

DAB-4c/DAB-4s

Release Notes

Version 1.29.8
10.01.2025



DAB-4c/DAB-4s Release Notes

Table of Contents

Version 1.29.8.....	3
Version 1.28.8.....	4
Version 1.28.1.....	5
Version 1.27.1.....	6
Version 1.26.2.....	8
Version 1.25.5.....	9
Version 1.24.....	11
Version 1.23.....	13
Version 1.21.....	14
Version 1.19.....	15
Version 1.17.....	16
Version 1.16.....	17



DAB-4c/DAB-4s Release Notes

Version 1.29.8

01.10.2025

Bundle:

https://download.2wcom.com/products/DAB4c_NSJD/software/dab4c_bundle_1.29.8.upd (DAB-4c)

https://download.2wcom.com/products/DAB4s_TZUI/software/dab4x_bundle_1.29.8.upd (DAB-4s)

New Functionality

- EDI output for EDI-to-ETI converter can be configured for Buffer management “Buffer Level” and new for “ETI TIST (NTP)”. ETI TIST (NTP) mode builds up a buffer according to the ETI TIST info that is compared against the actual NTP time. In this mode the device builds up a buffer that is very similar to the “Network Compensation Delay” that is used by the DAB Transmitter.

Changed functionality

- TS Multiplexer: The “PID removal on bad input” functionality has two different options now. It can not only remove both the PID itself and the signalling via PAT/PMT (what was done until now), but optionally only remove the PID, but still signal it via PAT/PMT.

Fixed Issues

- ASI output could have glitches sometimes due to not correct handling of the ASI output speed.
- Edi output did not switch seamless when a switch between main and backup took place.
- Change of already used edi input source for ts multiplexer lead to an inconsistent mux. The edi input was not correctly signalled in the ts multiplexer.



DAB-4c/DAB-4s Release Notes

Version 1.28.8

25.10.2024

New Functionality

- Added “EDI input active“ alarm to EDI to ETI converter
- Added the possibility to clear the extended log
- If a SAT tuner is installed, the LCD screen will now show additionally a status page with reception information:

SAT STATUS					
RF1 - DVB-S2 BPSK 22000 2/3, 1303.000 H					
RF STATE	Locked	C/N	17.5 dB	BER	0
RF LEVEL	-38 dBm	EB/NO	10.2 dB	FE	274 kHz
RF2 - DVB-S QPSK 22000 Auto, 1788.000 U					
RF STATE	Tuning	C/N	0.0 dB	BER	--
RF LEVEL	-99 dBm	EB/NO	--	FE	--

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Changed functionality

- Consolidated TCP/IP page to only have one “Save” button
- The event log page does now also refresh automatically when it is initially empty

Fixed Issues

- Loading settings file did only work partially
- TS Multiplexer: PID removal on bad input did not work
- ETI Input 2 to 4 did not work as input for the TS Multiplexer



DAB-4c/DAB-4s Release Notes

Version 1.28.1

09.07.2024

Bundle:

https://download.2wcom.com/products/DAB4c_NSJD/software/dab4c_bundle_1.28.1.upd (DAB-4c)

https://download.2wcom.com/products/DAB4s_TZUI/software/dab4x_bundle_1.28.1.upd (DAB-4s)

Fixed Issues

- ETI Output 3 had occasional bytes errors that were repaired by the Reed Solomon FEC (ETI-NA),
- All other ETI outputs did not have this error
- Edi Input Source: Fixed a not working input edi stream when the edi input source is reconfigured in the web gui and dualstreaming is configured and the first stream is not received. Under this condition the second stream is not correctly activated after the reconfiguration. The error takes only place after a reconfiguration.
-

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.
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DAB-4c/DAB-4s Release Notes

Version 1.27.1

28.03.2024

Bundle:

https://download.2wcom.com/products/DAB4c_NSJD/software/dab4c_bundle_1.27.1.upd (DAB-4c)

https://download.2wcom.com/products/DAB4s_TZUI/software/dab4x_bundle_1.27.1.upd (DAB-4s)

Fixed Issues

- Dual ASI Output Module (EXM32) has not been working correctly causing occasional interruptions for both ASI outputs.
- E1 output AIS signalling has not been correct when no valid eti frames / data is lost. Now a valid AIS signal is generated by the E1 output when the E1 output buffer is empty.
- General security and access control improvements
- REST API improvements
-

New Functionality

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

Network Settings
↳ TCP/IP

General Tools

Ping

Settings

Destination:

Interface:

Count:

TTL:

Data size (0=default):

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

Settings

Destination:

Interface:

Max. hops:

Time to wait:

