restart Polycom Telepresence m100.
Online Help	
My online help doesn't display correctly.	Ensure that your computer's web browser is configured to allow active content. Refer to your browser's documentation for information about how to adjust this setting.
Contacts	
I have deleted the sample sites in my Contacts list. How can i get them back?	1. From the main window, click **Menu > Preferences > User Profile**. 2. In the Import Contacts section, click ⬚ and go to C:\Program Files\Polycom\Polycom Telepresence m100\assets\samplesites. 3. Select PolycomSampleSites.xml. 4. Click **Import**. 5. Click **Merge**.

Related Topics

Testing Audio Devices

Collecting Diagnostic Information

If you need to report a problem, you may be asked to supply information about your system. The Sendlog Utility automatically creates a zipped file containing information about the system and the Polycom Telepresence m100 log file. You can choose to save the file or email it directly from the Notification Log utility.

To collect Polycom Telepresence m100 Diagnostics:

1. From the main window, click **Menu > Preferences > Statistics > Log**.

2. Click **Save Log**.

3. Specify where you want to save the file.

Related Topics

Viewing Statistics
Preferences: Call Statistics
Preferences: Media Statistics
Preferences: Log Statistics

Preference Pages

Preferences: General

Display Name

Enter or change the system name in this field. This name appears on the screen for the far site when you are making calls.

Auto-answer incoming calls

Allows the system to answer calls automatically.

Mute auto-answered calls

Allows the system to answer calls without turning on the microphone. If you enabled Auto-answer incoming calls, you may want to enable this setting to prevent callers from hearing your private conversations.

Preview my video before placing a call

Lets you verify your local video before you place a call. If you clear this option, the video call is placed immediately when you double-click a Contact's name.

Show recent calls in Contacts list

Adds the calls you've recently placed and received to your Contacts list. These calls appear in a separate Recent Calls group.

Automatically starts Polycom Telepresence m100 when system starts

Starts automatically when you start your computer.

The video window automatically displays when you receive a call.

Related Topics

Placing a Call
Answering a Call
Ending a Call

Preferences: Call Settings

Media Port

Sets the media port range used by the system. You also need to open the same range of ports in your firewall. You must also open these ports in your firewall:

- Port 1718 (UDP): Gatekeeper discovery

- Port 1719 (UDP): Gatekeeper RAS (must be bidirectional)

- Port 1720 (TCP): H.323 call setup (must be bidirectional)

- Port 1731 (TCP): Audio call control (must be bidirectional)

- Port 5060 (TCP and UDP): SIP

Asymmetric network (use for ADSL connection with different transmit and receive rates)

Lets you specify an asymmetric network connection. If you system is on a network where the transmit bandwidth is significantly lower than the receive bandwidth, this ensures that there is sufficient bandwidth for outgoing calls.

Maximum Transmit Bandwidth

Sets the maximum bandwidth for outgoing calls when asymmetric network is enabled.

AES Encryption

Specifies whether the system uses AES encryption.

Settings	Description
Off	The system places and accepts only unencrypted calls. The system refuses incoming encrypted calls.
On	The system places and accepts only encrypted calls. The system refuses incoming unencrypted calls.
Auto	The encryption is used when it is available on far-site systems; however, unencrypted calls can still connect successfully.

Use NAT

Specifies whether your system is located in a Network Address Translation (NAT) network environment.

Public (WAN) Address

Specifies the NAT Public Address that callers from outside the LAN use to call your system.

Related Topics

Configuring when behind a NAT/Firewall

Specifying Your Network Preferences

Setting Up Encryption

Preferences: Directory

Choose one Directory Service from list below:

Specifies which Directory Server you want to register with. Choose one of the following:

Settings	Description
Global Address Book	Register your system with a Global Address Book directory server.
LDAP	Register your system with a LDAP directory server.

Related Topics

Configuring the Directory Services

Using the Directory

Preferences: Video

Select Camera

Specifies which camera you want to use. Choose one of the following options:

Settings	Description
None	Use no camera
Automatic	Let the system automatically select a camera
Specify	Choose the camera from a list of installed cameras.

