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Introduction

What can bluePAQ do for me?

When attached to your iPAQ handheld, the bluePAQ sleeve adds Bluetooth wireless capabilities plus a compact flash slot. These allow you to:

- Make wireless Internet connections via Bluetooth-enabled mobile phones or personal computers.
- Log on to local networks via Bluetooth-enabled access points or personal computers.
- Perform ActiveSync sessions with your personal computer without docking your iPAQ.
- Call contacts and send SMS messages via Bluetooth-enabled mobile phones.
- Use removable compact flash cards to add extra functions to your iPAQ and to store information.

What is Bluetooth?

Bluetooth provides a common way to link electronic devices without actually connecting them together. Using low power radio waves and sophisticated security, Bluetooth allows you to confidently share information, connect to the Internet, and even remotely control other devices.

Bluetooth was conceived and initially developed by Swedish phone manufacturer Ericsson. However, its real success lies in its ubiquity among all electronic devices and to this end it is now an international standard, controlled by an independent organisation with thousands of member companies. TDK is a proud member of the Bluetooth organisation.

The name 'Bluetooth' is derived from the 10th century Danish king, Harald Bluetooth, who first succeeded in uniting the disparate Scandinavian factions of the time.

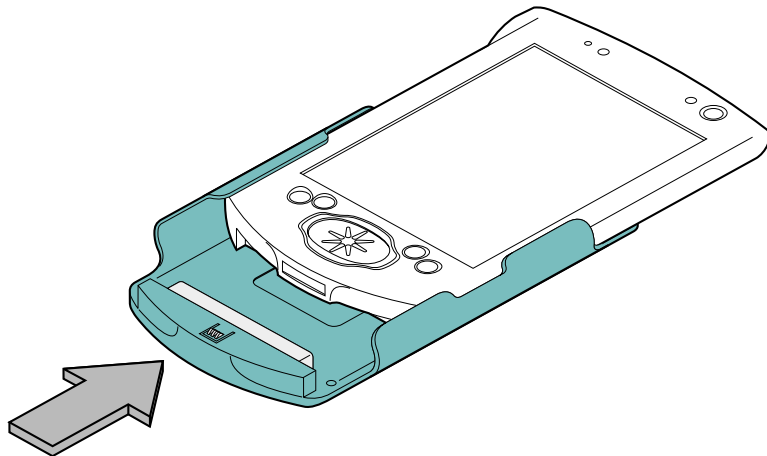
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Getting Started

Attaching the bluePAQ

- 1 With your iPAQ switched on, slide the bluePAQ sleeve onto the base of your iPAQ. Keep sliding the sleeve until it will go no further and lies flush with the base of your iPAQ.



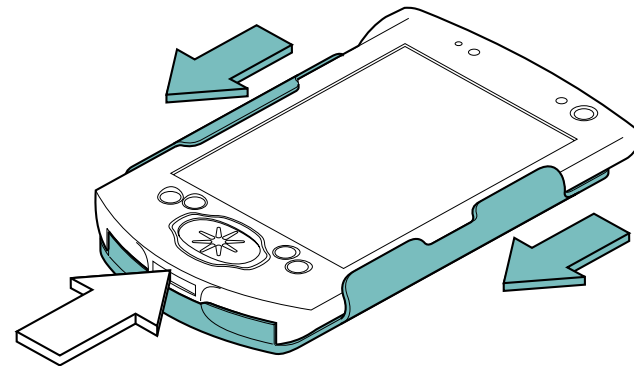
- 2 The screen will respond and, if this is the first attachment will ask permission to install the various software drivers ⇨
- 3 Answer Yes to the questions. The bluePAQ Wizard will begin automatically once the software installation has been completed.



Using the Wizard ⇨

Detaching the bluePAQ

- 1 With your iPAQ switched on or off, grasp the sides of the bluePAQ and gently push the base of your iPAQ so that it disengages and eventually releases from the sleeve.



- 2 The bluePAQ software will remain installed on your iPAQ and will automatically become active whenever the sleeve is re-attached.

Removing the bluePAQ software

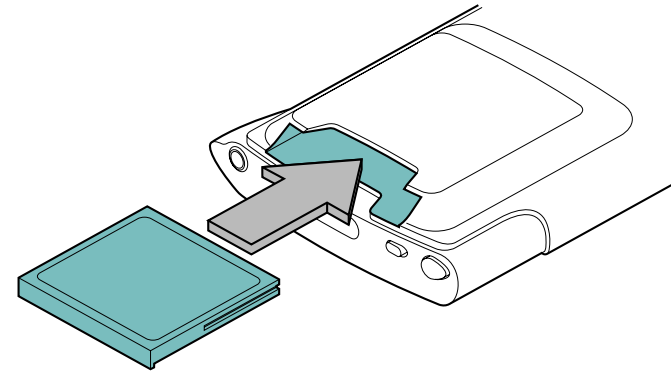
When you detach the bluePAQ its driver software remains installed on your iPAQ. If you will no longer use the bluePAQ, you can remove the software in order to free-up memory space.

- 1 Detach the bluePAQ sleeve.
- 2 Tap the Start button and tap the 'Settings' option.
- 3 Tap the 'System' tab and tap the 'Remove Programs' icon.
- 4 Tap the name of the required bluePAQ driver and tap the 'Remove' button.
- 5 Repeat step 4 for the remaining bluePAQ drivers.



Using the Compact Flash (CF) slot

The slot at the rear of the bluePAQ allows you to use standard Type I and Type II compact flash cards.



Using the bluePAQ Wizard

When you attach the bluePAQ for the first time, its software is installed and then the bluePAQ Wizard starts automatically.

The Wizard is primarily organised to help you connect to Bluetooth mobile phones and network access points, however, it can also help you to connect with other Bluetooth devices.

bluePAQ Wizard (phone model screen)

The first Wizard screen allows you to select the model of your mobile phone or search for other devices.

- 1 If your phone is listed then select it. If it is not, or you wish to connect with a different device, choose 'Other device'.
- 2 Tap the 'Next' button. The bluePAQ will now attempt to locate all of the discoverable Bluetooth devices in your immediate vicinity.



bluePAQ Wizard (select device screen)

This screen provides the results of the search for other devices.

Note: Generally, the name of each discovered device will be displayed. However, if a device does not have a name or the name could not be retrieved then only its Bluetooth address will be displayed (six pairs of digits separated by :).

- 1 Tap the required Bluetooth device from the list.

If a device was not discovered, tap the 'Search again' button. If this still does not locate the device, follow the advice given on the next page.

- 2 Tap the 'Next' button.



If a device was not discovered

- **Check the other device(s)** – Firstly, check that the other device is switched on. Secondly, not all Bluetooth devices are set to be discoverable as standard (your BluePAQ is not normally discoverable) and they must be made to announce their presence – please consult the manual for the other device, then tap the 'Search again' button.
- **Move closer** – The range of most Bluetooth devices is ten metres or more, however, there could be other radiating devices in your area that are affecting the signal. Try moving closer to the other Bluetooth device or changing your position relative to it, then tap the 'Search again' button.
- **Try it the other way** – If you can't find the other device, see if it can find you. You will need to set the bluePAQ to discoverable mode and then get the other device to perform a search – please consult the manual for the other device. Once discovered and paired, you will need to access the Bluetooth settings screen ([device properties](#)) in order to 'Refresh' the details that you have received from the device and learn of the services that it offers.

