

Sprint PHS Basics

Getting on the Internet

The Sprint PHS is easy to use and operate. With simple connection and setup you while surfing the Internet with your personal wireless network in a matter of seconds. In brief, simply connect your dataenabled cell phone (contact your service provider for details) or a USB Modem to the USB Port on the Sprint PHS. Turn on the Sprint PHS using the ON / OFF switch on the unit and turn on your cell phone (USB modems will automatically be enabled).

USB to Data Port Cable Phone Or Modem

> USB Port

P.F.

The Sprint PHS and phone will automatically create your network. If you are using a cell phone, be sure you have configured the phone's settings to act as a modem. Once your Sprint PHS has fully booted and operating along side your USB modem or phone, use the wireless network finder on your computer to associate with your new wireless network. The first time you use the Sprint PHS your network will be named:

SPRINTPHS-xxx

Where 'xxx' is the last three digits of the Sprint PHS's MAC Address. The MAC Address can be found on the bottom of the unit. The password, by default, is the last 6 characters of the unit's MAC address.

Once your computer has associated with your new wireless network, you are ready to start surfing. Simply open your favorite Web Browser, enter your password at the Login screen, and select the Login button. We recommend that you change your password after your first login, which is easily accomplished from the Sprint PHS's Admin and Setup pages. (See Setting Your Password for details.)

So how does it all work?

The Sprint PHS contains a 802.11 b/g WiFi router. Your phone provides access to the Internet through the data network. When your phone is connected to the Sprint PHS, the unit creates a local WiFi network and connects to the Internet through your service provider's data network. This creates your own personal, portable wireless network or "hotspot". Set it up anywhere within your cellular service provider's coverage area whenever you want access to the Internet, check your email, or work via a VPN. Depending on your handset model, the Sprint PHS even charges your handset at the same time.

Using the Contols

Δ	LED 0 – Power/Charging Status of	
	Router	

 Solid Green Solid Amber
 The SPRINT PHS's battery is completely charged, unit connected to external power.

 Flashing Amber
 SPRINT PHS is charging the internal battery and connected to external power.

 Flashing Red
 SPRINT PHS is connected to external power and the battery is running low.

 SPRINT PHS is connected to external power and the battery is running low.
 SPRINT PHS is connected to external power and the battery is running low.

 SPRINT PHS is connected to external power source.
 Be sure that you are not using a a power source.

 OFF
 SPRINT PHS is OFF and not connected to external power source

SPRINT PHS is on, running on its battery and the battery is not low.

в	LED 1 – Router/Admin Pages Status	Green Wireless network is ready. Amber SPRINT PHS is booting. Red SPRINT PHS failure. No wireless network. OFF SPRINT PHS is OFF.			
с	LED 2 – USB/Netwrok Status	Green SPRINT PHS is connected properly to handset and a data link has been established. Amber Handset is connected and data link is being established. Red Handset not connected –AND / OR - data link failed. OFF No handset connected -OR- SPRINT PHS is OFF			
D	Ventilation Slots	These allow excess heat to be removed from the SPRINT PHS while operating. It is recommended that the unit not be covered with any material that will block the dispersion of heat away from the unit. The unit should not reach extreme temperatures.			
Е	Battery Cover	This cover protects an d secures the battery. Remove to replace the battery.			
F	Factory Default Reset Button	To return all the User Defined configurations (such as those specified in the Setup / Help Pages) to their original factory default settings simply turn the unit OFF, open the battery cover and locate a small hole denoted by a triangle, press and hold the Factory Default Reset button using a paper clip or other small tool, and turn the unit ON. After the LEDs have flashed ON then OFF then ON again, release the button. All setting should be reset.			
G	ON / OFF Switch	 OFF The unit is completely OFF when the unit is not connected to external power and the ON / OFF switch is in the OFF position. The unit will charge its own battery and some phone batteries if switched OFF and connected to external power. * No access to the router or the wireless network can be established while the unit is OFF. CAUTION: Using a power supply with a different voltage than the one included with your product will cause damage to the unit and void the warranty. ON If the unit is ON and not connected to a phone or handset, it's Admin and Setup Pages are still accessible by associating with its SSID (Network Name) and entering 192.168.0.1 into the URL bar of a web browser. Note: Login will be required access the Sprint PHS Admin and Setup Pages If the unit is ON and connected to a fully operable data-enabled cell phone or USB modem, a wireless network will be automatically established. Some laptops will automatically associate with the network. In some cases the user will network list. (Details vary by Operating System.) The unit will operate off external power exclusively while connected to an external power source. If there is sufficient excess power available the unit will also charge some phones. This feature varies by phone manufacturer and model. 			
н	External Power Connection	The power connector is a standard jack size and when connected to the proper cable and an external power source will power the SPRINT PHS according to the specifications listed in the ON / OFF switch section of the Controls list.			
I	USB-to-Modem Port	This is a standard USB port that is used to connect either to a USB modern or to a data-enabled cellular phone. Cables for USB to Data connection vary by phone manufacturer and are not provided with the Sprint PHS. Contact your service provider for further information.			



