9 Messaging

Understand messages

To send and receive e-mail messages from an e-mail account, you need to connect to the Internet or to your corporate network, depending on the account.

You can send and receive messages in a variety of formats:

● Outlook® e-mail

● Internet e-mail through an Internet Service Provider (ISP)

● Text messages

● Multimedia messages

You can also access e-mail from your workplace through a VPN connection. For more information, see .

E-mail in the Outlook e-mail account is sent and received through synchronization with a computer using any synchronizing software or through wireless synchronization directly with an Exchange Server. For more information, see .

Internet e-mail is sent and received by connecting to a Post Office Protocol 3 (POP3) or Internet Message Access Protocol 4 (IMAP4) e-mail server. You would require Internet access from a GSM, GPRS, EDGE, or 3G carrier to connect to a POP3 or IMAP4 Server. You can connect to the Internet using Wi-Fi, a computer, or a Bluetooth device. To connect to the Internet through your HP iPAQ, use a data-enabled cell phone.

NOTE: The messaging program also supports Visto.

Text messages are sent and received through your wireless service provider using a phone number as the message address.

Text messaging

Text messaging is the transmission of short text messages to and from a mobile phone. A single text message cannot be longer than 160 alpha-numeric characters.

NOTE: The number of characters supported depends on your service provider.

The text messages you reply to or forward are clubbed together with the original message.

You might incur extra costs when sending text messages, depending on your service provider.

Messages longer than 160 alpha-numeric characters are sent as multiple text messages. A character count is visible when text messages (**New/Reply/Forward**) are composed. The count also shows how many text messages are generated when the message is sent.

To write a new text message:

1. Press **Start > Messaging > SMS/MMS > Menu > New > SMS**.

2. In the **To:** field, enter the recipient's number or enter recipient's name to retrieve number from your **Contacts** list.

3. Enter the text.

4. Press **Send**.

Your mobile phone service provider provides the Text Message Service Center phone number. Text messaging should function correctly after you activate your account. To verify the number that is being used, or to change the Text Message Service Center phone number, press **Start > Settings > Phone > Call Options > Text Message service center**.

MMS and its uses

MMS is a method of transmitting photographs, video clips, sound files, and short text messages over wireless networks.

NOTE: You might incur extra costs when sending MMS, depending on your service provider.

When the phone radio is turned on for the first time, the **HP iPAQ DataConnect** program detects the mobile phone service provider and automatically populates the MMS settings on the HP iPAQ.

NOTE: Do not change the MMS settings unless advised to by your mobile phone service provider.

Alternately, you can access some MMS settings by pressing **Start > Messaging > SMS/MMS > Menu > New > MMS > Menu > Options > Message Options**. Do not change the MMS settings unless advised to by your mobile phone service provider.

The MMS account has its own set of folders with five default Messaging folders:

- **Deleted Items**

- **Drafts**

- **Inbox**

- **Outbox**

- **Sent Items**

To create an MMS message:

1. Press **Start > Messaging > SMS/MMS > Menu > New > MMS**.

2. To add picture or video to the message, select the **Insert Picture/Video...** field, and then select the required picture or video to be added.

   NOTE: To view the video clip before adding it, navigate to the required file and press **Menu > Play**.

3. To insert text in the message, select the **Insert Text...** field and enter the required text.

4. To add an audio clip to message, select **Insert Audio...** and select the required audio to be added.

   NOTE: To listen to the audio clip before adding it, navigate to the required file and press **Menu > Play**.

5. To preview the MMS message, press **Menu > Preview Message**.

NOTE: To use an available text-message template, press **Menu > Template > New from Template**. To save the current MMS as a template, press **Menu > Template > Save as Template**.

Set up e-mail accounts

You need to set up an e-mail account on your HP iPAQ before you can send or receive e-mail messages. Obtain the settings required to configure your e-mail account from the Internet e-mail service provider's Web site. Also, obtain the required information to configure your work e-mail account using the exchange server.

Set up e-mail using Exchange Server

1. Press **Start > Messaging > Setup E-mail**.

2. Enter your e-mail address in the **E-mail address** box, and then press **Next**.

3. Clear the **Try to get e-mail settings automatically from the Internet** check box.

   NOTE: Ensure that you clear the **Try to get e-mail settings automatically from the Internet** check box only to manually configure your e-mail.

4. Press **Next**.

5. Select the **Exchange server** option from the **Your e-mail provider** list.

6. Press **Next** twice to synchronize Outlook with your organization's Exchange e-mail server.

7. Verify your e-mail address, and press **Next**.

   NOTE: Select the **Attempt to detect Exchange Server settings automatically** check box to automatically download the server information.

8. In the **Server address** box, enter the Outlook Web Access server address and press **Next**.

   NOTE: Select the **This server requires an encrypted (SSL) connection** check box to ensure that you always send e-mail from this account using an SSL connection.

9. Enter the **User name**, **Password**, and **Domain**.

10. Press **Next**.

11. Select the check box for the items to synchronize, and then press **Finish**.

Internet e-mail

You can send, and receive e-mail messages using an Internet e-mail account. Obtain the settings required to configure your e-mail account from the Internet e-mail service provider's Web site.

Create a new POP3 or IMAP4 account

You must set up an e-mail account that you have with an ISP or an account that you access using a VPN server connection (typically a work account) before you can send and receive e-mail.

To create a new POP3 or IMAP4 account:

1. Press **Start > Messaging > Setup E-mail**.

2. Enter the account name, and then press **Next**.

3. Clear the **Try to get e-mail settings automatically from the Internet** check box.

   NOTE: Ensure that you clear the **Try to get e-mail settings automatically from the Internet** check box only to manually configure your e-mail.

4. Press **Next**.

5. Select the **Internet e-mail** option from the **Your e-mail provider** list, and then press **Next**.

6. Enter your name and required account name, and then press **Next**.

7. Enter the incoming mail server name and select the required account type, either **POP3** or **IMAP4**.

8. Specify the requested information over the next few screens, and then press **Next** to move to additional screens.

   Select the **Advanced Server Settings** link to configure the SSL information for the incoming and outgoing e-mail server.

9. Select the appropriate time for **Automatic Send/Receive**, and then press **Finish**.

   NOTE: Select the **Review all download settings** to set up the e-mail download settings.

You can also perform the following functions:

- Change the time intervals for downloading new messages.

- Download attachments.

- Limit the number of messages that are downloaded.