To make the bluePAQ discoverable

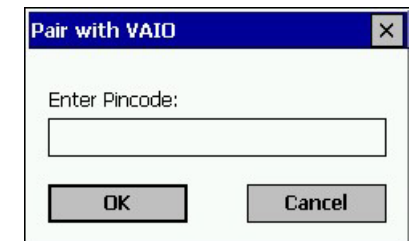
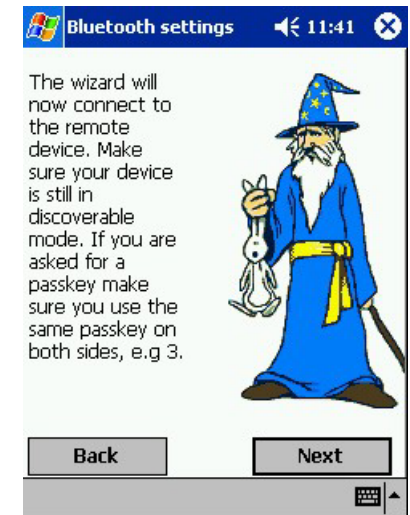
- 1 Display the [Bluetooth settings](#) screen.
- 2 Tap the 'Settings' tab.
- 3 Tap the 'Make discoverable' button. The bluePAQ will now respond when other devices are searching.
- 4 When the bluePAQ has been discovered, tap 'Exit discoverable mode' button.

bluePAQ Wizard (get ready screen)

This screen asks you to ensure two things:

- Make sure the other device is still discoverable – some Bluetooth devices only stay discoverable for a short period of time (e.g. 3 minutes), ensure that it has not returned to a non-discoverable state.
- Use the same passkey – in order to become paired, often a passkey code is required in order to prevent unauthorised access. If the other device requests a passkey, make sure that you use the same code on both devices.

Tap the 'Next' button to continue.



bluePAQ Wizard (found services screen)

This screen displays the Bluetooth services that are:

- offered by the other device, and
- supported by the bluePAQ.

Tap the 'Next' button to proceed.

Note: The device may support more services than are displayed here - you can view any other services in the Bluetooth settings application (Devices tab).



bluePAQ Wizard (setup modem screen)

This screen offers assistance in configuring a modem (dial-up) or network link for the newly paired Bluetooth device:

- Tap the 'Next' button to begin the next stage of the Wizard,
- Tap the 'Cancel' button if setting up a connection is not appropriate for the device, or if you wish to carry out the process manually using standard iPAQ tools – see [making connection settings manually](#).

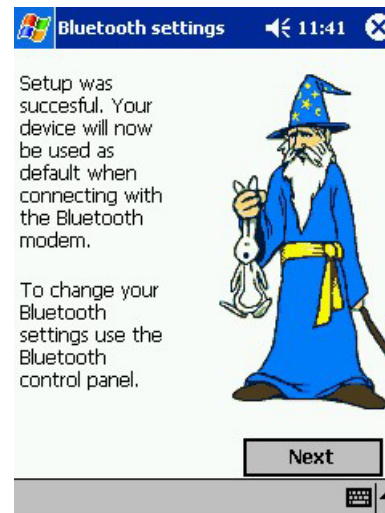


bluePAQ Wizard (pairing success screen)

This screen indicates that the pairing process with the chosen Bluetooth device was successful.

The screen mentions using the Bluetooth control panel – to access Bluetooth settings (control panel).

Tap the 'Next' button to proceed.



bluePAQ Wizard (next screen)

The next screen in the wizard depends on whether the discovered device is:

- primarily a **modem/dial-up device**, or
- a **network connection device**.

bluePAQ Wizard (LAN access screen)

This screen allows you to begin organising the details for your network connection and has just one option.

- **Automatic DNS** – leave this option ticked unless your Internet Service Provider does not support server-assigned IP addresses. If you untick this option, you will be prompted to enter Primary and Secondary DNS addresses - contact your Internet Service Provider. Each DNS address is expressed as four sets of numbers separated by fullstops.

Tap the 'Next' button to proceed.



Automatic DNS (Server-assigned IP addresses)

Every computer that connects to the Internet requires a unique number to differentiate it from every other computer – these numbers are called 'IP addresses'. An IP address is different to your other unique identifier - your email address - but a relationship needs to be made between them. This is the job of a DNS (Domain Name System) server.

There are 4.2 billion IP addresses, but there are a lot of computers that need them. So to use them most efficiently, each computer connecting to the Internet is given a temporary IP address each time they are connected – this is a 'server-assigned IP address'. However, there is an older method still used by a small number of Internet Service Providers whereby every one of their users is given a permanent IP address – these are 'server-specific IP addresses'.

bluePAQ Wizard (service provider screen)

This screen allows you to begin organising the details for your modem (dial-up) connection.

- **Service provider phone number** – enter a phone number for gaining modem access to the Internet. Your Internet Service Provider usually provides this phone number.
- **Use GPRS** – tick this box only if you are using a mobile phone with GPRS capabilities. If in doubt, don't tick it.
- **Automatic DNS** – leave this option ticked unless your Internet Service Provider does not support server-assigned IP addresses. If you untick this option, you will be prompted to enter Primary and Secondary DNS addresses - contact your Internet Service Provider. Each DNS address is expressed as four sets of numbers separated by fullstops.

Tap the 'Next' button to proceed.



bluePAQ Wizard (username screen)

This screen allows you to declare some of the details that you will already have registered with your network administrator or Internet Service Provider.

- **User name** – this is the name that you have registered with your network or Internet Service Provider (it often forms the significant part of your email address and is also sometimes referred to as your 'host name').
- **Password** – the password is registered with your network administrator or ISP alongside your user name and is required whenever you log on – if you do not enter it now, then it will be requested when you log on.

Note: To progress, you will need to close the keyboard/character recogniser in order to tap the 'Next' button – tap the icon in the lower right corner.

Tap the 'Next' button to proceed.



bluePAQ Wizard (connection name)

This screen finalises the connection details.

- **Name for the connection** – this name merely identifies this set of details on your iPAQ and can be anything you want.
- **Place connection in** - *does not appear in Windows CE* - this allows you to choose the connection settings group in which to place this link. The choices will be 'Internet Settings', 'Work Settings' and any other group that has been created. Choose the group that best suits the connection type.
- **Use 19200 bps** – this concerns only mobile phone connections using GSM. Check that your phone can handle this connection speed, otherwise leave it unchecked to use the usual 9600 bps speed. This option may not be offered.
- **Internet Explorer** – when checked, forces Pocket Internet Explorer to use this connection when initiating a new session.

Note: To progress, you will need to close the keyboard/character recogniser in order to tap the 'Next' button – tap the icon in the lower right corner.

Tap the 'Finish' button to proceed.



bluePAQ Wizard (reset)

The bluePAQ will now prompt you to perform a reset to complete the installation. This process will merely place the iPAQ into a known state without losing any stored information or programs in the process.

Tap the 'Yes' button to perform the reset.

Using Bluetooth settings

The control centre for bluePAQ is the Bluetooth settings application. From here you can control all of the key bluePAQ functions or launch the Wizard when linking up with new devices.

The Bluetooth settings application is composed of three main pages:

- **Favorites** - determines how other Bluetooth devices are used.
- **Settings** - provides information and options for your device.
- **Devices** - holds the list of known devices and their abilities.

To access Bluetooth settings

There are two ways to view the Bluetooth settings:

From the Today page

- 1 Display the Today page (tap the Start button and select 'Today').
- 2 Tap the Bluetooth icon in the lower right corner of the screen.
- 3 Tap 'Bluetooth settings'.

From the Settings folder

- 1 Tap the Start button.
- 2 Tap the 'Settings' option.
- 3 Tap the 'System' tab and finally tap the Bluetooth icon.

You now have a choice of three tabbed pages:

- Favorites,
- **Settings**, and
- Devices.

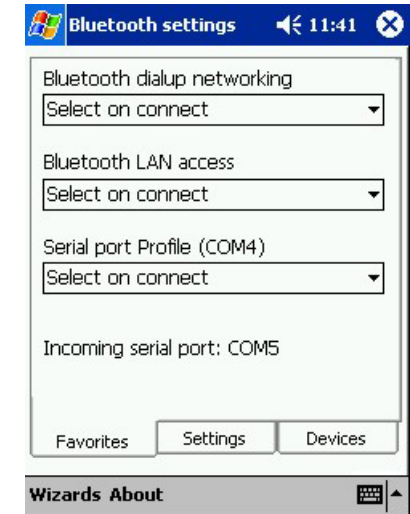
Bluetooth settings (Favorites tab)

This screen allows you to determine how other Bluetooth devices are used to make the three types of connections supported by bluePAQ: dialup networking, LAN (network) access and serial port. For each of the three types, the options are similar.

