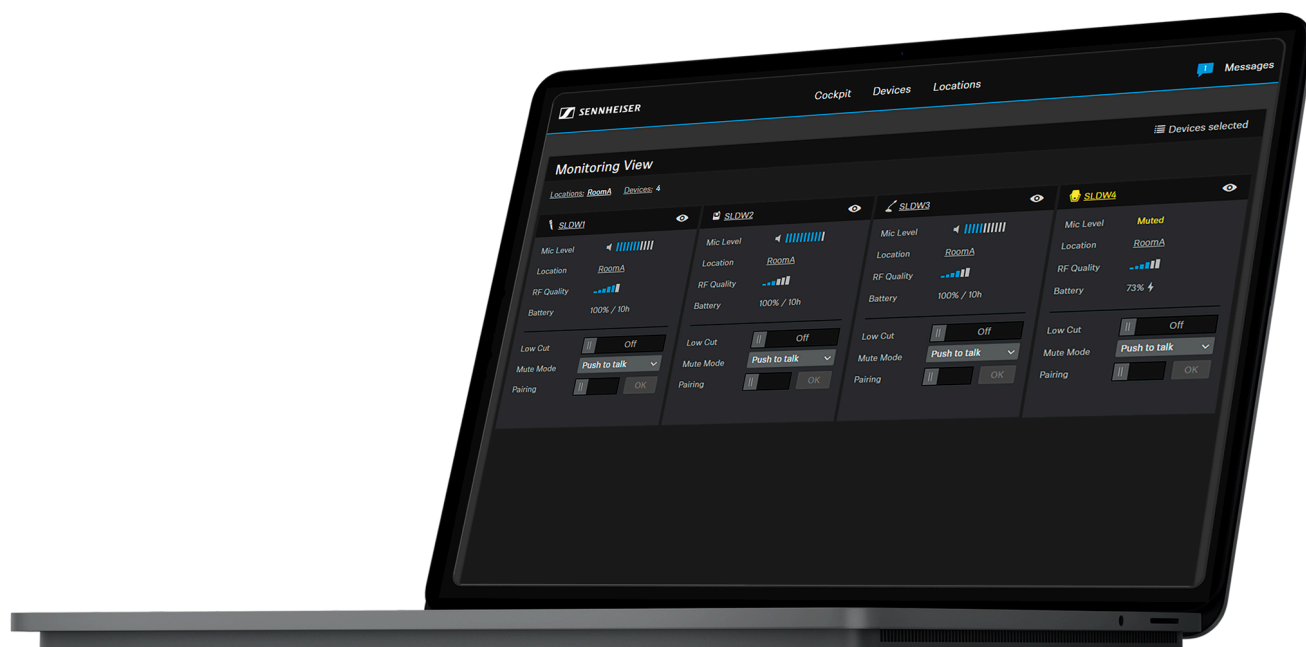




Control Cockpit

Release notes - version 9.1.0



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1. System overview & requirements

Server System Requirements

Recommended for Host PC	Client
• Intel i5 Dual Core processor or similar • 8 GB RAM (16 GB for large setups) • at least 1 GB hard disk space • Gigabit LAN interface • Windows 11, Windows Server 2022 or later • IPv4 network	• Google Chrome (latest version) • Mozilla Firefox (latest version) • JavaScript (must be activated)

Compatible Sennheiser Products

- Evolution Wireless Digital
- SpeechLine Digital Wireless
- TeamConnect Ceiling 2
- TeamConnect Ceiling Medium
- TeamConnect Bar S and M
- evolution wireless G3
- evolution wireless G4
- Digital 6000
- MobileConnect Manager

Software download

sennheiser.com/scc



2. Current release

Latest information on the Control Cockpit software, including detailed descriptions of features, bug fixes, and known issues.

Version 9.1.0

New Features

TC Bar

- **Default camera mode:**

A persistent mode that the device always starts in, ensuring a consistent experience without manual adjustments, even after a reboot or when waking from sleep.

- **Continuous Dante® stream**

This function enables continuous streaming of microphone audio over Dante®.

