

DAB-4c/DAB-4s

Release Notes

Version 1.26.2

14.02.2024



DAB-4c/DAB-4s Release Notes

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Version 1.26.2

14.02.2024

Bundle:

https://download.2wcom.com/products/DAB4c_NSJD/software/dab4c_bundle_1.26.2.upd (DAB-4c)

https://download.2wcom.com/products/DAB4s_TZUI/software/dab4x_bundle_1.26.2.upd (DAB-4s)

Fixed Issues

- The “Recovery Page” was shown after a while when “NTP logging” is enabled. This issue can take 1-2 days until it takes place. Only the connection Web to Firmware was broken. The input/output of the device was working correctly.
- Small ETI frame sizes have not been decoded correctly for the ETI-to-EDI converter.
- Not all Settings were correctly loaded after a “Settings update”. The Settings for the TS Multiplexer were not loaded.

Known bugs / Limitations

- ASI output for the TS Multiplexer is only working correctly when “NTP” is disabled. Please configure the time/date settings correctly after the initial configuration. We are working on a bugfix for this error.
- TS Multiplexer setting only with “Compressed Mode” does not work with all available FlexXtract+ firmware versions. All other modes are working correctly. We are working on this item.



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Version 1.25.5

02.01.2024

Bundle:

https://download.2wcom.com/products/DAB4c_NSJD/software/dab4c_bundle_1.25.5.upd (DAB-4c)

https://download.2wcom.com/products/DAB4s_TZUI/software/dab4x_bundle_1.25.5.upd (DAB-4s)

Important!

- This update recommends an updated recovery system. Please update the device using the file **recovery_2.02.upd**. A reboot of the device is not necessary.
The bundle is available under Support / Check for updates / Optional Updates

New Functionality

- 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)
- SAT Tuner: added the frequency offset to the status parameters

Fixed Issues

- ETI to EDI Converter: MNSC (Multiplex Network Signalling Channel) info was always set to "0".
- ETI to EDI Converter: Missing status values added to SNMP MIB.
- EDI to ETI Converter, ETI Output Status: Fixed wrong offset for "Output Accuracy" status after an edi input error.
- EDI Input Source, VLAN could not be configurable when only one VLAN was allowed under Network Settings / Services.
- External Clock: A reconfiguration done by using the "External Clock Page" was only applied after a reboot.
- IGMP: Fix for a bug only occurring in bundle 1.24.28, IGMP Membership for Multicast Address on Data2 is dropped instead of Data1 when Data1 goes down.
- TS Multiplexer: Added "Max. Bitrate" parameter for all input sources. The TS overall bitrate can be lower by using this new parameter. (Does not apply for Scientific Atlanta mode)

Changed functionality

- "Load factory settings" from within the web interface does no longer require a reboot

Known bugs / Limitations

- ASI output for the TS Multiplexer is only working correctly when "NTP" is disabled.
Please configure the time/date settings correctly after the initial configuration. We are working on a bugfix for this error.



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Known bugs / Limitations

- The DAB-4s and DAB-4c firmware bundle are technically the same. For some previous versions of the DAB-4s firmware only the DAB-4c firmware is loadable as new firmware. After 1.25.5 is used the DAB-4s firmware bundle can be always loaded for a DAB-4s.



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Version 1.24

17.07.2023

Important!

- This update recommends an updated recovery system. Please update the device using the file **recovery_2.02.upd**. A reboot of the device is not necessary.
The bundle is available under Support / Check for updates / Optional Updates

New Functionality

- Added Generic Streaming for Satellite input sources. (GSE Software License needed)
IP Edi Packets send over GSE can be forwarded to the IP Ethernet Interfaces or used as input for the EDI to ETI/EDI converter.
- TS Multiplexer does now support the FlexNsert+ modes ARG2500 (Scientific Atlanta) and is fully compatible to the FlexNsert+ modes Uncompressed and Compressed. (TS Multiplexer Software License needed)
- First steps to more advanced / extended logging: For some events, which were previously only counted (like missed packets) there's now the possibility to check the point in time when these events occur. There's a new "Extended Log" tab on the Log web page, which shows these events. Currently we added events for IP EDI Input missed packets, IP EDI Input timeout. Like the counters this extended log is volatile, meaning it is cleared after a reboot. If syslog is enabled, these events will however also be sent out to syslog, making them externally persistent.
- A Switch between a Main and a Backup source can now be externally controlled when the configuration "Activation on command" is set under Source Assignment. (Available when Additional Backup Right is set)
- Added interface (and VLAN) selection to the SNMP trap manager configuration
- Released REST API that enables customers to use an Open API 3.0 compliant API to control and monitor 2wcom's devices.
 - More info about Open API 3.0 can be found [here](#).
 - The API can be enabled and browsed on page "External APIs" -> "REST API".
 - The openapi.json for the device and additional documentation can be found on the devices page "External APIs" -> "REST API".

