

IP-8e

Release Notes

Version 2.03
10.05.2021



IP-8e Release Notes

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Important!

- This update recommends an updated recovery system. Please update the device using the file **recovery_2.00.upd**. A reboot of the device is not necessary.

New Functionality

- Ancillary Data input does support now input via UDP, too
- A double click on a row in the Profiles, Input Sources or Encoder Outputs table will open the corresponding Edit dialog
- New Ancillary Data status page
- New Services configuration, allowing to enable/disable HTTP, HTTPS, SFTP, SNMP and Streaming Data access/usage for each network interface (including VLANs).
This does also mean, that you can now grant access via HTTP(S) or SNMP via the Data interface – that's no longer limited to the Ctrl interface.
- The Ctrl interface can now also be used for Streaming Data like input source and encoder outputs (has to be enabled via the new Services configuration)
- New TCP/IP configuration page, allowing up to 10 VLANs for Data1 and Data2. Gateways can now be configured for VLANs, too.
- Added source specific multicast configuration to Elementary Streams dialog
- Added NTP status page

Changed functionality

- Ancillary Data handling
The Ancillary Data handling setup has changed. Formerly the configuration (should DTE input be used in conjunction with an audio input) was done as part of the Input Source configuration dialog(s).
To clean this up and to add UDP support, the configuration for the Ancillary Data handling was moved to a new Ancillary Data menu item.
- New NTP implementation (allowing up to four servers to be configured), giving higher precision
- Several packages have been updated (see OSA – Open Source Acknowledgment – on the Global page) to fix e. g. security issues

Fixed Issues

- FEC Encoder now supports the maximum of 64 elementary output streams
- Encoder Outputs: it was not possible to have more than 16 encoder outputs for the same encoder (now all 64 encoder outputs can have the same encoder source)
- MPEG TS Encoder: Bit rate overhead reduced
- MPEG TS Encoder improved for ancillary data in private PID
- MPEG TS Decoder crash fixed on special EIT tables and large SDT tables



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- Deleting all payloads of a service did not work - after page reload one service is kept
- The device could crash when starting or stopping RTP output streams
- Removed obsolete MPEG TS Packetizing format from Multiplexer settings
- Wrong analogue level display in web interface in cases where the device is digital only
- Added missing interface and VLAN info to input sources and encoder output on Overview page
- Inactive SAVE button in the Livewire+ dialog after changing only the LW source

Known bugs

- The new NTP status page does only work, if the device has the Ravenna or SFN license



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Version 2.01

10.03.2021

New Functionality

- Icecast Server Encoder Output added
In addition to the Icecast Source Client Encoder Output it's now also possible to enable an Icecast Server as an encoder output. Each Icecast Server will allow a maximum of 5 client connections.
- DSCP configuration for Elementary Stream Encoder Output added

Changed functionality

- The configuration for the usage of an external clock source (1PPS, PTP) has been changed. In former firmware versions the usage of the external clock source had to be enabled for the specific input sources. As this led to some confusion, the configuration has been re-designed.
The usage of the internal or external clock source is now configured on the Audio/XLR page, as the clock source is in fact a characteristic of the audio inputs.

Fixed Issues

- PSU alarms were not available (since firmware V2.00)
- Fixed a crash when changing the interface of an active SRT input source
- After device boot/reboot, some input sources may not start up correctly, when DHCP is used on the Data interfaces. The input source itself will work, but no audio is decoded / played out
- SRT input sources will now (again) be able to follow an SRT encoder, which does encode a file (this was broken in firmware V2.00)
- MPEG TS Encoder: PCR insertion improved for streams in "Low bitrate overhead" mode
- The Jitter information for the redundant part of an RTP output stream was wrong
- Improved Livewire compatibility (e. g. to Omnia One)
- The "Reset Counters" button on the Overview page did not reset the RTP output statistics for a redundant stream
- The "Reset Counters" button on the Overview page did sometimes not reset the FEC decoder status



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Version 2.00

09.02.2021

New Functionality

- Reference Input: the audio clock control does now allow to configure one of the audio inputs to act as the reference input (clock source) for the outputs (or other inputs)
- Added missing separate status information (via SNMP/Ember+) for all input sources types and all encoder output types
- Configuration of VLAN added for Livewire input sources
- Configuration of the dejitter buffer level added for Livewire input sources
- Added No Input Data alarm for streaming inputs
- SDP files can be downloaded for the output streams
- MPEG TS Encoder: allow referencing an external PCR (earlier firmware versions always used one of the audio streams for the PCR)

Fixed Issues

- PSU alarms are not available, if the device is equipped with hot swappable power supplies
- The (SAT)TS-Bitrate was no longer valid, but always displayed as 0
- TS Sync and C/N switch criteria for SAT(TS) input sources did not work
- IP input source status information was accessible using the decoder index (audio output index / decoder rank) via SNMP/Ember+. Therefore it was not possible to get IP status information, if the input source is only used for an encoder.
Now the index to use is the virtual input source index, following the visual order in the web
- Ancillary data output stopped working after switching to a backup source and didn't recover even if the main source is available again, but all input sources had to be disabled and enabled to get it working again
- DTE Ancillary input data is not routed to DTE output, if corresponding Audio Input is used as input source in the Decoder (Audio Output)
- SRT decoder was not restarted if the configured profile to use has been changed
- Activating NTP time synchronization does cause an audio glitch at synchronization time when using SRT
- Icecast Source Client encoder output did not allow to configure ports below 1024, but sometimes port 80 is used, so now every port starting with 1 is allowed
- Icecast Source Client did not work with AAC codecs
- MPEG TS Encoder: Optimized IP packet size for low bitrate
- SNMP Trap status binding delivers wrong value
- In rare cases the device may crash when changing the input source