To view options:

Tap the list box (or down arrow) for the required connection, the options are:

- **Select on connect** – whenever you begin a connection you will be presented with a list of capable devices with which the bluePAQ is paired.
- **Automatic** – each time you begin a connection, the bluePAQ will automatically run through the list of paired capable devices until one is found in the vicinity.
- **Add device** – initiates a search for discoverable devices that are in range. New devices will be added to the devices list - you will then need to pair with them before they can be used for connections.
- **Device list** – above the three options mentioned here, you may see one or more paired devices listed. You can choose one of these to be sole device for making this type of connection, rather than 'Select on connect' or 'Automatic'.

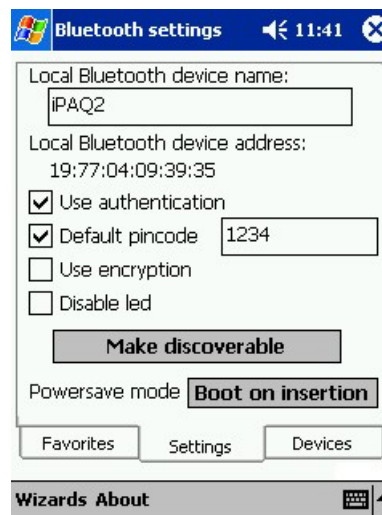


Bluetooth settings (Settings tab)

How to display the Settings tab

This screen provides details and options for your iPAQ/bluePAQ:

- **Local Bluetooth device name** – this is the name of your device that will be visible to other people when they discover your Bluetooth enabled iPAQ. The default name (iPAQ) can be edited.
- **Local Bluetooth device address** – shows the unique address for the bluePAQ. This cannot be changed.
- **Use authentication** – when ticked, bluePAQ demands a passkey before other devices can pair with it (bluePAQ must also be made discoverable in order to be located).
- **Default passkey** – when ticked, displays a box for you to enter a standard passkey for use when pairing with other devices. Using this option means you do not need to enter a code each time you pair with another device.
- **Use encryption** – when ticked, bluePAQ uses the passkey to increase security by encrypting data passing between the two devices. – ‘Use authentication’ should also be ticked to use this option.
- **Disable LED** – when ticked, avoids using the connection indicator at the side of the bluePAQ, reducing power drain.
- **Make discoverable/Exit discoverable mode** – Use this button to control whether bluePAQ can be located by other devices.
- **Powersave mode** – use this button to control battery power drain.
 - ‘Boot on insertion’ means that the bluePAQ is constantly ready to communicate – this is faster but uses more power.
 - ‘Boot on demand’ means that the bluePAQ circuitry is shutdown until it is required to make contact – this takes more time and cannot be contacted by other devices while shutdown. However, it helps to lengthen battery times.



Bluetooth settings (Devices tab)

How to display the Devices tab

This screen displays all currently discovered devices and also indicates whether a paired relationship exists.

From here you can:

- View the properties of a device,
- Discover new devices,
- Pair (or Unpair) a device,
- Remove a device from the list.



To view device properties

- 1 Tap and hold the name of the device in the list until a popup menu is displayed.
- 2 Tap the 'Properties' option.

To discover new devices

- 1 Tap the 'Add device...' option to initiate a search.
- 2 If the search locates any new devices in the vicinity they will be added, in an unpaired state, to the list.
- 3 You can pair the device now.

To pair (or unpair) a device

- 1 Tap and hold the name of the device in the list until a popup menu is displayed.
- 2 Tap the 'Properties' option.
- 3 Tap the 'Pair' (or 'Unpair') button.
- 4 When pairing, you may be asked for a Passkey. If so, enter the same code here as on the device.

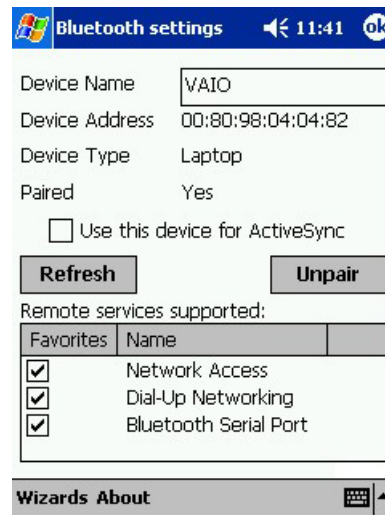
To remove an existing device

- 1 Tap and hold the name of the device in the list until a popup menu is displayed.
- 2 Tap the 'Remove' option.
- 3 Tap 'Yes' to confirm the action.

Bluetooth settings (Device Properties screen)

To display the device properties screen

- 1 Display the [Bluetooth settings](#) screen and tap the 'Devices' tab.
- 2 Tap and hold the name of the device in the list, until a popup menu is displayed.
- 3 Tap the 'Properties' option.



This screen provides details and options for the currently selected Bluetooth device:

- **Device Name** – If found, this shows the name that is set within the discovered device. If a name could not be found, the 12-digit device address will be shown. Either way, you can edit this name.
- **Device Address** – Shows the unique Bluetooth address for the device.
- **Device Type** – Gives an indication of the type of device, i.e. Laptop, Phone, Unknown, etc.
- **Paired** – Indicates whether the bluePAQ has been paired with the device.
- **Use this device for ActiveSync** – Tick this box if the device is a PC and you wish to perform synchronisation sessions with it via Bluetooth – only one paired device can be marked so at any time, selecting this will cancel any previous setting.
- **Refresh** – Tap this button to make contact with the device and check its current status.
- **Pair/Unpair** – Tap this button to create or cancel a paired relationship with the device.
- **Remote Services supported** – Displays a list of Bluetooth services (Profiles) provided by the device. Tick the services that you wish to use.

Discovering and pairing

You have two options for discovering and pairing new Bluetooth devices.

You can either:

- Perform the process manually using Bluetooth settings, or →
- Use the Wizard. ↓

Using the wizard to discover and pair

- 1 Display the Bluetooth settings screen.
- 2 Tap the 'Wizards' menu item and then tap the 'Pair device' option.
- 3 Respond to the onscreen options within the [Wizard](#).



Discovering and pairing manually

To discover devices

Note: Ensure the device that you are seeking is discoverable.

- 1 Display the [Bluetooth settings](#) screen and tap the 'Devices' tab.
- 2 Tap the 'Add device...' option. The bluePAQ will now search for devices and then display the names of any that are found.
- 3 Tap the name that you wish to add to your device list and then tap the 'Add device' button.
- 4 You can now pair with the device - see below.



To pair with a device

Note: Ensure the device that you are pairing with is still discoverable.

- 1 Display the Bluetooth settings screen and tap the 'Devices' tab.
- 2 Tap and hold the name of the device in the list until a popup menu is displayed.
- 3 Tap the '[Properties](#)' option.
- 4 Tap the 'Pair' button. Contact will be attempted with the other device (the other device may request a passkey - if you are prompted, enter the same passkey on both devices).
- 5 If the pairing is successful, this will be indicated in the list.

Being discovered (and paired) by other devices

The bluePAQ is not discoverable as standard, you must make it temporarily discoverable in order for other Bluetooth devices to locate it.

To make bluePAQ discoverable

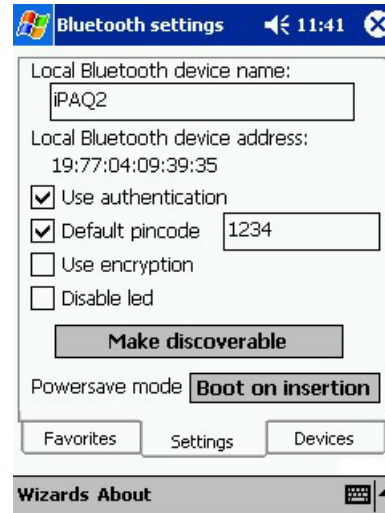
- 1 Display the [Bluetooth settings](#) screen and tap the 'Settings' tab.