- **Dante® speaker output**

When enabled, this function routes the audio stream to external Dante® speakers and disables the TC Bar's internal speakers.

- **Energy saving modes**

With this setting, the standby behavior of the TC Bar can be adjusted depending on the desired scenario. The device can, by default, be set to **Low Power Mode**, **Eco Mode**, or **Always On Mode**.

Improvements

EW-DX

- **3rd party usability improvement for EW-DX:**

Improved user guidance on state and configuration of 3rd party access for EW-DX devices.

Known Issues

General

- When using static IP addresses, performing a factory reset on the device will let the devices disappear after claiming. Please click the “Refresh list” button in the device list to rediscover the device.
- Stopping the running Control Cockpit (CC) service via TrayApp takes comparably longer if CC is open in the browser.
- As the Control Cockpit user interface is protected by SSL encryption by default, a warning message may appear on the first start. This occurs because the certificate used for the encrypted connection is self-signed and created locally on your computer. The web browser is not able to verify the certificate authority. Alternatively,



you can use your own trusted certificate for the connection. For details, see the website: [security information](#) or upload the files directly in the installer.

- When configuring the proxy, only the `http` scheme is allowed as an authentication method.
- Firmware updates of devices may only be started from multiple selections of unique product types due to a restriction on mixed multiple selections.
- We recommend clearing the browser cache after the update. Under certain conditions the browser may keep old user interface elements in its cache. Especially, updating from Control Cockpit Version 1.0.0 requires manually clearing the web browser cache.

Evolution Wireless

EW-DX EM with secure firmware (4.0.0 or later):

- When switching from ‚Fixed IP‘ to ‚Automatic IP‘ mode, the device may not reappear online automatically after a network reset. Please click the „Refresh list“ button in the device list to rediscover the device.
- After initiating a factory reset, the device may still appear online in Control Cockpit until the reset is complete. Once finished, the device will remain online and appear as unclaimed. This also applies when the reset is triggered from the device display.
- If a network cable is unplugged while in Dante® Audio redundancy mode, the device display may continue showing the previous IP address. However, Control Cockpit will display 0.0.0.0 for IP, Subnet, and Gateway.
- On Dante-enabled devices, changing Dante® Network Mode and performing a factory reset may take up to one minute to complete.
- Changing the IP modes for both primary and secondary Dante® network settings in a very short time may prevent the last change from being applied.
- Booting non-Dante® devices without a network connection can take up to one minute.
- Sometimes, when connecting to the network, the device may take a while and show a Link-Local IP address before obtaining a valid IP.
- When switching between Dante® Network Modes „Single Cable“ and „Split Mode“, the device may appear offline and online multiple times in Control Cockpit as it completes the network reboot process.

EW-DX EM 2 Dante:

- After a factory reset the device details labels are greyed out. The function for editing the device, the channel or the location is disabled. Please restart the device or Control Cockpit Service to resolve the problem.
- After powering on EW-DX EM 2 Dante devices, their values for “Dante® Primary Settings”, Dante® Secondary Settings” and “Network Mode” cannot be saved for the first 40 seconds. During this time, the IP address of the Dante® device is grayed out in the “Device List” and the inline-edit of the device “Name” and “Location” are not editable in the “Device” details page. After the first 40 seconds, it takes 3-5 seconds for a change in Dante® settings to be saved. If the Sennheiser Control Cockpit v9.0.0 3/13 Sennheiser Control Cockpit Release Notes user changes other Dante® settings within these 3-5 seconds, they will not be saved.
- The “OK” button remains disabled when editing channel settings after a custom frequency is set. Please select another channel to re-enable the “OK” button.



EW-DX EM 4 Dante:

- After a factory reset, the device details labels are grayed out. The editing function for the device, channel or location is deactivated. Please restart the device or Control Cockpit Service to resolve the problem.

CHG 70N-C (firmware 3.0.0):

- The user needs to wait several minutes to perform a second firmware update (restarting the device does not reset this value).
- A maximum of 10 cascaded chargers are allowed for simultaneous firmware updates.

ew G3/G4:

- Operation of evolution G3 and G4 devices are limited to either one Sennheiser Control Cockpit installation or third party control.
- Evolution G3 and G4 devices can only connect within local subnets.

