

Spatial Audio Workstation

Release Notes

Version 2.1.4

January 16th, 2012

Introduction

This document describes the steps to install the Spatial Audio Workstation 2 on your computer. Please read it carefully to ensure a correct installation of the software. After installation, you can find the operation manual of the Spatial Audio Workstation in the Windows start menu.

Installation

The Spatial Audio Workstation requires Microsoft Windows XP or Windows 7 and an existing installation of **Steinberg Nuendo 5**. Please note that earlier versions of Steinberg Nuendo do not work, so the update to version 5 or version 5.5 is mandatory! You always need the 32-bit version of Nuendo 5.x installed in order to use the Spatial Audio Workstation. The plug-in is not compatible with the 64-bit version of Nuendo.

Note: We strictly recommend to uninstall older versions of the Spatial Audio Workstation before installing the current version

Installation of the Spatial Audio Workstation

After downloading the Spatial Audio Workstation setup file, execute it to run the installation wizard. Follow the instructions on the screen to install the Spatial Audio Workstation plug-in.

As part of the process you will be prompted to enter the folder where your Nuendo installation is located. Browse to the respective folder if it is not detected automatically. The Spatial Audio Workstation will install its plug-ins for this Nuendo installation. Please note that you must provide the path to your actual Nuendo installation, not the one where the VST plug-ins are located.

The installer will also update the *eLicenser Control Center* from Steinberg if necessary. This will be done automatically if choosing the “Typical” setup type during the installation. If you are unsure, please use the “Typical” setup type to make sure the correct eLicenser Control Center version is installed on your computer. If the wrong version is installed, the Spatial Audio Workstation might not function properly.

Note: *If the installer fails and reports that .NET Framework 2.0 is not installed on your computer you need to download the .NET Framework 2.0 from the Microsoft website and install it before installing the Spatial Audio Workstation. You can find the .NET Framework at the following locations:*

.NET Framework 2.0 for 32-bit Windows systems:

<http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=0856eacb-4362->

[4b0d-8edd-aab15c5e04f5](https://www.microsoft.com/download/details.aspx?familyid=B44A0000-ACF8-4FA1-AFFB-40E78D788B00&displaylang=en)

.NET Framework 2.0 for 64-bit Windows systems:

<http://www.microsoft.com/downloads/details.aspx?familyid=B44A0000-ACF8-4FA1-AFFB-40E78D788B00&displaylang=en>

Activate your License of the Spatial Audio Workstation

The Spatial Audio Workstation is protected with the eLicenser copy protection from Steinberg. A valid license on a connected USB eLicenser is required to use the Spatial Audio Workstation within Nuendo. It is possible to upload the Spatial Audio Workstation license to the same eLicenser used by Nuendo. Therefore, no additional USB device is needed.

In order to upload the license to the USB eLicenser, the latest version of Synchronsoft's "eLicenser Control" (eLC) needs to be installed on the PC running Nuendo. The installer for the Spatial Audio Workstation will do the update of the eLicenser Control Center automatically if required.

In order to put a license on the Nuendo USB eLicenser and activate it, start the eLicenser Control Center software. You need to be connected to the internet during the activation process. Click "Activate License" and enter the activation code provided by IOSONO. The license ("Spatial Audio Workstation 2") should be detected automatically. In the next step, select the eLicenser on which the license should be placed.

After the license is correctly downloaded and installed to the USB eLicenser you can start Nuendo and use the Spatial Audio Workstation plug-in. You can find more information on how to use the plug-in in the operation manual which you can find in the Windows start menu folder "Spatial Audio Workstation".

Known Issues

- 1.To avoid performance problems with grouped objects, keep path playback visibility disabled, when recording motion automation to the parent's group.
- 2.There is a movement limit of +/- 50 m for sources at the stage. This limit can be exceeded or reduced by putting the source into a group and move/scale the group. This will be changed in a future version, where all sources are limited to the 50 m range.
- 3.The performance of motion path rendering and motion path editing can be low when editing large sections.
- 4.Automation outside 0..24h is ignored by the Spatial Audio Workstation.
- 5.Nuendo audio parts are currently not supported.
- 6.Gluing together event objects in Nuendo deletes the former object automation.
- 7.Motion automation from projects created with older versions of Spatial Audio Workstation is clipped to 50m at this time on import.
- 8.Currently, the track value as well as its read and write state are not connected to the related channel or group object in the Spatial Audio Workstation.
- 9.Selecting an automation track of a channel track does deselect the related channel object.
- 10.Nuendo automation fill modes are not connected to the Spatial Audio Workstation.
- 11.Redo creating or undo deleting an IOSONO track, that was previously set solo or mute, does wrongly switch the solo or mute state of the IOSONO mix bus and the main mix bus.
- 12.Converting a stereo track to a mono track in Nuendo creates upmix sources instead of channel sources.
- 13.LC and RC channels are not used by upmix sources if "7.0 Cine" or "7.1 Cine" loudspeaker setups are used.
14. Windows 7 programmkompatibilitätsassistent shows warning message after installation. This warning can be ignored
15. SAW shows "out of scene channels" message after splitting up some stereo tracks into mono

Change Log

Version 2.1.4 Build 1948:

Fixed freeze while ICF Export of large projects

Version 2.1.3 Build 1947:

Fixed crash when loading old projects in Nuendo 5.5

Version 2.1.2 Build 1939:

