



walkinghotspot™

USER GUIDE

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1.0 Downloading WalkingHotSpot®

WalkingHotSpot (WHS) is delivered as a self extracting file that can be downloaded to your smartphone from the internet. Please visit <http://www.walkinghotspot.com> to get the appropriate link to the software. Currently both Windows Mobile and Symbian S60 operating systems are supported.

NOTE: *It is recommended that you have an unlimited data plan with your network carrier operator.*

2.0 Installing WalkingHotSpot®



Installation begins automatically after the sis install file has been downloaded onto the target phone. A series of three screens will pop up in order during the installation. Follow the instructions on each screen and respond when prompted to install WalkingHotSpot.

Screen 1: Install WalkingHotSpot? Screen:

Yes – proceeds with installation

No – stops installation

Screen 2: Information screen (application name and version number):

Continue – proceeds with installation


Cancel – stops installation

Screen 3: Data usage warning screen:

OK – proceeds with installation

Cancel – stops installation

After installation is complete WalkingHotSpot is ready to be configured and run.

TIP: *To put the WalkingHotSpot icon  on the “active idle list” (short cut on the main S60 screen) please refer to the S60 user manual that came with your phone. This will enable single button starting of the application.*

Installation begins automatically after the file has been downloaded onto the target phone, if the “Open file after download” option is checked.

If installing manually, after the file download is complete, open the File Explorer, navigate to the “My Documents” folder and select “walkinghotspot.cab”.

As the installation of WalkingHotSpot begins there will be a progress screen followed by a popup message asking the user to restart the device to finalize installation. Select “Yes” to reboot the phone.

NOTE: *On some phones you might be asked to restart installation. If this happens, navigate back to the “My Documents” folder and select “walkinghotspot.cab” again.*

3.0 Running WalkingHotSpot®

WalkingHotSpot (WHS) was designed to be easy to use. To launch locate and select the WalkingHotSpot icon to open it in the idle state as denoted by the red **“OFF”** on the WHS status screen.




To begin using the WHS device (phone) as an access point or WalkingHotSpot, select **“Start”** from the WHS status screen. WalkingHotSpot is active and ready for connections when the status changes to a green **“ON”**.

NOTE: *On the initial start-up or until cancelled, a warning message about heavy data utilization will be displayed. Simply answer the questions to continue to activate WalkingHotSpot.*

To terminate WalkingHotSpot, select **“Stop”** or **“Options”** and then **“Exit”**.

3.1 OS specific tips



<p>Locating the WalkingHotSpot icon</p> 	<p>Open the folder where installed applications are stored, typically “Installations” or “Applications” Note: <i>a shortcut can be created to put the icon on the active idle bar</i></p>	<p>Open Start ▶ Programs menu</p>
<p>Sending to background</p>	<p>Press red end key (phone hang-up)</p>	<p>Press red end key (phone hang-up) or navigate to the Today screen</p>
<p>Restoring to active screen</p>	<p>A long (2 second) S60 menu key press ( or ) press will bring up a list of the active applications</p>	<p>Open the Today Screen and select the WHS icon.</p>
<p>Clearing the data warning</p>	<p>Answer “No” to 2nd question: “do you want this warning to appear again?”</p>	<p>Uncheck the “Display on startup” box on the warning</p>

3.2 Interacting with WalkingHotSpot®

WalkingHotSpot runs the same on all phones but user interaction is a bit different between touch and non-touch versions. The same keys or touches that are typically used to run an application are used to interact with WalkingHotSpot.

TOUCH: user interaction is done via the touch screen (selecting the item with the stylus or finger)

NON-TOUCH: the select or active key is used to select an icon or menu item and the arrow keys are used to traverse between menus or active screen items

4.0 Registration

As part of the purchase and installation procedure a registration key (license code) is required to activate WalkingHotSpot. At startup and until a valid code is entered, a Registration Screen (illustrated to the right) will be displayed. Either input the code, assigned at the time of purchase, in the boxes and select “**Register**” or select “**Skip**” to cancel and register later.

