

IP-8i

Release Notes

Version 1.02

20.06.2024



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New Functionality

- Added ping and traceroute possibility to the web interface (Network Settings / TCP/IP / Tools)

The screenshot shows the 'Network Settings' page with the 'TCP/IP' sub-section selected. Under the 'Tools' tab, there are two main sections: 'Ping' and 'Traceroute'.

Ping Section:

- Settings:** Destination: heise.de, Interface: Data 1, Count: 5, TTL: 255, Data size (0=default): 0.
- Output:**

```

PING heise.de (193.99.144.80): 56 data bytes
64 bytes from 193.99.144.80: seq=0 ttl=247 time=10.199 ms
64 bytes from 193.99.144.80: seq=1 ttl=247 time=10.105 ms
64 bytes from 193.99.144.80: seq=2 ttl=247 time=9.901 ms
64 bytes from 193.99.144.80: seq=3 ttl=247 time=9.894 ms
64 bytes from 193.99.144.80: seq=4 ttl=247 time=9.773 ms

--- heise.de ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 9.773/9.974/10.199 ms

```

Traceroute Section:

- Settings:** Destination: heise.de, Interface: Data 1, Max. hops: 5, Time to wait: 3.
- Output:**

```

traceroute to heise.de (193.99.144.80), 5 hops max, 38 byte packets
1 192.168.96.1 (192.168.96.1) 0.212 ms (64) 0.221 ms (64) 0.192 ms (64)
2 mx204-2.ham.purtele.com (185.39.84.9) 7.292 ms (254) 4.488 ms (254) 4.079 ms (254)
3 * * *
4 100.83.140.3 (100.83.140.3) 3.414 ms (252) 3.503 ms (252) 3.845 ms (252)
5 be100.c350.f.de.plusline.net (80.81.193.132) 10.210 ms (251) 10.138 ms (251) 10.077 ms (2

```

- Added event log entries when loading a settings file or loading factory settings
- When generating a settings file on the Global page you can now not just only download the file, but also save it to the internal storage. You can also directly change the name of the settings file.

The screenshot shows a form for generating and saving settings files. It includes a 'Generate settings file' button, a 'Settings file' field with the value 'IP-4c_740.000145_config.xml', and two action buttons: 'Save to storage' and 'Download'.

- Settings files can also be uploaded via the Storage page

The screenshot shows the 'Storage' page with three tabs: 'Internal Storage', 'NFS Storage', and 'aws S3 Storage'. The 'Internal Storage' tab is active, showing a progress bar at 72% and 1758.1 MB free of 6282.7 MB. There is an 'Upload file' section with a note: 'Note: Only for file size < 100MB (for bigger files use SFTP)'. It lists supported types: Audio, firmware, and settings files. Below this is a table of stored files:

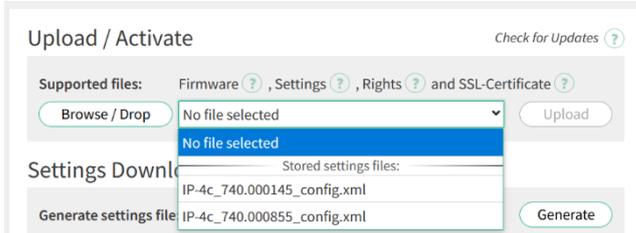
Filename	Date (UTC)	Size	Action
IP-4c_740.000145_config.xml	12.03.2024 08:53:52	4.4 MB	Delete
IP-4c_740.000855_config.xml	12.03.2024 08:54:24	3.8 MB	Delete

- Once there are settings files on the internal storage the user can select one of the stored files instead of uploading one and load it via the new consolidated Upload/Activate section, thereby having a sort of preset



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functionality, allowing to quickly switch between different configurations.