The following table shows settings that are useful for setting up your e-mail account:

Setting	Description
User name	Enter the user name that your ISP or network administrator assigns. This is often the first part of your e-mail address, which appears before the at sign (@).
Password	Create a strong password. You have the option to save your password so that you do not need to enter it each time you connect to your e-mail server.
Domain	This setting is not required for an account with an ISP but might be required for a work account.
Account type	Select POP3 or IMAP4.
Account display name	Enter a unique name for the account, such as Work or Home. This name cannot be changed later.
Incoming mail server	Enter the name of your e-mail server (POP3 or IMAP4).
Outgoing mail server	Enter the name of your outgoing e-mail server (SMTP).
Require SSL for Incoming e-mail	Select this setting to ensure that you always receive e-mail from this account using an SSL connection. Note that if you select this and your ISP does not support an SSL connection, you might not be able to receive e-mail.
Require SSL for Outgoing e-mail	Select this setting to ensure that you always send e-mail from this account using an SSL connection. Note that if you select this and your ISP does not support an SSL connection, you might not be able to send e-mail.
Outgoing server requires authentication	Select this if your outgoing e-mail server (SMTP) requires authentication. Your user name and password are required.
Use the same user name and password for sending e-mail	Select this if your outgoing e-mail server uses the same user name and password as the ones you entered before.

☼ **TIP:** You can set up several e-mail accounts in addition to your Outlook e-mail account. However, you cannot add a new account while connected. Press **Menu > Stop Send/Receive** to disconnect.

Change the e-mail download options

You can customize the following download options for each e-mail account that you have with an ISP, or any account that you access using a VPN server connection (typically a work account).

You can choose from these options:

●   Whether messages are downloaded automatically.

●   How much e-mail is downloaded.

●   If and how attachments are downloaded (IMAP4 only).

To change the e-mail download options for POP3 or IMAP4 e-mail account:

1.   Press **Start > Messaging**.

2.   Highlight the e-mail account, and then press **Menu > Settings**.

3.   On the **Contents** screen, select **Edit Account Setup**.

4.   Press **Next**.

5.   Enter your changes on the next few screens, and then press **Finish**.

To change the e-mail download options for Outlook e-mail account:

1.   Press **Start > Messaging**.

2.   Highlight the Outlook e-mail account and press **Menu > Settings**.

3.   Select **Edit Account Setup**.

4.   Press **Next**.

5.   Enter your changes on the next few screens, and then press **Finish**.

☼ **TIP:** To send and receive messages automatically, press **Connect**, check for messages and specify a time interval. Connecting automatically might result in higher connection charges. In addition, it consumes battery capacity and reduces the stand-by time.

To save memory, reduce the number of e-mails downloaded to your device by reducing the number of days for which the e-mails are downloaded.

To change data that you want to synchronize for an Outlook account, press **Start > Applications > ActiveSync > Menu > Options**.

Delete an account

To delete an account:

1.   Press **Start > Messaging**.

2.   Highlight the e-mail account to delete, and then press **Menu > Delete**.

3.   Press **Yes**.

✎ **NOTE:** You cannot delete your text message account, Outlook E-mail account, Windows Live™ account, and MMS account.

Synchronize e-mail

When you synchronize the Outlook e-mail on the computer with your device, this is what happens with your e-mail messages:

- Messages in the Inbox folder on your computer or Exchange Server are copied to the Inbox folder of the Outlook e-mail account on your device.

- Messages in the Outbox folder on your device are transferred to Exchange Server or Outlook and then sent from those programs.

- When you delete a message on your device, it is deleted from your computer or Exchange Server the next time you synchronize.

- The default synchronization settings synchronize messages from the past three days and download the first 0.5 KB of each new message. No file attachments are downloaded.

NOTE: For more information on starting Outlook e-mail synchronization or changing synchronization settings, see the synchronization software's help on the computer.

Text messages are not received through synchronization. Instead, your service provider sends them to your device.

Use messaging

Folder types

Each messaging account has a set of five default Messaging folders:

- **Inbox**
- **Outbox**
- **Deleted Items**
- **Drafts**
- **Sent Items**

The messages you receive and send through the account are stored in these folders. You can also create additional folders for each account.

The way folders work varies by type:

- If you use an Outlook e-mail account, e-mail messages in the Inbox folder in Outlook are synchronized with your device automatically. Select additional folders for synchronization by assigning them designations. The folders you create and the messages you move are then mirrored on the e-mail server.

- If you use an MMS account or a text message account, messages are stored in the Inbox folder.

- If you use a POP3 account and move your e-mail messages to a folder you created, the link breaks between the messages on the device and their copies on the e-mail server. When you connect, the e-mail server detects that the messages are missing from the HP iPAQ Inbox folder and deletes them from the e-mail server. This prevents having duplicate copies of a message, but it also means that you do not have access to messages.

- If you use an IMAP4 account, the folders you create and the e-mail messages you move are mirrored on the e-mail server. That is, they exist in both places. These messages are therefore available from any location or device. This synchronization occurs whenever you connect to your

e-mail server, and when you create new folders, or rename or delete folders when connected. You can also set different download options for each folder.

Press and hold a shortcut key on the keyboard, from any folder, to perform certain tasks quickly.

Email Shortcut keys

Key	Task
0	List Shortcuts
1	Reply All
2	Reply
3	Mark Read/Unread
4	Flag
5	Move
6	Forward
7	Delete
8	Download Message
9	Send/Receive

Compose and send e-mails

To compose and send messages:

1. Press **Start > Messaging** to open the messaging program.

2. In the message list, select an e-mail account.

3. Press **Menu > New**.

4. Enter the e-mail address of one or more recipients, separating addresses with a semicolon. To access addresses and phone numbers from **Contacts**, go to **To** and press **Menu > Add Recipient**.

5. Enter your message.

6. Press **Send**.

☆ **TIP:** To set the priority, press **Menu > Message options**.

If you are working offline, e-mail messages move to the Outbox folder and are sent the next time you connect.

Reply to or forward a message

To reply to or forward a message:

1. Select a message to open it, and then press **Menu > Reply > Reply**, **Reply All**, or **Forward**.

2. Enter your response.

3. Press **Send**.

Add an attachment to a message

To add an attachment to a message:

1. In an open message, press **Menu > Insert** and select the item to attach: **Picture**, **Voice Note**, or **File**.

2. Select the file to attach or record a voice note.

NOTE: Embedded files cannot be attached to messages.

Receive attachments

An attachment, sent with an e-mail message or downloaded from the server is displayed below the subject of the message. The attachment opens if it has been fully downloaded or marks it for download the next time you send and receive e-mail. You can also download attachments automatically with your messages if you have an Outlook e-mail or IMAP4 e-mail account.