TeamConnect

TCC 2:

- When a TCC 2 is configured with a fixed IP and mDNS is off, enabling mDNS and switching the IP mode to automatic will require the TCC 2 to be manually added again using its IP address.
- For TeamConnect Ceiling devices, the 'Location' field entry must be set. An empty field cannot be saved.
- In demo mode, the 'Zone' functions of the TeamConnect Ceiling 2 devices cannot be edited.

TCC M:

- After a factory reset of an existing TeamConnect Ceiling Medium device, the device's factory name and locations will not be displayed until the device is reclaimed.
- If a TCC M has already been claimed, the "Identify" function will not work if attempted before claiming the device. No UI feedback will be provided. Please claim the device first before using the "Identify" feature.
- The device access password cannot be changed for multiple devices at the same time in a multi-selection scenario.

TC Bar:

- When connecting both ports of the TC Bar M to a common switch, there is a risk of creating loops. Make sure your TC Bar M is always connected to two different networks that do not run via a common switch. For more details see chapter Network Loops of the user manual.
- If the IP of the TC Bar is grayed out or the TC Bar cannot be controlled via Control Cockpit, the control service may not be accessible, a restart of the TC Bar is recommended.
- The setting of the sound profile in Control Cockpit has no influence on audio streaming via Bluetooth (A2DP profile).



- If you deactivate the Dante® protocol via Control Cockpit, the TC Bar must be restarted to completely terminate the audio stream.
- The license information for already claimed TC Bar devices can not be retrieved.

SpeechLine

- After (re-) discovering SLDW/MCR devices, the device status can sometimes be displayed as “offline”. Please reload the page and if the problem is not solved press the “Refresh list” button to display the current device status.



3. Previous releases

Information on the previous versions of the Control Cockpit software, including detailed information on included features, bug fixes, and known issues.

Version 9.0.0

New features

Evolution Wireless Digital

EW-DX EM:

- As of firmware version 4.0.0 for EW-DX EM / EM 2 Dante / EM 4 Dante devices, the new secure Sound Control Protocol v2 (SSCv2) will be applied automatically.
- After the firmware update, the devices must then be claimed for the Control Cockpit instance at the first start.
- The 3rd party media control access for EW-DX EM devices (EM 2 / EM 2 Dante / EM 4 Dante) is deactivated by default. You can activate the access by using two encryption methods:
 - Secure: encrypted protocol SSCv2 by using a username and password (recommended).
 - Legacy: unsecured control protocol SSCv1 without password protection and use at own risk (not recommended).

i In order to ensure smooth device discovery and connectivity, please make sure your firewall is configured correctly to allow **inbound** and **outbound** traffic on ports 443 and 5353. For more information, please refer to the user [manual](#).



Version 8.3.1

New features

TeamConnect Bar S and M

- The new feature **Noise Suppression** detects and suppresses unwanted static background noise (e.g. HVAC, fans etc.).
- The feature **Noise Gate** has been extended by a new Range parameter. The parameter defines the degree of Noise Suppression below the set threshold for the entire Noise Gate.
- Further mute features have been implemented:
 - Internal Microphone Mute: mutes only the device's internal microphone input.
 - All Microphones Mute: mutes all internal and external microphone channels.

i If your device has an older firmware, this must be updated before you can use the new mute features.

- The use of the infrared remote (IR) control can now be activated and deactivated remotely.

Bug fix

- Collecting log and settings files as a compressed file via TrayApp sometimes resulted in an empty zip archive.



Version 8.2.0

New features

TeamConnect Bar S and M

- **Active Channel Indication:**

In the 'Automix Priority' box, the currently active channel is indicated by a green dot above its channel setting.

Improvements

Reclaiming for SSCv2

- The reclaiming process for supported SSCv2 devices has been optimized.

Bug fix

- The issue of needing to reclaim the TC Bars after a reboot has been fixed.



Version 8.1.1

Bug fix

- With this version of the Control Cockpit, the PoE function for the TC Bar M has been removed due to PoE compatibility issues. The TC Bar S is not affected by this.



