



# Spectera

Release notes - version 1.4.1



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# 1. System overview and requirements

## Supported products

- Base Station
- DAD UHF antenna
- DAD 1G4 antenna
- SEK UHF mobile device
- SEK 1G4 mobile device
- Spectera WebUI

## System requirements

- Intel i5 Dual Core processor/M1 Mac/or similar
- 16 GB RAM
- Gigabit LAN interface
- Windows® 10 or higher
- Mac OS Big Sonoma or later
- IPv4 network

## Supported web browsers for Spectera WebUI

- Google Chrome: 125 or later
- Microsoft Edge: 125 or later
- Mozilla Firefox: 128 or later
- Apple Safari: 17 or later
- JavaScript must be activated

## Access instruction

In order to start the self-hosted WebUI for Spectera WebUI:

1. Enter the following URL into your browser: <https://deviceIP/specterawebui/>
2. When logging in for the first time, assign a password for the device and continue with **Submit**.

**i** Since the certificate is unknown to your browser, a security warning is displayed the first time you run the application. The security warning depends on the browser you are using.

3. Depending on your browser, click on **Advanced** or **Show Details** (Safari) and then on:
  - Microsoft Edge: Continue to localhost (unsafe)
  - Google Chrome: Proceed to localhost (unsafe)
  - Firefox: Accept the Risk and Continue



- Apple Safari: [...] visit this Website -> Visit Website
- or similar (other browsers)

### **Firmware update**

The Spectera firmware can be updated via Spectera WebUI. The latest firmware version can be found in the Download section:

- [sennheiser.com/base-station](https://www.sennheiser.com/base-station)



## 2. Current release

Latest information on the Spectera firmware and WebUI software, including detailed descriptions of features, bug fixes, and known issues.

### Version 1.4.1

#### New features

##### Base Station

- Shows the FCC ID for the 1G4 antenna
- Added Command Mode to support the COM Button
- Added live view for the parameters of the mobile devices in "Mobile Device Monitoring"

##### SEK

- Added Command Mode to support the COM Button
- Status LED color for the mobile devices state "connected" can be changed

##### DAD

- LED color for the antenna states "RF active" and "RF mutes" can be changed

##### WebUI

- Added solo control, other users cannot change the settings and have read-only access
- Added a warning, if too many clients connect with the same Base Station
- LED color for the antenna states "RF active" and "RF mutes" can be changed
- Status LED color for the mobile devices state "connected" can be changed
- Added live view for the parameters of the mobile devices in "Mobile Device Monitoring"
- Added Comand Mode

#### Improvements

##### SEK

- Added the Brazil e-Label
- Improved the estimated runtime of the BA 70
- The SEK prevents the firmware update if the battery state is under 10 %
- Sleep mode: Reduced the interval for automatic connection checks to 20 seconds..



### WebUI

- Renamed "Audio Levels" to "Audio Metering"
- Added the Base Station serial number to the device information
- Improved the settings to change the password
- An information is shown, if the firmware has a mismatch or the battery state is under 10 %
- Added a warning that the time is invalid to the Mobile Device Monitoring and the Frequency Scan

### Bug fix

#### Base Station

- Shows the correct LED color of the RF state directly after startup
- Unbind transceivers and PoE injected antennas in case of critical temperature too cool down
- The headphone out volume is now reaching maximum

#### SEK

- Fixed a bug where the reconnection failed after sleep mode

#### DAD

- Fixed a bug where artifacts shown in WebUI during a frequency scan

### WebUI

- The WebUI reloads automatically after a firmware update to avoid version mismatch
- Changed the test tone unit from "dB" to "dBFS"
- Fixed in Firefox connection issues for additional tabs on the same Base Station

### Known issues

#### WebUI

- Manually refresh the browser page if the client device (laptop/PC) was in energy-saving mode.
- Disable the command mode if you set the Mic/Line mode to **auto** or if you use an instrument cable.



## 3. Previous releases

Information on the previous versions of Spectera and the WebUI, including detailed information on included features, bug fixes, and known issues.

### Version 1.3.3

#### Bug fix

##### WebUI

- Fixed a bug that caused the WebUI to fail loading a new save file if more devices were paired after saving the file.