If you have an Outlook e-mail account:

1. On your computer, click **Start > ActiveSync**.

2. Click **Tools > Options…**

3. Click **E-mail > Settings**, and then select the **Include file attachments** check box.

If you have an IMAP4 e-mail account with an ISP or an account that you access using a VPN server connection (typically a work account):

1. Press **Start > Messaging** to open the messaging program.

2. Highlight the name of the IMAP4 account.

3. Press **Menu > Settings > Download Size Settings**.

4. Make the required changes to these options:

   - **Message format**

   - **Message download limit**

5. Press **Done**.

TIP: Embedded pictures and objects cannot be received as attachments.

An embedded message can be viewed as an attachment when using IMAP4 to receive e-mail. However, this feature does not work if Transport Neutral Encapsulation Format (TNEF) is turned on so that you can receive meeting requests.

Receive meeting requests

When you retrieve your e-mail messages through ActiveSync, you can receive meeting requests. When connecting directly to an e-mail server, the server must be running Microsoft Exchange Server Version 5.5 or later for you to receive meeting requests.

If the server is running Microsoft Exchange Server 2000 or later, your meeting requests are automatically received in your Inbox. However, to receive meeting requests on Microsoft Exchange Server V5.5, do the following preparation:

- Ask your system administrator to activate Rich Text Format (RTF) and TNEF support for your account.

  With TNEF turned on, your messages that are included in other messages as attachments are not received, and you cannot know if a message has an attachment until you get the full copy. In addition, download time might be longer.

- Change e-mail download options if your account is not set up to receive attachments.

After you are set up to receive meeting requests, do the following:

1. Open the meeting request.

2. Press **Accept**, or **Menu > Tentative**, or **Menu > Decline**. You can also include a message with the response. The response will be sent the next time that you synchronize or connect to your e-mail server, and your device calendar will be updated.

Create or change a signature

To create or change a signature:

1. Press **Start > Messaging**, to open the messaging program.

2. Select the account to create or change a signature.

   If an Outlook e-mail account is not configured on your HP iPAQ, then connect your HP iPAQ to the desktop and synchronize it with the Outlook e-mail account on your desktop. Select the account for which the signature has to be created or changed.

3. Press **Menu > Tools > Options > Signatures**

4. Select the **Use signature with this account** check box if it is not already selected.

5. Select the **Include when replying and forwarding** check box, if required.

6. Enter a signature in the box.

7. Press **Done**.

To stop using a signature, clear the **Use signature with this account** check box.

☼ **TIP:** You can use a different signature with each messaging account.

Download messages

The way you download messages depends on the type of account you have:

- To send and receive e-mail for an Outlook e-mail account, begin with synchronization through ActiveSync.

- You can receive text messages when your HP iPAQ is switched to phone mode. When your HP iPAQ is turned off (in flight mode), your service provider holds messages until the next time you turn on your HP iPAQ

TIP: By default, messages you send are not saved on your device to help conserve memory. To keep copies of sent messages in the messaging list, press **Menu > Tools > Options > Sending**, and select the **Save copies of sent items** check box.

If your account is an Outlook e-mail or IMAP4 account, you must also select the Sent Items folder for synchronization. To do this, press **Start > Messaging > Outlook E-mail**. Then press **Menu > Folders**. Highlight **Sent Items**, and press **Menu > Manage Folders** and then press **Sync**.

You can also synchronize your sent items using the ActiveSync software. Connect your HP iPAQ to your computer. Click **Tools > Options > Select e-mail > Settings... > Select Folders...**

Download messages from a server

To download messages from a server:

1. In messaging, select the account to use.

2. Press **Menu > Send/Receive**.

   The messages on your device and e-mail server are synchronized. New messages are downloaded to the device **Inbox** folder, messages in the device **Outbox** folder are sent, and messages that have been deleted from the server are removed from the device **Inbox** folder.

☼ **TIP:** To read the entire message, press **Menu > Download Message** in the message window. In the message list, select the message, and then press **Menu > Download Message**. The message is downloaded the next time you send and receive e-mail. Message attachments are also downloaded if you have set those options while setting up your e-mail account.

The size column in the message list displays the local size and server size of a message. These numbers might differ because the size of a message can vary between the server and the device.

Install an online address book

Many e-mail servers, including servers running Exchange Server, can verify names with an online address book called a directory service. When you create an e-mail account, the directory service of your e-mail server is added to the address book. To enable a directory service or to use additional services, follow these steps:

1. If you are adding a new account, ask your network administrator for the name of the directory service and the server.

2. In the **Message** list, press **Menu > Options > Address**.

3. In the **In Contacts, get e-mail addresses from** list, select the e-mail address book to be checked. **Contacts** will be checked first unless you select **None**.

4. If your e-mail server is already listed, select the server's directory service check box to enable it, and press **OK**.

5. If your e-mail service is not listed, press **Add…**

6. In the **Directory name** and **Server** boxes, enter the directory and server names.

7. Ask your network administrator if you need authentication for your server. If you do, select the **Authentication is necessary on this server** check box, and enter your user name and password.

8. To have messaging check this service, select the **Check name against this server** check box.

☼ **TIP:** To delete a service, select the service and press **Delete**.

When you synchronize your Outlook e-mail account, turn off any installed directory services by clearing the **Check name against this server** check box to avoid seeing error messages.

10 Calendar

Use **Calendar** to schedule appointments, including meetings and other events. You can display appointments for the day on the **Home** screen.

▲ To access **Calendar**, press **Start > Calendar**.

☼ **TIP:** You can also access **Calendar** by selecting an upcoming appointment or event from the **Home** screen.

📝 **NOTE:** The Calendar can be synchronized using ActiveSync or WMDC. For more Information, see .

Create a new appointment

To create a new appointment:

1. To access **Calendar**, press **Start > Calendar**.

2. Press **Menu > New Appointment**.

3. Enter the required details.

4. Set the time for the reminder to alert you.

5. Press **Done**.

Assign a sensitivity level to an appointment

To assign a sensitivity level:

▲ Open the required appointment, press **Menu > Edit > Sensitivity**, and then change the **Sensitivity** level from the list.

📝 **NOTE:** For a new item, create the item, and then select **Sensitivity**.

Change the display of the work week

Customize your **Calendar** for a work week to start on Sunday or Monday. Schedule your calendar for a five, six, or seven-day week.

To change the display of the work week:

1. To access **Calendar**, press **Start > Calendar**.

2. Press **Menu > Tools > Options** and take one or both of the following actions:

   ● To specify the first day of the week, select **Sunday** or **Monday** in the **First day of week** box.

   ● To specify the number of days to appear in a work week, select **5-day week**, **6-day week**, or **7-day week** in the **Week view** box.

3. Press **Done**.

Set a default reminder for all new appointments

To automatically turn on a reminder for all new appointments:

1. To access **Calendar**, press **Start > Calendar**.
2. Press **Menu > Tools > Options**.
3. Select the **Set reminders**.
4. Set the time for the reminder to alert you.
5. Press **Done**.

