



Release Notes for CradlePoint MBR Rev 1.2 Firmware

Products supported/tested:

Mobile Broadband Router (MBR1000)

Modems/handsets tested (devices added since 1.1 in blue):

USB modems:

Franklin CDU-550/Sprint

Franklin CDU-680/Sprint

Novatel U720/Sprint and Verizon

Novatel U727/Sprint [and Verizon \(GPS – Sprint only\)](#)

Pantech UM150/Verizon [and Alltel](#)

Sierra Wireless 595U USB/Sprint and Verizon ([GPS – Sprint only](#))

[Sierra Wireless Compass 597 USB/Sprint](#)

[Sierra Wireless 875U USB/AT&T](#)

Sierra Wireless 881U USB/AT&T

ExpressCard modems:

Kyocera KPC-680/Sprint and Verizon

[Novatel EX720/Sprint](#)

Novatel V740/Verizon

Option GT Max 3.6 Express/AT&T

Sierra Wireless 597E/Sprint

Handsets:

[HTC Touch/Sprint](#)

[HTC Mogul PPC-6800/Sprint \(see usage note under RNDIS below\)](#)

[HTC Apache PPC-6700/Sprint](#)

LG VX8000 and VX8300/Verizon

LG VX7200/Verizon

LG Musiq/Sprint

LG Fusic LX-500/Sprint
Motorola v3c RAZR/Sprint and Verizon
Motorola RAZR2/Sprint
Motorola Q and Q9c/Sprint
Motorola RAZR v3xx/AT&T
Motorola Q v9h/AT&T
[Motorola KRZR/Sprint](#)
Palm 700w/Sprint
Palm 700p/Verizon
Palm 755p/Sprint
[Palm Centro/Sprint](#)
RIM BlackBerry 8703e/Sprint and Verizon
RIM BlackBerry 8830/Sprint [and Verizon](#)
[RIM BlackBerry Pearl 8130/Sprint and Verizon](#)
Samsung A900/A900M/A920/Sprint
Samsung SGH-A707/AT&T
Samsung Blackjack/AT&T
Samsung i830/Sprint
Sanyo M1/Sprint
[Sanyo SCP-6600 \(Katana\)/Sprint](#)
Sanyo Katana 2/Sprint
[Sanyo SCP-8400/Sprint](#)

New Features added in this release:

- RNDIS (Remote NDIS) support added. This allows connections to non-PPP phones like the HTC Mogul. When using these phones, the phone acts like a network connection, not a PPP connection. [The phone connection will not show up under Status -> Modem Info page or the Advanced -> Failover page, instead it will show up as a WAN connection under Status -> Device Info.](#)
 - Note: Connect the cable and verify that it is charging the Windows Mobile device using the include Power Management Application. This is because RNDIS may drain a charged battery within an hour.
 - Mogul (PPC-6800) specific notes:
 - By default, both the Mogul and router come up with an IP address of 192.168.0.1. You will need to change one or the other to a different subnet (such as 192.168.10.1). This change is easy to make at the router under the Basic -> LAN settings. To ready the Mogul do not plug it into the router yet. On the Mogul's UI, go to Start -> Programs -> Internet Sharing. Select Connect and the Mogul will request you plug in the USB cable. Then plug it into the router. After a

short wait, the Mogul should change to “Connected” and the USB light on the router should turn on.

- For the Mogul, current firmware 2.17.651, 2.09.651.3, and 3.35.651.2 are the only supported versions. Beta/Prereleased/Modified firmware is untested and unsupported. Older Mogul firmware has an issue when disconnecting it from the router, the handset will stay “Connected” on its status page until the handset has been rebooted. This is fixed in the 3.35.651.2 firmware.
- One-Button Firmware Update. When a firmware update is available, this allows the user to upload the firmware to the router without having to save the firmware on his/her PC first and then reload it onto the router.
- Improved GSM support. The Status -> Modem Info page now shows the available profiles as provided by the phone/modem. If the user has a preference on the profile that is used to connect (or if the phone/modem does not connect automatically), the user can force a specific profile to be used with the Advanced -> Modem Settings -> AT Dial Script box. To pick profile 1, use ATDT*99***1#, profile 2 is ATDT*99***2#, etc.
- GPS support for the Sierra Wireless 595U and Novatel U727 only. New web page added under Tools -> GPS. Three map providers allowed (Google maps, Yahoo Maps, MapQuest) with automatic updates. Can set the update method (Automatic/Manual) and update interval (among several choices). GPS coordinates can also be queried from network port 8889 at a 1-second interval. Any Virtual Serial Port program should support it. We use “HW Virtual Serial Port” (www.hw-group.com).

Additional UI/usability changes:

- SNGL button functionality has changed. Holding the button at boot time does not activate signal strength mode any more, now the button can be held for 5 seconds at any time to enable signal strength mode. The signal strength mode selection LED (next to the SGNL button) will be on when in signal strength mode. If the active modem does not support simultaneous data operations and signal monitoring, the data connection will be terminated. Otherwise, the data operations will continue. The 4 multi-function LEDs (WPS, WLAN, MODEM, SGNL) will operate in signal strength mode. Pressing the SGNL button again will re-enter normal operating mode.
 - The 4 LEDs will show 8 signal strength levels. If an LED is blinking, it means the signal strength is at the next level. For example, two lit and one blinking LED means the signal strength being reported is 5/8th of the maximum level.
- Reset button does not perform a reboot function any more, it factory resets back to the unit's default configuration. If the reset button is held as the power is applied, it will factory reset the unit. Also, if the reset button is held for 10 seconds while the router is running it will factory reset the unit.
- Tools -> Firmware -> Firmware Information. Previously, the “Check Online” button would only show a new version if the Major and Minor (X.X) version numbers had changed. Now the “Check Online” will show a new version if the Major, Minor, or Patch (X.X.X) version numbers have changed.
- The router will not send a BlackBerry password if only one retry is left. This prevents accidentally bricking the BlackBerry if the password was entered incorrectly in the router UI.
- Added (Tools -> Admin -> Administration -> Enable Bounce Pages) setting to allow users to

disable bounce pages.

- MAC Address filtering (Advanced -> Mac Address Filter). Added a button to allow users to filter Wired LAN clients as well as Wireless LAN clients. Disabled by default.

Defects fixed:

- PPP Username and Password would not save after hitting "Save Settings"
- DNS did not work correctly when DNS relay was disabled

Known issues:

- GPS and Mapquest. When using Mapquest, the default zoom is out too far to be really useful. While you can zoom in, if you use auto-refresh the loaded page will be zoomed out again. Workaround is to either use one of the other map sites, or do not use auto-refresh with Mapquest.
- GPS, Internet Explorer 7.0, and Yahoo maps. When using IE 7.0 and Yahoo maps, the position on the map would not refresh. The Latitude and Longitude change on the address bar, so this is likely an IE 7.0 issue.
- GPS, Safari 3.04, and Windows Vista. Safari and Windows Vista would not load any of the map sites. Safari worked fine on an Apple Mac.
- Wi-Fi Protected Setup (WPS). If you are using WPS to enable security from an insecure wireless network (Basic -> Wireless -> Security Mode = None), a WPS-aware client will not be able to attach to the wireless network. If you use WPS from a secure wireless network, a WPS-aware client will attach correctly. If you reboot the router after using WPS to configure wireless security, a WPS-aware client will attach correctly.
- An RNDIS phone does not currently work correctly with Failover. If an RNDIS phone is being used as a WAN connection and a second PPP phone or modem is attached, the WAN connection will switch to the PPP phone or modem.