Contents

Aeron studio MANUAL

"THE COMPLETE RADIO AUTOMATION SOLUTION"

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Welcome to AerOn Studio

Thank you for purchasing the AerOn Studio radio automation software. AerOn Studio is the most complete radio automation software available on the market. The modular structure makes the software scalable in capacity, size and functionality. AerOn Studio can be configured to any type and size of studio, with the ability to easily, quickly and at your own discretion expand when needed. Because the software is so complete, it is very important to get to know it inside and out. In this manual you will find everything you need to know to get you started with AerOn Studio. In order to get to know the system in detail, we recommend that you read the manual at least once.

This manual is structured chronologically. The first chapters provide a brief background to the structure and capabilities of the AerOn Studio system. Next, the various components of the software are described one by one, and finally the various expansion options of the system are explored in depth. For more information about the installation of AerOn Studio, the initial configuration and the conversion of your existing music database, please first consult chapter 30 ('Configuration and installation of AerOn Studio'). This manual will be updated regularly if there are new developments and also through feedback from readers. If you would like a more detailed explanation of the various components and possibilities of AerOn Studio radio automation or would like to pass on your feedback, please contact one of our staff members or send an e-mail to support@broadcastpartners.nl or consult http://helpdesk.broadcastpartners.nl .

1.1 OnAir and Production station

AerOn Studio can be delivered in various configurations. For example, AerOn Studio can be installed on a single PC on which the entire radio process, from planning to production, takes place, as well as two or more PCs, depending on the customer's wishes.

If your configuration consists of multiple PC's, it is important to have a clear naming for the different PC's. The station that takes care of the non-stop and live broadcasts is called the OnAir station. The other PC's (on which you fill in databases, format or commercial planning, voice tracks or record new audio tracks) are called production stations. Whether a PC functions as an OnAir or production station is actually determined by the license. As the configuration gets larger, a separate PC can be placed on which all databases and audio files are stored. That PC is the server. Production and/or OnAir stations function as a client in such a configuration.

Depending on the license, AerOn Studio can also function as a Non-Stop server in combination with several studios, Studio player, Web player, Event system on location or Remote voicetrack.

When the 30-day trial has expired AerOn Studio will automatically expire in the "Free Homeworking version". You can then use AerOn Studio, for example at home, without a license. However, the functionality is limited to the basics. You can still add music to the database and listen to it in the PFL player or listen to it in Database editor. You can also look up items in Database browser and also open playlists, check them and change them manually.

1

1.2 System requirements

In order to use AerOn Studio, your PC must meet at least the following requirements:

- Dual Core processor Intel i3 or AMD similar; (AerOn Studio only)
- Quad Core processor Intel i5 or AMD similar. (AerOn Studio + PostgreSQL database server);
- Windows 10, or Windows 8.1 Update 1 (32-bit and 64-bit);
- 4 GB internal memory (AerOn Studio only);
- 8 GB internal memory (AerOn Studio + PostgreSQL database server);
- 256 GB SSD for OS and PostgreSQL database. If the audio files are not on a central network server, an additional HDD (hard disk) or SSD for storing audio files;
- screen resolution of 1280 at 1024 dots and 16-bit colors.

It is advisable to consider the above system requirements as a minimum. Formatplanner and Commercialplanner are excellently able to take advantage of higher performance from a faster processor (Intel i7 / i9). In addition, PCs equipped with an Intel Xeon processor and registered ECC memory offer higher stability and certainty and the hardware requires a reboot less frequently. These latter systems are extremely suitable for server applications.

AerOn Studio works so far in Windows 7. Microsoft has ended the Windows 7 mainstream support since January 13, 2015. We are also no longer developing on Windows 7. For proper operation under Windows 7, we do not offer any guarantees. We continue to use new developments and new components.

For the storage of audio files it is recommended not to use a NAS because most of them are too slow in use for unir playout. We can recommend a NAS as a backup medium. For a central server, a Windows Server OS is recommended from five client PC's.

When using multiple PC's in one network, it is important that the network is built with high quality components. In the past it has been experienced that PC's with a Gigabit network connection and a 100-Megabit switch did not work optimally together. After replacing the switch with a Gigabit switch, certain actions became about 30 times faster where, based on the specifications, a maximum factor of 10 was to be expected.

Broadcast Partners only selects branded PC's for its automations. If you supply your own PC's for AerOn Studio, please contact your supplier in advance to check if your configuration is sufficient. In the past, computers of dubious quality, touted by a local dealer, sometimes proved to be a source of trouble.

1.3 Structure of the system



AerOn Studio is a modular automation system. This means that you only need to purchase the parts (modules) you need. If your needs grow over time, you can upgrade the system step by step. In this paragraph, we briefly describe the possibilities of the various additional modules. For a more detailed description of the different modules, please visit our website: <u>http://www.aeron.studio</u>. Tailoring solutions for specific needs is one of the possibilities. Please do not hesitate to contact one of our employees..

	OnAir Studio	OnAir Web	OnAir Event	OnAir slave studio	Productie	Remote
Playout	~	~	~	~	х	х
Database browser Basis	~	~	~	~	~	~
Database browser Xtra	0	0	0	0	0	0
Item browser	0	0	0	0	0	0
Live players Basis	~	х	~	√	x	x
Live players Xtra	0	х	0	0	x	x
Jingle players Basis	~	x	~	~	~	~
Jingle players Xtra	0	х	0	0	0	0
Voice tracking Basis	~	~	~	~	~	~
Voice tracking Xtra	0	0	0	0	0	0
Formatplanner Basis	~	~	~	~	~	х
Formatplanner Xtra	0	0	0	0	0	x
Formatplanner Xpert	0	0	0	0	0	х
Playlist semi vast	0	0	0	0	0	0
Plan checker	0	0	0	0	0	х
Commercialplanner Basis	~	~	~	~	~	х
Commercialplanner Xtra	0	0	0	0	0	x
Audio logger	0	0	0	0	0	х
Time shifter	0	0	0	0	0	х
Studio switch	0	0	0	0	x	x
Export functies	0	0	0	0	x	х
Digitale mengtafel	0	0	0	0	0	0
Editie functies	0	0	0	0	x	х
VST voice track plugin	0	0	0	0	0	0
Visual Radio	0	0	0	0	х	х

✓ = standard

O = option

X = not available

1.4 Overview of available modules

Below you will find a brief overview of the available modules.