Version 8.1.0

New product support

Support for the new products of the TeamConnect family:

- TeamConnect Bar S and M are the most flexible all-in-one devices for small and mid-sized meeting rooms and collaboration spaces.

New features

New audio feature for TCC M: Intelligent Noise Control:

- The intelligent noise control detects and suppresses unwanted static background noise (e.g. HVAC, fans, etc.) depending on the intensity of the room noise level.



Version 8.0.1

Bug fix

- Issue with Speechline devices appearing offline after manually adding or restarting the Control Cockpit service.



Version 8.0.0

New product support

Support for the new products of the EW-DX family:

- With added support for the Evolution Wireless Digital EM 4 DANTE (EW-DX EM 4 DANTE), Sennheiser Control Cockpit now supports monitoring and control of the complete EW-DX family.
- Firmware version 3.0 or higher is required

New features

UI extension for cascaded CHG 70N-C Chargers:

- The CHG 70N-C chargers are now supported as cascaded units in the Control Cockpit user interface.
- The cascade is shown in a corresponding view in which you can see and configure all cascaded chargers from a single point.



Version 7.1.1

New feature

- Now supporting silent installation.



Version 7.0.0

New product support

Support for the new product from the TeamConnect Family:

- TeamConnect Ceiling Medium (TCC M)

New features

Device Claiming:

- The feature is introduced to bind the device to a specific Control Cockpit installation, preventing any unauthenticated device control within the network.
- In order to configure TeamConnect Ceiling Medium devices, click the “Claim Device” button in the device list, enter the factory default device password and set your individual device password. You can find the factory default device password in the device manual and in the quick guide. Device control communication is encrypted and can not be accessed without the set password.

3rd Party Device Control:

- The 3rd Party device control access for TeamConnect Ceiling Medium devices is encrypted and protected using username and password. To set a 3rd Party device control password, use the “Access” tab in the device configuration page.

Power over Ethernet (PoE):

- The indicator for TeamConnect Ceiling Medium shows, if sufficient power for daisy chaining is supplied and if daisy chaining is currently in use.



Version 6.0.1

Bug fix

- New firmware updates not shown in the list: issue has been fixed.



Version 6.0.0

New product support

Support of new Evolution Wireless Digital (EW-D) products:

- EW-DX EM 2 Rack Receiver
- EW-DX CHG 70N - network-enabled charger
- EW-DX SK/ SK 3-pin - bodypack transmitter
- EW-DX SKM/ SKM-S - handheld transmitter

New Evolution Wireless Digital features

Enable Sync to TX:

- Feature to synchronize the following audio settings to the transmitter:
 - **Lock:** locks the user interface on the transmitter
 - **Trim:** controls the gain of multiple transmitters connected to one receiver
 - **Low Cut:** cuts out all of the low sound below a certain frequency
 - **Mute Config:** mutes the AF or RF function on the transmitter
 - **LED:** controls the active link LED on paired handheld and bodypack transmitters
 - **Cable Emulation:** emulates the influence of a cable by different types

Link Density Mode:

- Doubles the number of usable carrier frequencies in the available spectrum

Audio Encryption:

- activates AES-256 encryption between transmitter and receiver



Version 5.1.0

New features

- The new “Remote Pairing” feature allows transmitters and receivers to be paired using a fully remote control from the “Device List”, the “Device Details List” and the “Monitoring View”. This feature is available for SpeechLine devices (firmware version 4.1.1 or later) and network enabled chargers „CHG 2N/4N“ (firmware version 3.0.0 or later).
- The “Location” field now supports entries up to 255 bytes length including any UTF-8 characters.
- The device location is now also stored on the devices. This feature is available for SpeechLine devices (firmware version 4.1.1 or later) and TCC 2 devices (firmware version 1.8 or later). Please refer to “Known Issues” for handling conflicts with location names.
- A link has been added for users to provide feedback.