Update an appointment

To update an appointment on your calendar:

1. To access **Calendar**, press **Start > Calendar**.
2. Open the appointment to update, and then press **Menu > Edit** to make your changes.
3. Make the required changes, and then press **Done**.

NOTE: For recurring appointments, you can update all recurring appointments or just one.

Cancel an appointment

When you delete an appointment in **Calendar** on your HP iPAQ, it is also deleted on your computer the next time you synchronize. If the appointment has not been synchronized with a computer, it is deleted only from your HP iPAQ.

To cancel an appointment:

1. To access **Calendar**, press **Start > Calendar**.
2. In **Agenda** view, select the appointment to delete.
3. Press **Menu > Delete Appointment**.
4. Press **Yes** to delete the appointment. Press **No** to keep the appointment and prevent the deletion.

NOTE: To delete an appointment, you can also select the appointment and then press **Menu > Delete**.

11 Tasks

Tasks provides you with an easy way to create a to-do list. Categorize tasks, mark them as complete, when required, and configure tasks to remind you about upcoming appointments.

Create a new task

To create a new task:

1. Press **Start > Tasks**.

2. Press **Menu > New Task**.

3. Specify the options for the task.

4. Press **Done**.

Create and assign a category to a task

To create and assign a category:

▲ Open the required task and press **Edit > Categories**.

NOTE: For a new item, create the item, and then select **Categories**.

To create a new category, press **New** and assign a name to the category for a contact, task, or an appointment. The new category is assigned automatically to the item.

Set the start and due dates for a task

To set the dates for a task:

1. Press **Start > Tasks**.

2. Open the task to set start and due dates for.

3. Press **Edit** and take one or both of the following actions:

   - Go to **Start date** to specify a start date for the task.

   - Go to **Due date** to specify a due date for the task.

4. Press **Done**.

Show the start and due dates in the task list

To turn on the display of dates for a task in the task list:

1. Press **Start > Tasks**.

2. Press **Menu > Options...**

3. Select the **Show start and due dates** check box.

4. Press **Done**.

Mark a task as completed

To mark a task as completed:

1. Press **Start > Tasks**.

2. Highlight the task to mark as completed.

3. Press **Complete**.

NOTE: To activate a completed task, highlight the task, and then press **Activate**.

12 Camera

Your HP iPAQ has a 3.1 megapixel camera that you can use to take photos and record video clips.

Use the camera

Use the built-in digital camera on your HP iPAQ to capture photos.

NOTE: For better stability while capturing photos, hold your HP iPAQ horizontally with the camera button pointing upwards.

Capture photos

Capture images and store them in your HP iPAQ or on a memory card:

1. Press the camera button on the right panel of your HP iPAQ, or press **Start > Media > Pictures & Videos > Camera**.

2. Press the camera button to click a photo and automatically save it in **File Explorer > My Documents > My Pictures**.

NOTE: Press the camera button gently to focus and then press completely to capture the photo.

View photos

To view photos captured on your HP iPAQ:

1. Press **Start > Media > Pictures & Videos**.

2. Navigate to a required picture.

3. Press **View** to view the photo.

Camera settings

Adjust the camera settings for capturing photos and videos. Use the settings to specify the dimensions and color settings for your photos and videos.

Basic settings

To enable the shutter sound:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu > Options**, and select the **Enable Shutter Sound** check box.

NOTE: The shutter sound confirms that the image is captured. Hold your HP iPAQ steady until you hear the sound to capture clear images.

To change the file name prefix:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu > Options**.

3. Edit the **Filename prefix**.

Instant review displays the captured image. This helps you decide if the captured image is according to your requirement. Use this setting to determine how long the captured image is displayed.

To change instant review settings:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu > Options**, and then select **Instant review**. Select the time limit from the following:

   ● **Never**

   ● **2 seconds**

   ● **5 seconds**

   ● **Indefinite**

To turn on the flash LED:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu**, and then select **Flash**.

NOTE: Follow the same steps to turn off the **Flash**.

To change the zoom settings:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu > Settings**, and then select **Zoom**. Change the zoom setting according to your requirement.

Photo settings

To change the brightness settings:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu > Settings**, and then select **Brightness**. Select from the following brightness levels:

   ● **−2**

   ● **−1**

   ● **0**

   ● **+1**

   ● **+2**

To change the contrast settings:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu > Settings**, and then select **Contrast**. Select from the following contrast levels:
   - −2
   - −1
   - 0
   - +1
   - +2

To change the sharpness settings:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu > Settings**, and then select **Sharpness**. Select from the following sharpness levels:
   - −2
   - −1
   - 0
   - +1
   - +2

To change the resolution settings:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu**, and then select **Resolution**. Select from the following resolutions:
   - **QVGA(320x240)**
   - **VGA(640x480)**
   - **1MP(1280x960)**
   - **1.3MP(1280x1024)**
   - **2MP(1600x1200)**
   - **3MP(2048x1536)**

The white balance setting improves the photo quality by adjusting the camera lens aperture according to the surrounding light conditions.

To change the white balance settings:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu > Settings**, and then select **White Balance**. Change the white balance settings to match the ambient lighting:
   - **Auto**
   - **Daylight**

- **Shade**

- **Incandescent**

- **Fluorescent**

📝 **NOTE:** You can select the **White Balance** according to the lighting conditions when taking a picture or video.

The night mode setting improves the quality of photos captured at night or in darkness.

To activate the night mode:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu**, and then select **Night Mode**.

To change the photo quality settings:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu > Quality**, and then select from the following.

- **Low**

- **Medium**

- **High**

To change the flicker filter settings:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu > Settings**, and then select **Flicker Filter**. You can select the flicker filter settings from these options:

- **OFF**

- **110v/60Hz**

- **240v/50Hz**

To change the location for storing images:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu > Settings**, and then select **Save to...**

3. Select **Device** to store the images on your HP iPAQ or select **SD Card** to save the images on the microSD card.

To rotate the captured images:

1. Press **Start > Media > Pictures & Videos**.

2. Select the image you want to rotate.

3. Press **Menu > Edit**.

4. Press **Menu > Rotate**.

To delete the captured images:

1. Press **Start > Media > Pictures & Videos**.

2. Select the image you want to delete.

3. Press **Menu > Delete**.

Use the video recorder

Use the built-in camcorder to record video clips.

Record videos

Use the built-in camcorder on your HP iPAQ to create short videos and share them with friends and family:

1. Press the camera button on the right panel of your HP iPAQ or press **Start > Media > Pictures & Videos > Camera**.

2. Press **Menu > Video**.

3. Press the camera button to start or stop the recording.

Video settings

NOTE: For better results while capturing videos, hold your HP iPAQ horizontally with the camera button pointing upwards.

