Wireless Systems Manager 4.8.2

System Requirements

Windows	Mac
Windows 10 (32 Bit/64 Bit)	macOS 14 Sonoma
Windows 11 (32 Bit/64 Bit)	macOS 15 Sequoia
8 GB RAM	8 GB RAM

Compatible Sennheiser Products

Product / Series	Required Firmware Version (or higher)
Digital 9000	4.0.1
Digital 6000	EM 6000: 3.2.1 L 6000: 3.0.1
EW-DX	EW-DX EM 2: 3.0.2 EW-DX EM 2 Dante: 3.0.2 EW-DX EM 4 Dante: 3.0.2
EM 373x (COM) + EM 373x-II (COM)	2.2.0
Series 2000	1.8.1
Series 2000 IEM	1.8.1
ew 300 G4	1.2.0.1
ew 500 G4	1.2.0.1
ew IEM G4	1.2.0.1
ew 300 G3	1.8.0
ew 500 G3	1.8.0
ew 300 IEM G3	1.8.0

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New Features

- The offline HTML help files within the application have been updated with a new design for improved usability and a modern interface

Improvements and fixes

- Improved firmware update process for EW-DX devices to prevent the application from freezing when a firmware update fails on the devices. This improvement requires both WSM v4.8.2 and firmware v3.0.1 or higher
- Fixed an issue where EW-DX series scans would not stop automatically, requiring manual termination
- Fixed an issue where the second WSM instance became unresponsive during parallel scanning with EW-DX devices
- Fixed an issue where the AF bar graph remained stuck at the last input level when using AF mute mode of EW-DX devices
- Updated TV channel list in RF Spectrum Analyzer to support EW-DX V5-7 and Y1-3 frequency ranges
- Fixed an issue with RF Spectrum Analyzer when the user selects multiple non-consecutive TV channels for the scan
- Resolved inconsistencies in channel sorting behavior for EM 6000 devices across different operating systems

- Fixed an issue where scenes in configuration files from older version were not displayed correctly or saved properly after renaming
- Fixed an issue where deleted channels could not be re-added in the channel sorting window for EM 6000 devices
- Fixed an issue where coordinated frequencies in Professional Setup did not match those sent to SR devices
- Fixed an issue where saved configuration files did not display the WSM icon on macOS. Users may need to check whether the default app for opening .wsm files is set to WSM

Known Issues

- Managing EW-DX devices may encounter issues when using multiple WSM clients on the same network. We recommend using only one WSM client at a time for setup, although subsequent monitoring from a second client remains unaffected.
- Changing network mode from 'auto' to 'manual' does not consistently apply on EW-DX devices. Adjusting manual IP settings directly on the device is recommended for now.
- Disappearance of remote access indicators (red dots) post-match configuration, though remote access remains functional.
- In some infrequent circumstances on MacOS, the application might terminate unexpectedly during match configuration. It is recommended that users secure their configuration file by saving it prior to initiating Match Configuration.
- For EW-DX firmware below v3.0.3, altering device properties alongside LD Mode may not apply changes correctly. We recommend to modify device properties separately for reliable operation.