SL Multi-Channel Receiver DW:

- The “Identify” action can now be triggered on any MCR channel, even if the receiver is currently in “Pairing Mode”.
- Different network modes (“single cable”, “audio redundancy”, “split”) can now be switched using Sennheiser Control Cockpit.
- The Dante® primary and secondary IP settings can now be edited.

New TeamConnect Ceiling 2 features:

- The Dante® primary and secondary IP settings can now be edited.
- The Dante® factory settings can now be restored via the reset button “DANTE Default Settings”.
- Different network modes (“switched”, “audio redundancy”) can now be switched using Sennheiser Control Cockpit.



Version 5.0.1

Bug fix

- Control Cockpit version 5.0.0 displayed an incorrect numeric value for “Active Links” in the “Cockpit View” under certain conditions. This bug has been fixed.



Version 5.0.0

New features and improvements

Enable Sync to TX:

- Improved user assistance in error tracking for firmware update fails by means of detailed alerts
- Microphone firmware updates can now be run from multiple selected chargers at the same time
- Pairing of multiple devices can now be started in parallel out of the Device List
- Support of the new network-enabled charger “CHG 2N”
- Support of “MobileConnect Manager (MCM)” monitoring status

New functions:

- “Remote Power Down” remotely switches off SL DW transmitters.
- “TX Auto Power Down” automatically switches off SL DW transmitters after a set time, if no link is active.
- “Power Button Lock” remotely locks the power button on SL DW portable transmitters.
- “Pairing Button Lock” remotely locks the pairing button on SL DW portable transmitters.

SL Rack Receiver DW / SL Multi-Channel Receiver DW:

- Support of the new feature “Remote Power Down”
- Support of the new feature “TX Auto Power Down”
- Support of the new feature “Power Button Lock”
- Support of the new feature “Pairing Button Lock”

SL Multi-Channel Receiver DW:

- Support of resetting individual channels to audio default settings

ew G3/G4:

- Active Mute status on G3/G4 receivers (“Microphone muted”) renamed to “RX Mute activated”
- Additional status available for G3/G4 receivers (“TX Mute”)

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Version 4.3.0

New features

Room in use:

- The Locations view now includes an indicator for each location that shows the current activity of devices in real time.

Interface independency:

- From now on, device firmware updates do not necessarily require a Sennheiser Control Cockpit update, unless the new features of a firmware should be used.

TeamConnect Ceiling 2:

- Support of the “Room in use” feature

SL Multi-Channel Receiver DW:

- Support of the “Room in use” feature

SL Rack Receiver DW:

- Support of the “Room in use” feature



Version 4.1.0

New features

TeamConnect Ceiling 2:

- Automatic adjustment of the Dante® input gain setting for internal far-end detection according to the level and noise floor of the far-end audio.

SL Multi-Channel Receiver DW:

- Implementation of the **Walk Test** mode
- Support of the notification if a transmitter is placed in a charger of a different location
- Support of the **Out of range detection** mode



Version 4.0.0

New features and improvements

- Optimized device state visualization within the Device List
- Implementation of an additional language (Chinese)
- **Location based mute**: Devices of one location can be configured to be muted simultaneously

TeamConnect Ceiling 2:

- Support of the **Location based mute** feature
- Support of internal device clock synchronization

SpeechLine Digital Wireless:

- Support of the **Location based mute** feature

New product support

Support for the new product from the SpeechLine Digital Wireless series:

- SL Multi-Channel Receiver DW

Support for the new product from the Digital 6000 series:

- Support of the EM 6000 two-channel receiver



Version 3.3.0

New features and improvements

- Optimized navigation between different device views and pages
- Monitoring view now accessible from the Selected Devices page
- Export of Device List to Excel
- Optimized indication of battery information
- Display of MAC address in the custom columns
- Device List can be sorted by device information labels

TeamConnect Ceiling 2:

- Dante® input gain adjustment for using an external AEC reference channel via the Dante® input of the TCC2
- Display of far-end activity when configuring an external AEC reference channel
- Optimized exclusion zones setup: zones can be edited individually
- Optimized orientation setup: reduced complexity of user interface by replacing the two rotate buttons with only one button
- Chargers in Device List can be filtered by “time to full” via link from the Cockpit view