Note: You are strongly advised to keep the 'Use authentication' option ticked when making the bluePAQ discoverable.

- 2 Tap the 'Make Discoverable' button. The bluePAQ can now be discovered by other Bluetooth devices that search for it.
- 3 When another device makes contact and attempts to form a pair, you will be prompted to enter a passkey (unless you have entered a 'Default passkey' in the Bluetooth settings) screen. Enter the same passkey on both devices and tap OK.

Note: Often when another device initiates the pairing, its name and services are not declared. To locate these, use the 'Refresh' button in the Device properties screen.

- 4 Tap the 'Exit discoverable mode' button.



Creating (and editing) connections

There are a number of distinct stages involved in setting up Internet and network connections via Bluetooth.

You can either:

- Create (or edit) such settings manually, or →
- Use the Wizard to combine and simplify these stages.



Using the Wizard to create connections

- 1 Display the Bluetooth settings screen.
- 2 Tap the 'Wizards' menu item and then, either:
 - For Internet connections - tap the 'Setup modem' option, or
 - For network connections - tap the 'Setup LAN Access' option.
- 3 Respond to the onscreen options within the [Wizard](#).



Creating and editing connections manually

Four main stages are required to arrange an Internet or local network connection via Bluetooth on your iPAQ:

- [Connection settings](#) - tell the iPAQ how to initiate a connection and which general type of device to use.
- [Log on details](#) - store your account and password details.
- [Dialing options](#) - adjust dialing instructions to suit your current location.
- [Bluetooth settings \(favorites\)](#) - tell the iPAQ which particular Bluetooth device to use.

Connection settings

These are used to tell the iPAQ how to initiate a connection and also which general type of device to use.

To create or edit connection settings

- 1 Display the list of connection settings:

Windows CE or Pocket PC →

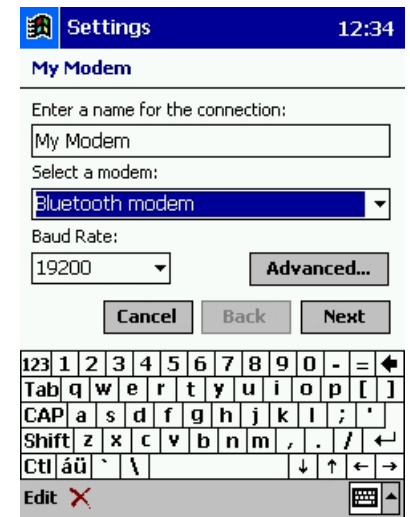
- 2 Enter or edit the key details:

- **Select a modem** - choose 'Bluetooth modem' (for Internet connections) or 'Bluetooth LAN' to best match the type of Bluetooth device that will be used - these link to the 'Bluetooth dialup networking' and 'Bluetooth LAN access' settings respectively in the Favorites page of Bluetooth settings.
- **Baud rate** - for mobile phones, set this to match the highest speed for your phone (unless otherwise stated it is usually 9600). For most PC modems, choose 57600. For LAN connections, ignore this.
- **Advanced...** - these settings should not be altered unless the server you are connecting to does not use server-assigned addresses.

- 3 Tap the 'Next' button.
- 4 Enter or edit the 'Country code', 'Area code' and 'Phone number' that is used to connect to the server of your Internet Service Provider. For LAN connections a phone number is not needed, however, this dialog expects one, so enter some dummy numbers.
- 5 Tap the 'Next' button. The options here do not normally require changing, unless you have specific requirements, such as using [HSCSD](#), [V.110](#) or [V.110 HSCSD](#) connections.
- 6 Tap the 'Finish' button.
- 7 Tap 'OK' to exit.

To display the connection settings (Windows CE)

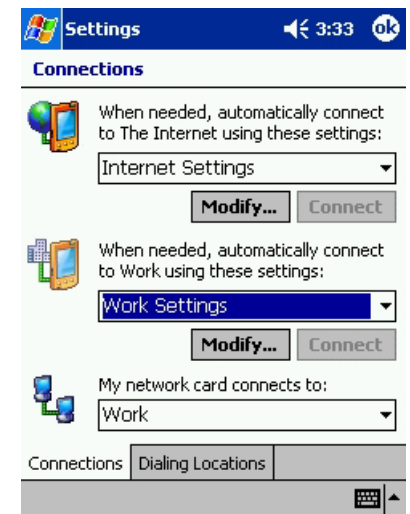
- 1 Tap Start and then tap 'Settings'.
- 2 Tap the 'Connections' tab and then tap 'Modem'.
- 3 Either tap 'New Connection...' or tap an existing entry to edit.



To display the connection settings (Pocket PC)

- 1 Tap Start and then tap 'Settings'.
- 2 Tap the 'Connections' tab and then tap the 'Connections' icon.

The Connections screen has three selection boxes. For basic Internet and LAN connections, you only need the top one.
- 3 In the top selection box, select 'Internet Settings' and tap 'Modify...'.
- 4 Either tap 'New...', or tap an existing entry to edit.



Which version of Windows do I have?

Log on details

These are simply your user name, password (and possibly domain) that are required by your Internet Service Provider or network administrator to gain access to their servers. Separate sets of log on details are required for each connection setting that you create. When you create a new connection setting, a corresponding set of log on details (or at least a place for them) are created.

To enter or edit log on details



The method for displaying and editing log on details changes depending on the version of Windows that your iPAQ is using

- Windows CE →
- Pocket PC
- Which version of Windows do I have?

Which version of Windows do I have?

Certain settings and operations on your iPAQ change depending on the version of Windows software being used. It is important that you know which version you are using.

Quick check: Look at the Windows flag next to the Start button in the top left corner:

- If it has a black border, you have **Windows CE** - 
- If it has a white border, you have **Pocket PC** - 

To check your Windows version:

- 1 Tap the Start button and tap the 'Settings' option.
- 2 Tap the 'System' tab and then tap the 'About' icon.
- 3 Check the top line of the About information - here it will state either:

'Microsoft® Windows® CE', or 'Microsoft® Pocket PC'

To enter or edit log on details (Windows CE)

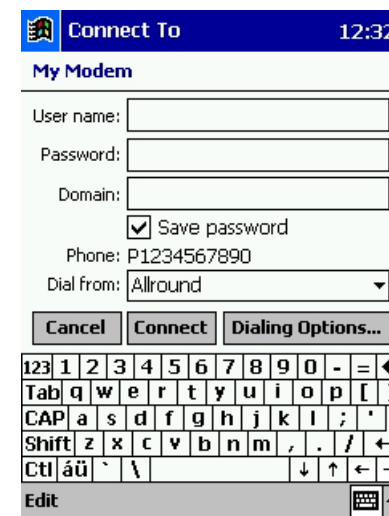
Once connection settings have been created, a new icon is placed into the 'Connections' folder. This is where the log on details are stored and can be entered or edited.

- 1 Tap Start and then tap 'Programs'.
- 2 Tap the 'Connections' folder.
- 3 Tap the name of the required connection.
- 4 Enter or edit the details as required:

- **User name** - the name by which you are registered with the Internet Service Provider or network.
- **Password** - the access password associated with your user name.
- **Domain** - if required by the network, indicates a specific area of the network to enter.
- **Save password** - if ticked, your password is stored so that you do not need to enter it each time you log on - *WARNING: If you tick this option then anyone who uses your iPAQ will be able to gain access to the network.*

- **Dial from** - Select the location from which you are dialing.
- **Dialing options** - allows you to change details about your dialing location(s).

- 5 Tap the 'Connect' button to save the details - this will initiate a connection which (if you do not need to go online yet) can be cancelled by tapping the 'Disconnect' button.