Databank browser Xtra

The *Database browser Xtra* extension module offers various additional search functions, sorting options and window presets compared to the standard *Database browser*. For example, you can search by lyrics, texture, mood and instead of just title, artist and audio ID, all kinds of additional columns are displayed, such as the various criteria groups, last played, last scheduled, playing time, track hour number, artist steering number and so on. You can then sort by different columns at the same time in order to quickly find the desired data. Finally, *Database browser Xtra* offers definable window presets that can be set per logged in user as well as per desktop resolution and a detailed playlist history of an artist or track can be looked up in *Database editor*.

Item browser & File browser

Item browser offers the possibility to create and organize their own folder structure in a tree structure, so that presenters/DJs can place their items in their own folder together. You can divide the folders into general folders, folders per logged-in user or per user group. *Item browser* is also an ideal tool for radio stations that work with an editorial staff where, for example, news items are produced. See also *InOutBox*.

With this module you also get a *File browser* with which you can browse through the audio folders (Audio local) and also update metadata, present in the ID3 tags, to the database. Per user a *File browser* root folder can also be set or assigned.

Live Players Xtra

The *Live Players Xtra* module adds 3 hotkeys to navigate to defined cuepoints. With this module you can also click on the image of the track to open the item directly in Database editor. In the time display in the players, this module also allows you to select various alternative views. Track can becued and prepared at any position. When both cart players are in pause, the talk time is displayed in the AerOn Studio clock.

Jingle Players Xtra

With this module you can extend *Jingle Players* to up to 8 jingle carts. In total you can set up to 56 jingles ready to start. Multiple cue modes are available and multiple jingles can be started in a group. As with *Live Players Xtra*, you can also use this module to set cue points for the jingles.

Voice Tracking Xtra

With the *Voice Tracking Xtra* module you can read in voicetracks as in a live situation. The outro and intro of the tracks can be heard while recording the voicetrack and the voicetrackers can interactively determine when the next track starts. In addition, this module also adds an extra track that offers the possibility of dragging a jingle under the voicetrack or intro of a track.

Remote Voicetracking Basis

This module is needed once to be able to remotely track voicetrack. External voicetrackers can then use their own license to log into the system and use AerOn Studio's voicetrack functions from home (or anywhere in the world).

Plan Checker

With *Plan Checker* you can perform a detailed analysis of your playlist. For example, you can view the hour format and plan line of each track from the plan report, and you can analyze scheduling problems and get a more detailed plan history of each track.

Formatplanner Semi-fixed

With this module you can plan semi-fixed items with the *Formatplanner*. Semi-fixed scheduling makes it possible to place news items within an (adjustable) time window around a certain time. In this way, the music track will be played in its entirety prior to the news and will not fade out prematurely as is the case with fixed items.

Formatplanner Xtra

Formatplanner Xtra provides you with plan lines and allows you to select multiple criteria per column. Tracks can also be shuffled together in hourly format. In this way, you can plan tracks within the same format at different positions. This module can only be used in combination with the *Formatplanner Semi Fixed* option.

Formatplanner Xpert

With *Formatplanner Xpert* much more detailed planning is possible. For example, it can be set to exclude certain criteria when planning. A format can be created based on mood and texture. If the playlists are planned, a number of alternative tracks can be selected for each planned track according to the criteria with which the track was planned. In addition, this module also offers the possibility to set a separation and max number per hour per language and per criteria. This module can only be used in combination with the options *Formatplanner Semi Fixed* and *Formatplanner Xtra*.

Commercialplanner Xtra

With *Commercialplanner Xtra* you can enter a preferred position for an advertising spot within a commercial block. For example, four extra jingles can be added per block, which can be planned independently of commercials. These jingles also take into account the weekly and annual definition that can be set per track. Campaigns can be scheduled on even- or odd days/week and various extra spread possibilities can be set over the period and placement per block. Campaigns can be marked as "Filling empty blocks". Maximum number of commercials can be set per block in the weekly matrix.

Audio logger

With *Audio logger* recordings of the broadcast can be made 24/7. The retention period, audio quality and source are adjustable. If desired, you can have the audio logger recordings automatically uploaded to ftp.

Time shifter

Time shifter is a module that records an external source or stream in high quality for later retransmission. This module is often used to record live programs for later retransmission.

In/Out Box

In/Out Box is an external program with which files can be conveniently moved. News items can automatically be downloaded and placed in the right folder. For news editors, news items that are ready for broadcast can be automatically moved from a central folder in the editorial staff to the specified folder in Item browser, where they are immediately visible to the DJ.

Export functions

Export functions exports relevant database data (metadata) and playlists to other applications such as Pluxbox RadioManager. Also for example the playing title and artist information with accompanying image via HTML export to a website, RDS application or to the (web) stream. With this module AerOn Studio can also connect to the Radix RDS application via RDS Export.

Studio switch

In combination with the appropriate hardware (RME sound card), this module turns your PC into a studio switch, where on a standalone system in non-stop mode the signal is routed to the transmission line completely outside the mixing console. In addition, this module can be used to build a master/slave system with multiple unir studio systems.