## Version 1.3.2

### New features

#### WebUI

- RF channel overview as mouseover function in the Mobile Devices section
- RF channel utilization bar in the Mobile Devices and Audio IO header

### Improvements

#### Base Station

- Extend LIC Zone 07 (Israel) by an additional frequency range (630-698 MHz)

### Bug fix

#### Base Station

- Fixed a bug where a DSP would not start correctly, resulting in no audio signal on certain channels

#### SEK

- The headphone detection has been adjusted so that the audio signal is not muted in case of detection problems. Now when headphones are first plugged or SEK is switched on and audio is present a very short audio interruption will be heard during the initial calibration process. This is normal operation.

#### WebUI

- The Load function must not delete devices



## Version 1.3.0

### New features

#### Base Station

- AFTRCC e-Key handling for 1G4 frequencies in LIC Zone 02 (US only)
- Extend LIC Zone 01 (EU) by further 1G4 frequency range (added range 1492 - 1525 MHz)
- Added further license regions (LIC Zone 15 – Taiwan, LIC Zone 16 – Brazil, LIC Zone 17 – China)

#### SEK

- The headphone output can now be switched to a balanced mono output in the WebUI

#### WebUI

- Added serial and FCC ID to antenna's tooltip
- Balanced line out for SEK phones output
- Added browser favicon
- Changed password option
- Enabled AFTRCC page for LIC Zone 02 (US only)
- Showing battery runtime in hh:mm for each mobile device
- Lock functionality added to mobile device sorting
- Mobile device sort button enhanced with "to top" and "to bottom"

### Improvements

#### Base Station

- Support LIC Zone 16 / Brazil with Anatel e-Label

#### SEK

- EEPROM configuration: improved stability and error handling

#### WebUI

- Cable emulation dropdown field disabled if "Mic" is selected
- Hover effects added to clickable items
- Smoothed RMS audio level



## **Bug fix**

### **Base Station**

- DAD overheat protection will not work when connected via media converter
- Preserve entitlement data during network errors
- During standby, the LED also blinks to indicate critical system states

### **System**

- Very rare packet errors despite good RF conditions
- Inconsistent LQI during walktest

### **WebUI**

- Synchronized shared settings across multiple browser tabs
- Avoid overlap of RSSI min and dominant antenna
- Show firmware update success at 100% instead of 99%



## Version 1.2.6

### Improvement

#### SEK

- Improvements for more stable reconnection of the SEK in bad RF conditions

### Known issues

#### SEK

- MIC/Line input - noise may occur in the audio signal when instrument cables and microphones have insufficient shielding

#### Spectera WebUI

- Under certain circumstances, the identify function in the WebUI keeps flashing and does not automatically stop after 10 seconds.



## Version 1.2.5

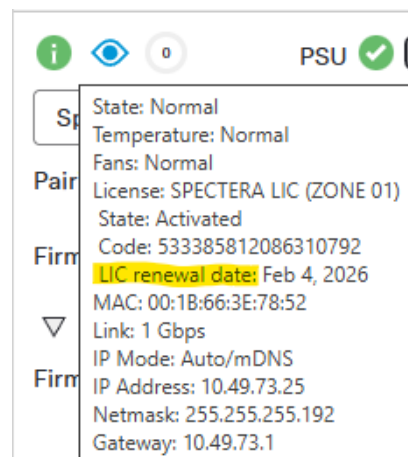
### Improvements

#### Base Station

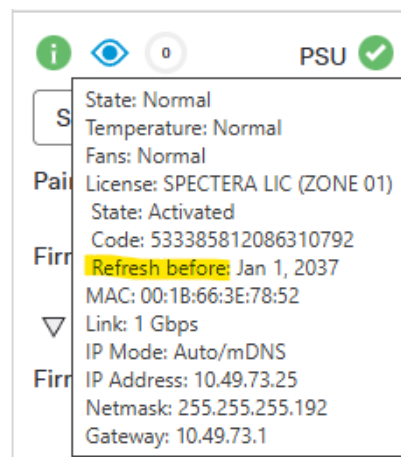
- Support for the automatic license renewal of licenses issued before November 20, 2025.