To enter or edit log on details (Pocket PC)

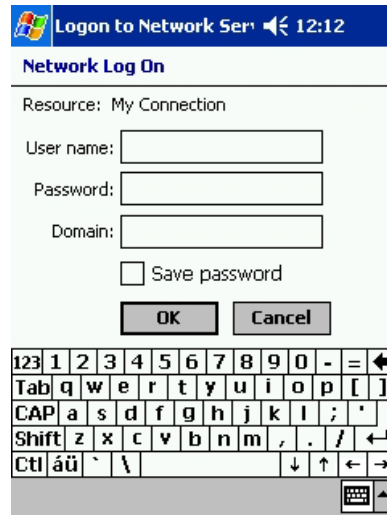
Log on details are only visible (if at all) when you initiate a connection.

Note: If a password was entered within the Wizard or the 'Save password' option has been previously selected, then the log on details will no longer be accessible. The only way to change the log on details will be to re-run the wizard.

1 Display the 'Network Log On' screen.

2 Enter or edit the details as required:

- **User name** - the name by which you are registered with the Internet Service Provider or network.
- **Password** - the access password associated with your user name.
- **Domain** - if required by the network, indicates a specific area of the network to enter.
- **Save password** - if ticked, your password is stored so that you do not need to enter it each time you log on - *WARNING: If you tick this option then anyone who uses your iPAQ will be able to gain access to the network. Also, this log on details page will no longer be accessible.*



3 Tap the 'OK' button to save the details - this will initiate a connection which (if you do not need to go online yet) can be cancelled by tapping the 'End' button.

To display the log on details (Pocket PC)

1 Tap Start and then tap 'Settings'.

2 Tap the 'Connections' tab and then tap the 'Connections' icon. The Connections screen has three selection boxes, for basic Internet and LAN connections, you only need the top one.

3 In the top selection box, select Internet Settings and tap 'Modify...'.
←

4 Tap and hold the appropriate connection setting entry until a popup menu is displayed.

5 Tap the 'Connect' option - either:

- the 'Network Log On' screen will be displayed, or
- a connection attempt will proceed. In the latter case the log on details are no longer accessible and will need to be recreated as part of the connection settings.

Dialing options

Being a portable device, you are likely to use your iPAQ from any number of locations with different area or country dialing codes. Rather than change the modem settings for each different phone line that you use, 'Dialing Options' allow you to create locations and these affect the way that international and area codes are dialed.

To create or edit dialing options

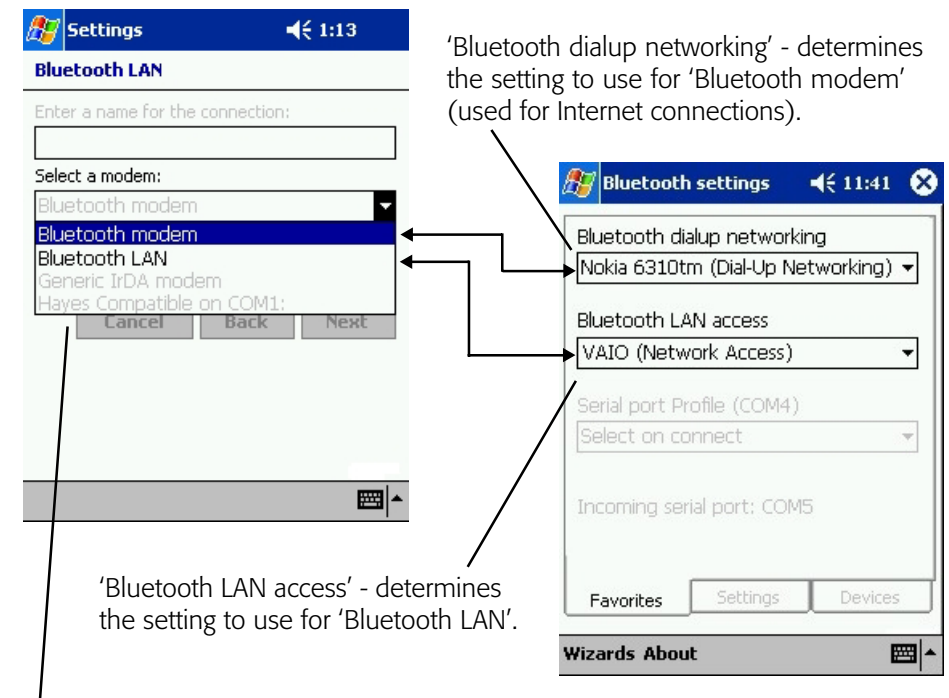
- 1 Tap Start and then 'Settings'.
- 2 Tap the 'Connections' tab and then tap 'Modem' (Windows CE) or 'Connections' (Pocket PC).
- 3 Tap the 'Dialing' (Windows CE) or 'Dialing Locations' (Pocket PC) tab and then either select one of the standard locations: Home, Work or Allround, or tap the 'New' button to create a new location.
- 4 Enter the appropriate 'Area code' and 'Country code' for your chosen dialing location.
- 5 Tap the 'Dialing Patterns...' button and, if necessary, edit the three dialing pattern strings - these use letter markers to represent the codes that will be dialed in each case for local, long distance and international calls. For a full list of letter markers, consult the online help within the Dialing Options screen.

Bluetooth settings (favorites)

Bluetooth settings (the Favorites tab) is where you determine how Bluetooth devices are used for connections. You can:

- Select a device at the time of connection,
- Set the iPAQ to automatically use an appropriate device in the vicinity or
- Fix a particular device to always use whenever you connect to the Internet (or to a LAN).

Within the Favorites tab there are three selection boxes. For Internet and LAN connections, you are only interested in the top two:



'Bluetooth modem' and 'Bluetooth LAN' are the items that you choose in the 'Select a modem' option of the connection settings screen.

To set Bluetooth devices for connections ➡

To set Bluetooth devices for connections

- 1 Display the [Bluetooth settings](#) and tap the Favorites tab.
- 2 Tap the appropriate list box: Either the 'Bluetooth dialup networking' (for Internet connections) or 'Bluetooth LAN access' (for LAN connections).
- 3 Select the required option:
 - Select on connect – whenever you begin a connection you will be presented with a list of capable devices with which the bluePAQ is paired.
 - Automatic – each time you begin a connection, the bluePAQ will automatically run through the list of paired capable devices until one is found in the vicinity.
 - Device list – above the options mentioned here, you may see one or more paired devices listed. You can choose one of these to be sole device for making this type of connection, rather than 'Select on connect' or 'Automatic'.

Starting & ending a connection

To start a connection

When you are ready to begin a network connection (Internet or LAN):

Note: You must first have connection settings.

Note: If you have set Pocket Internet Explorer to use Bluetooth then it will automatically connect when necessary.

- 1 Display the Today page (tap the Start button and select 'Today').
- 2 Tap the Bluetooth icon in the lower right corner of the screen.
- 3 Tap 'Connect to Internet'. The 'Connections' screen will be displayed.
- 4 Tap the required connection and, if necessary, enter a password.
- 5 Tap the 'Connect' button to begin the connection. The 'Connect to' dialog will be displayed and will provide status information

To end your connection

- 1 Locate the 'Connect to' dialog (tap the Start button, select 'Today' and then tap the connection icon in the lower right corner of the screen)
- 2 Tap the 'Disconnect' button.

Connection status

As a connection is being made, the 'Connect to' dialog provide valuable status information:

- **Opening Port** - Indicates that the connection process is being started and attempts are being made to contact the selected device. The blue indicator on the side of the bluePAQ should also begin flashing.
- **Connecting to Host** - The device has been contacted and pairing details are being checked.
- **User Authenticated** - Pairing details have been confirmed.
- **Connected** - The connection is successful and ready to transfer data.

Setting Pocket Internet Explorer to use Bluetooth

Note: This procedure is required only for iPAQs with Windows CE - [Which version of Windows do I have?](#)

Pocket Internet Explorer needs to be informed how to use your Bluetooth connection.