Related Topics

Choosing a Camera

Preferences: Audio

Test Audio Devices

To test the audio devices used for making video calls and playing alerts.

Audio input device (microphone)

Specifies which microphone or other audio input device to use. Choose **Auto** to use the Windows default audio device.

Audio output device (speakers)

Specifies which speakers, earphones, or other audio output device to use. Choose **Auto** to use the Windows default audio device.

Related Topics

Adjusting the Volume
Specifying Audio Preferences
Testing Audio Devices

Preferences: Network

Select the type of internet connection you have

Specifies how you connect to the network. Your connection type determines the call rate limit, as well as the call features you can use.

Network Type	Network Limit (all traffic)	Call Rate Limit	Video	Content	Audio
Enterprise Network	10 Mbps	1920 kbps	yes	yes	yes
Premium Broadband	768 kbps or greater	512 kbps	yes	yes	yes
Fast Broadband	512 kbps	384 kbps	yes	yes	yes
Standard Broadband	384 kbps	256 kbps	yes	yes	yes
Basic Broadband	256 kbps	128 kbps	yes	yes	yes
Minimum Broadband	128 kbps	64 kbps	yes	yes	yes

Related Topics

Placing a Call

Preferences: H.323

Gatekeeper

Specifies whether to use a gatekeeper.

Settings	Description
Off	Calls do not use a gatekeeper
Specify	Calls use the specified gatekeeper.
Gatekeeper IP Address	Specifies the IP address or name of the gatekeeper.

Display Name

This is the name that you entered on the General tab and that is displayed to the far site during calls.

H.323 Alias

The name that gatekeepers use to identify this system. The H.323 Alias is the same as the Display Name, unless you change it. You organization's dialing plan may define the names you can use.

H.323 Extension (E.164)

Specifies the extension that gatekeepers use to identify this system. Your organization's dial plan may define the extensions you can use.

Related Topics

Preferences: General

Preferences: SIP

Enable SIP

Specifies whether to allow the system to make SIP calls.

Transport Protocol

Specifies the protocol the system uses for SIP signaling.

Settings	Description
TCP	Provides reliable transport via TCP for SIP signaling.
UDP	Provides best-effort transport via UDP for SIP signaling.

Type of SIP Server

Specifies whether to register your system with a SIP server.

User Name

Specifies the user name for authentication with a Registrar Server.

Domain

If you use Broadworks SIP server, specifies the domain name for authentication with a Registrar Server. If you use Polycom DMA server as the SIP server, leave the domain blank.

Password

Specifies the password for authentication with a Registrar Server.

Authentication Name

Specifies the name to use for authentication when registering with a SIP Registrar Server. If you leave this field blank, the User Name is used for authentication.

Registrar Server

Specifies the DNS name or IP address of the Registrar Server.

Registrar Server Status

Indicates whether your system is registered with the Registrar server.

Proxy Server

Specifies the DNS name or IP address of the SIP Proxy Server.

Related Topics
Specifying SIP Settings

Preferences: Alerts

Alert me when

Lets you choose how Polycom Telepresence m100 should notify you when you receive a call.

Note that visible alerts are hidden when you are viewing full-screen video.

You can also specify whether you want to receive repeated alerts for incoming video calls.

- Select **Ring once** to hear a single ring.

- Select **Continue ringing** to hear repeated ringing until you answer or the caller hangs up.

Related Topics
Configuring Alerts
Answering a Call

Preferences: Processor

Detected Processor

Shows details about your computer.

Related Topics
Preferences: Configuration

Preferences: Configuration

You can view details about the configuration of the Polycom Telepresence m100, including the IP address, the H.323 alias, the H.323 extension (E.164), and the SIP address.

Related Topics

Specifying H.323 Settings

Configuring the Directory Services

Preferences: H.323

Preferences: Directory

Preferences: Activation

License Type

Indicates whether your Polycom Telepresence m100 software is a 30 day trial version or an activated version.

License Number

Indicates the license number of your software.

Import License File

Lets you specify the file that contains the license number and the activation key code.

Specify

Lets you enter your license number and the activation key code.