Fixed Issues

- Missing Alarms for SAT Tuner have been added
- Fix status problems of optional DAB tuner (RF level etc. are reported as faulty sometimes, although this is not true)
- SAT Tuner: Fixed BER calculation for low symbol rate single tuner
- Switching VLAN activation without modification doesn't work
- Control services are not correctly setup in VLAN environment
- SAT tuner: if reception gets interrupted due to e. g. bad weather conditions, the device still could fail to re-establish TS decoding and the outputs are inactive



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Fixed Issues

- EDI outputs are not correctly activated after a reconfiguration. (Only working after a reboot when configured).
- Fixed possible load problem (since 1.23) of EDI inputs when all 4 x EDI to ETI/EDI converter are active. When this problem happens the “Missed counter” on the EDI input is rising.
- EDI to ETI/EDI converter output alarm falsely active when Backup is active.

Changed functionality

- Revision of EDI input “Fallback” configuration. (Available when Additional Backup Right is set). When using the “Fallback” configuration a manual switch to a pre-defined alternative input source for EDI Input1 and/or EDI Input2 is possible by using the configuration “Switch Primary/Fallback” on the EDI input. A switch to a fallback input is now only possible by changing the configuration “Switch Primary/Fallback”.

Known bugs / Limitations

- ASI output for the TS Multiplexer is only working correctly when “NTP” is disabled. Please configure the time once correctly after the initial configuration. We are working on a bugfix for this error.



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Version 1.23

29.11.2022

New Functionality

- Added TS MPE IP Forwarding for Satellite input sources. (Software License needed)
- Added optional ETI output TIST replacement. NA-TIST can be overwritten so that only LI-TIST is used.

Fixed Issues

- The alarm “Converter Output Error” shows a false alarm at startup.

Changed functionality

- None

Known bugs / Limitations

- There is a configuration issue when both inputs RF1 and RF2 from a Dual Sat Tuner are used at the same time. A reconfiguration of one source can lead to an outage of the other source. The problem takes only place for this constellation.



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Version 1.21

08.06.2022

New Functionality

- Added Alarms as Source for GPO. (Output Relay)

Fixed Issues

- Dragging Input Sources within the Source Assignment were only activated after a reboot. (Web Bug since 1.19.1)
- A possible memory leak caused a reboot of the device after a few hours up to a few days in case PTP clock synchronization was enabled
- Fixed too high GPO count for Alarms.

Changed functionality

- GPO Output configuration is now compatible to FlexXtract+ GPO configuration.
GPO 8 has been dropped. GPO 7 is now an A/B Switch Relais. (Previously GPO 8)
If FlexXtract+ pinout is needed an adapter cable is now available providing the identical pinning as the FlexXtract+.

GPO

State / Configuration

	1	2	3	4	5	6	7
State:	☐	☐	☐	☐	☐	☐	☒ A ☐ B
Inverted:	☐ OFF	☐ OFF	☐ OFF	☐ OFF	☐ OFF	☐ OFF	☐ OFF
Source:	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm

Known bugs

- None



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Version 1.19

01.02.2022

New Functionality

- TS Multiplexer: Additionally added IP EDI and EDI-to-EDI Converter input sources. IP EDI Packets can now be encapsulated in MPE mode for TS Multiplexer. This feature is only available if the optional right “TS Encoder” is set.
- Integration of DVB-S/DVB-S2 Dual SAT Tuner Hardware Module. A SAT Tuner MPE Input Source is now available as additional Input Source for the EDI-to-ETI/EDI converter. This feature is only available if a SAT Tuner hardware module is build-in. A SAT Tuner hardware module can be added to existing DAB-4c units.
- Added VLAN support to PTP interface configuration