Welcome to the Admin Setup Pages!



To access the Admin and Setup Pages:

Be sure that the Sprint PHS and Phone/Modem are ON. Most USB modems will be powered by the Sprint PHS and may have additional power options. Select the Sprint PHS wireless network from your computer's list of wireless networks.

Once your computer has associated with the Sprint PHS, open your favorite Web Browser and enter http://192.168.0.1 into the URL Address bar. This allows you to acess the Sprint PHS router's web pages.

000				Sprint PHS : Login
∳ • ∳ •	🧝 😢 😭 🗑	http://192.	.168.0.1/	
Gmail - Inbox	Linux commands MA	Bugzilla	GirlGeeks.org - Onli	Configuring and Ad

You will be asked to enter your Password. The default password is set to the last 6 digits of the Sprint PHS MAC Address found on the bottom of your Sprint PHS.

LOGIN		
Log into the	User Name I Ovinter 💌 Password I J Log In	
LOCAL A	TEA CHAT	
Chief with oth	ers associated with this Sprint Portable Hotspot.	

This is



the main screen of the Admin and Setup Pages. From here you can configure your network. It is recommended that you run this wizard when you use your Sprint PHS for the first time. This wizard allows you to personalize your network name (SSID), passwords, security type, connection type, and time zone.

Navigating the Admin and Setup Pages



What you'll find in these pages

BASIC Topics					
Sprint	Together with NEX	TEL			
	BASIC	ADVANCED	TOOLS	STATUS	HELP

Wizard	These wizards are designed to assist you in configuring your wireless network once you have completed the steps found in the Getting On The Internet section of this manual. Use the wizards to name your network, set your new password, and set the security levels for your new SPRINT PHS.	Internet Connection Setup Wizard Internet Security Setup Wizard
WAN	This page is used to set your Internet connection type. For most users, the default settings are appropriate for everyday usage.	Specify DNS Servers Advanced DNS settings MTU Settings Link Drop Delay WAN Port Speed Ping Response Settings MAC Cloning Settings
LAN	Use this page to configure the internal network settings of your SPRINT PHS router. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again. The default settings are appropriate for most everyday users.	Set IP Address Set Subnet Mask RIP Settings Set Router Metric Default Router set Enable/Disable IGMP Enable/Disable DNS Relay
DHCP	This page is used to configure the built in DHCP Server to assign IP Addresses to the computers on your network.	Enable/Disable DHCP Server Specify DHCP IP Address Range Specify Lease Time Enable DHCP Broadcast View DHCP Clients Add DHCP Reservation View Reservations List
Wireless	This page is used to configure your basic wireless settings for you SPRINT PHS. From here you can set your visibility of your network to others, your wireless network name, and security type. Some of these features may have already been set by you if you used the Setup wizards on the main screen of the Help and Setup Pages.	Enable/Disable Wireless Radio Set SSID Set Network Visibility Auto/Manual Channel Select Set Transmission Rate Set 802.11 Mode

ADVANCED Topics

Sprint y Together with NEXTEL		
BASIC ADVAN	ICED TOOLS ST	ATUS HELP
Virtual Server	single public port on your router for redirection to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online services such as FTP or Web Servers.	Add Virtual Server View Virtual Servers List
Special Applications	The Special Applications option is used to open single or multiple ports on your router when the router senses data sent to the Internet on a "trigger" port or port range. Special Applications rules apply to all computers on your internal network.	Application Level Gateway (ALG) Configuration Add Special Applications Rule View Spec Applications Rules List
Routing	The Routing option allows you to apply fixed routes to defined destinations.	Add Route View Added Routes List View Existing Routes List
Access Control	The Access Control option allows you to control access in and out if your network. Use this feature as Access Controls to only grant access to approved sites, limit web access based on time or dates, and/or block network access for certain applications. This page includes a wizard to assist you in adding new policies.	Enable/Disable Access Control Policy Wizard View Existing Policies
Web Filter	The Web Filter option allows you to set up a list of allowed Websites that can be used by multiple users. When the Web Filter is enabled, all other Websites not listed on this page will be bloked. To use this feature, you must also select the "Apply Web Filter" checkbox in the Access Control Section.	Add Website(s) View allowed Websites