Changed behavior

- SNMP Traps: ATTENTION – the old SNMP traps are no longer available!
We made a move from device specific traps to general traps if applicable.
Example:
notificationVirtIp4cDeviceStatusMonitoringSilenceaudio1in (OID .1.3.6.1.4.1.21529.1001.0.7)



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is now available as

notificationVirtCslMonitoringStatusAudioInputsXlrsilencedetection
(OID .1.3.6.1.4.1.21529.1001.0.1098907649)

Please note however, that in contrast to the traps the old status information, which can be polled, is still available, e.g. virtIp4cDeviceStatusMonitoringSilenceaudio1in (OID .1.3.6.1.4.1.21529.1001.35.1.23.37.57.7).

This old information is however marked as Obsolete in the SNMP MIB, as in the future only the new status information will be available

(e.g. virtCslMonitoringStatusAudioInputsXlrsilencedetection, OID .1.3.6.1.4.1.21529.1001.35.2.57.37.3.313.4096.1.1)

Known bugs

- None



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Version 1.31.4

30.11.2020

New Functionality

- None

Fixed Issues

- Fixed a routing problem when Ctrl and Data 1 or Data 2 were in the same subnet. This issue could result in the traffic being sent over the gateway instead of the subnet. Depending on the network setup this could cause unreachable devices.

Known bugs

- PTP synchronization incorrect after reset (turn off, turn on)
Workaround: Reboot the device after configuring your PTP setup
- When using SAP all multicast parameters are set correctly, but the audio parameters are not used from the session description.
Workaround: setup the audio parameters manually when you configure the reception of a SAP announced stream.



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Version 1.31.3

24.11.2020

New Functionality

- None

Fixed Issues

- Level meter did not work correctly, showing wrong (variant) values for a fixed level signal
- Wrong LCD display, if 5 channels are activated

Known bugs

- None



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Version 1.31.2

05.11.2020

New Functionality

- None

Fixed Issues

- Device not reachable because of wrong or missing gateway
- IP VLAN changes are not updated after configuration - only after reboot
- Redundancy stream handling in SFN mode improved
- Headphone output did not work in SFN mode
- Enhanced compatibility to some special Icecast streams

Known bugs

- None



IP-8e Release Notes

Version 1.31.1

05.11.2020

New Functionality

- None

Fixed Issues

- Log page shows error message about wrong localtime
- Device not reachable because of missing gateway. Has been fixed by changing DHCP metrics.
- Ravenna compatibility problems (e.g. to Lawo devices)

Known bugs

- None



IP-8e Release Notes

Version 1.31

28.10.2020

New Functionality

- Web Interface: Profiles are now moved to a separate tab, separated from the Input Sources

Fixed Issues

- Audio output may stop after several days or weeks (although input source(s) are still running)
- A network configuration using different gateways for the different interfaces (CTRL, DATA1, DATA2) did not work properly (policy based routing)
- Web interface is not available in seldom cases after a reboot (if DHCP is used for the CTRL interface)
- PSU failure alarm may produce false positive alarms
- "AES/EBU No signal" alarm did not work
- TS Decoder: audio decoding stops after changing demux configuration in MPTS setup
- SIP: Re-dial active connection after reboot if reconnect is enabled
- SFN mode: output disturbed in DualStreaming setup, if only redundant stream is received
- Web interface / Codec: VLAN may be set to 0 instead of right value in edit dialog
- VLAN may get set unintentionally, if interface is changed from one with VLAN to one without VLAN
- Web Interface: Overview page is empty (more or less), when logged in as user
- TS Encoder: enhanced ATSC compliance

Known bugs

- None



IP-8e Release Notes

Version 1.30

15.09.2020

New Functionality

- TS Encoder: added configuration possibility for the encoding standard (DVB/ATSC) and language codes
- On the TS Multiplexer web page, changes done are monitored now, too and the Save buttons will only get enabled when changes are present. Faulty values are not allowed to be saved.
- Added configuration possibility (on Audio XLR page) for the critical level marker threshold for the level meters on the overview page (threshold/level, at which the level will be shown as orange instead of green)
- PTPv2 support is now fully functional (provided the Ravenna license is present)
- Added support for the optional FM Dualtuner module

Fixed Issues

- SAP service behavior on DHCP changes improved; sometime SAP was not available after changing the network interface to DHCP
- RTP jitter buffer performance and accuracy improved PSU failure alarm may produce false positive alarms
- Problems with MP3 VBR decoding
- Wrong RTP timestamps for G.722 encoding
- Ancillary data output not working in case of SRT input source
- Ancillary data not working with E-aPTX and 32 kHz sample rate
- DHCP leases and TCP/IP reconfiguration improved

Known bugs

- none