Register – the authentication process informs the user whether the registration was successful or not

Skip – WalkingHotSpot cannot be used without registering (purchasing)



5.0 Settings

Button sequence: [Options] ▶ [Settings]

For all of the settings described in the following sections. A button sequence will be defined (as above) which when executed on the phone will bring up the targeted option. The button sequence is either a menu item or soft key.

To bring up the main settings menu execute the button sequence above. To change the value of any of the items either select it using the joystick or touch screen.

Most settings can only be altered when WalkingHotSpot is in the idle mode. The WalkingHotSpot is in the idle mode when there is an “**OFF**” on the main WalkingHotSpot status screen.

5.1 My connections

Button sequence: [Options] ▶ [Settings] ▶ [My connections]

This menu item has two sub menus that deal with how clients connect to a WalkingHotSpot. These settings provide security and enable control of who connects to your WalkingHotSpot.

5.1.1 Client auto connect

Button sequence: [Options] ▶ [Settings] ▶ [My connections] ▶ [Client auto connect]

Executing the button sequence above will toggle the Client auto connect values:

On (✓) – WHS clients automatically connect to WalkingHotSpot after their first successful connection, meaning the WHS user only has to authenticate them (once), via a popup message, on the initial connection.

Off – (default) the WHS user must grant access each time a WHS client connects.

5.1.2 MAC filtering

Button sequence: [Options] ▶ [Settings] ▶ [My connections] ▶ [MAC filtering]

This feature allows the WHS user to view or administer WalkingHotSpot access via MAC address.

NOTE: *in Windows Mobile the next sub menus are access via a tab on bottom of the screen*

5.1.2.1 Accepted clients

Button sequence: [Options] ▶ [Settings] ▶ [My connections] ▶ [MAC filtering] ▶ [Accepted clients]

This feature lists the friendly name (client host name) or MAC address of each client that has connected to the WalkingHotSpot. Within this feature you can view detailed information (i.e. MAC address) about a client, search for a specific client, delete one, multiple, or all clients from the list.

NOTE: *deleting a client from this will also remove it from the Allow-only list, if it is on that list*

5.1.2.2 Blocked clients

Button sequence: [Options] ▶ [Settings] ▶ [My connections] ▶ [MAC filtering] ▶ [Blocked clients]

This feature lists the friendly name (client host name) or MAC address of each client that has had access permanently blocked to the WalkingHotSpot. Within this feature you can view detailed information (i.e. MAC address) about a client, search for a specific client, delete one, multiple, or all clients from the list.

NOTE: *deleting a client from this list will allow a previously blocked client to connect to WalkingHotSpot*

5.1.2.3 Allow-only mode

Button sequence: [Options] ▶ [Settings] ▶ [My connections] ▶ [MAC filtering] ▶ [Allow-only mode]

Executing button sequence above allows the WHS user to toggle the Allow-only mode On or Off:

On – only let's clients whose friendly name (client host name) or MAC address is in the list connect to WalkingHotSpot. At least one client must be contained in this list, otherwise it will default back to Off.

WHS user can administer this list by adding clients manually or moving previously connected or accepted clients to this list. WHS user can also delete clients from this list.

NOTE: *deleting a client from this list has no effect on either the Blocked or Accepted lists*

Off – (default) clients are connected as described in section 6.0

5.2 Network

Button sequence: [Options] ▶ [Settings] ▶ [Network]

This menu item has three sub menus that deal with the wireless local area network (WLAN or hotspot) that is created when running WalkingHotSpot. These settings provide security and enable you to administer or control who connects to your WalkingHotSpot.

5.2.1 Operator access point

Button sequence: [Options] ▶ [Settings] ▶ [Network] ▶ [Operator access point]

To configure the cell network settings execute the button sequence above to display a screen that lists the access points available for connectivity. This is the high speed connection from the mobile network operator that will be used for internet connectivity (backhaul). Please ensure that the *proper selection is made. If there are any questions on which access point to use, contact your carrier to verify which network access point should be used for internet connectivity.*

NOTE: *This is the only setting that needs to be set in order to get WalkingHotSpot functional.*

5.2.2 My Wi-Fi network name

Button sequence: [Options] ▶ [Settings] ▶ [Network] ▶ [My Wi-Fi network name]

Executing the button sequence above displays a screen that allows the WalkingHotSpot user to change the name of their "hotspot" (SSID). The default value is "whs" + the last seven (7) digits of the phone's electronic serial number. Use the on-screen keyboard or the phone's text entry mechanism to change the name.