Visual Radio

AerOn has a *Visual Radio* module on board that works together with MultiCam and vMix. With Multicam or vMix you can create automated visual radio. AerOn delivers real-time information to Multicam via an IP-socket which makes it possible to make video clips and OnAir information visible on the Visual Radio system.

Other

In addition to the modules described above, a number of other modules are available such as Slave studio, Event license, Web player license, production license, editing functions, multiple playout, VST voicetrack and integration digital mixer.

For more information, please visit our website: http://aeron.studio

1.5 Overview of shortcut keys

On the penultimate page in this manual you will find an overview of the most frequently used shortcut keys.

1.6 Audio system

AerOn Studio supports professional audio cards from leading manufacturers such as RME and Digigram. The standard supported audio formats are: PCM Wave (.wav), MPEG-1 layer 2 (.mp2, (including Dalet) .snd), MPEG-1 layer 3 (.mp3), OggVorbis (.ogg), Advanced Audio Coding (.aac, .m4a, .mp4), Windows Media Audio (.wma), Free Lossless Audio Codec (.flac). For other audio formats, please contact a member of Broadcast Partners.

The table below gives an indication of how many tracks you can store on a (PC or server) hard disk in a number of common storage formats. An average duration of 3:30 per track is assumed.

Harddisk	Ongecomprimeerd	Gecomprimeerd		erd
	PCM Wave	<u>128 kbps</u>	<u>256 kbps</u>	<u>384 kbps</u>
1 GB	29	320	160	107
500 GB	14.493	159.783	79.892	53.261
1 TB / 1000 GB	28.986	319.566	159.783	106.522

1.7 Hardware support

AerOn Studio can control different types of peripherals. For digital mixing desks you can choose from, among others, Studer, Lawo, Axia, D&R, GatesAir and DHD.

The Compact Interface Module is a low-cost GPIO solution for connecting remote starters of the analogue mixer to control *Live Assist* and *Jingle players*. A detailed description of the CIM can be found at the back of the manual.

1.8 Additional possibilities

AerOn Studio is an open system. This means that you can use several other software packages in combination with AerOn Studio. Below we will discuss an application that allows you to control AerOn Studio remotely, as well as two solutions for securing your data.

1.8.1 TeamViewer

Various communication packages are available that allow you to control all kinds of things remotely, such as TeamViewer and Remote Desktop. For example, you can control *Formatplanner* or copy an audio track from your home PC. In order to be able to use this TeamViewer permanently, the program needs to be installed on both the PC on which AerOn Studio is installed and on the remote PC. The TeamViewer version on the

remote PC should be at least the same and both PCs should be equipped with a permanent internet connection (cable or ADSL).

The online support department of Broadcast Partners uses TeamViewer. In recent years, the popularity of this communication package has increased significantly because it has proven to be not only reliable, but also easy to use.

A TeamViewer QuickSupport client is included with AerOn Studio and does not necessarily need to be installed separately. With online support by Broadcast Partners, you can start TeamViewer QuickSupport from AerOn Studio via the menus Help \rightarrow TeamViewer.



In case of occasional use of the TeamViewer software, a free license is sufficient. However, if you regularly use the software, you need to purchase a license.

1.8.2 Backup provision

In the past, unfortunately, the lack of backup when re-recording audio and entering data has caused overtime on more than one occasion. Since most AerOn Studio systems also work with audio files stored on the hard disk, making a backup is therefore not an unnecessary luxury. The large amounts of data (1 TB or more) require a solid backup facility. Today, the most obvious solution is to make a copy to a workstation and to an external USB/eSata hard drive. Meanwhile, an external hard drive is absolutely affordable.

It is important to know that while automation continues, system administrators prefer to back up files while they are in use, but most backup software does not support the ability to back up files that are in use. This is particularly true for the extremely important music database. However, AerOn Studio itself offers a facility to make a copy of this database. More information about the backup function in AerOn Studio can be found in Chapter 20: Database Backup.

1.8.3 RAID 1

RAID stands for Redundant Array of Inexpensive Disks and is a collective term for the implementation of hard disks in systems to increase their availability or performance. RAID is available in different 'levels', each with its own application. One focuses on performance, the other on availability. The latter is important when it comes to AerOn Studio.

RAID 1 uses mirroring, or mirror hard disks. This uses an identical number of disks in duplicate. In practice, this means that when a hard disk crash occurs, the data remains available on the mirror drive. The extra cost of such a system consists of purchasing an additional hard disk with the same capacity and a so-called RAID controller. Both harddisks are connected to the RAID controller which ensures that the data on both disks remains synchronous. Most AerOn Studio users choose this solution nowadays. The implementation is then as follows: Broadcast Partners installs 2 hot-swappable racks and 3 identical hard disks in matching sliders. Harddisk 1 always remains in the system. Harddisk 2 and 3 are changed regularly. One is an exact copy, the other represents the situation at the last moment it was present in the PC. This way, if one harddisk fails, you always have an exact copy. In case of failure, fire or other setbacks, you have a backup of the data. Condition is of course that you keep the backup elsewhere and not in the studio.

1.9 Getting started with AerOn Studio

Below you will find a global overview.

Installation (installation of AerOn Studio chapter)

- PostgreSQL database server.
- AerOn Studio.
- Set database connection.

Configure necessary settings (Settings chapter)

- Global → Audio local. (Drag audio root folders from Windows Explorer)
- Global \rightarrow Criteria. (Enter your criteria)
- Local \rightarrow Audio \rightarrow Output routing. (Assign playback channels)

Add audio files metadata to database (Database import chapter)

 Drag multi-select audio files to the desktop of AerOn Studio. The Drag Audio Files window opens once AerOn Studio has added the dragged audio files metadata to the database.

