About the firmware version 2.30 update

Last Modified: November 19th, 2015

Summary

This release of the hPDU firmware completes bridge mode by including **SNMP in bridge mode**, and introduces **colocation mode**. It also fixes some issues, and is advised for all users of the hybrid range of PDUs and DPM3.

Important warning!

If running a version lower than 2.06, make sure you update to 2.06 before updating to 2.30. The hPDU firmware might get locked at version 2.02 if you don't update to 2.06 first! The supplied firmware updater tools will prevent this. Important note: when upgrading from a version lower than 2.10, this update adds the 'static fallback' feature to DHCP which is enabled by default. If you don't have a DHCP server running in your environment, all your updated hPDUs will fall back to default IP address *192.168.1.220* after 60 seconds (counting from reboot or Ethernet cable plug-in). Setting a different network configuration (e.g. disabling DHCP or static fallback) is possible through the new web interface.

What's included in 2.30 (changes since 2.20)?

Changes for bridge mode
- Bridged unit list: firmware stores up to 254 connected data bus units after a scan, and preserves them between restarts. Removed automatic data bus scan on restart for this reason.
- SNMP: ability to read/write to bridged units, or walk over them, via a new OID subtree
- SNMP: traps can be sent for bridged units in alert state

Changes affecting DPM3 only
- CT ratio for each input can be set through the web interface
- CT ratio is shown on *INPUT* LCD screen (if other value than 1 is used)
- Optimized LCD screen layout to match DPM3 enclosure

Web interface changes
- Reviewed permissions of web interface users, to make it fit better in colocation setups
- Input fields which the user can't change will show as plain text
- VA and W added to outlets table
- Improved readability of tables
- Fixed issue in web interface which could cause multiple input subtotals to be resetted when clicking a subtotal reset button for a single input
- Fixed HTTP port input field: now accepts values greater than 999
- Fixed automatic updating of some input fields/select boxes

Other changes and fixes
- Introduced two **colocation mode** variants: **data bus management** and **data bus viewer**
- Replaced **number of sensor change alert** by smarter alert type: **sensor change alert**, which alerts on any sensor connection change (number and/or type of connected sensors)

- ○ Improved reliability of firmware upgrades over data bus and API
- ○ Fixed false current alerts which could occur shortly after switching an outlet
- ○ Fixed issue which prevented SPDM *rsipks* registers from returning to 0 after use (single input kWh subtotal reset)
- ○ Fixed issue which could cause a restart in bridge mode by faulty data bus replies
- ○ Fixed issue which could cause an outlet to re-lock too quickly after an unlock action, blocking the subsequent switch/reboot action
- ○ Fixed writing of outlet names over SNMP
- ○ Fixed blinking of power/activity led under high interface load
- ○ Fixed initialization of 'minimum voltage' registers after (re)start
- ○ Many other fixes and performance improvements

Known issues
- ○ When viewing bridged units in the web interface, some features might not work as expected, if the remote unit's SPDM version is below 1.28.
- ○ Changing the unit address of a remote unit will not automatically cause a rescan. This needs to be done manually.
- ○ Do not make a closed ring when using bridge mode, as this will cause communication issues. The hPDU does not support 'ring redundancy' at this stage, although it can reach units from both of its data bus connectors.
- ○ Do not combine multiple hPDU bridges or a hPDU bridge and gateway in the same data bus.
- ○ After logging in, the web interface might be unresponsive for a few seconds. This is caused by loading the bridged device list.

Installing this firmware
Versions 2.02 and 2.06 can only receive firmware updates over the classic data bus (by using a Gateway or RS485 converter together with the supplied updater tools). From version 2.10, the hPDU can receive firmware updates over the IP API as well.

Use the supplied firmware updater tool by following the instructions in the *Firmware updater tool manual*. Note: uploading 2.xx bin files in the Gateway's web interface is not possible!

Note: the outlets will <u>not</u> be powered down during update or restarting of the PDUs!