

SAT-4d Release Notes

Version 1.01
08.02.2023



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New Functionality

- Added gain configuration to all input sources to e. g. allow alignment of main and backup sources
- Added playlist support (m3u, m3u8, pls) to the file input source
- Added VLAN support to the Icecast client input source
- Added previously missing RF level value for the optional SAT tuner
- Added SAT tuner alarms for RF level, C/N and TS Sync
- Added Mono Downmix option for the audio outputs
- Major Livewire integration enhancements:
 - Added optional Livewire Sources for the audio outputs (instead of AES67 streams), allowing to have a Livewire audio stream instead of physical XLR as audio output.
 - Added Livewire level meters for Sources and Destinations (enhance compatibility to e. g. Pathfinder)
 - Added two virtual Livewire GPI ports (GPI 3 and 4), which will reflect the state of GPO port 1 and 2. This will allow other Livewire devices to register for GPI changes via snake mode and thereby follow a GPO change on the SAT-4d (e. g. via GPIO Tunneling), reflected as a virtual GPI change. The virtual GPI ports will thereby provide a GPO pass-through to other Livewire devices.
- Added status tabs to Overview page for optional AES67 outputs and Livewire Sources
- Added PIN lock option for LCD menu
- Allow decoding of not announced TS audio services (with missing DVB tables)
The codec has to be set manually ("Automatic" will not work)
- Added VLAN interface status

Changed functionality

- Improved the file upload via the Storage page
The upload limit was increased to 100 MB and the error handling was improved.
- The "NTP Server Quality" parameter options are renamed from "Internet" and "Local" to "Logging" and "Clock Source" to better describe the usage and thereby the internal evaluation parameters used. With NTP expert settings enabled you can now also change the NTP quality settings "RMS Offset" and "Skew" (used as evaluation parameters).
NTP validation is now much faster on device startup or NTP activation.

Fixed Issues

- Fixed a possible crash with NTP synchronization and "Bind to interface" option enabled
- When loading a settings file, some input sources may not show up, although there were such input sources in the settings file (probably only TS/SAT)
- SAT tuner: there was a LNB supply limitation of 200mA, which led to compatibility issues to some LNBs (not switching polarization). This limitation is removed by software, allowing for a current > 400mA



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- SAT input sources: Fixed a possible larger offset of the audio buffer level with certain streams
- Fixed an issue with syslog messages stop working after a reboot
- Fixed a possible crash on the Overview page, when RTP with dual streaming, VLAN and multicast is enabled
- Fix input source assignment check for SAT input sources (did not allow some valid combinations)
- Fix xHE-AAC problems with low bitrates
- Icecast input source handling improved for faulty meta data from some Icecast servers
- Improved Icecast client compatibility to “bursty” Icecast streams similar to HLS
- IGMP binding improved for RTP multicast (in case of interfaces with identical addresses)
- Livewire: increased general compatibility with Pathfinder
- Livewire: changes done to Livewire Destinations via LWRP were not applied
- AES67 output compatible with DHD (silent mode)
- AES67 outputs loose the PTP synchronization after reconfiguration the AES67 output parameters
- AES67 output: improve stability of empty packets mode
- Fixed an issue with the ancillary output not working and providing no data when a TS ancillary data or a private data input source is configured and only assigned to one of the ancillary outputs without using the same TS source in one of the decoders (or maybe encoders)
- TS/Demux: In "Service (auto)" mode the PID shown in the input source table was the PMT PID and not the audio PID
- TS/Demux: Fix decoding startup problems with “Service (auto)” mode
- TS/Demu Config: Fix empty audio track select on config mode change from “Service (auto)” to “Service (fixed)”
- SAP: fixed crash with too many announced streams

Known bugs

- xHE-AAC: Ancillary data and GPIO Forwarding does not work