

Release Notes for Cisco Small Business WRP400 Firmware Version 2.00.05

February 2009

These Release Notes describe the new features and enhancements in the Cisco Small Business WRP400 firmware version 2.00.05.

Contents

This document includes the following topics:

- **Changes Since Firmware Version 1.01.00**
- **Related Information**

Changes Since Firmware Version 1.01.00

- Upgraded the voice module to version 1.0.12(20090220a)
- Added one-click software reboot capability on the web-based configuration utility under Administration > Reboot.
- Added support for USB Broadband Modems.

You can install a compatible Mobile Broadband USB Modem into the USB port of the WRP400 for the purpose of accessing a mobile network. The following USB modems are compatible with the WRP400:

Make	Model	Technology	Service Provider*
Novatel	U720	EVDO Rev 0/A	Sprint/Verizon
Novatel	U727	EVDO Rev 0/A	Sprint/Verizon
Huawei	E172	HSDPA	AT&T/Vodafone
Huawei	E220	HSDPA	AT&T/Vodafone
Huawei	E270	HSDPA	AT&T/Vodafone
Huawei	E272	HSDPA	AT&T/Vodafone
Sierra Wireless	AC595U	EVDO Rev 0/A	Sprint/Verizon
Sierra Wireless	597U Compass	EVDO Rev 0/A	Sprint
Sierra Wireless	875U	HSDPA	AT&T
Sierra Wireless	880U	HSDPA	AT&T
Sierra Wireless	881U	HSDPA	AT&T

- Added support for Ethernet connection recovery for the mobile network.

This feature ensures that your Ethernet Internet connection is always connected when available. When this option is enabled, the Router will set Ethernet interface to the highest priority. Enabling this feature also enables the Interface Connection Failover. Whenever the Internet connection fails, the router will automatically attempt to bring up the mobile network

connection on the USB interface (if available). Whenever the Ethernet Internet connection recovers, the router will automatically attempt to bring back and recover the Ethernet Internet connection. Please note that your Mobile Connection Mode must be set to Auto to use this feature.

- Added support for Interface Connection Failover for the mobile network.

Failover detection works by detecting the physical connection and/or presence of traffic on the Internet link. If the link is idle for some time, the router will attempt to ping a destination. If the ping does not reply, the router assumes the link is down and attempts to fail over to another interface.



NOTE

IMPORTANT:

- If you install version 2.00.05 and later want to downgrade to version 1.0, a two-step procedure will be required. You must first downgrade to version 1.01.00, which converts the existing WRP400 configuration. The configuration will then be reloaded after installing version 1.0 on the WRP400.
- If the Cisco WRP400 is configured to use a mobile broadband USB modem along with a voice service from an Internet telephony service provider, the WRP400 can send and receive voice traffic over the mobile broadband network. However, because a voice service is more sensitive to latency and network congestion compared to data services, your voice quality over the mobile network cannot be guaranteed.

New Provisioning Parameters

The following section describes the new parameters that are now available for provisioning.



NOTE

A sample XML profile can be generated by using the profile compiler tool (SPC). For instructions about provisioning, see the *SPA Provisioning Guide* (available to partners through Cisco Partner Central).

Feature/XML Tag	Parameters	Examples
<MOBILE_PROFILE>	<p>mobile_config_mode: Mobile configuration mode; enter 0 for Manual or 1 for Auto</p> <p>card_model: Card model, which must be entered if the mobile configuration mode is Manual; identify the card model format by entering one of the following choices:</p> <ul style="list-style-type: none"> ▪ Huawei E220/E270/E272/E172I ▪ Novatel U720 ▪ Novatel U727 ▪ Sierra AirCard 595U ▪ Sierra Compass 597U ▪ Sierra AirCard 875U ▪ Sierra AirCard 881U ▪ Sierra AirCard 880U <p>mobile_apnname: APN name, which must be entered if the mobile configuration mode is Manual; enter up to 32 ASCII characters</p> <p>mobile_username: User name, which must be entered if the mobile configuration mode is Manual; enter up to 32 ASCII characters</p> <p>mobile_passwd: Password, which must be entered if the mobile configuration mode is Manual; enter up to 32 ASCII characters</p> <p>mobile_dialnum: Dial number, which must be entered if the mobile configuration mode is Manual; enter up to 16 ASCII characters</p> <p>mobile_pincode: PIN code; enter up to 8 ASCII characters</p> <p>mobile_papchap: Authentication method; enter one of the following choices: pap, chap, or auto</p>	<p>To configure Manual configuration mode with a Huawei USB device, to specify the account settings and to enable automatic authentication:</p> <pre><MOBILE_PROFILE>mobile_config_mode=0, card_model=Huawei E220/E270/E272/E172, mobile_apnname=internet,mobile_username=web, mobile_passwd=123,mobile_dialnum=*99#, mobile_pincode=0000,mobile_papchap=auto </MOBILE_PROFILE></pre>