- When loading settings via the web interface it can now optionally include the TCP/IP configuration
- Added speed selection (Auto / 1000 Mbit / 100 Mbit) to the TCP/IP interface configuration. Sometimes auto negotiation does not work correctly. In this case a manual configuration might help.
- For security reasons the password hashes of the user accounts are no longer stored as MD5, but as bcrypt hashes. The migration will be done automatically.
- Added the possibility to update the firmware locally from USB
- Added the fan status to Status→Device in the web interface (needs System Controller firmware 1.07)
- Added the possibility to locally load settings from and save settings to USB via the LCD menu. The settings loading from USB can be done in two different ways – one without and one including the TCP/IP configuration.
- Added the possibility to access the latest 50 event log entries via external API (e. g. SNMP)
- Added the possibility to enable an automatic firmware update check, giving a hint in the web interface, that a new firmware is available without the need to manually check it

Changed functionality

- The PTP configuration did only allow to configure a single IP interface, providing no backup functionality in case PTP fails on that interface. Now all interfaces configured for streaming data (under Network Settings / Services) will be used for PTP, automatically switching between the interfaces when needed
- The different upload sections on the Global web page (Firmware, Settings, Rights, SSL Certificate) were consolidated to just one section allowing to upload every of the four kinds of files



- The manager user can be granted limited access to the Global web page, allowing just to switch between different configurations
- Reduced sensitivity of the jog wheel for better user experience when doing configurations via the LCD menu
- Changed Load Factory Settings via LCD menu to new method without reboot
- Loading settings via the web interface will show a warning when trying to load settings from a different device type. The settings can still be loaded, though, as many settings are of general nature.
- “Load factory settings” from within the web interface does no longer require a reboot
- Loading settings via the web interface will no longer require a reboot of the device, but will be done very quickly (within a few seconds)



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Fixed Issues

- Fixed AES67 output clock inaccuracy
- The AES67 outputs may exhibit timestamp jumps in certain cases, e. g. when a SIP call is terminated
- Fixed some problems with the optional Live Listening feature
- PTP might not work correctly in certain environments
- PTP might not be active after loading a settings file with a corresponding configuration
- Changing the SNMPv3 authentication protocol (MD5 <-> SHA1) did not work
- Headphone Downmix did not work in Analog/Digital Mode
- When doing “Load factory settings”, the user account passwords were not reset to default
- When loading a settings file, the user account passwords were not taken from the loaded settings file
- The metronome icon on the Overview page (which should signal external clock usage and its state) was not shown appropriately
- Web interface: session timeout did no longer work
- Web interface: on the Login page the user name field now has the focus on page load to allow immediate typing without the need for the additional click into the field
- General security and access control improvements
- PTP did only work with domain 0
- When doing “Load Factory Settings” and unplugging the power immediately after completion, the new (default) settings might not have been saved
- Web interface: the page heading may show an incorrect title when some menu entries are disabled
- When doing “Load Factory Settings” some settings may not be back to default, but only after a reboot
- When uploading and activating a settings file some settings may not be activated correctly and may need a reboot
- Audio on headphone may be distorted if listening to an audio input with disabled SRC
- DNS configuration per interface did not work via LCD menu
- Saving settings to USB may fail, if the USB stick is removed too quickly after the OK message is shown
- Ember+ improvement for read-only items (in the virt subfolder)
- External clock configuration - a reconfiguration from an already configured and valid clock source (e.g. from PTP to PPS) was not handled correctly
- VLAN interfaces were not correctly activated after a firmware update
- When updating the recovery bundle the wait page was shown endlessly



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Version 1.01-rc1

16.08.2023

New Functionality

- Added Mono Downmix option to headphone output
- The event log web page will now update automatically when new events arise while having the page open
- Added interface (and VLAN) selection to the SNMP trap manager configuration
- Added PIN lock option for LCD menu
- Added VLAN interface status

Changed functionality

- SAP announcements are now done on the interfaces, where the streams are sent (including VLANs)
- Ember+ can now be used simultaneously via more than one interface including VLAN(s). The configuration is done via Network Settings / Services. The switch to disable Ember+ completely is removed – instead disable Ember+ for all interfaces via Network Settings / Services.

Fixed Issues

- The audio input configuration option “Generate Null Samples (when no input is connected)” did not work – the audio input was always providing Null samples, thereby not allowing to stop the stream output on e. g. input failure
- Fix possible crash when changing the sample rate of an audio input
- Switching VLAN activation without modification doesn't work
- Control services are not correctly setup in VLAN environment
- Changing an active gateway address for a VLAN requires a reboot to become valid
- VLAN modifications could influence the main interface, too
- When switching between different web interface menu items the page will now always scroll back to top
- Fixed an issue with syslog messages stop working after a reboot
- SAP: fixed crash with too many announced streams

Known bugs

- n/a