5.2.3 WEP security

Button sequence: [Options] ▶ [Settings] ▶ [Network] ▶ [WEP security]

Executing the button sequence above will toggle the WEP security values:

On –allows the WHS user to set a password (key) locking the WalkingHotSpot to trusted individuals who know the password. A password entry field appears allowing the WHS user to enter a WEP password. Use the on-screen keyboard or the phone's text entry mechanism to change the name. The WEP key **must** be five (5) characters in length or thirteen (13) characters in length.

Off – (default) open or unsecure WalkingHotSpot – no password needed to connect but user still controls who connects (see Client auto connect)

5.3 Battery saver

Button sequence: [Options] ▶ [Settings] ▶ [Battery saver]

This menu item has three sub menus that could help your battery last longer when running WalkingHotSpot.

NOTE : *Some of these settings are not supported on some phones. If the item is not supported the menu item will be grayed out and non-selectable.*

5.3.1 Auto shutdown

Button sequence: [Options] ▶ [Settings] ▶ [Battery saver] ▶ [Auto shutdown]

Executing the button sequence above will bring up the Auto shutdown feature which contains two

additional settings:

Activating the [**Stop if inactive**] option toggles the value:

On – (default) WalkingHotSpot will automatically shut down to the idle state if there is no WHS client data traffic (i.e. phone to PC) for longer than the specified timeout period. This is useful if WalkingHotSpot is inadvertently left on. Two additional settings are available: enable a “Popup” warning and set the “Timeout” period.

“**Popup**” values are “**On**” and “**Off**”:

On – a warning message will be issued before WalkingHotSpot terminates

Off – (default) no warning message issued before WalkingHotSpot terminates

“**Timeout**” is the amount of idle time necessary to activate the auto-shutdown feature. The value can be set to any amount of time in minutes (default is 15).

Off – WalkingHotSpot will continue to run until manually terminated.

Activating the [**Stop if low battery**] option toggles the value:

On – (default) WalkingHotSpot will automatically terminate when the battery level falls below 45%. A message will have been issued warning the user to charge the battery before WalkingHotSpot terminates. When this feature is active and the battery level is below the threshold, WalkingHotSpot cannot be started unless the phone is being charged.

Off – WalkingHotSpot can always be started and will continue to run until the battery dies. Warning dialogs will be issued to remind the user to charge the device.

WARNING: *when this feature is set to “Off” the battery can be fully drained resulting in shutdown of the phone and subsequent inability to make calls without recharging*

5.3.2 Cell net auto disconnect

Button sequence: [**Options**] ▶ [**Settings**] ▶ [**Battery saver**] ▶ [**Cell net auto disconnect**]

Executing the button sequence above will toggle the Cell net auto disconnect values:

On – (default) the mobile network data interface will shut down after WalkingHotSpot has been inactive (no client data transfer) for more than 3 minutes.

Off – no action taken, the mobile network data interface will stay persistent.

NOTE: *Some clients continuously send data across the network even when idle.*

5.3.3 Wi-Fi power

Button sequence: [**Options**] ▶ [**Settings**] ▶ [**Battery saver**] ▶ [**Wi-Fi power**]

To change the Wi-Fi transmit power setting s execute the button sequence above and the power setting list will be displayed:

Wi-Fi power values are “**High**”, “**Normal**”, and “**Low**”:

High – use when distance from the WHS device is critical

Normal – (default) a hybrid of distance and battery optimization

Low – use when the WHS clients are nearby and battery conservation is important

5.4 Restore defaults

Button sequence: [**Options**] ▶ [**Settings**] ▶ [**Restore defaults**]

Executing the button sequence above will reset WalkingHotSpot to its default settings. A confirmation question will be displayed giving the option to cancel the restoration.