Press **Start > Media > Pictures & Videos > Camera**, and then press **Menu > Video**.

- To set the time limit, press **Menu > Capture Time** and set the time limit to one of the following:
  - 15 Seconds
  - 30 Seconds
  - No Limit
- To set the video resolution, press **Menu > Resolution** and select one of the following:
  - QCIF
  - QVGA
  - CIF
  - VGA

NOTE: By default, the captured pictures and the captured videos are stored in **My Pictures**.

To delete the captured videos:

1. Press **Start > Media > Pictures & Videos**.

2. Select the video you want to delete.

3. Press **Menu >Delete**.

Transfer images

Transfer the photos and videos captured using your HP iPAQ to your e-mail account, another mobile device, or a computer.

Use GPRS

When the phone radio is turned on for the first time, the **HP iPAQ DataConnect** program detects the mobile phone service provider and automatically populates the Multimedia Messaging Service (MMS) settings on the HP iPAQ.

To transfer pictures using MMS:

1. Press **Start > Messaging > SMS/MMS**.

2. On the **SMS/MMS** screen, press **Menu > New > MMS**.

3. Press **Menu > Insert > Picture/Video**.

4. Select the picture you want to send.

5. Enter the recipient's number in **To**.

6. Press **Send**.

Use Bluetooth

To transfer images from your HP iPAQ to other devices:

1. Press **Start > Media > Pictures & Videos**.

2. Select a picture.

3. Press **Menu > Beam...**, select the device, and then press **Beam**.

13 Connections

You can use your HP iPAQ to connect and exchange information with other handheld devices, computers, and other networks. You can connect using:

- Wi-Fi
- Bluetooth
- Phone

NOTE: You can also use your HP iPAQ as a wireless modem. For more information, see .

Connect by pressing **Start > Settings > Connections**.

Use Wireless Manager

Use **Wireless Manager** to turn the wireless connections for Wi-Fi, Bluetooth, and Phone on and off.

NOTE: When the phone connection is turned off, you cannot receive or make a call, including emergency calls. To receive and make a call, turn on the Phone connection.

To use **Wireless Manager**, select the link on the **Home** screen or press **Start > Settings > Connections > Wireless Manager**.

Option	Description
All	Select **All** to turn the functions of the **Wi-Fi**, **Bluetooth**, and **Phone** connections off or on.
Wi-Fi	Select **Wi-Fi** to turn the **Wi-Fi** connection off or on.
Bluetooth	Select **Bluetooth** to turn the **Bluetooth** connection off or on.
Phone	Select **Phone** to turn the **Phone** connection off or on.

All wireless connections are turned off when your HP iPAQ is in "flight" mode.

HSPA/GPRS/EDGE

HSPA

High Speed Packet Access (HSPA) is an enhancement of Wideband Code Division Multiple Access (WCDMA), which is based on 3G technology and offers better data compression. Your HP iPAQ supports HSDPA up to 7.2 Mbps for high speed downloads and 2.0 Mbps for upload using WCDMA. When WCDMA or HSPA is available, the device uses the technology and reverts to GSM/GPRS/EDGE if WCDMA or HSPA is unavailable. Your HP iPAQ also supports WCDMA/HSPA in three different frequency bands (850/1900/2100).

GPRS/EDGE

The GPRS/EDGE technology enables the mobile phone network to be used for messaging or to access the corporate network or the World Wide Web.

NOTE: EDGE enables faster data connections and is an enhanced version of GPRS. This means faster phone multimedia capabilities, such as sending and receiving SMS/MMS messages, and sharing video clips. Check with your service provider to see if they support the EDGE technology. If your service provider does not support the EDGE network, the HP iPAQ defaults to GPRS.

Differences between GSM and GPRS/EDGE/WCDMA/3G technology

GSM technology is typically used for voice calls and text messaging, whereas GPRS/EDGE/WCDMA/3G technology provides a connection to the mobile phone network that can be used for Web browsing, Multimedia Messaging Service (MMS), or accessing your corporate network.

NOTE: If data services are used, they are charged additionally to your standard mobile phone service.

Configure GPRS network settings

The first time you use your SIM card, **HP iPAQ DataConnect** automatically detects the phone network and operator and sets up the GPRS connection information for you. You can change these settings to suit your preference or create your own network settings.

To configure GPRS network settings:

1. Press **Start > Settings > Connections > GPRS**.

2. If your operator name displays on the **GPRS** screen, it is recommended that you use that connection and, if needed, edit the default settings.

3. Highlight your operator name and press **Menu > Edit** to edit the GPRS network settings.

Edit an Internet connection

To edit an Internet connection:

1. Press **Start > Settings > Connections > GPRS**.

2. Select the required operator name from the displayed list, and then press **Menu > Edit**.

3. Edit the following information:

   a. Select **The Internet** in the **Connects to** list.

   b. In the **Access point** box, enter the access point name of the server to which you are attempting to connect.

   c. Enter the user name and password.

   d. Select the type of authentication from the **Authentication Type** list.

   e. In the **Primary DNS** box, enter the primary Domain Name Server (DNS) address provided by your service provider.

   f. In the **Secondary DNS** box, enter the secondary Domain Name Server (DNS) address provided by your service provider.

   g. In the **IP address** box, enter the IP address.

4. Press **Done** twice to confirm your settings.

Alternatively, you can also follow the steps given below to add a new Internet connection:

1. Press **Start > Settings > Connections > GPRS**.

2. Select **New...**.

3. Edit the following information:

   a. In the **Description** box, enter a name for the settings. This name is for your reference.

   b. In the **Connect to** list, select **The Internet**.

   c. In the **Access point** box, enter an access point name of the server to which you are attempting to connect.

   d. Enter the user name and password.

   e. From the **Authentication Type** list, select the type of authentication.

   f. In the **Primary DNS** box, enter the primary Domain Name Server (DNS) address provided by your service provider.

   g. In the **Secondary DNS** box, enter the secondary Domain Name Server (DNS) address provided by your service provider.

   h. In the **IP address** box, enter the IP address.

4. Press **Done** twice to confirm your settings.

Edit WAP information settings

To edit WAP information settings:

1. Press **Start > Settings > Connections > GPRS**.

2. Select the required operator name from the displayed list, and then press **Menu > Edit**.

3. Edit the following information:

   a. In the **Connects to** list, select **WAP Network**.

   NOTE: In the **Connects to** list, select **Secure WAP Network** to connect to a secure WAP network.

   b. In the **Access point** box, enter an access point name of the server to which you are attempting to connect.

   c. Enter the user name and password.

   d. From the **Authentication Type** list, select the type of authentication.

   e. In the **Primary DNS** box, enter the primary Domain Name Server (DNS) address provided by your service provider.

   f. In the **Secondary DNS** box, enter the secondary Domain Name Server (DNS) address provided by your service provider.

   g. In the **IP address** box, enter the IP address.

