



Release Notes for CradlePoint rev 2.2 Firmware

Products supported/tested:

Cradlepoint Travel Router (CTR350)

Personal Hotspot (PHS300)

Phone modems/handsets tested (devices added since 2.1 in blue):

USB Modems

Franklin CDU-550/Sprint

Franklin CDU-680/Sprint and nTelos (GPS - see [Known Issues](#))

[Huawei E220/AT&T](#)

[Novatel MC950D/AT&T and Rogers](#)

Novatel U720/Sprint and Verizon (GPS – Sprint only)

Novatel U727/Sprint and Verizon (GPS – Sprint only)

Pantech UM150/Verizon and Alltel

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

[Sierra Wireless Compass 597U/Sprint \(GPS\)](#)

Sierra Wireless 875U USB/AT&T

[Sierra Wireless 880U/AT&T](#)

Sierra Wireless 881U USB/AT&T

[Sierra Wireless Compass 885U USB/AT&T](#)

ExpressCard Modems (Requires an ExpressCard-to-USB adaptor)

Kyocera KPC680/Sprint and Verizon

[Novatel EX720/Sprint \(GPS\)](#)

Novatel V740/Verizon

[Novatel X950D/Rogers](#)

Option GT Max 3.6 Express/AT&T*

[Option GT Ultra Express/AT&T*](#)

Note: Requires an ExpressCard-to-USB adaptor that provides 1.2V

Sierra Wireless 597E/Sprint [and Telus \(GPS - Sprint only\)](#)

[Sierra Wireless 880E/AT&T](#)

Handsets

[HP iPaq 910/AT&T](#)

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 [and Verizon](#)

Palm 700p/Verizon

Palm 755p/Sprint

Palm Centro/Sprint *

* [Note: Use of the Palm Centro requires Router Rev. 1.1 hardware or use of an external hub.](#)

[RIM BlackBerry Curve 8330/Sprint](#)

RIM BlackBerry 8703e/Sprint and Verizon

RIM BlackBerry 8830/Sprint and Verizon

RIM BlackBerry Pearl 8130/Sprint and Verizon

[Samsung ACE/Sprint](#)

Samsung A900/A900M/A920/Sprint

Samsung SCH-i830/Sprint

Samsung SGH-A707/AT&T

Samsung Blackjack (SGH-i607)/AT&T

[Samsung SPH-m520/Sprint](#)

Sanyo M1/Sprint

Sanyo SCP-6600 (Katana)/Sprint

Sanyo Katana 2/Sprint

Sanyo SCP-8400/Sprint

New features added in this release:

- RNDIS modems added to failover.
- Automatic Configuration Saving. When uploading new firmware versions, the router attempts to save off any configuration changes the user has made and then adds those settings to the new firmware's configuration. For safety, it is recommended that you save a copy of your modified configuration to a host PC just in case this does not work correctly for your specific configuration.
- GPS. Added GPS support for a number of additional USB modems. GPS now works with Google Earth Plus, Microsoft Streets and Maps, and Delorme Street Atlas Plus. At customer request, GPS may be enabled on the WAN interface (previously, it was only enabled on the LAN/WLAN ports). If enabled, someone who knows the IP address of the router and the GPS port can track the movement of the router. Only one connection (up or down) can occur at a time.
- Support for PIN Secured SIM cards. We added PIN support for SIM cards under Advanced -> Modem Settings. The user can store a PIN for his modem along with the password. If the router detects that the attached modem's SIM card requires a PIN, it will use the entered PIN. If the router detects that an attached modem requires a PIN entry and no PIN is entered, a bounce page will be provided to allow the user to enter a PIN without having to go through the Admin pages.

Additional UI/usability changes:

- Disabled Advanced -> Traffic Shaping -> Automatic Uplink Speed measurement as a default setting. If Enabled, Uplink Rate Estimation should not cause a modem to lose its connection, which used to happen in some cases.
- Added APN (Access Point Name) entry under Basic -> WAN. This can be used if your cellular provider requires an APN that isn't associated with one of the profiles on the SIM or modem.
- Added Cellular Signal Strength bars (4 bars maximum) to Status -> Device Info page to quickly show the signal strength for phones and modems that support diagnostics without disabling the data connection.
- At customer request, added direct RSSI reading to Status -> Modem Info page. This page will now show Signal Strength as a % and as dBm (negative values). 100% = -74 dBm
- Status -> Wireless (Wi-Fi) page has been modified to allow easier management of associated wireless clients.

Minor changes:

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Defects fixed:

- GPS now works with Google Earth, MS Streets and Maps, and Delorme Street Atlas Plus.
- Uplink Rate Estimation should not cause a modem to lose its connection, which occurred with some modems before.
- Improved handling of carrier disconnects if modem is idle. For example, AT&T would disconnect a modem after 1.5 hours of no traffic. Our routers didn't always recover from that state correctly.
- Basic -> WAN -> Reconnect Mode "On Demand" working again. It correlates with the modem idle disconnect/reconnect defect above.

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.
- Franklin CDU-680 and GPS. If the modem is plugged into the router and a data connection is made, the modem may not provide an initial GPS position fix. If a data connection is not made, then the modem can get its initial GPS fix. After that, it can provide both GPS position and a data connection. A simple way to accomplish this is to go to the router's Status -> Device Info page and press the "Disconnect" button. Then go to Tools -> GPS and get a position. Then go back to the Status -> Device Info page and press "Connect". You should continue to get GPS updates.
- Option GT and Ultra modem support. These modems can take up to 2.5 minutes to make a data connection. In our tests, they appear to spend a long time attempting to get a signal before they can make a data connection. The Ultra seems to connect more quickly in our tests.