License Number

Specifies the number you received withe the software. To obtain a license number, please contact your Polycom reseller.

Activation Key Code

Specifies the activation key code for this product. To obtain an activation key code, click **Polycom**. Be sure you have the license number you received with the software.

Related Topics

Activating Your Software

Preferences: Change Password

Current Password

Lets you enter the current password if you have set one. By default, it is null.

New Password

Lets you enter the new password you want.

Retype New Password

Lets you enter the new password again.

In case you forget your password...

Lets you set the Security Question and a answer to this question. If you forget your password, you need to answer the correct answer to the security question to retrieve your password.

Security Question

Sets a security question for retrieving password.

Your Answer

Sets a answer to the security question for retrieving pass.

Related Topics

Preferences: Retrieve Password

Using Passwords and Locking Features

Preferences: Retrieve Password

Please answer your security question

Enter the answer to the security question you set. Then you can retrieve your password.

Related Topics

Preferences: Change Password

Using Passwords and Locking Features

Preferences: Page Access

Preferences: Feature Access

Enter admin password to change security settings

Lets you enter the administrator password if you have set one. By default, the password is null. After you enter the correct password, you can lock the following features.

- **Do not allow restore to factory defaults**

  Prevent users from restoring factory defaults.

- **Block Users from Placing Calls.**

  Prevent users from placing calls.

Change password

Enter the old password, enter the new password, and then enter the new password again. In case of you forget your password, you can set a Security Question and the answer to retrieve the password.

Retrieve Password

Enter the answer to your Security Question to retrieve the password.

Related Topics

Preferences: Change Password

Preferences: Retrieve Password

Preferences: User Profile

Import or Export User Data

You can import or export the following user data:

User data	Description
Call Log	The people and systems you've called and those who have called you.
Local Contacts	The people and systems in your Contacts list.
Configuration	Your Polycom Telepresence m100 Preferences settings.

Related Topics

Importing and Exporting User Data

Viewing Your Recent Calls

About Your Contact List, the Directory, and Your Recent Calls

Preferences: Call Statistics

Remote System ID

The type of video conferencing system at the far end and its software version.

Call Rate

The negotiated speed (bandwidth) for the call, which is usually the combined video and audio speeds in the call.

Packets Lost

Number of video, audio, and call data packets lost during the call, including transmitted packets and incoming packets. Packet loss indicates congestion or other problems on the network. The Dynamic Bandwidth option on the Bandwidth tab of the Network Setup page allows the system to reduce the call bandwidth to prevent packet loss.

Packet Loss

Total packet loss as a percentage of the total number of packets transmitted by your system and those transmitted by the far end.

Time in Last Call

Duration of the call most recently completed, in hours, minutes, and seconds.

Total Time in Calls

Total duration of all calls connected since installation or since the last software update.

Calls Placed

Total number of calls placed from your system since installation or since the last software update. This includes calls that did not connect successfully.

Calls Received

Total number of calls that your system has successfully answered since installation or since the last software update.

Calls Connected

Total number of calls that your system has successfully placed since installation or since the last software update.

Call Type

Specifies whether the call is SIP or H.323.

AES Encryption Check Code

The check code of encrypted calls.

People Video Encrypted (Tx)

The encryption status and format of the people video transmitted to the far site.

People Video Encrypted (Rx)

The encryption status and format of the people video received from the far site.

Content Video Encrypted (Tx)

The encryption status and format of the content video transmitted to the far site.

Content Video Encrypted (Rx)

The encryption status and format of the content video received from the far site.

Audio Encrypted (Tx)

The encryption status of the audio transmitted to the far site.

Audio Encrypted (Rx)

The encryption status of the audio received from the far site.

FECC Encrypted (Tx)

The encryption status of the FECC transmitted to the far site.

FECC Encrypted (Rx)

The encryption status of the FECC received from the far site.

Related Topics

[Preferences: Media Statistics](#)
[Specifying Your Network Preferences](#)

Preferences: Media Statistics

People Tx

Statistics about the People video being transmitted.

People Rx

Statistics about the People video being received.

Content Tx

Statistics about the Content being transmitted.