Enter multiselect criteria (Multi criteria editor chapter)

- Multi-select the tracks in the Drag audio files window. Right click and select Multi criteria editor from the popup menu.
- Assign your criteria to the selection.

Format planner planning (Format planner chapter)

- Compile hour format.
- Compile day format.
- Schedule playlist.

Please refer to the various chapters for detailed information.

2

Audio formats and folders

This chapter explains which audio formats are supported by AerOn Studio, where to set up the audio folders and how AerOn Studio searches the folders.

The AudioID plays a central role in AerOn Studio. This is the name of the audio file, just as it can be found on the hard disk, without folder and without extension (for example 'XA2014' or 'Alicia Keys - No one'). AerOn Studio will scan all audio folders including subfolders and the full path including the entire filename in cache during startup. This has been chosen to be as flexible as possible. As a result, it does not matter where and in which underlying subfolder an audio file is located. The audio format (flac, wav or mp3) is subordinate to the AudioID, just like the location (drive X: or Y:).

The Bass audio engine in AerOn Studio supports the most common audio formats and, thanks to the plugin system, is able to play additional audio formats when users need them. Users of Digigram PCX audio cards are limited by the hardware to mp2, PCM wave and in some cases mp3, on the same sampling frequency.

Audio formats

We see that there are shifts in the use of audio formats. As disk capacities increase, storage in PCM WAV or a lossless compressed audio format is becoming increasingly common, with formats such as ape (Monkey's Audio) losing ground in favor of flac (Free Lossless Audio Codec).

AerOn Studio supports the following extensions after standard installation.

```
Audio bestanden (*.wav;*.mp2;*.mp3;*.s48;*.snd;*.flac;*.fla;*.oga;*.ogg;*.wma;*.aac;*.m4a;*.mp4) 💌
```

(This can be found via the menu *File Open* \rightarrow *Audio* \rightarrow):

The audio formats are arranged according to priority. In other words, the extension .wav is given the highest priority, followed by .mp2, .mp3 and so on. In practice, this means that a file 'XA2014.mp3' will be played earlier than for example 'XA2014.ogg', because the audio format .mp3 has a higher priority than the audio format .ogg.

Searching for audio folders and files

Now we have explained how AerOn Studio handles the audio formats and extensions, we look at the folders in which the files are stored. The folders in which AerOn Studio has to search and can find the audio files have to be filled in Settings Global \rightarrow Audio \rightarrow local and looks for example as shown in the picture below:



When loading, cueing or playing 'XA2012', AerOn Studio searches for a file named 'XA2012.wav' through 'extension XA2012.mp4' and does this first in the folder 'D:\Audio\MP2\Mpeg1'. If the file is not found in this folder, the search continues in the subdirectories of 'D:\Audio\MP2\Mpeg1', if any. If the desired file is not found there either, the search continues in the same way in 'D:\Audio\MP2\Mpeg2' and eventually to the sixth folder 'D:\Audio\MP2\Mpeg6' in this example.

Since AerOn Studio also searches audio files in subdirectories, the above configuration may as well be simplified to 'D:\Audio\MP2'. This achieves the same, but in a more simple way.



We had already seen the priorities for the extensions before. So it is also there in the search in the set audio folders. In the configuration with the folders '...\Mpeg1' to '...\Mpeg6' it is clear in which order the search is done.

In the configuration with only 'D:\Audio\MP2', the search order in the various subfolders is entirely dependent on Windows and this has nothing to do with a sorting order in the Windows explorer.

- What happens if 'XA2012.mp2' is replaced by 'XA2012.wav'? AerOn Studio detects that the old file no longer exists and starts searching, finds the new file. Problem solved.
- What happens if 'XA2012.mp3' is moved to another folder? AerOn Studio detects that the old file no longer exists and starts searching, finds the new file. Problem solved.
- What happens if 'news.mp3' is now saved as 'news.wav' and the user forgets to delete the old file?
 AerOn Studio will still find the old file and play it back. With the previously mentioned function in Manage, finding and deleting copies is very easy. Problem solved.

Layout audio folders

Where it used to be convenient to place the audio files in a limited number of folders, you now have the possibility to divide the folders into a structure that suits the radio station better. So you can think of a separate folder for each presenter or DJ, program or the music tracks per year divided into subfolders.

From Windows Explorer or *File browser*, you can drag and drop the audio files into AerOn Studio to add the files to the database or place them in playlist or jingle players.

To be able to add files to the database while dragging, this option must be checked. See 'Add database'.

🗹 Toevoegen databank

(At the bottom of the status bar)

AerOn Studio has no static link to a file. So you are free to rename subdirectories or move files to another sub or root folder. However, after such a move action, it is recommended to scan the tracks again via the *Scan Presence* \rightarrow *database* menu. All audio files are then searched again and AerOn Studio caches the location of each file. This increases the speed of the system. See chapter scan permissions for more info.

Copy

In AerOn Studio we find the solution for finding those copies via the *Tools* $Management \rightarrow Copies \rightarrow menu$, with a suggestion for deleting the copy.

With thousands and often tens of thousands of audio files, countless folders, and different file extensions, it can happen that a copy of an audio file is made with a different extension or in a different folder or both. In short: with copies of audio files, it becomes unclear which one will be played by AerOn Studio.

For example:

Bestand	Laatst gewijzigd	AudioID	Verwijderen
D:\Audio\Commercials\Aeron Studio.mp3	24-11-2005 10:20:11	Aeron Studio	
D:\Audio\Commercials\Aeron Studio.wav	24-11-2005 10:20:11	Aeron Studio	×

Files in a subfolder have a lower priority:

Bestand	Laatst gewijzigd	AudioID	Verwijderen
D:\Audio\Commercials\Aeron Studio.mp3	24-11-2005 10:20:11	Aeron Studio	
D:\Audio\Commercials\Backup\Aeron Studio	24-11-2005 10:20:11	Aeron Studio	⊻

It sometimes happens that when working with news and info items, copies are created and the wrong old version is played. The *Beheer* tool is then the first place to look for possible copies. In this tool you also have the possibility to use the pre-listening and listen to which version it is before one of the files is deleted. The date and time of the last change can also be a useful indication.