The license renewal will be displayed in the device state after some time:

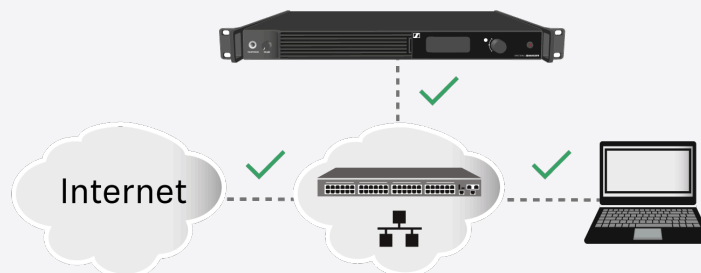
Before update:



After update:



- i** The license renewal requires a direct Internet connection to the device.



### Known issues

#### SEK

- MIC/Line input - noise may occur in the audio signal when instrument cables and microphones have insufficient shielding



### **Spectera WebUI**

- Under certain circumstances, the identify function in the WebUI keeps flashing and does not automatically stop after 10 seconds.



## Version 1.2.4

### **i License Activation Notice**

Please note: Licenses generated **before November 20, 2025** require a refresh using the standard activation process **after** the one-year period has ended due to an error in the license setting. The license itself remains fully valid, but the system needs to reconfirm it. Licenses generated **after November 20, 2025** are perpetual and do not require any action.

### **Improvements**

#### **SEK**

- Improves a caching weakness in the SEK volume settings via Spectera WebUI

#### **DAD**

- Firmware upgrade stability was improved

#### **Spectera WebUI**

- Adds the “LIC renewal date” to the WebUI
- Provides a 4-week warning before the required refresh

### **Known issues**

#### **SEK**

- MIC/Line input - noise may occur in the audio signal when instrument cables and microphones have insufficient shielding

#### **Spectera WebUI**

- Under certain circumstances, the identify function in the WebUI keeps flashing and does not automatically stop after 10 seconds.



## Version 1.2.2



### Important!

**Before starting the update, disconnect the antennas from the Base Station. This ensures a safe, trouble-free firmware update.**

Please follow these steps when installing the firmware:

1. **Physically disconnect the antennas from the Base Station.**
2. Update the Base Station (expect several automatic reboots).
3. **Wait until the Base Station LED remains solid green**, indicating that the update has been completed.
4. Reconnect the antennas; they will update automatically.
5. Update your mobile devices.
6. Avoid power interruptions, and ensure that batteries are sufficiently charged.

## New features

### Base Station

- Audio link modes can be empty, while selecting the audio inputs and outputs (Audio IO) in the WebUI

### SEK

- The status LED is flashing red when the battery state is below 10 %
- In-Ear volume level and battery state are displayed on the home screen

### Spectera WebUI

- Support to select Audio IO without setting an Audio Link Mode first
- The battery icon for the SEK is flashing red when the battery state is below 10 %

## Improvements

### SEK

- Supports low impedance headphones

### Spectera WebUI

- LQI level 1 is now correctly shown when the link output is muted



## Implementation of Dante® Media Encryption

Dante Media Encryption protects the content of media flows across thousands of existing Dante devices using strong AES-256 encryption, safeguarding media from interception or unauthorized access.

To update the Dante modul of the Base Station, please refer to: <https://www.getdante.com/support/faq/how-to-update-your-dante-devices/>

## Bug fix

### SEK

- Serial number is shown to be "0000000000" if a connected SEK has a FW mismatch

### Spectera WebUI

- Fixed incorrect network state when setting IP mode to "manual" and gateway to "0.0.0.0"

## Known issues

### Base Station

- Sometimes Base Station reboots are encountered, if HF channels are muted over the Base Station UI (i.e. from the front panel of the Base Station)

### SEK

- MIC/Line input - noise may occure in the audio signal when instrument cables and microphones have insufficient shielding

### Spectera WebUI

- Under certain circumstances, the identify function in the WebUI keeps flashing and does not automatically stop after 10 seconds.