MAC Address Filter	The MAC Address (Media Access Controller) filter option is used to control network access based on the MAC Address of the network adapter. This feature can be used to ALLOW	Enable MAC Address Filter Filter Setting (Allow/Deny clients) Add MAC Address View Filters	
Firewall	The DMZ (Demilitarized Zone) option provides you with an option to set a single computer on your network outside of the SPRINT PHS router. If you have a computer that cannot run Internet applications successfully from behind the router, then you can place the computer into the DMZ for unrestricted internet access. This option is recommened to be a last resort as it tends to leave the DMZ computer at a security risk.	Enable DMZ Set the DMZ IP Address	
Inbound Filter	The Inbound Filter option is an advanced method of controlling data received from the Internet. With this feature you can configure inbound data filtering rules that control data based on an IP address range. You can use this to limit accress to a server on your network to a system(s).	Add Inbound Filter Rule View Added Inbound Filter RRules	
Advanced Wireless	These are more advanced settings for your wireless network. If you are unfamiliar with the settings it is recommended that you read the help section on this subtopic before changing any of the presets.	Fragmentation Threshold RTS Threshold Beacon Period DTIM Interval Enable 802.11d Transmit Power WDS Enable (Add WDS AP MAC Address)	
Schedules	The Schedules Rules feature is used to manage parental controls and firewall rules according to a schedule you define.	Add Schedule Rule View Added Schedule Rules	

TOOLS Topics

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BASIC ADVA	NCED	TOOLS	STA	ATUS	HELP
Admin	The admin op access to the there is not Ac you are familia	tion is used to set a passw Web-based management. dmin password (the defaul ar with by now is the User	ord for By default t password password).	Set Admin Fasswor Administration and Enable / Disable U Save and Restore	d d JRemote Settings JPnP Configuration
Time	The Time con configure, upo interval syster the time zone (Network Time can also be co time when new	figuration option allows you late, and maintain the corr n clock. From this section that you are in and set the e Protocol) Server. Daylig onfigured to automatically a eded.	u to ect time n the you can set NTP ht Savings adjust the	Time zone and Da Enable / Disable a Set the date and t Allows for you to o time settings.	aylight savings settings Ind set NTP Server ime manually popy your computer's current
Syslog	This option all network. You Server.	lows you to log information can send this information	about your to a Syslog	Enable / Disable S Set Syslog Server	Syslog Server IP Address
Email	The Email opt information to instead of to a what intervals information ab	tion can be used to send yo your e-mail account along a Syslog Server. You can a you would like to receive to bout your network.	our Syslog g with or Iso select at his	Enable / Disable E Set Email Settings Set Email Notifica	E-mail Notification
System	The System p PHS router to using the harc your SPRINT Factory Settin changes.	age allows you to reboot y the factory default setting: tware Reset button found on PHS. Remember, restoring gs will erase all of your co	our SPRINT s without on the front of g the Default nfigured	Reboot the Device Restore all Setting	9 js to the Factory Defaults

Firmware	The Firmware page allows you to check for and install the latest version of your SPRINT PHS software. Upgrades improve the functionality and performance of the SPRINT PHS. You can set the SPRINT PHS to notify you by E-Mail when a newer version of the software is available.	Firmware information and latest version check Download Firmware Upgrade section Set Firmware Upgrade notification options
Dynamic DNS	The DDNS feature allows you to host a server (Web, FTP, etc) using a domain name that you have purchased (www.yourchoiceofname.com) with your dynamically assigned IP Address. Most Broadband Internet Service Providers assign dynamic (changing) IP Addresses. Using a DDNS service provider, your friends can enter your host name to connect to you server no matter what your IP address is.	Enable / Disable DNS Dynamic DNS Settings