- 1 Tap the Start button and then select 'Internet Explorer'.
- 2 Tap 'Tools' and then tap 'Options...'
- 3 Tap the 'Connections' tab.
- 4 Ensure that your connection is shown in the 'Type:' box.
- 5 Ensure that the 'Access remote content automatically' option is ticked.
- 6 Tap 'OK'. Internet Explorer will now automatically use the new connection.

Using Bluetooth ActiveSync

Performing ActiveSync via Bluetooth means that you no longer need to dock or physically attach your iPAQ to swap information with your PC, in fact you don't even need to be in the same room.

- Preparing for Bluetooth ActiveSync - to make Bluetooth ActiveSync possible there are a few steps that must first be taken to prepare the PC.
- Performing Bluetooth ActiveSync - with preparations complete, you can now use ActiveSync on the move.

To prepare Bluetooth ActiveSync

Before ActiveSync via Bluetooth is possible, you must:

- 1 Discover and Pair the bluePAQ with the Bluetooth-enabled host PC.
- 2 Optionally, mark the paired PC as the 'Use this device for ActiveSync' in its Bluetooth properties screen.
- 3 Set up a partnership between the host PC and iPAQ in the usual manner, using the cradle – see ActiveSync help on the PC. After this you can either remove the cradle or leave it connected to the PC.
- 4 Link ActiveSync to the incoming serial port from the Bluetooth software:
 - First, locate the serial port used by the PC's Bluetooth software – see your software documentation. *If you are using TDK Bluetooth Neighborhood.*
 - Second, change the serial port monitored by ActiveSync to match the Bluetooth software port.

Finding the TDK Bluetooth Neighborhood serial port

- 1 Open the TDK Bluetooth Neighborhood application on the PC.
- 2 Click the 'Bluetooth' menu and then select the 'Device Configuration...' option.
- 3 Select the 'Local Services' tab and then double-click the 'Bluetooth Serial Port' service.
- 4 Make a note of the COM port number and then exit from the configuration screens.

Changing the ActiveSync serial port

- 1 Open the ActiveSync application on the PC.
- 2 Click the 'File' menu and then select the 'Connection Settings...' option.
- 3 Ensure that the 'Allow serial cable...' option is ticked and then change the COM setting below it to match the port used by your Bluetooth software.
- 4 Click OK.

To perform Bluetooth ActiveSync

To perform Bluetooth ActiveSync

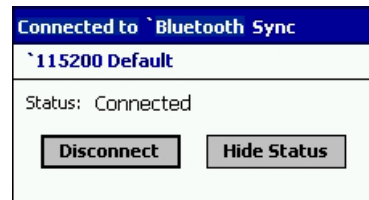
- 1 Display the Today page (tap the Start button and select 'Today').
- 2 Tap the Bluetooth icon in the lower right corner of the screen.
- 3 Tap 'Bluetooth ActiveSync'.

- If you have already selected a Bluetooth-enabled PC device for ActiveSync (in its device properties screen), then a link attempt will begin immediately.
- If you have not marked the device, then a list of all known devices will be displayed. Select the PC from the list and tap 'Connect'. The 'Connect to' dialog will be displayed and will provide status information.



To end your ActiveSync session

- 1 Locate the 'Connect to' dialog (tap the Start button, select 'Today' and then tap the connection icon in the lower right corner of the screen)
- 2 Tap the 'Disconnect' button.



Using Contacts with Bluetooth

The bluePAQ adds useful functions to the Contacts application on your iPAQ. You can now:

- Dial any phone number stored for a contact (via a Bluetooth phone), or
- Create and send an SMS message to a contact (via a Bluetooth phone).

Dialing a contact

You can dial, via Bluetooth and a phone device, any number that is stored in your Contacts application.

To dial a contact

- 1 Tap the Start button and then select 'Contacts'.
 - 2 Locate the required contact entry name – do not display the entry details.
 - 3 Tap and hold the contact entry until a popup menu is displayed.
 - 4 Tap the 'Dial Contact...' option. A list of phone numbers for the chosen contact will be displayed.
 - 5 Choose a number and tap the 'Dial' button. A list of known Bluetooth devices will be displayed*, select an appropriate device and tap 'Connect'.
- * If a suitable paired device has been declared in the Bluetooth settings (Favorites tab) under the 'Bluetooth dialup networking', then an attempt will be made to use that device directly. If successful, no device list will be displayed.

Creating and sending an SMS message

You can send create and send an SMS message to any contact entry that has a mobile phone number listed.

To send an SMS message

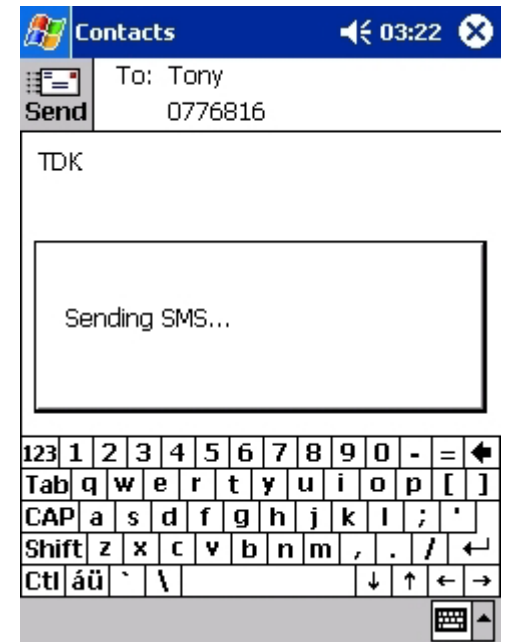
- 1 Tap the Start button and then select 'Contacts'.
- 2 Locate the required contact entry name – do not display the entry details.
- 3 Tap and hold the contact entry until a popup menu is displayed.
- 4 Tap 'Send SMS to Contact' and enter your message.



- 5 When complete, tap the 'Send' button. A list of known Bluetooth devices will be displayed*, select an appropriate device and tap 'Connect'

* If a suitable paired device has been declared in the Bluetooth settings (Favorites tab) under the 'Bluetooth dialup networking', then an attempt will be made to use that device directly. If successful, no device list will be displayed.

- 6 A popup dialog will inform you when the message has been sent.



Setting up high speed links

In conjunction with suitable Bluetooth mobile phones and networks, you can use your iPAQ to initiate special high speed mobile connections. This section provides details for initiating the following connection types:

- GPRS —————→
- HSCSD
- V.110
- V.110 HSCSD

Setting up for GPRS links

General Packet Radio Service (GPRS) is a high speed packet based service that allows continuous connection. GPRS offers increased data throughput, making information retrieval much faster.

Note: Currently only a limited number of networks support GPRS. Contact your service provider for details on availability and to subscribe to this service.

The Bluetooth enabled GPRS phones currently supported are from Ericsson and Nokia. In time, more Bluetooth phones supporting GPRS will become available.

To allow GPRS calls, you need to make settings on both:

- your [phone handset](#), and
- your [iPAQ](#).

To set a Nokia handset for GPRS

Note: All menu selections are made using the left and right selection keys.

- 1 From the standby screen, go to 'menu'.
- 2 Select the 'Settings' menu.
- 3 Select 'GPRS modem settings'.
- 4 Scroll down to 'Edit active access point'.
- 5 Optionally edit the access point alias, or accept the default name.
- 6 Select 'GPRS access point' and enter the APN supplied by the network. This is case sensitive on most networks.