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 (251)
```

- 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.

Generate settings file:

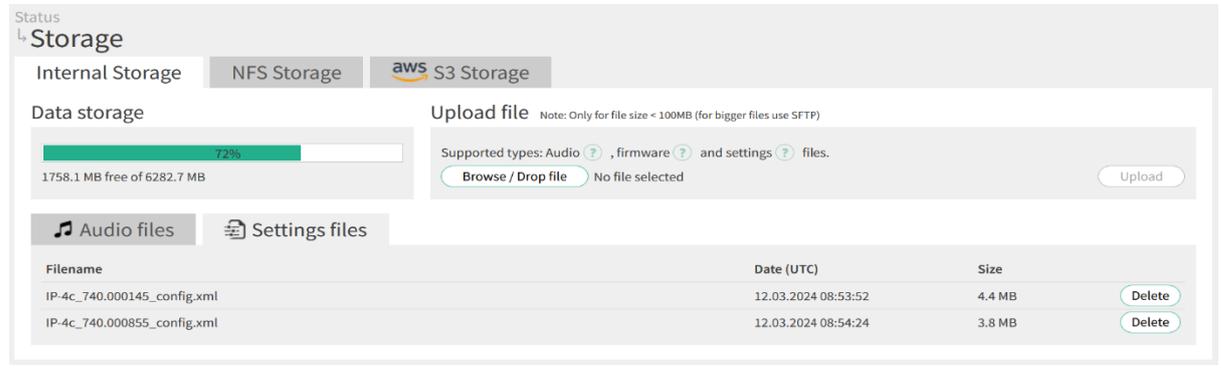
Settings file: IP-4c_740.000145_config.xml

Actions:

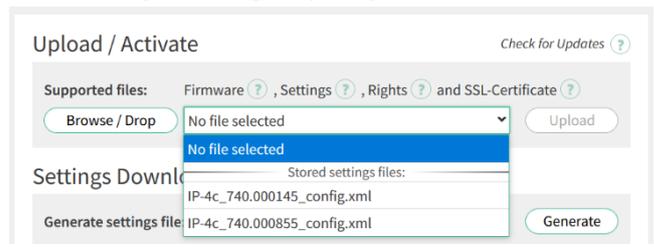


DAB-4c/DAB-4s Release Notes

- Settings files can also be uploaded via the Storage page

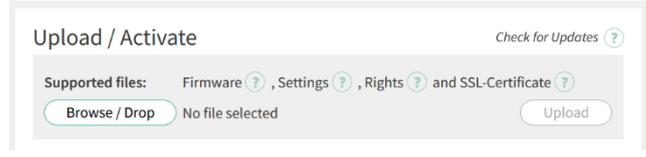


- Once there are settings files on the internal storage the user can select one of the stored files instead of uploading one and load it via the new consolidated Upload/Activate section, thereby having a sort of preset functionality, allowing to quickly switch between different configurations.



Changed functionality

- 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
- 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.

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.



DAB-4c/DAB-4s Release Notes

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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DAB-4c/DAB-4s Release Notes

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
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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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DAB-4c/DAB-4s Release Notes

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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DAB-4c/DAB-4s Release Notes

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".
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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



DAB-4c/DAB-4s Release Notes

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”.
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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.



DAB-4c/DAB-4s Release Notes

Version 1.23

29.11.2022

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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.

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Fixed Issues

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

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Changed functionality

- None

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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.



DAB-4c/DAB-4s Release Notes

Version 1.21

08.06.2022

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New Functionality

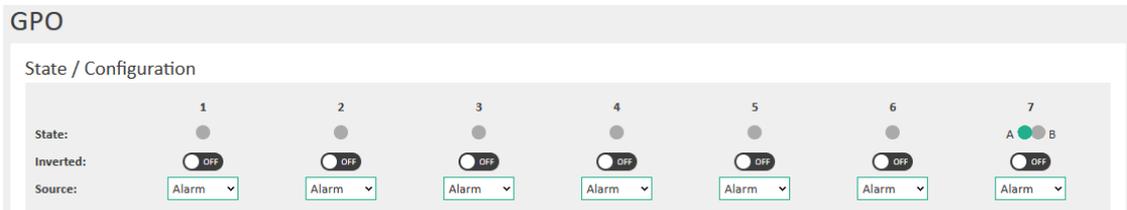
- Added Alarms as Source for GPO. (Output Relay)
-

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+.



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Known bugs

- None



DAB-4c/DAB-4s Release Notes

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
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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 .
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Known bugs

- None



DAB-4c/DAB-4s Release Notes

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

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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



DAB-4c/DAB-4s Release Notes

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:

External clock configuration:

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

External clock status:

Section	Current State
Main	10 MHz 10MHz Valid
Backup 1	NTP 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.



DAB-4c/DAB-4s Release Notes

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Changed functionality

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

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Known bugs