Deleting many copies also provides performance gains because there are no unnecessary files present and need to be searched. You can also prevent, for example, voice trackers from loading a different file at home than the version played in the studio. See chapter Management for more info.

Audio file search time

When searching for audio files, for example during startup, AerOn Studio fills an inmemory file cache with the full path to each audio file. When a module needs an audio file, the file cache is called first to know its location. If the location of an audio file is not in the file cache, AerOn Studio will start a search. This may be the case, for example, when new audio files have been placed in a folder, or if audio files have been moved that have not yet been scanned by the AerOn client you are working on. Via the menu Database \rightarrow Scan present, a user on a local system in the studio can force a search so that the location of all currently available audio files in the audio local folders is put in the file cache. Then when all audio directories have been scanned, the AerOn client updates the database and sets the "Present" flag on all records with a found audio file. In a number of situations the in-memory file cache is automatically updated or supplemented.

The time it takes to search and check all audio files is shown in *Preferences* \rightarrow *Global* \rightarrow *Audio* \rightarrow *Local*. How fast this search goes can therefore be seen there. During the search for audio files AerOn Studio checks each file whether it is an audio file. The total time required for this is displayed in the search time. A normal value is 10,000 files per second if the files are on a local HDD. Values greater than several seconds per 10,000 may indicate a slow network or a slow NAS. In this



case, it is recommended to check the network. By putting audio files in a location that can be indexed by Windows, you can avoid performance issues.

For example, a Windows server OS outperforms a Windows 10 OS when it comes to file sharing. And an SSD, for example, performs better than an HDD.

Searching audio files in subfolders is a fraction slower than just searching in specified root folders without subfolders. If there are a lot of sub folders, for example with iTunes where there is sometimes only 1 file per sub folder, the search will take longer. Searching for files is also slower if this has to be done over a network instead of on a local HDD or SSD. In AerOn Studio you can specify up to 99 main folders. AerOn Studio searches the root folders from top to bottom, in the order they are entered in the settings.

The faster files can be found, the higher the system's reactivity will be. It is therefore not recommended to place files on a slower medium such as a standard NAS. We recommend using a standard NAS only as a backup medium. A NAS can be better accessed as an iSCSI device than via a standard mapped network drive. An iSCSI device can be indexed by Windows.

AerOn Studio has three solutions to speed up the search.

1) After searching for a file the first time, AerOn Studio will remember the location in cache and will not search disk again the second time.

2) Shortly after the start of AerOn Studio a large search will take place in which all audio files will be searched at once. This increases the speed of the system because the location of all audio files is cached at once.

3) The *Scan Presence* function in the *Database* menu *scans* all audio folders and updates the file cache. It is also wise to perform a playlist check to make sure that all audio is present.

<u>Tip!</u> It is also wise, for example, to perform a playlist check the day before to make sure that all audio is present before the playlist is played onair.

Waveform files

In addition to the audio files, you will also find bpk (.bpk)files in the folders. Bpk files are created by AerOn Studio and contain additional information in addition to the waveform (the graphic representation of the track in, for example, *Database Editor*). Saving the

waveform saves the time of recalculating it over and over again. If you delete PPK files, AerOn Studio recreates them as soon as they are needed again. For files that you refresh, such as news and traffic information, AerOn Studio only creates a new BPK file when you open them in the *database editor*, for example.

Waveforms scanning

In Beheer there is a function to scan all waveforms at once and create them where necessary. See Manage Waveform \rightarrow . This increases the browse speed because you don't have to calculate a waveform every time you load newly added tracks. For every new track in the database, the fade-in start is set according to the Startlevel and the next time (start next) is set according to the Endlevel. See Settings Global \rightarrow General \rightarrow > Database editor.

Database editor

3

Database Editor can be accessed via the Database Editor menu \rightarrow , the corresponding icon on the toolbar. Or via the menus of e.g. Playlist and Database browser. Or ALT+F11

Database editor can be considered as the basis of full radio automation. In short, we also call it *Editor*. In the *Editor* you can, among other things, name your tracks, categorize them according to selection criteria and add lyrics. You can, for example, change the title of the track, edit an artist or author, or name the publisher, but you can also enter selection criteria on which your format planning is based, such as intro, fadeout time, music type and target group.

Database editor looks different depending on the situation. If you open Database editor at the moment Database browser is active or if a playlist is opened, the Editor goes to the track currently selected if *PFL tracking* is active. If you open a file from the *File Open* \rightarrow Audio \rightarrow menu, you will see the dialog box below.