Previous releases

Wireless Systems Manager 4.8.0

- New Features
  - EW-DX devices are now supported in Channel Sorting, allowing users to easily arrange the monitoring view (requires EW-DX firmware v3.0.0 or above)
  - Added sync parameters 'Name' and 'Frequency' to channel properties of EW-DX devices for user-defined synchronization
- Improvements and fixes
  - Updated UI background colors for enhanced UI consistency and visual appeal
  - Improved bar graph animation for smoother visual representation of RF and AF levels
  - Enhanced responsiveness for displaying warnings from EW-DX devices in the monitoring view
  - Fixed an issue where the subnet mask of EW-DX devices was displayed incorrectly in device properties
  - Fixed an issue, ensuring correct frequency allocation and synchronization between WSM and SR G3/G4/2050 devices in the Professional Setup
  - Fixed an issue when releasing remote access in shared mode for EW-DX devices on MacOS
  - Fixed an issue in the Match Configuration on MacOS that caused the application to crash in certain scenarios
  - Fixed an issue where channel sorting behavior differed across operating systems in a certain scenario
- Known Issues
  - Managing EW-DX devices may encounter issues when using multiple WSM clients on the same network. We recommend using only one WSM client at a time for setup, although subsequent monitoring from a second client remains unaffected.
  - EW-DX EM 4 devices may not appear in the system window when launching WSM from an old app version's configuration file. However, they appear when WSM is started without a configuration or with the current version's configuration file.
  - Changing network mode from 'auto' to 'manual' does not consistently apply on EW-DX devices. Adjusting manual IP settings directly on the device is recommended for now.
  - During match configuration, EW-DX EM 4 devices may experience several issues:
    - Manual IP settings may revert to automatic ones despite explicit configuration to manual mode
    - Channel property frequency lists do not consistently update
    - Devices occasionally do not display in the master scene following match configuration, requiring actions such as 'expand all' or 'refresh device list' to visualize
    - Disappearance of remote access indicators (red dots) post-match configuration, though remote access remains functional
  - Parallel firmware updates on multiple EW-DX devices with firmware v3.0.0 may cause the application to freeze, requiring a forced restart of both WSM client and devices. Updating the devices individually is recommended to avoid this issue.
  - On MacOS 14 and Windows 11, scans with EW-DX series devices with firmware v3.0.0 in Professional Setup do not automatically terminate. Users must manually abort the scan to proceed, though functionality resumes normally afterward.
  - EW-DX devices with firmware v3.0.0 may display progressively lower scan data results.
  - In some infrequent circumstances on MacOS, the application might terminate unexpectedly during match configuration. It is recommended that users secure their configuration file by saving it prior to initiating Match Configuration.
  - There could be instances where altering device properties in conjunction with LD Mode doesn't effectuate these changes on the device. As a result, users should consider modifying device properties separately from the LD mode for reliable operation.

Wireless Systems Manager 4.7.1

- Improvements and fixes
  - Discontinued WSM monitoring option of EM9046 Dante audio stream, direct RTP stream listening remains.
  - Improved installer notarization handling for both Windows and MacOS
  - Enhanced reliability of EW-DX device detection via the Device API
  - Improved stability of Remote Access for EW-DX devices
  - Fixed premature switching of WSM to offline mode before EW-DX detection
  - Fixed several issues of G4 devices in Match Configuration procedure
  - Fixed crash during device position changes in Match Configuration
  - Enhanced dynamic of live data for EW-DX devices for smoother monitoring
  - Fixed issue of missing monitoring data for EW-DX devices
  - Restored red panel background for active battery warnings for EW-DX device
  - Resolved false "Application already running" dialog issue on application launch
- Known Issues
  - App reverts Dante network mode of EW-DX to 'Single Cable' after restart
  - Dynamics of AF peak warnings of EW-DX are delayed by a few seconds, while the AF meter continues to show good dynamics
  - During Match Configuration, some parameters fail to apply correctly when using EW-DX with firmware version 2.0.1. This issue will be fixed in upcoming firmware updates
  - Changing network mode of EW-DX from auto to manual via WSM doesn't apply on device. Manual IP can be set on device
  - During Match Configuration, SR300 G3 is not automatically detected. Refreshing the device list resolves the issue
  - In some cases, EM6000 scan in the Professional Setup may run multiple times to achieve the correct scan result
  - In some cases, scanning with an ew G3 device results in scan gaps
  - In certain shutdown and restart scenarios with multiple WSM clients, the application displays default value instead of actual channel frequency from the EW-DX devices

Wireless Systems Manager 4.7.0

- New features
  - Support of EW-DX EM 2 Dante and EW-DX EM 4 Dante including
    - Device discovery
    - Monitoring
    - Device settings: incl. new 'Dante' and 'Booster Feed' settings
    - Channel properties
    - Sync settings
    - Frequency coordination with the 'Professional Setup'
    - Integration to the 'Spectrum Analyzer'
    - Integration to the 'RF Level Recorder'
    - Firmware updates
- Improvements and fixes
  - Introduced build numbers in the versioning of WSM
  - Improved functionality of the "expand/collapse all" feature in the systems window
  - Introduced support for the EW-D SK, SKM(-S) and SKP transmitters in the Professional Setup
  - Introduced double click option to add devices in the configuration wizard
  - Fixed multiple issues in the Professional Setup hindering the correct transmission of parameters to EM G3/G4 and SR 2050 devices
  - Fixed an issue on Mac where the application crashed after deleting the scan analysis results
  - Fixed an issue on Mac where the app became unresponsive after a prolonged period in Mac lock screen
  - Fixed an issue on Mac with the display of tool tips in specific scenarios