4. Press **Done** twice to confirm your settings.

Alternatively, you can also follow the steps given below to add a new WAP settings:

1. Press **Start > Settings > Connections > GPRS**.

2. Select **New**.

3. Edit the following information:

   a. Enter a name for the settings in the **Description** box. This name is for your reference.

   b. In the **Connect to** list, select **WAP Network**.

   > **NOTE:** In the **Connect to** list, select **Secure WAP Network** to connect to a secure WAP network.

   c. In the **Access point** box, enter an access point name of the server to which you are attempting to connect.

   d. Enter the user name and password.

   e. From the **Authentication Type** list, select the type of authentication.

   f. In the **Primary DNS** box, enter the primary Domain Name Server (DNS) address provided by your service provider.

   g. In the **Secondary DNS** box, enter the secondary Domain Name Server (DNS) address provided by your service provider.

   h. In the **IP address** box, enter the IP address.

4. Press **Done** twice to confirm your settings.

Troubleshoot automatic detection

If the automatic detection setting fails, complete one or more of the following items:

- Check to see if the SIM card is present in the HP iPAQ. If it is not present, insert the SIM card and relaunch the application.

- Ensure that the metal contacts on your SIM card and your SIM slot are not covered with a residue or dust that might interfere with a connection.

- In the **HP iPAQ DataConnect** application, select the appropriate country and operator name, and then press **Done**. The settings are automatically updated.

Bluetooth

Bluetooth allows wireless communication with other Bluetooth-enabled devices. Send and receive files from one device to another over Bluetooth within a range of 10 meters (30 feet). You can also use Bluetooth to connect to a Bluetooth headset, computer, car kits, and other Bluetooth-enabled devices.

> **NOTE:** The files received through Bluetooth are automatically stored in **My Documents** folder.

Bluetooth terms

HP recommends that you become familiar with the following terms as you begin to use Bluetooth technology.

Term	Definition
Authentication	Verification of a numeric passkey in advance of connection or activity.
Authorization	Approval of a connection, access, or activity before it can be completed.

Term	Definition
Bonding (Pairing devices)	Creating a trusted connection between your device and another. After a bond is created, the two devices become paired. A paired device does not require authentication or authorization.
Device address	Unique electronic address of a Bluetooth device.
Device discovery	Location and recognition of another Bluetooth device.
Device ID	Name that a Bluetooth device provides when discovered by another device.
Encryption	Method of protecting data.
Passkey	Code you enter to authenticate connections or activities that the other device requests.
Personal Information Manager (PIM)	Collection of programs used to manage daily business tasks (for example: Contacts, Calendar, and Tasks).
Profiles	Collection of Bluetooth settings.
Service discovery	Determination of which programs you have in common with other devices.

Open Bluetooth settings

To open Bluetooth settings:

1. Press the **Wireless Manager** link on the **Home** screen or press **Start > Settings > Connections > Wireless Manager**.

2. Press **Menu > Bluetooth Settings**.

Connect to a computer using Bluetooth

To connect to a computer through Bluetooth using ActiveSync:

1. Follow the instructions in the synchronization software help on the computer to configure Bluetooth on your computer for ActiveSync support.

2. On your HP iPAQ, press **Start > Applications > ActiveSync**.

3. Press **Menu > Connect via Bluetooth**. Make sure that the device and computer are within close range.

4. If this is the first time you have connected to this computer through Bluetooth, complete the Bluetooth wizard on your HP iPAQ and set up a Bluetooth partnership with the computer.

5. Press **Sync**.

6. Press **Menu > Disconnect Bluetooth** to disconnect after you have used the connection.

☼ **TIP:** To preserve battery power, turn off Bluetooth.

To connect to a computer through Bluetooth using WMDC:

1. Follow the instructions in the synchronization software help on the computer for configuring Bluetooth.

2. On your HP iPAQ, press **Start > Applications > ActiveSync**.

3. Press **Menu > Connect via Bluetooth**. Make sure that the device and computer are within close range.

4. When prompted, press **Yes**, if you want to set up a partnership.

5. On the computer, when prompted about a Bluetooth device attempting to connect with the computer, click **To allow this connection**.

6. When finished, press **Menu > Disconnect** to disconnect.

For more information, see .

Create, end, and accept a Bluetooth partnership

To exchange information between your HP iPAQ and another device that has Bluetooth capabilities, first create a Bluetooth partnership between the two devices.

NOTE: To exchange information between two Bluetooth-enabled devices, make sure Bluetooth is turned on, on both devices. The devices need to be in the discoverable mode.

To create a Bluetooth partnership:

1. Press the **Wireless Manager** link on the **Home** screen or press **Start > Settings > Connections > Bluetooth**.

2. Select **Add new device...** Your HP iPAQ searches for other devices with Bluetooth capabilities and displays them in the list.

3. Select the name of the other device and press **Next**.

4. To set a passcode, which is recommended for enhanced security, enter an alphanumeric passcode between 1 and 16 characters in the **Passcode** box, and press **Next**. Otherwise, leave the passcode blank, and press **Next**.

NOTE: For creating partnerships with cellular phones, it is mandatory that you provide a numeric passcode.

5. Enter the same passcode on the other device.

6. Press **Done** on your HP iPAQ.

To end a Bluetooth partnership:

1. Press the **Wireless Manager** link on the **Home** screen or press **Start > Settings > Connections > Bluetooth**.

2. Select the partnership to end.

3. Press **Menu > Delete**.

4. On the confirmation screen press **Yes**.

To accept a Bluetooth partnership:

1. To make sure that your HP iPAQ is visible to and within the prescribed (10 meters) range of the pairing device, press **Start > Settings > Connections > Bluetooth > Menu > Turn On Visibility**.

2. When prompted to accept a partnership with the device that is requesting the relationship, press **Yes**.

3. If a passkey is requested, enter an alphanumeric passkey between 1 and 16 characters in **Passcode** box and press **Next**. Enter the same passkey in the device requesting the partnership. Using a passkey provides greater security.

4. Press **Done**.

If you cannot discover another device, try the following remedies:

- Make sure Bluetooth is turned on.

- Move closer to the device.

- Make sure that the device you are attempting to connect is on and is visible to other devices.

Edit a Bluetooth partnership

To rename a Bluetooth partnership:

1. Press the **Wireless Manager** link on the **Home** screen or press **Start > Settings > Connections > Bluetooth**.

2. Select the partnership to edit, and then press **Menu > Edit**.

3. In the **Enter a display name for the device** box, enter a new name for the partnership.

4. On the **Services** screen, select how to use the paired device:

    - Select the **Input Device** check box for pairing with a Bluetooth headset.