A	Audio bestand openen 🗙
Zoeken in:	🕌 Mpeg1 🗸 🎯 🏂 📂 🛄 🗸
Recente locaties	XA0007.mp2 XA0089.mp2 XA0139.mp2 XA0139.mp2 XA0279.mp2 XA0013.mp2 XA0093.mp2 XA0140.mp2 XA0215.mp2 XA0283.mp2 XA0016.mp2 XA0094.mp2 XA0141.mp2 XA0219.mp2 XA0288.mp2 XA0017.mp2 XA0096.mp2 XA0143.mp2 XA0220.mp2 XA0303.mp2 XA0303.mp3 XA0330.mp3 X
Bureaublad	XA0027.mp2 XA0098.mp2 XA0144.mp2 XA0221.mp2 XA0309.mp2 XA0033.mp2 XA0100.mp2 XA0149.mp2 XA0226.mp2 XA0312.mp2 XA0042.mp2 XA0124.mp2 XA028.mp2 XA0316.mp2 XA0042.mp2 XA0149.mp2 XA028.mp2 XA0316.mp2
Bibliotheken	XA0043.mp2 XA0133.mp2 XA0134.mp2 XA0134.mp2 XA0229.mp2 XA0333.mp2 XA0243.mp2 XA0343.mp2 XA0343.mp2 XA0343.mp2 XA0343.mp2 XA0343.mp2 XA0343.mp2 XA0345.mp2 XXA0345.mp2 XXA0345.m
Deze pc	XA0069.mp2 XA0133.mp2 XA0195.mp2 XA0262.mp2 XA0369.mp2 XA0079.mp2 XA0134.mp2 XA0200.mp2 XA0264.mp2 XA0374.mp2 XA0084.mp2 XA0135.mp2 XA0200.mp2 XA0275.mp2 XA0375.mp2
Netwerk	Adulas.mp2 A
	Bestandstypen: Audio bestanden (*.wav;*.mp2;*.mp3;*.s48;*.mpg;*.mpeg;*. v Annuleren
Indeling: Titel: Artiest:	MPEG Layer-2; 00:03:36; 48000 Hz; 256 kbps; Stereo Play Save tonight Play end Eagle Eye Chemy Auto play

If you click an Audio file in the Audio file open window, you will see the audio file format, title and artist at the bottom of the file format, provided that this Audio file is already in the database. The 'Play' button allows you to listen to the Audio file directly without having to open it first in *Database Editor*. The 'Play end' option lets you hear the last seconds of the item and 'Auto play' plays the items automatically while browsing through the files, so you don't have to press 'Play' all the time.

As soon as you select a file and click 'Open', Database editor appears.

The title bar of *Database Editor* shows the mode, you will see the text [Browse] or [Edit] and the title and artist of the current audio file. In [Browse] mode, you browse the database and no data is changed. Users with the necessary access rights can switch to [Edit] mode. This is the mode in which the track and criteria data can be changed. In the user rights, an administrator can set which data a user is allowed to change. Switching to [Edit] mode is made automatically when you start typing or select criteria,

for example. The bars with subtitles, such as the texts *General, Buma, and Publish*, change colour and then become RED. Before you can browse to the next track, you must first save the changes using the button on the toolbar or the *CTRL+S hotkey*. Unless *Automatic Save on Browse* is active.

At the bottom right of the *Database editor* you will find the buttons with which you can browse through the database. If the leftmost '*Save automatically*' button is active, as shown in the image below, changes made will be saved automatically while browsing.



By default, the database editor browses the database sorted by artist from A to Z. At the bottom of the Database *Editor window* you will find a button called *PFL follow which* allows you to link the browsing order of *Database Editor* to the *PFL player* on the toolbar.

🗹 PFL volgen

By checking *PFL Tracking* you link *Database editor* to *Database browser*, *Playlist* or *Export*. As soon as you select another track in a window of which the audio file is present, other windows follow automatically.

Drag and drop from Windows Explorer or File browser

Another method for opening and loading audio files is by dragging and dropping the files directly from Windows Explorer or *File browser* into *Database Editor*. If you drag multiple files at once in AerOn Studio, a window *Drag audio files* opens. From this window *Drag audio files* window you can load the tracks one by one and open them in Database editor so that the mix times are set for each track.

Fade-in starts and the starting point next track, the *Next-Time*, is automatically set according to the *Database editor settings* and also the waveform is then calculated and loaded. Via *Management* \rightarrow *Waveform* this happens in batch during scanning, and only for new tracks that have not yet been opened in Database editor

<u>Tip:</u> To be able to add the tracks to the database while dragging, the option *Add database* must be ticked in the status bar.

🗹 Toevoegen databank

(At the bottom of the status bar)

🖪 Slepen audiobestanden		– 🗆 ×
Bestandsnaam	Info	
D:\Audio\MP2\Mpeg5\XE0024.mp2	Niet toegevoegd: bestaat al in de databank [Sadness - Strings Of Harmony]	
D:\Audio\MP2\Mpeg5\XE0025.mp2	Niet toegevoegd: bestaat al in de databank [My all - Mariah Carey]	
D:\Audio\MP2\Mpeg5\XE0026.mp2	Niet toegevoegd: bestaat al in de databank [Love is all around - DJ Bobo]	
D:\Audio\MP2\Mpeg5\XE0032.mp2	Niet toegevoegd: bestaat al in de databank [5, 6, 7, 8 - Steps]	
D:\Audio\MP2\Mpeg5\XE0033.mp2	Niet toegevoegd: bestaat al in de databank [Never gonna let you go - Blackstreet]	
D:\Audio\MP2\Mpeg5\XE0037.mp2	Niet toegevoegd: bestaat al in de databank [Silver hells - Doris Dav]	
D:\Audio\MP2\Mpeg5\XE0038.mp2	Niet toegevoegd: bestaat al in de databank [Ga 🙀 Editor Alt+F11 iel]	
D:\Audio\MP2\Mpeg5\XE0042.mp2	Niet toegevoegd: bestaat al in de databank [Ey 📒 🛛 Multi editor Ctrl+M	
D:\Audio\MP2\Mpeg5\XE0044.mp2	Niet toegevoegd: bestaat al in de databank [Like nove you - Jusun Imperiake]	
D:\Audio\MP2\Mpeg5\XE0047.mp2	Niet toegevoegd: bestaat al in de databank [I'm lonely - Hollis P Monroe]	
D:\Audio\MP2\Mpeg5\XE0049.mp2	Niet toegevoegd: bestaat al in de databank [In my garden - Jennifer Brown]	
D:\Audio\MP2\Mpeg5\XE0052.mp2	Niet toegevoegd: bestaat al in de databank [My friend - Groove Armada]	
D:\Audio\MP2\Mpeg5\XE0053.mp2	Niet toegevoegd: bestaat al in de databank [Grandma got run over by a reindeer - Elma	o & Patsy]
D:\Audio\MP2\Mpeg5\XE0054.mp2	Niet toegevoegd: bestaat al in de databank [I don't understand you - K-Otic]	
D:\Audio\MP2\Mpeg5\XE0017.mp2	Niet toegevoegd: bestaat al in de databank [Many rivers to cross - Joe Cocker]	
15		

Drag and drop audio file window

From the *Drag and drop audio files window,* you can also enter or revise the criteria directly using the *Multi criteria editor*.