To set an Ericsson handset for GPRS

- 1 From the standby screen, press < or > to enter the menu.
- 2 Select the 'Settings' menu and select 'Data comm'.
- 3 Select 'Data accounts' then 'Add account (GPRS data)' and give it a name. You then need to enter the 'APN', which is the Access Point Name supplied by the network. This is case sensitive on most networks.
- 4 Do not enter a 'User ID' or 'Password' - this will be done on your iPAQ.
- 5 Save the settings.
- 6 Select 'Data accounts' again, select the account you have just created and select 'Edit'.
- 7 Do not enter an 'IP address', unless your network operator demands one. In most GPRS networks the IP address will be dynamically allocated at each connection. Select 'Save'.
- 8 Set the 'Advanced' settings as defined by your network. If you have no guidelines then set:

<i>Authentication:</i>	Normal
<i>Data Compression:</i>	Off
<i>Header Compression:</i>	Off
<i>Quality of Service:</i>	<i>Precedence:</i> Subscribed or Normal
	<i>Delay:</i> Subscribed or Best Effort
	<i>Reliability:</i> Class 3 or Best Effort
	<i>Peak Rate:</i> Subscribed or Class 3
	<i>Mean Rate:</i> Subscribed or Best Effort

Have you set your iPAQ for GPRS yet?

To set your iPAQ for GPRS

- 1 Display the list of connection settings:

Windows CE or Pocket PC

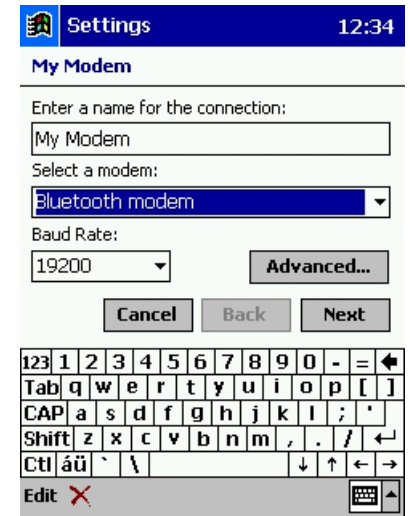
- 2 In the 'Select a modem' section, choose 'Bluetooth modem'.
- 3 Set the 'Baud rate' to '115200'
- 4 Do not alter the 'Advanced' options unless the server you are connecting to does not use server-assigned addresses.
- 5 Tap the 'Next' button.
- 6 In the 'Phone number' section, enter the GPRS activation number supplied by your network operator.

*Note: This is not a real number, but a code used to instruct the handset to start a GPRS session. Most networks and handsets use the string *99#*
- 7 Tap the 'Next' button and then tap the 'Finish' button.
- 8 Tap 'OK' to exit.
- 9 When you connect for the first time you will be prompted to enter a 'User name' and 'Password'. If these have been specified by your network operator, enter them, otherwise create your own.

Have you set your phone for GPRS yet?

To display the connection settings (Windows CE)

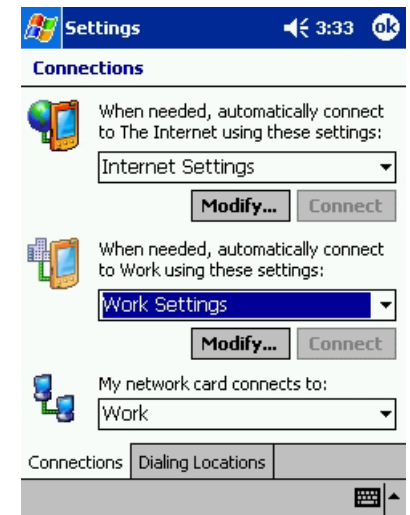
- 1 Tap Start and then tap 'Settings'.
- 2 Tap the 'Connections' tab and then tap 'Modem'.
- 3 Either tap 'New Connection...' or tap an existing entry to edit.



To display the connection settings (Pocket PC)

- 1 Tap Start and then tap 'Settings'.
- 2 Tap the 'Connections' tab and then tap the 'Connections' icon.

The Connections screen has three selection boxes. For basic Internet and LAN connections, you only need the top one.
- 3 In the top selection box, select 'Internet Settings' and tap 'Modify...'.
- 4 Either tap 'New...', or tap an existing entry to edit.



Which version of Windows do I have?

Setting up for HSCSD links

High Speed Circuit Switched Data (HSCSD) is an enhancement of Circuit Switched Data (CSD) which is available on current GSM networks. It increases the speed of transmission so you can send and receive information up to three times faster than the current maximum of 9600bps. The HSCSD solution enables higher rates by using multiple channels, allowing subscribers to enjoy faster Internet access and e-mail.

Note: Contact your service provider for details on availability, supported connection rates and to subscribe to this service.

To set your iPAQ to make HSCSD connections:

- 1 Display the [connection settings](#) that you will use and go through to the final page of its options ⇌
- 2 Place the cursor into the box labelled 'Extra dial-string modem commands' and enter the appropriate initialisation string for your phone and required connection speed:

Example initialisation strings

Nokia 6210/6310

Connection	Initialisation String
9,600bps	+chsn=1,0,0,0
14,400bps	+chsn=2,0,0,0
19,200bps	+chsn=3,0,0,0
28,800bps	+chsn=4,0,0,0
43,200bps	+chsn=6,0,0,0

Ericsson R520m/T39m/T68

Connection	Initialisation String
9,600bps	+chsn=1,1,0,4
14,400bps	+chsn=2,1,0,12
19,200bps	+chsn=3,2,0,12
28,800bps	+chsn=4,2,0,12

Setting up for V.110 links

The main benefit of V.110 connections compared to standard GSM data connections is that call setup is much quicker. Transmission delay and error rate is also slightly lower. V.110 data calls are routed over ISDN and therefore the call setup and data transfer is entirely digital.

To set your iPAQ to make V.110 connections

- 1 Display the [connection settings](#) that you will use and go through to the final page of its options ⇌
- 2 Place the cursor into the box labelled 'Extra dial-string modem commands' and enter the appropriate initialisation string for your phone and required connection speed:

Example initialisation strings

Nokia 6210/6310

Connection	Initialisation String
9,600bps	+cbst=71,0,1

Ericsson R520m/T39m/T68

Connection	Initialisation String
9,600bps	+cbst=71,0,1



Setting up for V.110 HSCSD links

V.110 HSCSD data connections enable quick call setup and faster Internet access at speeds up to 43.2kbps.

Note: Contact your service provider for details on HSCSD availability, supported connection rates and to subscribe to this service.

To set your iPAQ to make V.110 HSCSD connections

- 1 Display the [connection settings](#) that you will use and go through to the final page of its options ⇌
- 2 Place the cursor into the box labelled 'Extra dial-string modem commands' and enter the appropriate initialisation string for your phone and required connection speed:



Example initialisation strings

Nokia 6210/6310

Connection	Initialisation String
9,600bps	+cbst=71,0,1;+chsn=1,0,0,0
14,400bps	+cbst=81,0,1;+chsn=2,0,0,0
19,200bps	+cbst=81,0,1;+chsn=3,0,0,0
28,800bps	+cbst=81,0,1;+chsn=4,0,0,0
43,200bps	+cbst=81,0,1;+chsn=6,0,0,0

Ericsson R520m/T39m/T68

Connection	Initialisation String
9,600bps	+cbst=71,0,1;+chsn=1,1,0,4
14,400bps	+cbst=75,0,1;+chsn=2,1,0,12
19,200bps	+cbst=78,0,1;+chsn=3,2,0,12
28,800bps	+cbst=79,0,1;+chsn=4,2,0,12

Bluetooth information

Bluetooth Services (Profiles)

One of the key Bluetooth design goals is to offer a direct replacement for cables between electronic devices. To do this Bluetooth emulates various types of physical links, such as a serial cable, network links, etc. These are called Profiles. When the bluePAQ discovers and pairs with other Bluetooth devices, you will be presented with a list of profiles supported by that device. The most likely choices that will be offered are as follows:

- **Serial Port** – One of the most basic yet most used profiles, this mode emulates a simple RS232 serial cable link between two devices. This profile forms the basis of several other profiles.
- **Dial-up Networking (DUN)** – Recreates the conditions under which applications such as web browsers and email packages use a modem link to gain access to the Internet.
- **LAN Access (Network Access)** – Acts like a physical connection to a local area network, giving access to information and services on that network.

Discovery and Pairing

There are two main stages in getting Bluetooth devices to work together:

- First, one device must 'discover' the other, and
- Second, the devices then swap security passkeys to become 'paired'.