    - Select the **Serial Port** check box to be able to transfer data to and from the paired device.

5. Press **Done**.

Bluetooth device profiles

The functions that Bluetooth supports are called services or profiles. You can communicate only with Bluetooth devices that support at least one of the following profiles:

- ActiveSync (via Serial Port Profile)

- Advanced Audio Distribution Profile (A2DP)

- Generic Access Profile (GAP)

- Hands-Free Profile (HFP)

- Headset Support Profile (HSP)

- Human Interface Device Profile (HID)

- Generic Object Exchange Profile (GOEP)

- Object Push Protocol (OPP)

- Serial Port Profile (SPP)

- Dial-up Networking Profile (DUN)

- Phone Book Access Profile (PBAP)

- File Transfer Profile (FTP-Server only)

- Audio/Video Remote Control Profile (AVRCP)

- Personal Area Networking Profile (PAN)

Set up an incoming or outgoing Bluetooth communications (COM) port

To set up incoming or outgoing Bluetooth COM port:

1. Make sure your HP iPAQ is connected to the other device through Bluetooth.

2. Press **Start > Settings > Connections > Bluetooth**.

3. Press **Menu > COM Ports**.

4. Press **Menu > New Outgoing Port**.

NOTE: **New Outgoing Port** is only available if at least one Bluetooth device supports serial (COM) connection.

5. Select the paired device to set up as a COM port.

6. Select a numbered COM port from the list.

NOTE: If the port cannot be created, it is already in use. Select a different numbered port.

7. To limit communication on this COM port to only devices with which the HP iPAQ has a Bluetooth partnership, select the **Secure Connection** check box.

8. Press **Done**.

End a Bluetooth connection

End a Bluetooth connection when you are done using it in order to free your HP iPAQ's resources and conserves battery power.

To end a Bluetooth connection:

1. Press the **Wireless Manager** link on the **Home** screen or press **Start > Settings > Connections > Bluetooth**.

2. Press **Menu > Turn Off Bluetooth**.

Wi-Fi

The Wi-Fi feature in your HP iPAQ enables wireless Internet connectivity and is an effective replacement for cable based connections. Wi-Fi uses access points to transmit and receive data. Your HP iPAQ can connect to an 802.11b/g Wi-Fi or connect directly to other Wi-Fi-enabled devices.

NOTE: This application is not available on all models.

Use Wi-Fi to:

● Access the Internet.

● Send and receive e-mail.

● Access corporate network information.

● Use VPNs for secure remote access.

● Use hotspots for wireless connectivity.

Press the **Wireless Manager** link on the **Home** screen or press **Start > Settings > Connections > Wi-Fi**.

NOTE: Using dial-up or wireless networks to access a corporate network, e-mail, or other wireless communications, such as Bluetooth devices, might require separate hardware together with a Wi-Fi infrastructure and a service contract.

Check with your service provider for the availability of network coverage in your area. Not all Web content might be available. Some Web content might require installation of additional software.

Wi-Fi terms

Become familiar with the following terms as you begin to use Wi-Fi.

Term	Definition
802.11 standard	An approved standard specification of radio technology from the Institute of Electrical and Electronics Engineers (IEEE) used for wireless local area networks (Wi-Fi).
Device-to-computer or ad-hoc	A mode that does not use access points. It provides independent peer-to-peer connectivity in a wireless LAN.
Domain Name System (DNS)	The way that Internet domain names are located and translated into IP addresses. It is an easy name to remember for an Internet address. Every Web site has its own specific IP address on the Internet.
Encryption	An alphanumeric (letters and numbers) conversion process of data primarily used for protection against any unauthorized access.
Hotspots	Public or private areas where you can access Wi-Fi service. These wireless connections can be located, for example, at a library, cyber cafe, hotel, airport lounge, or convention center. This service can be free or sometimes requires a fee.
Infrastructure	This connection mode uses wireless access points to connect to networks.
WEP	Wired Equivalent Privacy (WEP) is an encryption standard defined by the IEEE 802.11 committee and is used for security in wireless connections.
EAP	Extensible Authentication Protocol (EAP) is an authentication protocol supporting various authentication methods, such as traditional passwords, token cards, digital certificates, etc.
GTC	Generic Token Card (GTC) carries user specific token cards for authentication. The main feature in GTC is digital certificate/token card-based authentication.
WPA-PSK	Wi-Fi Protected Access Pre-Shared Key (WPA-PSK) is used to secure Wi-Fi Connections and provides better security than WEP.
TKIP	Temporal Key Integrity Protocol (TKIP) is a security protocol used in WPA.
AES	Advanced Encryption Standard (AES) is a next-generation encryption standard, used for wireless networks.
WPA2-Personal (PSK)	WPA2-Personal (PSK) is an enhanced version of WPA-PSK.
Tunnel PAC	Tunnel Protected Access Credentials (PAC) is used to establish a secure EAP-FAST tunnel. It also communicates server policies detailing the activities that can occur in the secure tunnel.
Mach. PAC	Machine Protected Access Credentials (Mach. PAC) is used to obtain network access when a user's credentials are not available.
EAP-FAST	EAP-Flexible Authentication Via Secure Tunneling (FAST) uses PAC (Protected Access Credential) that is managed by an authentication server to provide security.
MSCHAP	Microsoft Challenge-Handshake Authentication Protocol (MSCHAP) ensures a secure connection between a client and a server by verifying the identity of the devices periodically.
LEAP	Lightweight Extensible Authentication Protocol (LEAP) creates a secure wireless connection with other devices that use Wired Equivalent Privacy.

Term	Definition
PEAP	Protected Extensible Authentication Protocol (PEAP) creates a secure tunnel between client and server devices using digital certificates.
TLS	Transport Layer Security (TLS) uses data encryption and provides a secure connection between a client and a server over the Internet.
TTLS	Tunneled Transport Layer Security (TTLS) creates a secure tunnel between devices using passwords on the client device and digital certificates on the server.
MD5	Message-Digest algorithm 5 (MD5) is a method used to encrypt data.
CCKM	Cisco Centralized Key Management (CCKM) allows secure reconnection of a mobile device when you move from one access point to another.

Open Wi-Fi settings

Access Wi-Fi settings to add, edit, and delete Wi-Fi connections on your HP iPAQ.

To open Wi-Fi settings:

1. Press the **Wireless Manager** link on the **Home** screen or press **Start > Settings > Connections > Wireless Manager**.