With *Managing Waveforms* \rightarrow you can calculate all waveforms of all audio files at once. If a waveform scan is performed after adding new tracks, it can enhance the system's reactivity by eliminating the need to calculate a waveform each time tracks are browsed and loaded.

AerOn Studio recognizes and uses the so called ID3v1 and ID3v2 tags of e.g. . mp3 and .flac files to load existing metadata while adding it to the database. This means that the title, artist, year, album, bpm, key, comment (track info) and image in new . mp3 and .flac files that are opened in the *Editor* are automatically added and filled in by AerOn Studio when importing.

3.1 Track

🔂 [Browse] Here we go - N-Sync 🛛 🗕 🗖 🗙				
Track Artiest Album Criteria <u>1</u> Criteria <u>2</u> Songtekst Statistieken Editor				
	Algemeen			
Titel	Here we go			
Artiest	N-Sync			
Auteur	Bülent Aris, Toni Cottura			
Jaar	1997			
Bestandsnaam	XC3581	••••		
Video (vMix)	N-Sync - Here we go (Official music video)	•••		
	Buma			
ID				
Versie				
Deel				
ISRC				
Bewerker				
Dirigent				
Orkest				
Categorie	Muziek			
	Publiceren			
Wat	Artiest - Titel			
Aangepast				
Voorbeeld	N-Sync - Here we go			
Website	https://www.youtube.com/watch?v=EnnvOhfG1cU	۱		
	Track informatie			
Seken (
Here	We Go	▲ ▼		
🗹 PFL volgen	Browser 📑 🔂 🕢 😥	3		

Track tab

Title	Title of the track, jingle or commercial.
Artist	Performing artist. When entering the artist AerOn Studio completes the text. This makes entering multiple tracks of the same artist faster.
	See " <i>Tools</i> \rightarrow Manager > Artist" to clean up any artists that are no longer attached to a track.
Author	Author(s) of this track. If there are multiple authors, the names must be separated by a / (forward slash). Fill in the last name first, then the first name or initial(s).
Year	Here you fill in the year of e.g. the year of release of a record, or the year of making the jingle.

File name The file name of the audio file or video file used and played back in AerOn Studio. Here you can rename the audio file or video file or select another audio file or video file and link it to the database record. You can also rename the file here by typing a different name and then save it.

The extension is not decisive for AerOn Studio to be able to find the file. AerOn Studio supports the following standard formats: .wav, .mp2, .mp3, .s48, .mpg, .mpeg, .snd, .flac, .fla, .oga, .ogg, .wma, .aac, .m4a, .m4b and .mp4.

By adding additional audio library .dll files, additional extensions can be supported.

See "*Tools* \rightarrow Management > Copies" to find any copies in other root folders or in other subfolders.

Video name
(vMix)In this field you can enter the filename of a video file.This field is used by the vMix Visual Radio integration.
If the Visual Radio option is active, this field becomes visible.

This field allows you to link a video file to the audio track used and played in AerOn Studio. AerOn Studio uses this field only for forwarding the video name to the vMix Visual Radio system. AerOn studio plays the audio file while the vMix Visual Radio system is playing the linked video.

Since AerOn studio does not use this field to play this file itself, you can also enter the video name by selecting a video file from a folder that does not belong to AerOn Studio's search folders.

Buma reporting

The Buma in the Netherlands and Sabam in Flanders set certain requirements for the reporting of music played, for which the fields under the heading *Buma* must be filled in carefully. The Buma data entered in advance are logged in the playlist in the History playout log when played. Via the Buma report the data from the History playout log can be reported.

ID	In the case of musical works, the barcode as stated on the sound carrier. In the case of commercials, this is the commercial number allocated by Buma/Stemra/Sabam.
Version	Which version was performed? Fill in if there are several versions of a musical work, for example Remix, Unplugged, Live.
Share	Particularly applicable to classical works, for example Adagio, Allegro, Ouverture.
ISRC code	The International Standard Recording Code assigned to the recording. The ISRC code should be displayed as a 12 digit/letter code without dashes between the different parts. This is not the same as the barcode.
Processor	Name of the arranger or editor. To be recognized on the label information by one of the following entries: Arranged by / J. Jansen (arr.) / Trad-arr. J. Jansen

Conductor	Name of the conductor as indicated on the sound carrier. Last name, first name.
Orchestra	Name of the orchestra as indicated on the sound carrier. Omit leading paragraphs (the, the,).
Category	 Possible values: None (no Buma code, to be used for items that do not fall into one of the categories and therefore should not be included in a Buma report) Music Tune (jingle / pingel / station call /bridge) Library (stock music) Conference (literary work) Kadens (improvisation in classical work, usually by the soloist) Advertising (commercial)

<u>Publish</u>

Playlists can be exported to HTML, XML and Text, for example, for publication on the internet and to Radix RDS (Broadcast Partners RDS software) for playback on the car radio.

At 'Publish' you specify how this should be done at 'What'.