Wireless Systems Manager 4.6.0.4

- New features
  - Introduced support for the BA70 charging module in the L6000 rack charger.
  - Enabled bulk operations for restart, reset and audio reset on multiple selected EW-DX devices at once.
- Improvements and fixes
  - Updated the default device spacing parameter for more accurate calculations
  - Improved functionality of spare frequencies
  - Refined L6000 module names for better clarity
  - Enhanced warning messages during monitoring of EW-DX and EM 6000
  - Fixed a detection issue with EW-DX occurring due to an existing Sennheiser Control Cockpit installation on the same device or computer
  - Fixed an issue in Professional Setup where previously muted channels would unintentionally unmute after a successful scan
  - Fixed an installation issue of WSM on Windows specific to South Korean computers
  - Fixed an issue in the Professional Setup hindering RF mode updates for EW-DX and EM 6000 in specific scenarios

Wireless Systems Manager 4.6.0

- Support of EW-DX EM 2 including
  - Device discovery in the network
  - Remote configuration of device settings
  - Remote configuration of channel properties
  - Integration to the "Professional Setup"
  - Monitoring
  - Provision of firmware updates
  - Integration to the "Spectrum Analyzer"
  - Integration to the "RF Level Recorder"
  - Note: The features "Easy Setup" and "Channel Sorting" with EW-DX are not yet supported in this release.
- It is now possible to expand and collapse all channels in the system window at once.
- Added shortcuts for "Save As" and "Refresh Device List" functions.

Wireless Systems Manager 4.5.3

- It is now possible to dynamically move the line between the device list and the chart area in the professional setup.
  - The user interface for switching between the already existing views has been improved and new function buttons have been added
- It is now possible to customize the order of the columns in the tabs of the professional setup
- Hovering columns header in the professional setup now displays the full name in a tooltip
- Hovering buttons in chart area of the professional setup now displays the functionality in a tooltip
- New scenes can be added by clicking the + icon on the right hand side of already existing scene tabs
- Added a regional XML grid for South Korea to the professional setup
- Installing or updating the application no longer requires a system reboot on Windows
- Several stability improvements
- Several user interface improvements

Wireless Systems Manager 4.5.2

- It is now possible to delete multiple selected devices from the device list
- Hovering messages in the message tab will now show the full message in a tooltip
- EM 9046: For consistency with the display of the device, "TX Mute" has been renamed to "No Signal"
- The report in professional setup has been transferred to HTML format
- A bug where a duplicate folder structure appeared in the user's documents folder has been fixed
- Mac: The remote access settings and the password for remote access are now kept across installations
- Several tweaks concerning remote access and device communication, especially for the Digital 6000 series

Wireless Systems Manager 4.5.1

- Update of messages and their urgency
- Update of regional XML grid for Japan
- Support for MAC on new ARM processor technology
- Reworked marker behavior in Professional setup
- Fixed some property misbehavior of 3000s Series in regard to configuration files (noise threshold, squelch and match configuration)
- Extended EM 9046 network detection through different segments

Wireless Systems Manager 4.5.0

- Professional Setup
  - WSM now detects changed values in the system during professional setup. Users can decide to either continue with the original values or go with the changed ones.
  - WSM now also supports import of scan data from:
  - Shure Wireless Workbench (*.sdb2)
  - Rohde & Schwarz FSH/FPH (*.csv)
  - RF Explorer (*.csv)
  - Tektronix RSA (*.csv)
  - Aim TTi (*.csv)
  - Anritsu (*.csv, *.spa)
- Support of new new frequency ranges C-TH for ew IEM G4 and Cw-TH for ew 300-500 G4
- Users now get notified via the messaging system whenever a calculation-relevant property has changed
- Improved workflow of saving files in Spectrum Analyzer and RF Level Recorder
- MAC specific: introducing the typical installation workflow using drag&drop to the Application folder.
  Please note that all previous installations (< 4.5.x) need to be removed before the drag&drop installation can be performed.
- Professional Setup
  - Resolved an issue where sometimes IM spacings have not been shown and respected in calculation results
- Spectrum Analyzer
  - Scans of EM 3732 are shown as a continuous graph now instead of being sliced into pieces
  - No more gaps appear in scans with EM 6000
- The first frequency in EM 9046 scan file (.csv) is saved correctly now
- MAC specific: Pressing "Enter" in properties window works now