Once paired, the two devices can request and supply information or services as required. For each set of devices, the pairing process need only be carried out once and from that moment they can call directly to each other as necessary, providing they are within range.

The discovery and pairing characteristics of your bluePAQ are controlled from the Bluetooth settings application. Note that the bluePAQ is NOT discoverable by default – you must make it discoverable in order for other devices to find it.

The reason for discovery and pairing

From its initial conception, the Bluetooth standard has been designed with security in mind. Obviously, when your iPAQ can theoretically be accessed by any other Bluetooth device, you need to be sure that you are in control of how, and by whom it is being accessed. For this reason, the process of getting most Bluetooth devices to work together is divided into two distinct stages - 'Discovery' and 'Pairing'.

To understand the process, imagine a group of people in a dark room. Person A wants to find someone to talk to among all the others. So person A calls out if anyone is there (discover). Person B does not want to be discovered so they don't reply (non-discoverable). However, person C does want to be known (discoverable) and shouts out their name, possibly along with many others. Person A then chooses person C from a number of responses and asks them directly for more details. Person C then asks for a secret password (passkey) before the conversation gets any deeper. Providing the right number or word is given, they form an instant trusting relationship (pairing) and from that moment on, whenever they need to share information, they simply call each other by name.

Troubleshooting and Information

Troubleshooting

Pairing problems

The pairing process is an important operation. If the devices do not pair then they cannot share information or resources. Ensure that one device is discoverable and the other is in discover, or search mode. Check that the passkey is entered identically on both devices.

Technical Support

If, after having tried the aforementioned guidelines you are still experiencing problems please contact your place of purchase or local distributor. Alternatively, for further guidance and up to date product information try:

Our website at

www.tdksystems.com

or our helpdesk at

support@tdksystems.com

Technical Information

Power consumption - standby:	7mA
Power consumption - established connection with data transfer:	54mA
Operating Temperature:	0 - 55°C
Maximum RF output power:	2.5mW (4dBm)
Nominal RF output power:	1mW (0dBm)
Compact Flash slot:	Type I and Type II
Range:	up to 10 metres, free space.
Weight:	53g
Size:	28 x 130 x 83mm
Compliant with open standard:	Bluetooth 1.1 (Document number 1.C.47/1.1) + C.E. Bluetooth power class: 2

Regulatory Information

This product complies with any mandatory product specification in any country where the product is sold. In addition, the product complies with the following:

European Union (EU) and EFTA

This equipment complies with the R&TTE directive 1999/5/EC and the following standards:

ETS 300 328-1 V1.2.2 (2000-07)

ETS 300 826 11/1997

EN 60950:1992 + A1:1993, A2:1993, A3:1995, A4:1997, A11:1997

EU recommendation 1999/519/EC and has been provided with the CE mark accordingly.



Bluetooth

This equipment is qualified according to Bluetooth specification Version 1.1 (Specification of the Bluetooth System, Core Specification Volume 1 and Profiles Specification Volume 2 V1.1, December 1st 1999 (Document number 1.C.47/1.1)+ Critical Errata) and supports Dial-up Networking, LAN Access and Serial Port profiles.



Declaration of Conformity

To view the Declaration of Conformity for these products, please see the [final](#) page.

Special notices for use in France and Italy

France

Dispositif à faible puissance (1 mW), pas de limitation pour son usage à l'intérieur ou à l'extérieur.

Low power device (1 mW), no limitation for indoor or outdoor use.

Italy

E' necessaria la concessione ministeriale anche per l'uso. Verificare con i rivenditori la procedura da seguire.

Licence required for use. Check with your reseller for the procedure you need to follow.

Safety Statements

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

The radiated output power of the TDK bluePAQ is far below the FCC Radio frequency exposure limits. Nevertheless, this device should be used in such a manner that the potential for human contact during normal operation is minimized.

Warning: Changes or modifications made to this equipment not expressly approved by TDK Systems Europe Limited may void the FCC authorization to operate this equipment.

Important Please note the following:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Glossary

Authentication

Process of verifying the identity of the user at the other end of a link. Authentication is accomplished by using a link key stored in the device memory or by a user PIN (called pairing).

Authorization

Process of deciding if a requesting device is allowed to have access to a service on another device. Authorization always includes authentication.

Bluetooth Device Address

Every Bluetooth transceiver is issued a unique 48-bit Bluetooth Device Address which is used for quite a few algorithms when exchanging data between devices. The Bluetooth Device Address is used for hop sequence generation and many error detection code generation schemes.

Bluetooth Unit

Any device such as a mobile handset, PDA, or PC card that is equipped with suitable Bluetooth hardware needed to establish wireless communication between devices.

Bonding / Pairing

The creation of a semi-permanent (or permanent) relationship between two devices. The relationship is established when the user enters a passkey with the explicit purpose of creating a bond between two devices. This procedure is different from authenticating using a passkey in which the user is requested to enter a passkey during the establishment of a link.

Inquiry / Discovery

Process by which a Bluetooth unit transmits inquiry messages in order to discover the other Bluetooth units that are active within the coverage area. Any Bluetooth unit that received the inquiry message may respond to the inquiring device with information about its Bluetooth unit and its host device.

PIN / Passkey

Personal Identification Number. A type of password that is unique to a user.

Piconet

A network of devices connected using Bluetooth technology. A piconet may consist of two to eight devices. In a piconet, there will always be one master while the others are slaves.

Trusted device / Paired device

A device that has been authenticated.

Profiles

Bluetooth software emulates various types of wired links it is designed to replace. Each of these emulations are known as profiles. Examples of profiles are serial port, LAN and dial-up networking.

Warranty

TDK warrants that the bluePAQ product shall conform to TDK's published specifications, which may be subject to change, and remain free from defects in materials and workmanship under normal, proper and intended use for a period of one (1) year from date of purchase, provided that proof of purchase be furnished with any returned equipment.

If, during the warranty period, any component part of the equipment becomes defective by reason of material or workmanship, and TDK is immediately notified of such defect, TDK shall at its option supply a replacement part or request return of equipment, freight prepaid, to its designated facility for repair. In the event that no fault is found on a product returned for repair, TDK reserves the right to charge the customer its standard published repair charge.

This warranty shall not apply to any product that has been subject to misuse, bending, twisting, neglect, alteration, improper installation, operation outside of the parameters of the published specification, use in any non-approved countries or unauthorised repair performed by anyone other than a TDK designated repair facility. Any non-warranty repairs or maintenance shall be at TDK's standard rates in effect at the time.

This warranty is in lieu of all other warranties, whether expressed, implied, or statutory, including but not limited to, implied warranties or merchantability and fitness for a particular purpose. In no event shall TDK be liable, whether in contract, in tort, or on any other basis, for any damage sustained by its customers or any other person arising from or related to loss of use, failure or interruption in the operation of any products, or delay in maintenance, or for incidental, consequential, indirect, or special damages or liabilities, or for loss of revenue, loss of business, or other financial loss arising out of or in connection with the sale, lease, maintenance, use, performance, failure, or interruption of these products.

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iPAQ is a trademark of Compaq Information Technologies Group, L.P. in the U.S. and other countries.

Microsoft, Windows, ActiveSync are trademarks of Microsoft Corporation in the U.S. and other countries.

Other products and brand names may be the trademarks or registered trademarks of their respective owners.

BLUETOOTH is a trademark owned by Bluetooth SIG, Inc, U.S.A. and licensed to TDK Systems Europe Limited.

Declaration of Conformity

We

Tactel AB
Norra Vallgatan 64
SE-211 22 Malmö
Sweden

Declare under our sole responsibility that, based on testreports from Notified Body
Cetecom ICT Services GmbH, Saarbrücken Germany (NB ID 0682)

the products:

Tactel Blue I 420
Tactel Blue I 430

to which this declaration relates, is in conformity with the following standards:

EN 60950
ETSI EN 300328-2 V1.1.1
EN 301489-1
EN301489-17

Malmö April 16, 2002



Tactel,
Ulf Estberg