Fixed Issues

- Fixed: EDI-to-EDI converter - The EDI sequence counter was not forwarded transparently from the EDI input to the EDI output source.
- Optimization: ETI output clock accuracy (Internal Recovered and NTP mode) improved after ETI output errors

Changed functionality

- Rework of Input Source Assignments for Converter instances. As another input source (SAT Tuner) is now available the Input Source Assignment needed to be reworked. The Input Source Assignments are now saved differently to the previous version. The Assignments from the previous versions are auto-converted to the new format. Please renew saved settings files for restoration of existing setups after upgrade. Older setting files do not contain the new Source Assignment format and will not work with version ≥ 1.19 .

Known bugs

- None



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Version 1.17

17.11.2021

New Functionality

- PTPv2 as External Clock source is now available
- TS Multiplexer added for ETI and EDI-to-ETI input sources. Compressed and Uncompressed Mode is supported. This feature is only available if the optional right “TS Encoder” is set.
- Added support for SNMPv3
- Added support for PTP Unicast
-

Updated manual including new functionality (TS Mux, PTPv2) is now available. All parameters that are displayed on the Overview page are described.

http://download.2wcom.com/products/DAB4c_NSJD/manuals/en/DAB-4c_User_Manual_V2.pdf

Fixed Issues

- Fixed: Source specific multicast for second Dualstreaming Edi input was not working
- Fixed a monitoring startup error for the EDI-to-ETI converter (Packet Loss Rate is set to 1% at startup)
- DNS and Gateway entries in the TCP/IP settings couldn't get deleted by entering 0.0.0.0
- IGMP might not work when the device has been rebooted and dhcp is active on the chosen ethernet interface. Please note: IGMPv3 is tried per default at startup. If not successful, then IGMPv2 is tried. If available select IGMPv3 for all switches so that the startup initialization time is short.
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Changed functionality

- Rework of the System Settings / User web page
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Known bugs

- None



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Version 1.16

18.08.2021

Important!

- This update fixes a memory leak. The RAM usage is slowly running empty within several months of operation without this bugfix.

New Functionality

- Network Compensation Delay is shown for the E1 Output when NTP is active.
- Rework of External Clock Switching (10MHz, NTP)

There is a new configuration and status page for external clock handling available:

The screenshot shows the 'External clock' configuration page. It has three main sections: 'Main', 'Backup 1', and 'Backup 2'. Each section has an 'External Clock Source' dropdown and 'Switch criteria' settings. The 'Main' section is set to '10 MHz' with a '10MHz signal present' switch criterion and a 'T2' value of '30'. The 'Backup 1' section is set to 'NTP' with an 'NTP quality rating OK' switch criterion and 'T1' and 'T2' values of '30'. The 'Backup 2' section is set to 'none'. A 'Save' button is at the bottom. Below this is the 'External clock status' page, which shows the current status of the clock sources. The 'Main' status shows '10 MHz Valid'. The 'Backup 1' status shows 'NTP Source' with 'RMS Offset 7 µs / < 500 µs' and 'Skew 0.12 PPM / < 0.5 PPM'. The 'Backup 2' status is empty.

Section	External Clock Source	Switch criteria	T1	T2
Main	10 MHz	10MHz signal present		30
Backup 1	NTP	NTP quality rating OK	30	30
Backup 2	none			

Save

Section	Status
Main 10 MHz	10MHz Valid
Backup 1 NTP	NTP Source RMS Offset 7 µs / < 500 µs Skew 0.12 PPM / < 0.5 PPM Last Valid Sample 48 s / < 160 s
Backup 2	

As initial configuration the clock source must be configured for main and backup sources. The external clock sources will be set to “none” as default.

Please set Main External Clock Source to 10MHz or NTP if necessary.

For the E1 output configuration the clock sources are now configured as internal or external. When set to external the clock will be chosen upon the External clock configuration page.

Fixed Issues

- Fixed Memory Leak that is filling RAM usage within several months of operation.
- VLAN for EDI Output streams was not shown correctly for the Web Interface.
- +/- Button for EDI Output streams deactivate view of attached web panel when pressed.



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Changed functionality

- Rework of External Clock Switching. Please see notes under “New functionality”.
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Known bugs