STATUS Topics

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BASIC ADVA	NCED TOOLS S	TATUS HELP
Device Info	All of you Internet and network connection details are displayed on this page. The firmware version is also displayed here.	View Time and Firmware Version View WAN Settings View LAN Settings View Wireless LAN Settings View LAN Computers
Wireless	Use this option to view the wireless clients that are connected to your network.	View Number of Wireless Clients View Trusted Clients
Routing	This page displays the routing details configured for your SPRINT PHS.	View Routing Settings
Logs	This page allows you to view the Syslog information about your SPRINT PHS. You can define what types of events you want to view and te event levels to view.	Set Syslog Options View / Edit Syslog Details
Statistics	View all your network's Traffic Statistics from this page. Traffic Statistics display Receive and Transmit packets passing though your SPRINT PHS router.	LAN Statistics WAN Statistics Wireless Statistics
Active Sessions	This page displays the full details of the actives sessions to you r SPRINT PHS router.	View Active Sessions

HELP Topics

Sprint 🎾 Together	with NEXTEL				
BASIC	ADVANCED	TOOLS	STATUS	HELP	

Subtopics

Each of the sections on the Help Topics page contain a hyperlink for quick and easy location of the subtopics you would like to view and/or edit. Simply click the topic page in the side navigation bar or click the subtopics in each section of the page you would like to jump to.

Hyperlinks to each main and subtopic of the Help and Setup Pages.

GLOSSARY Pages

BASIC	ADVANCED	TOOLS	STATUS	HELP
	The glossary provides you with understanding of the SPRINT P	definitions to aide your HS functionality.	Hyperlinks by letter to jump sections of the page.	o to lexigraphically ordered
begin, select	Launch Internet Connecti	on Setup Wizard	on the main screen o	of the Help Pages.
	Sp	print 🎾 Together with NEXTER		
Select Next 1	to go to	WELCOME TO THE SP This witand will guide you connect to the Internet . . Step 1: Set your Pass . Step 2: Select Corne . Step 4: Summary, Sa	RINT SETUP WIZARD through a step-by-step process to configu word and Time Zone ction Type authy and Name your Network we Settings, and Connect	re your new Sprint router and
You can sele anytime to re	ect Cancel at		Next Cancel	n

When setting your password, it is more secure to use a combination of letters and numbers and something______ that is easy for you to remember.

Select the arrow on the pull down menu to show all available time zones and chose the zone which applies to your area.





Allow a few moments for the Sprint PHS to complete its reboot cycle.

You will be asked to enter your new password to login.



Your Basic Internet settings have now been configured!

After your changes have been saved, log into the Sprint PHS using your new password.

When you login you will be asked to enter you password according to your new security settings. If at anytime you cannot remember your password you can reset the SPRINT PHS to it's factory default settings.

Factory Default Reset

The Factory Default reset will clear all your saved setting on the Sprint PHS. The user name and password will revert back to the original "SPRINTPHS-xxx" SSID and use the last 6 digits of the MAC Address for the password.

- To use the factory default reset, simply:
- 1. Turn the SPRINT PHS OFF
- 2. Remove the battery cover and locate a small hole,

indicated by a triangle, next to the battery.

- 3. Press and hold the Reset button while you turn the unit back ON.
- (A paperclip end or other small tool will do.)
- 4. Release the button after you see the LEDs flash ON, OFF, then ON again.

All your settings will return to the factory presets as the SPRINT PHS reboots.

Tips and Troubleshooting

The Error Pages

DATA SERVICE UNAVAILABLE

This page is designed to recognize if your cellular phone is not enabled with a tethered data plan required to operate as a modem. If you get this page, you may need to contact your cellular service company for details. The data



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plan required is often a separate package with your service and will need to be set up by your cellular service provider.



HANDSET ERROR	٤	/
Your handset is unable	to communicate with your service provider.	
This can be caused by a	a poor signal or the lack of a proper service plan.	
For more help on this s	ubject please select Sprint PHS Help section.	
Change your login and	security settings by selecting Sprint PHS Setup section.	
DHONE STATUS		
PHONE STATUS	Ostro Lancible	
PHONE STATUS Battery Status: Battery Level:	Status Unavailable Status Unavailable	

HANDSET ERROR

If your phone has a bad signal, no service plan, a bad connection port, a low battery, is OFF, or malfunctioning in some way, you may get this page.

Try turning your phone OFF, then back ON or contact your service provider for technical assistance.



Federal Communication Commission Interference Statement

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 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.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.