Feature/XML Tag	Parameters	Examples
<MOBILE_NETWORK>	<p>mobile_automode: Auto connection mode; enter 0 for Manual or 1 for Auto.</p> <p>mobile_demand: Connect on Demand; enter 0 to disable or 1 to enable.</p> <p>mobile_idletime: Idle time for connect on demand; enter the number of seconds, from 1 to 1440</p>	<p>To configure the mobile network in auto connection mode, with Connect on Demand enabled and Idle Time set to 20 seconds:</p> <pre><MOBILE_NETWORK>mobile_automode=1, mobile_demand=1,mobile_idletime=20 </MOBILE_NETWORK></pre>
<WL_BASIC_SET_1>	<p>wl_net_mode: Network Mode; mixed, b-only, g-only</p> <p>wl_radio: Network Enabled; 0(disabled) or 1(enabled)</p> <p>wl_closed: SSID broadcast status; 1 (disabled) or 0(enabled)</p> <p>wl_ssid: Wireless network name; enter 1 to 32 ASCII characters (backslash character not allowed)</p>	<p>To enable the network with SSID aaabbb in g-only mode with broadcast status set to enabled:</p> <pre><WL_BASIC_SET_1>wl_net_mode=g-only, wl_radio=1,wl_closed=0,wl_ssid=aaabbb</WL_BASIC_SET_1></pre> <p>To enable the network with SSID aaabbb in b-only mode:</p> <pre><WL_BASIC_SET_1>wl_net_mode=b-only,wl_ssid=aaabbb</WL_BASIC_SET_1></pre> <p>To disable the wireless network:</p> <pre><WL_BASIC_SET_1>wl_radio=0 </WL_BASIC_SET_1></pre>
<WL_BASIC_SET_2>	<p>Wl1_radio: Network Enabled; 0(disabled) or 1(enabled)</p> <p>NOTE: Enable SSID-2 only when SSID-1 is also enabled.</p> <p>Wl1_closed: SSID broadcast status; 1 (disabled) or 0(enabled)</p> <p>Wl1_ssid: Wireless network name; enter 1 to 32 ASCII characters (backslash character not allowed)</p> <p>ap_isolation: For Internet Access Only (Guest Network); 1 (disabled) or 0 (enabled)</p> <p>ctrl_ssid2: Allows Service Provider to lock SSID2; when enabled, user will not be able to configure</p> <p>SSID2 from the device GUI: 1 (enabled) or 0 (disabled)</p>	<p>To enable SSID-2 network and set SSID to aaabbb and enable Internet Access only with broadcast status set to enabled:</p> <pre><WL_BASIC_SET_2> wl1_radio=1,wl1_closed=0,wl1_ssid=aaabbb,ap_isolation=1</WL_BASIC_SET_2></pre> <p>To disable SSID-2:</p> <pre><WL_BASIC_SET_2>wl1_radio=0</WL_BASIC_SET_2></pre> <p>To enable Internet Access only for SSID2:</p> <pre><WL_BASIC_SET_2>ap_isolation=1</WL_BASIC_SET_2></pre> <p>To set SSID-2 to read-only:</p> <pre><WL_BASIC_SET_2>ctrl_ssid2=0</WL_BASIC_SET_2></pre>
<ROUTER_SYSLOG>	<p>96 = console display</p> <p>97 = system log</p> <p>98 = console display and system log</p>	<p>To send the syslog to the console display:</p> <pre><ROUTER_SYSLOG>log_provision=96 </ROUTER_SYSLOG></pre>

Feature/XML Tag	Parameters	Examples
<WAN_TYPE>	wan_proto: Internet Connection Type; dhcp, static, pppoe, pptp, l2tp, heartbeat	To enable DHCP: <WAN_TYPE>wan_proto=dhcp</WAN_TYPE> To enable STATIC IP: <WAN_TYPE>wan_proto=static</WAN_TYPE>
<WAN_DEMAND>	demand: Demand Type; 1 (Connect on Demand) or 0 (Keep Alive) idletime: Maximum idle time in minutes; numerals from 1 to 9999	To enable Connect on Demand and set maximum idle time to 666 minutes: demand=1,idletime=666</WAN_DEMAND> To enable Keep Alive: <WAN_DEMAND>demand=0</WAN_DEMAND>

Upgrading the Firmware for the WRP400

STEP 1 To obtain current firmware for Cisco Small Business products, visit the following URL:

www.cisco.com/en/US/products/ps10028/index.html

STEP 2 Start Internet Explorer, and connect to the web-based utility for the router.



NOTE The default IP address is **192.168.15.1**. When prompted, enter the user name and password. The factory default user name and password are **admin**.

STEP 3 During a firmware upgrade, the router may lose the settings that you have customized. To back up your configuration, complete the following steps:

- a. Click **Administration > Config Management**.
- b. Click **Backup** to back up the configuration. Follow the on-screen instructions.

STEP 3 Click **Administration > Firmware Upgrade**.



NOTE The service provider may require a separate login before a firmware upgrade. If you see the *Username & Password* screen, enter the user name and password provided by your service provider. The factory default user name and password are **admin**. After you enter the user name and password, click **OK**.

STEP 4 Click **Browse**, and then select the extracted firmware upgrade file.

STEP 5 Click **Start to Upgrade**. Follow the on-screen instructions.

Related Information

Resource	Location
WRP400 User Guide and Quick Start Guide	www.cisco.com/en/US/products/ps10024/tsd_products_support_series_home.html
WRP400 Product Literature, FAQ, USB Modem Compatibility List, and Firmware Downloads	www.cisco.com/en/US/products/ps10028/index.html
Customer Support	www.cisco.com/en/US/support/tsd_cisco_small_business_support_center_contacts.html
Warranty and End User License Agreement	www.cisco.com/go/warranty
Open Source License Notices	www.cisco.com/go/osln
Cisco Partner Central site for Small Business	www.cisco.com/web/partners/sell/smb

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OL-19153-01