Content Rx

Statistics about the Content being received.

Video Protocol

The ITU-C video algorithm and annexes used in the current call. The video protocol used depends on the capabilities of the system at the far end as well as on your system's configuration.

Video Rate

Bandwidth specified for the video portion of the call. The proportion of the video rate to the audio rate depends on the protocol used.

Video Rate Used

Actual bandwidth being used for the video portion of the call. This is a real-time measurement, which normally fluctuates. The Dynamic Bandwidth option on the Bandwidth tab of the Network Setup page affects this value.

Video Frame Rate

Rate your system uses to update the picture seen at the far end. The system can send up to 30 frames per second. If the camera picks up large, continuous, or frequent motions, the software takes longer to assemble the data into video frames, and the frame rate drops. Changes in lighting also reduce the frame rate.

Video Packets Lost

Number of video data packets lost in a call. Packet loss indicates congestion or other problems on the network.

Video Jitter

Percentage of variation in the video transmission rate.

Video Format

The picture size currently in use.

Error Concealment

The error concealment protocol used in the current call if packet loss occurs.

Audio Protocol

The audio algorithm and annexes used in the current call. The audio protocol used depends on the capabilities of the system at the far end as well as on your system's configuration.

Audio Rate

Bandwidth specified for the audio portion of the call. The proportion of the audio rate to the video rate depends on the protocol used.

Audio Packets Lost

Number of audio data packets lost in a call. Packet loss indicates congestion or other problems on the network. The Dynamic Bandwidth option on the Bandwidth tab of the Network Setup page allows the system to reduce the call bandwidth to prevent packet loss.

Audio Jitter

Percentage of variation in the audio transmission rate.

Related Topics

Preferences: Call Statistics
Specifying Your Network Preferences

Preferences: Log

Save Log

Lets you create a file containing the Polycom Telepresence m100 log and information about your system.

Related Topics

Placing a Call
Collecting Diagnostic Information

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JpegLib README

The Independent JPEG Group's JPEG software

README for release 8b of 16-May-2010

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW   General description of JPEG and the IJG software.

LEGAL ISSUES   Copyright, lack of warranty, terms of distribution.

REFERENCES   Where to learn more about JPEG.

ARCHIVE LOCATIONS   Where to find newer versions of this software.

ACKNOWLEDGMENTS   Special thanks.

FILE FORMAT WARS   Software *not* to get.

TO DO   Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

- install.txt   How to configure and install the IJG software.

- usage.txt   Usage instructions for cjpeg, djpeg, jpegtran,

-                  rdjpgcom, and wrjpgcom.

- *.1   Unix-style man pages for programs (same info as usage.txt).

- wizard.txt   Advanced usage instructions for JPEG wizards only.

- change.log   Version-to-version change highlights.

Programmer and internal documentation:

- libjpeg.txt   How to use the JPEG library in your own programs.

- example.c   Sample code for calling the JPEG library.

- structure.txt   Overview of the JPEG library's internal structure.

- filelist.txt   Road map of IJG files.

- coderules.txt   Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

We recommend reading one or more of these references before trying to understand the innards of the JPEG software. The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here... The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology. If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83. IJG JPEG 8 introduces an implementation of the JPEG SmartScale extension which is specified in a contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for xtending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of the document is Revision 3.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures. The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not ecommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8b.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr8b.zip. The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body send usenet/news.answers/jpeg-faq/part1send usenet/news.answers/jpeg-faq/part2

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FILE FORMAT WARS

The ISO JPEG standards committee actually promotes different formats like "JPEG 2000" or "JPEG XR" which are incompatible with original DCT-based JPEG and which are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES). We have little or no sympathy for the promotion of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format! (In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

Version 8 is the first release of a new generation JPEG standard to overcome the limitations of the original JPEG specification. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@uc.ag.

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Streaming API for XML (JSR-173) Specification

Reference Implementation

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        888    8  888  .d88'   Y888..8P

        888    8  888ooo88P'    `8888'

        888    8  888         .8PY888.

       `88.  .8'  888         d8' `888b

         `YbodP'  o888o      o888o o88888o
```

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