2. Press **Menu > Wi-Fi Settings**.

Automatically connect to a Wi-Fi network

When you try to connect to a Wi-Fi network, the HP iPAQ automatically detects the available Wi-Fi networks that are broadcasting their signal. If your Wi-Fi network is not set to broadcast, then you have to connect to it manually. While trying to connect to a Wi-Fi network if authentication is required, contact your network administrator for the details and enter the authentication information correctly.

To automatically connect to a Wi-Fi network:

1. Press the **Wireless Manager** link on the **Home** screen or press **Start > Settings > Connections > Wireless Manager > Wi-Fi**.

2. After your HP iPAQ detects a Wi-Fi network, you are prompted to connect. Select the network to connect to and press **Connect**.

Manually connect to a Wi-Fi network

Manually configure a wireless network by specifying the required settings information.

To manually connect to a Wi-Fi network:

1. Press the **Wireless Manager** link on the **Home** screen or press **Start > Settings > Connections > Wireless Manager**.

2. Press **Menu > Wi-Fi Settings > New…**

3. Enter the network name.

4. Select **Internet** to connect to the Internet through an ISP or select **Private/Work Network** to connect to a company network in the **Network type** list.

NOTE: Select **Private/Work Network** if the network requires a proxy server.

Select **This is a hidden network** check box if you do not want the network to be visible to all. If you are only connecting to another Wi-Fi device, select **This is a device to device (ad-hoc) connection**.

5. Press **Next**. An authentication window opens:

    ●   To use authentication, select an authentication method from the **Authentication** list.

    ●   To use data encryption, select an encryption method from the **Data Encryption** list.

    ●   To automatically use a network key, select **The key is automatically provided** check box. You can also enter the **Network key** and **Key index**.

6. Press **Finish**.

Delete a Wi-Fi network

Delete manually configured networks. However, automatically detected networks cannot be deleted.

To delete an existing or available wireless network:

1. Press the **Wireless Manager** link on the **Home** screen or press **Start > Settings > Connections > Wi-Fi**.

2. Select the Wi-Fi network to delete.

3. Press **Menu > Delete**.

4. Press **Yes** on the **confirmation** screen.

End a Wi-Fi connection

HP recommends to end a Wi-Fi connection once the purpose of the connection is accomplished, this frees your HP iPAQ's resources and conserves battery power along with saving connection charges.

To end a Wi-Fi connection:

1. Press the **Wireless Manager** link on the **Home** screen or press **Start > Settings > Connections > Wi-Fi**.

2. Press **Menu > Turn Off Wi-Fi**.

Configuring 802.1x authentication settings

802.1x authentication settings provide a method to protect the network behind the access point from intruders as well as provide for dynamic keys and strengthen Wi-Fi encryption. Before performing these steps, determine if authentication information is needed by contacting your network administrator.

1. To manually enter information, press **Start > Settings > Connections > Wi-Fi**.

2. Select the network to configure, and then press **Menu > Edit**.

3. Press **Next** twice to reach the **802.1x** screen. Select **Use IEEE 802.1x** network access control check box, and then select appropriate **EAP** type.

Advanced settings

You need to specify advanced settings to connect to the Internet if your network is behind a firewall. You also need to configure advanced settings to access secure intranet sites.

Connect to intranet URLs

To connect to intranet sites that have periods in their URLs (for example, intranet.companyname.com), add them to the **Work URL Exceptions** list.

To connect to intranet URLs:

1. Press **Start > Settings > Connections > Advanced**.

2. Press **Menu > Work URL Exceptions**.

3. Press **Menu > Add** to add an intranet URL.

4. Enter the URL in the **URL Pattern** box, and then press **Done**.

📝 **NOTE:** If you use many URLs that share the same root company name, avoid entering them individually by entering ***.companyname.com**.

Change an intranet URL

To change an intranet URL:

1. Press **Start > Settings > Connections**.

2. Select **GPRS**, and then press **Menu > Advanced**.

3. Press **Menu > Work URL Exceptions**.

4. Highlight the intranet URL to change, and then press **Menu > Edit**.

5. Press **Done**.

📝 **NOTE:** To delete a work URL exception, select it in the list, and then press **Menu > Delete**.

Set up a WAP gateway

To access Wireless Access Point (WAP) sites through Internet Explorer®, configure your device to use a WAP gateway.

Before you begin, obtain the following information from your ISP or network administrator:

- User name
- Password
- ISP server phone number
- WAP gateway server IP
- Port number

To set up a WAP gateway:

1. Press **Start > Settings > Connections > Proxy > Menu > Add**.

2. In the **Type** list, select **WAP**.

Configure advanced proxy settings

To configure advanced proxy settings:

1. Press **Start > Settings > Connections > Proxy**.

2. Press **New...** or press **Menu > Add**.

3. Enter the required information for the following specifications:

- **Description** - Enter the description for the proxy connection.
- **Connects from** - Select where to connect from.
- **Connects to** - Select where to connect to.
- **Proxy (name:port)** - Enter the port name or number.
- **Type** - Select the connection type.
- **User name** - Enter your user name.
- **Password** - Enter your password.

4. Press **Done**.

Advanced connection settings

To set up advanced connections:

1. Press **Start > Settings > Connections**.

2. Press **Menu > Advanced**.

3. Select the connection type for the following options:

- **Internet connection**
- **Work connection**
- **WAP connection**
- **Secure WAP connection**

4. Press **Menu > Options** to set up the dialing rules. Change the following settings:

- **Redial attempts**
- **Idle disconnect after**
- **My desktop connects to**

5. Press **Done**.

To add **Work URL Exceptions**:

1. Press **Menu > Work URL Exceptions**.

2. On the **Work URL Exceptions** screen, press **Menu > Add**, and then enter the URL in the **URL Pattern** box.

3. Press **Done** twice.

Set up a VPN server connection

A VPN connection enables secure connectivity to your corporate network through the Internet.

Before you begin, obtain the following information from your network administrator:

- User name
- Password
- Domain name

- TCP/IP settings

- Host name or IP address of the VPN server

To set up a VPN server connection:

1. Press **Start > Settings > Connections > VPN**.

2. Press **New...** or press **Menu > Add**.

3. Enter the required information.

4. Press **Done**.

NOTE: Contact your service desk or IT desk to configure a VPN connection.

End a connection

Disconnect active connections on your HP iPAQ when it is not in use. This can save connection charges.

- When connected by cable, detach your HP iPAQ from the cable.

- When connected through Bluetooth, press the **Wireless Manager** link on the **Home** screen or press **Start Settings > Connections > Wireless Manager**. Next, select **Bluetooth** to turn Bluetooth off.

- When connected through Wi-Fi, press the **Wireless Manager** link on the **Home** screen or press **Start > Settings > Connections > Wireless Manager**. Next, select **Wi-Fi** to turn Wi-Fi off.