## Version 1.1.0

### New features

#### SEK

- Added Egypt country information to zone 14
- Added Mexico country information to zone 14
- Added audio improvement to mic/line path for better microphone and instrument compatibility

#### Spectera WebUI

- Added connection loss detection with automatic reconnect
- Detect version mismatch to Base Station and trigger automatic page reload
- Added failure log information and reset possibility

### Improvements

#### Base Station

- Added e-label to zone 5 (South Africa)
- Added e-label to zone 14 (Mexico)
- Make notifications acknowledgeable and reappearing, rotation through active notifications
- Add additional data to system information export

#### SEK

- Microphone input is muted, when no microphone is plugged in
- Reduced display updates when charging in CHG 70N-C
- Measures the impedance with an inaudible test tone

#### Spectera WebUI

- Added Audio Link Mode tables as tooltips
- Better drop-down visibility in Firefox
- Factory reset hint added to password dialog
- Improved headphone plug state
- Increased contrast of checkboxes for better visibility
- Removed peak traces from small RF scan
- Renamed “Support Info” to “Diagnostic Report”
- Replaced “Audio Net” and “Audio Network” by dynamic name (e.g. “Dante®”)
- Show RF mute switch in yellow, if RF is muted and at least one antenna is binded to this RF channel
- Sorted Audio Link Modes within drop-down fields according to datasheet
- Stored selected color theme within local storage



## Bug fix

### Base Station

- Changed display dim time to 2 minutes and display off time to 20 minutes
- Fixed status LED lighting up yellow during standby mode on RF property change
- Dante not working after wakeup from standby

### SEK

- Inverted mic input phase

## Known issues

### Base Station

- Sometimes Base Station reboots are encountered, if RF channels are muted over the Base Station UI (i.e. from the front panel of the Base Station)
- RF power is set to a minimum after factory reset
- Unable to set Audio Link Modes via LinkDesk after successful Base Station and mobile devices firmware update.

**Workaround:** Do not use the Spectera WebUI and LinkDesk in parallel during Base Station firmware update

### SEK

- Simultaneous bidirectional use cases might impact the noise floor on the mic/line input of the bodypack
- No low battery warning on device
- MIC/Line input - noise may occur in the audio signal when instrument cables and microphones have insufficient shielding
- FCC ID is missing for Canada license on the SEK display
- One SEK sometimes shows LQI = 2 when switching to 536 MHz
- The LED colour is red while charging

### Spectera WebUI

- The Spectera WebUI froze on Safari after macOS went into locked screen
- Overlap of RSSI min and dominant antenna



## Version 1.0.2

### Bug fix

- Added support for new SEK hardware revision

### Known issues

#### SEK

- Simultaneous bidirectional use cases might impact the noise floor on the mic/line input of the bodypack
- No low battery warning on device
- MIC/Line input - noise may occur in the audio signal when instrument cables and microphones have insufficient shielding



## Version 1.0.1

### New features

#### Base Station

- Add “Dante” page to Base Station menu to check status and IP addresses
- Add “Headphone” page to Base Station menu for user to select and listen into audio link via “Headphones” socket
- Show icon bar on “Main” screen to display status of Base Stations physical connections

#### SEK

- Automatic headphone impedance measurement with supply and compressor setting upon plug detection
- The mic input gain is shown in the five LED metering

#### Spectera WebUI

- Frequency Scan: small scans are clickable as shortcut to large scan page
- New “Audio Interfaces” widget
- New “Audio IO” matrix view
- New “Base Station” widget
- New “RF Configuration” widget (new small RF scans, more antenna information)
- New antenna properties (interference and temperature)
- Walk test mode added
- Matomo data collection added
- Default audio output selection added

### Improvements

#### Base Station

- Previous frequency-scan result is cleared when updating the configuration
- Don't allow setting all audio output interfaces to off
- Add further license regions

#### SEK

- Abort update, when link is lost

#### Spectera WebUI

- Audio Link Mode name “Deactive” changed to “None”
- Audio Metering: reset depending on device state
- Base Station update and Entitlement “Failed” messages moved to tooltip
- Better interference info due to new “residual power”
- Change mobile devices RF channel selection to checkbox



- Enable RF channel selection for mobile devices only if possible
- Frequency Scan: better info and symbols, timestamp added, CSV export enhanced
- Icons for info/check/warn/error were updated
- Info/Ident/Brightness aligned for mobile devices and antenna table
- More “Volume Min” values selectable
- New test tone steps within dropdown menu
- RF utilization changed from floor to ceiling and tooltip added
- RF frequency edit field grayed out during pending transfer
- Several improvements for Safari browser (Mac)

### **Bug fix**

- Several bug fixes and optimizations

### **Known issues**

#### **SEK**

- Simultaneous bidirectional use cases might impact the noise floor on the mic/line input of the bodypack
- No low battery warning on device
- MIC/Line input - noise may occur in the audio signal when instrument cables and microphones have insufficient shielding