SpeechLine Digital Wireless:

- New notification if a transmitter is placed in a charger of a different location
- Configuration of input sensitivity of the transmitters
- New mute features: Push to talk and Push to mute
- Mute devices remotely via the Control Cockpit



Version 3.2.0

New features and improvements

- “Battery remaining” indication in Device List moved to custom columns
- Battery low / mute / bad link indicated as labels now
- New device state indication:
 - grey: device offline
 - green: device online – device in good state
 - yellow: device in warning state red: device in error state
- “Filter by wireless state” box exchanged by “Filter by device state” box
- Release notes and license agreement for firmware updates
- Harmonized device location property handling for all devices
- Link to cockpit release notes available in info dialog
- Link state displayed graphically with an icon
- “Filter by type” box: “receiver” only, instead of handheld, bodypack, etc.

TeamConnect Ceiling 2:

- Configuration of up to 3 horizontal exclusion zones
- Audio output settings for digital output signal (Dante)

SpeechLine Digital Wireless:

- Multi-selection of chargers now possible

ew G3/G4:

- Device access optimized for parallel access with WSM to same device (SCC and WSM can access devices at the same time from different computers, not from the same computer)



Version 3.1.0

New features and improvements

- Improvements on device selected page for mixed multi selections (accordion handling, group identify)
- RF power property is shown in the device lists custom column for radio receivers
- 2nd configurable custom column in device list
- Device list can be filtered for „unknown device“

TeamConnect Ceiling:

- Feature support added:
 - LED color configuration
 - installation orientation
 - setting up a vertical exclusion zone
- Monitoring view support
- Optimized firmware update

SpeechLine Digital Wireless:

- Transmitter out of range detection with e-mail and SMS notification
- Improved visualization of the Walk Test mode.

ew G3/G4:

- Feature support added stationary transmitters:
 - Mono/Stereo configuration
 - Input sensitivity
 - RF power output configuration
- Monitoring view support



Version 3.0.0

New product support

- TeamConnect Ceiling 2
- evolution wireless SR IEM 300 G3 and SR IEM G4 stationary transmitters

New features and improvements

- Free multi-selection of devices of any kind and editing on the device details page
- Configurable notification of unsynchronized SLDW followers detection
- Bulk Delete of devices in device list
- Visualization of active Bank, Channel and Frequency of evolution wireless receivers
- Demo Mode extended to all newly supported devices



Version 2.0.1

Bug fixes

- Control Cockpit related firewall configuration issue solved on the windows firewall
- Affected installations:
 - Windows 7
 - Windows 10
 - Windows Server systems having the windows firewall in operation



Version 2.0.0

New product support

- evolution wireless G3 and G4 receiver

New features and improvements

- E-mail/SMS notifications can be organized in profiles
- Global system password to protect user interface access
- Sennheiser Control Cockpit registration
- Modernized visual design with optimized filter bar in device list
- Extended switchable column in device list by product family and radio signal
- A started transmitter pairing process on SLDW receivers can be cancelled
- Optimized tab navigation on device details page

Recommendations

- To avoid conflicts of available receiver devices we recommend to install the tool only once in a network.
- Recommended Browser types: Latest version of Google Chrome or Firefox.



Version 1.3.1

Bug fix

- Control Cockpit is now able to communicate to devices in another routed network segment.

Recommendations

- To avoid conflicts of available receiver devices we recommend to install the tool only once in a network.
- Recommended Browser types: Latest version of Google Chrome or Firefox. The Edge and Internet Explorer currently show several data refresh and formatting issues.



Version 1.3.0

New features and improvements

- Monitoring View for live event monitoring
- System Notifications via E-mail and SMS
- Multi selections based on pressing „identify“ on the physical devices
- Battery health and battery cycles values shown in the device list
- Rooms are searchable in the location list now
- Manual Firmware Image File Upload into the Control Cockpit possible in addition to the update server
- “Add Device” via given IP range
- “Add Device” via CSV file import
- Some bug fixes and cosmetics

Recommendations

- To avoid conflicts of available receiver devices we recommend to install the tool only once in a network.
- Recommended Browser types: Latest version of Google Chrome or Firefox. The Edge and Internet Explorer currently show several data refresh and formatting issues.



