

**IP-4c**

# **Release Notes**

Version 2.01

10.03.2021



# IP-4c Release Notes

## Table of Contents

Version 2.01.....	3
Version 2.00.....	4
Version 1.31.4.....	6
Version 1.31.3.....	7
Version 1.31.2.....	8
Version 1.31.1.....	9
Version 1.31.....	10
Version 1.30.....	11



# IP-4c Release Notes

## 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 (Audio Input for the audio inputs, Elementary Stream Input for the audio outputs). 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 and/or audio outputs. The new reference input selection introduced in firmware V2.00 will be (once enabled) the clock source master, therefore not allowing the selection between internal or external (1PPS, PTP) clock source.

### **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



# IP-4c Release Notes

## 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



# IP-4c Release Notes

## 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)  
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



# IP-4c Release Notes

## Version 1.31.4

11.12.2020

### New Functionality

- None

### Fixed Issues

- HTTPS web access to DATA1 and DATA2 disabled
- SFTP upload files cannot be saved

### 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 an SAP announced stream.



# IP-4c Release Notes

## Version 1.31.3

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.



# IP-4c Release Notes

## 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-4c 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-4c 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-4c 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 Daltuner 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