



PS4000 Summary of Firmware Changes

This document summarizes the following PS4000 firmware releases:

Firmware Release Number	Release Date	See Page
<i>10n</i>	13 July 2007	page 1
<i>04u17-4</i>	26 February 2007	page 3
<i>04u</i>	04 August 2006	page 3

10n

Release Date: 13 July 2007

This firmware release includes all features of previous base version *04u17-4* (see page 3). It is for use with PS4000 Mobile PrintServer (PS4-XXXXXXXX-XX).

Changes

- (EAP-TLS): Added logic to prevent repeated PAP challenge responses
- (EAP-TLS): Update to work with SBR server. The SBR was suggesting TTLS for inner authentication, this is now NAK'd. The update will now NAK all inner requests besides MSCHAPv2
- (Avalanche): Changes made to _devprop.prf file e.const part. for each property starts on the new line.
- (Avalanche): Support saving GUID into non volatile memory
- (PrintSpooler): Version 1.01 -- Added print_server.print_ip command. (no dots in IP label)
- (PrintSpooler): Version 1.02 -- Changed the battery icon to indicate charging
- POP3 enhancements to handle out-of-paper and HTML text-encoding (don't print it)
- Added support for turning on the option for sending an IP packet when roaming
- Changed TCP socket behavior so a duplication connection does not immediately disconnect the previous connection. It will only happen after 30 seconds
- (WPA): Symbol radio now uses 16-bit writes when writing the MIC
- WPA2 Broadcast key rotation for both AES and TKIP
- Added support for WPA Set/Get/Do commands:
 - wlan.wpa.wpa_version
 - wlan.wpa.groupkey_ciphersuite
 - wlan.wpa.pairwise_ciphersuite
- Changed the interrupt priority of the Bluetooth port.

- Added new getvars:
 - ! U1 getvar “print_server.battery.average_voltage”
 - ! U1 getvar “print_server.battery.number_charges”
 - ! U1 getvar “print_server.battery.bat_led”
 - ! U1 getvar “print_server.battery.charger_error_flag”
 - ! U1 getvar “print_server.battery.avg_voltage_stop_charge”
 - ! U1 getvar “print_server.battery.avg_voltage_start_charge”
 - ! U1 getvar “print_server.battery.max_voltage”
 - ! U1 getvar “print_server.battery.remaining_life”
 - ! U1 getvar “print_server.battery.min_voltage”
 - ! U1 getvar “print_server.battery.serial_number”
 - ! U1 getvar “print_server.battery.error_led”
 - ! U1 getvar “print_server.battery.error_led”
 - ! U1 getvar “print_server.battery.pic_softw_ver”

For more information on these getvar please see the programmers manual.

- Scheduled periodic call to retrieve smart battery status.
- Added handling of battery authentication failure, poor battery health, and reconditioning request.
- Added items pertaining to smart battery to "power" branch.
- get_gas_gauge_percent now returns RelativeStateOfCharge for the smart battery

Issues Corrected

- Fixed clearing of the antenna icon
- (Avalanche): Fixed buffer overflow that will prevent unit from resetting
- (Avalanche): Corrected UDP malformed packets

04u17-4

Release Date: 26 February 2007

This firmware release includes all features of previous base version [04u](#) (see page 3). It is for use with PS4000 Mobile PrintServer (PS4-XXXXXXXX-XX).

Changes

- Updated G radio firmware (5.2.11)
- WPA2 with TKIP encryption support added.
- Added ability to authenticate to the server with anonymous (PEAP)
- Improved PowerSave and Roaming with the G radio
- Added function to select strongest Unicast cipher for WPA2 if AP has more than one Unicast cipher enabled
- Changed roaming scan behavior for G radio so only one channel is scanned per 100ms interval. This allows the radio to be more responsive to normal traffic while in a roaming state
- G radio: Added user configurable parameter for roam signal and interval
- PrintSpooler: Changed so print spooler queues are halted by default until after the print spooler has been initialized. This keeps getchar from calling into the print spooler before it is ready.

Issues Corrected

- Corrected network source address usage with FTP and VPN

04u

Release Date: 04 August 2006

This firmware release is for use with PS4000 Mobile PrintServer (PS4-XXXXXXXX-XX).

This is the original release of this firmware.