6.0 Connecting a Client

NOTE: *This section assumes Allow-only mode is off (section 5.1.2.3)*

When WalkingHotSpot is active, up to five (5) WHS client devices can simultaneously connect to the Internet. When a potential client is trying to connect, a popup message "Allow user device-name to use WalkingHotSpot?" will be displayed if this is either the first time that particular client is trying to connect or the "Client auto connect" is set to "Off". The responses are "Yes" and "No" via soft keys:

Yes – WHS client will connect to the WalkingHotSpot and one of the black simulated LEDs (available slots for connectivity) will turn green indicating an active connection was made.

No – Will display message: "Do you want to block user device-name permanently?"

Responses are "Yes" and "No" via soft keys:

Yes – connection is denied and the WHS client will be placed on the blocked list

No – connection is denied for this session but the WHS client will not be placed on the blocked list which means they can try to connect in subsequent sessions

Otherwise the WHS client will connect and a simulated LED will turn green.

NOTE: *WHS clients (i.e. laptops and MP3 players) are connected to the WalkingHotSpot utilizing an Ad-Hoc network Connection which should be similar to connecting to other wireless network. Please consult your WHS client's (pc) documentation for details on how to connect to an ad-hoc network or WLAN.*

- *The black circles represent the number of connections (IP addresses) available*
- *The green circles indicate the number of active connections (IP addresses) in use*

7.0 Blocking a Client

When WalkingHotSpot is active and clients are connected the WHS user can still police or administer their WalkingHotSpot. To administer a given connection (green LED) use the navigation keys (left / right arrows, or stylus) to highlight an LED and see the name (or MAC address) of each connection. Once the targeted client is highlighted, press the joy stick or center button to bring up the options:

MAC address – displays the unique media access control address of the connecting client

Block user for session – knocks the client off the WLAN and blocks it for the remainder of the current session

Block user permanently – knocks the client off the WLAN and blocks it permanently (puts it on the block list). For information on how to remove a permanently blocked client refer to section 5.1.2.2.

NOTE: *blocking permanently will remove the user from the accepted and allow-only list*

8.0 Roaming Indicator

When roaming outside the home carrier network, a popup message will appear, alerting the user of potential increased data costs and asking to continue using WalkingHotSpot. Answering "Yes" to this message will keep WalkingHotSpot active, while answering "No" will cause WalkingHotSpot to terminate.

NOTE: *WalkingHotSpot continues to run while the note is displayed. If WalkingHotSpot is attempting to start in a roaming network, a warning prompt will be issued to ensure that it should be started*

9.0 Help

Button sequence: **[Options]** ▶ **[Help]**

Executing the button sequence above will launch the phone's browser and bring up a web site that contains help topics for WalkingHotSpot. Depending on your phone's browser settings, you may be asked to select an access point to be able to connect to the web.

NOTE: *Your browser will need to have an access point from your cellular network operator rather than a WLAN access point since the phones do not support two (2) active WLAN connections.*

10.0 About

Button sequence: **[Options]** ▶ **[About]**

Executing the button sequence above will display a screen that provides information on copyrights, software version, and contact information

11.0 Exiting WalkingHotSpot®

Button sequence: **[Options]** ▶ **[Exit]**

Executing the button sequence above will terminate WalkingHotSpot and stop any active connections.

12.0 Upgrading WalkingHotSpot®

Upgrades to WalkingHotSpot are done over-the-air (OTA). When a new version is released, a popup message will be displayed at startup which queries the user if WalkingHotSpot should be upgraded.

Responses are “**Yes**” and “**No**”:

Yes – initiates the push of the new SW version to the phone which starts the installation process automatically. Follow the prompts on the screen to complete the upgrade.

No – starts the current version of WalkingHotSpot; however, the popup will be displayed the next time WalkingHotSpot is started.

13.0 Uninstalling WalkingHotSpot®



locate the WalkingHotSpot icon in the folder where installed applications are stored (“Installations” or “Applications”), highlight then **[Options]** ▶ **[Remove]**



press Windows Mobile Start button then **[Settings]** ▶ **[Systems(tab)]** ▶ **[Remove Programs]**, select WalkingHotSpot; after verifying removal, you may receive a dialog asking if you wish to keep your settings. If upgrading select “Yes” otherwise select “No”. A reboot will be required to complete the uninstall

Check out <http://www.walkinghotspot.com/support> for more information.