Added support for JL Cooper MSC-Panner

Added support of 3D coordinates for IPC processing (IOSONO IPC extension needed)

Fixed ICF Export of projects using 32 bit audio

Fixed bug: It is not longer possible to change automation of locked position parameters

Fixed bug: Changing the settings for IPC processing is now updated instantly

Version 2.1.1 Build 1932:

Fixed a problem that could inhibit the SAW project activation when using multiple projects

Enabled IPC extension and ICF export for the Upmix feature (extra license necessary)

SAW window can now also be hidden using the related menu entry in Nuendo or the associated keyboard short-cut

Improved Upmix processing quality

Version 2.1.0 Build 1891:

Disabled automatic bus and data creation for new projects until the project is activated in Spatial Audio Workstation

Fixed a crash when starting Nuendo when no Spatial Audio Workstation license was found

Fixed a crash that could happen when switching Spatial Audio Workstation toggle parameters like auto delay

Fixed a crash that could happen when copying audio from mono to stereo tracks

Fixed a problem where a mono object was created when adding a stereo track in an inactive project

Fixed a problem that made it impossible to switch on or off bypassing the upmix of stereo objects

Fixed clipping that could happen for upmixed objects

Fixed a performance problem for upmix objects when working with small sound card buffer sizes

Added default settings for the active bus arrangement of a Spatial Audio Workstation project

Added support of instrument tracks

Version 2.0.0 Build 1668:

Added the new Spatial Audio Workstation Upmix! for stereo audio tracks

Fixed a crash when using Spatial Audio Workstation solo and mute

Fixed a crash when active project was closed while the Spatial Audio Workstation project settings dialog was opened

Fixed a crash when activating keyframe automation while still writing automation

Fixed a crash in Spatial Audio Workstation when using the Nuendo cut tool while pressing the ALT key modifier

Fixed a crash that could happen when using undo after several groups were dissolved

Fixed a strange behavior when resetting a Spatial Audio Workstation controller to the initial state via CTRL and mouse click

SAW 1.5.2 Build 1331:

Fixed a crash that could happen on undo after deleting IOSONO groups

Fixed a crash that could happen when writing a motion when the position was partially locked

Fixed a crash that could happen when switching the source type of multiple selected objects

Fixed a crash that could happen when closing the preferences dialog

Fixed a problem that made it impossible to preview parameter changes when playback was stopped

Fixed a problem that lead to wrong automation when exporting ICF files

Fixed a problem when parameters like position were not saved when using mouse wheel or arrow keys

Fixed a problem that a locked radius automation was changed when writing the angle

Fixed a problem when SAW was displaying the wrong project settings for the current project

Fixed a problem with wrong IPC100 channel ordering when using more than 50 channels

Version 1.5.1 Build 1304:

Fixed a crash when disabling a write button while writing automation

Fixed a crash when closing a project or Nuendo

Added Spatial Audio Workstation external rendering mode and ICF export (license necessary) for Nuendo 5

Fixed a performance problem when selecting objects

Fixed a problem with wrong object positions when loading a project

Fixed a problem when loading projects created with Spatial Audio Workstation versions 1.1.0, 1.0.0 and 0.9.0-beta4

Fixed a problem when objects were wrongly repositioned after stop writing automation

Fixed a problem when wrong automation was created when using the motion path edit mode

Fixed a problem when wrong motion path segments were created at -50m

Fixed a problem when a new Spatial Audio Workstation object was not selected together with the related audio event

Version 1.5.0 Build 1227:

Added Nuendo 5 support (this version does not run with Nuendo 4)

Fixed a crash when using undo while writing an automation

Fixed a crash when using undo after changing the color of an object

Fixed an error within ICF Export that used automatically scene scaling even when bypassed

Write enable buttons in object editor now indicate when automation is currently written

New icons for event objects

Removed auto renaming of audio tracks using "channel" or "event" as prefix

External rendering module uses one single 64 port bus now instead of multiple 10.2 busses

Changed object data access for internal rendering, ICF export and audio mix down

Spatial Audio Workstation now provides the fast non real-time mix down

Version 1.3.0 Build 925:

Fixed a crash when Spatial Audio Workstation is closed while preferences dialog was still shown

Fixed a crash when deleting tracks

Fixed a crash when deleting many motion path edit control points

Fixed a crash when undo moving audio events while motion path fading was active

Fixed a crash when editing a motion path while still writing an automation

Fixed a bug that created wrong rotation automation when dismantling a group object

Fixed a bug with the solo and mute state in Spatial Audio Workstation for empty group objects

Fixed a bug where audio port settings were lost when switching the audio driver

Spatial Audio Workstation can now load projects created with previous Spatial Audio Workstation versions 1.1.0, 1.0.0 and 0.9.0-beta4

New modules available: External rendering (license necessary), ICF file export (license necessary)

New source object options for external rendering module: source type, on screen, dialog

Added prime latch automation mode and the related automation buttons

Added menu entry for operations manual into Help menu

Added Lock and Visible state to context menu of motion paths

Spatial Audio Workstation write enable buttons do now indicate when an automation is written

Spatial Audio Workstation stage view items are now indicating the read and write enable state of the position automation only

The playback state of Nuendo is now indicated via the Spatial Audio Workstation IOSONO logo

Added some tool tips

Moved some GUI elements

Version 1.1.0 Build 707:

Initial version