Wireless Systems Manager 4.4.7

- Professional Setup
  - The lower and upper frequency range of system regions are now calculated based on selected carrier spacings and system frequency ranges of containing channels
  - Users are now notified on changes affecting correlated system regions
  - Analyzing the frequency spectrum does now work properly with configuration files containing a spectrum scan
- Remote Access
  - When using the password functionality for remote access, users now also need to enter the password during the start of WSM in case the remote access is active
- The default configuration is now remembered through update installations of WSM

Wireless Systems Manager 4.4.6

- Support of new macOS Catalina (10.15)
- EM 6000: Support of new transmission mode: Link Density (LD)
  - in Device Properties
  - in Professional Setup
  - in Monitoring Tiles
  - in Match configuration
- Messages Window
  - The tab is now highlighted when critical (red) messages are received
  - All messages sent from devices or channels are displayed in an aligned format now
- Professional Setup
  - Spacing parameters, except 2Tx IM(3), can be set to 0 kHz now for all devices
  - Spacing parameters can now have a max value of 975 kHz for all devices
  - Creating and maintaining empty system regions is now possible
  - System regions do not change their lower and upper frequency anymore when adding or removing channels
- Spectrum Analyzer
  - RF Threshold is now adjustable for digital devices
- Invalid error messages from old NET1 device support removed
- On match configuration the grid system of the selected scene will not change anymore
- Improved EM 6000 and L 6000 detection
  - We continue working on this issue which still happens from time to time

Wireless Systems Manager 4.4.5.1

- Some users experienced some issues starting WSM after installation. Those where caused by a missing Microsoft Visual C++ update. From 2019-06-27, we provide a new installer, including the required components of Visual C++. We recommend all users use the latest installer available.

Wireless Systems Manager 4.4.5

- Configuration enhancements
  - Double click .wsm files to start WSM with the clicked configuration
  - Start WSM with a specific configuration via cmd command
  - Configurations remember the last selected scene
  - Possibility to define a .wsm file as default configuration
  - Enable "Remote Access" is switched on by default
- Performance improvement by rework of the internal messaging system
- Bug fixes (see some highlights listed below)
  - Resolved scanning issues with Firmware 2.2.4 of EM 6000
  - Introduced missing Frequency range A5-A8 for SK/SKM 6000/9000
  - In device configuration EM 3732 frequencies are not set to default anymore after loading a configuration

Wireless Systems Manager 4.4.4

- Support of new bodypack SK 6212
- Support of new L 6000 charging module LM 6062 and associated battery pack BA 62
- Support of new frequency range K+ for ew G3 and 2000 series
- Bug fixes
- L 6000 warnings are now updated without restarting WSM
- L 6000 "Battery Too Hot" warning is now working properly when storage mode is set
- EM 6000 Double Dante ports are not changing IP on match configuration anymore

Wireless Systems Manager 4.4.3

- Support of new frequency range L-US for SKM 5200-II, SK 5212
- Support of new frequency range A5-A8 US for SK(M) 6000 and SK(M) 9000
- Support of new frequency ranges Gw1 and Aw+ for Series 2000
- Compatible with macOS Mojave
- Performance improvements

Wireless Systems Manager 4.4.2

- Corrected ew G4 frequency ranges

Wireless Systems Manager 4.4.1

- Support of ew G4 series

Wireless Systems Manager 4.3.2

- Support of EM 6000 firmware 2.0

Wireless Systems Manager 4.3

- Support of Digital 6000 series (EM 6000, SK/SKM 6000)
- Support of L 6000 charger

Wireless Systems Manager 4.2.6

- Bug fixes

Wireless Systems Manager 4.2

- For Digital 9000 systems with firmware version 3.0 or higher: Audio streaming to Wireless System Manager version 4.2
- Support of Digital 9000 Dante module (EM9046 DAN)
- DANTE streaming to WSM