Version 1.2.1

Bug fixes

- Control Cockpit version 1.2.0 did not show the Master/Follower status in the device list for SpeechLine receivers with firmware 2.3.1

Recommendations

- To avoid conflicts of available receiver devices we recommend to install the tool only once in a network.
- Recommended Browser types: Latest version of Google Chrome or Firefox. The Edge and Internet Explorer currently show several data refresh and formatting issues.

Device firmware updates

1. If your computer on which the control cockpit is installed does not have access to the internet you can also download a firmware image on another computer from the Sennheiser Download Location sennheiser.com/download
2. Then copy the `.bin` file on the Control Cockpit Computer to `%public%\Public Documents\Sennheiser\Firmware`
3. After 30 sec the new firmware appears in the list of available firmware images with the notice "manually added".



Version 1.2.0

New features and improvements

- Manual RF configuration of receivers:
 - For most efficient use of the RF spectrum the receivers can be synchronized with each other.
- New labels in the device list:
 - Multiple masters detected / Receiver unsynchronized / RF master offline / No RF master configured
- Automatic notification as soon as a new speechline device firmware file is available.
- “Last online” timestamp information available in the device list.
- Demo Mode which simulates a showcase of devices.
- Devices can be manually deleted from device list.
- Multi device identify available in the device list.
- Start device pairing mode available in the device list.
- Location names are generally clickable now. It results in a multi selection of devices in the given location.
- Devices can be remotely restarted from the control cockpit.
- Several Bug fixes and layout improvements.

Recommendations

- To avoid conflicts of available receiver devices we recommend to install the tool only once in a network.
- Recommended Browser types: Latest version of Google Chrome or Firefox. The Edge and Internet Explorer currently show several data refresh and formatting issues.

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1. If your computer on which the control cockpit is installed does not have access to the internet you can also download a firmware image on another computer from the Sennheiser Download Location sennheiser.com/download
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3. After 30 sec the new firmware appears in the list of available firmware images with the notice “manually added”.



Version 1.1.0

New features and improvements

- Support of the CHG 4N network-enabled charger
- User Interface with two new languages available: German and French
- Access to the Sennheiser Firmware Update Server now supports a network proxy
- Device and location name of a device can be set in the Control Cockpit now
- Customizable column in the device list with selectable values: Link Status, Battery level, Time to full, Sync status (“Master” or “Follower”), Firmware version, IP address, Serial number
- New Control Cockpit update wizard which automatically checks for new tool updates and guides the user through the update process.
- The Control Cockpit can be updated by the operating user without administrator privileges on the computer hosting the Control Cockpit Service.
- User level message system introduced. Messages popup up in the user interface categorized as alerts, notifications and events:
 - An alert is shown if a battery of an active mic is low.
 - A notification is shown if a new device is added to the Cockpit.
 - A notification is shown as soon as a new Control Cockpit Version is available.
 - An event is shown as soon as a transmitter in a charger slot is fully charged.
- The new message log shows the history of all user level messages sent within the last 4 weeks.
- “Remaining battery life” cockpit chart now with 4h threshold instead of 2h.
- Each device property box on the “Devices selected page” provides a short help text.
- Responsive layout on mobile devices improved
- Handling of IP address changes of known devices improved
- System stability generally improved
- System performance generally improved

Recommendations

- To avoid conflicts of available receiver devices we recommend to install the tool only once in a network.
- Recommended Browser types: Latest version of Google Chrome or Firefox. The Edge and Internet Explorer currently show several data refresh and formatting issues.



Device firmware updates

1. If your computer on which the control cockpit is installed does not have access to the internet you can also download a firmware image on another computer from the Sennheiser Download Location `sennheiser.com/download`
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Version 1.0.0

Recommendations

- To avoid competition conflicts of available receiver devices we recommend to install the tool only once in a network

Device firmware updates

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3. After 30 sec the new firmware appears in the list of available firmware images with the notice “manually added”.