You have a choice: Not Title - Artist Title Artist - Title Artist Modified

If you choose '*What'* for '*Not'*, this item will not be published.

In addition to the predefined forms, you can also choose a custom information, advertising or promo text, the text can be filled in as you wish in the '*Custom*' input field.

At 'Example' you can see how and which text will be published.

At "Website" you can enter a link to a website, for example a link to a store, webshop or YouTube. You can publish this information with the tag <#Website>.

To publish all these predefined forms and also for the custom text, the <#Publication> tag must be included in the HTML, XML or Text source template. See the relevant chapter for more information about exporting the playlist to HTML, XML or Text.

The tags for title <#Title> and artist <#Artist> take the data out of the input fields for title and artist.

Track information

Under the heading 'Track information' you have space to load an image and fill in random information of a track. This field can be used, for example, in live broadcasts to mention interesting facts about a track. Interesting facts about the performer or the carrier (album, CD) can be entered on the 'Artist' tab.

<u>Artists fill in</u>

For the fields *Artist* and *Title* it is important that they are filled in consistently. *Formatplanner* can be used by the *Artist to* make sure that tracks of the same artist are not rotated (shortly) one after the other. Checking *Title* prevents a cover (alternative version) from coming too close to the original or vice versa. So for a correct selection and separation of artists it is important for *Formatplanner* to fill these in consistently.

We give the few advices on how to enter these fields:

- Leave out member words, for example 'The Rolling Stones' becomes 'Rolling Stones', 'The Supremes' becomes 'Supremes'.
- Always use the same method for filling in first name and last name, not 'Phil Collins', 'P. Collins' and 'Collins, Phil' mixed up. But always use the notation 'Phil Collins', for example.
- Do not mix alternative spellings, for example '&' and 'and' in 'Hall and Oates' and 'Hall & Oates'.
- Leave out as many points as possible, for example 'C.J. Lewis' becomes 'CJ Lewis' and 'R.E.M.' becomes 'REM'.
- Leave out (e.g. French and German) accents.
- Preferably do not enter these fields in capital letters. Uppercase texts are more difficult and busier for most users to read and take up more space on the screen. Compare, for example:

Everybody gets a second chance EVERYBODY GETS A SECOND CHANCE

Artists clean up

When revising and correcting the artist names, it is possible that the erroneous notations are no longer linked to a track in the database. It is best to delete worse artists by using the Management module. This way you can avoid that these erroneous artist names can be entered again and again.

3.2 Artist

In this tablet you can enter information about an artist. E.g. a website, a photo, information and social media accounts. It is also possible to exclude artists.

🔒 [Browse] Hei	re we go - N-Sync	_ = ×
Tra <u>c</u> k Artiest	Album Criteria <u>1</u> Criteria <u>2</u>	Songtekst Statistieken Editor
	Alge	meen 🔺
Uurgetal	0w 0d 05h	
Website	http://www.nsync.com	
Twitter	https://twitter.com/NSYNC	
Instagram	https://www.instagram.com/ns	/nc 🔽
Uitsluiten 1	N-Sync feat. Nelly	
Uitsluiten 2		
Uitsluiten 3		
Uitsluiten 4		
Uitsluitingen v	N-Sync feat. Nelly	
		· · · · · · · · · · · · · · · · · · ·
	Art	iest
🔮 <u>Z</u> oeken		
	1	N Sync bestaat uit: Justin Timberlake en is geboren op 31 januari 1981, Chris Kirkpatrick is geboren op 17 oktober 1971, Lance Bass geboren op 4 mei 1979, Joey Fatone en JC Chasez.
		Hoewel 'n Sync nog maar pas is doorgebroken in Europa, bestaan ze in Amerika al enkele jaren. N Sync werd opgericht in 1996, maar voor die tijd, traden de jongens stuk voor stuk ook al op als soloartiest. Nadat ze ieder apart succes hadden geboekt besloten ze om een groep op te richten. Als groepsnaam besloten ze om de laatste letter te
🗹 PFL volgen	Browser	📲 🔃 🕙 🕑 🙆

Tab Artist

Hourly rate	The hour number here indicates after how many hours an artist may be rescheduled. An artist with hour number 0 can come back at any time. However, the artist's hour number can be broken by the tracker number from the Criteria1 tab. This happens when the tracker number is smaller than the artist number, which is often the case with 'Hits', for example. The artist number is also a breakable/unbreakable plan line from <i>Formatplanner Xtra</i> .
Website	Here you fill in the URL of the website for the artist. With the little button next to it the internet will open with the entered URL of the website.
Twitter	Here you have the possibility to fill in the twitter username of an artist/band. You can fill this in as follows:
	https://twitter.com/Nsync
	Clicking on the Twitter icon will take you to the Twitter page of the user name you entered.
Instagram	Here you have the possibility to fill in the instragram username of an artist/band. This can be filled in as follows:
	https://www.instagram.com/Nsync

Clicking on the instragram icon will take you to the instragram page of the username you entered.

- *Exclude 1 to 4* Formatplanner looks at the name of the artist to prevent tracks of the same artist from being played (briefly) in a row. Formatplanner automatically excludes tracks from the same artist when scheduling. With these 4 fields you can, for example, exclude band members with a solo career and Duets.
- *Exclusions from* In this field you can see which artists this artist is excluded from. This field works on the basis of the data from the exclude fields 1 to 4. If, for example, you exclude *Paul McCartney from The Beatles*, this field will automatically show *The Beatles* for *Paul McCartney*. It is not necessary to exclude each other. In this way you can make better use of exclusions 1 to 4 and create more than 4 exclusions.
- *Photo/picture* In the field on the bottom left you have the possibility to add a picture/picture of the artist. You can add the picture by dragging it into this box. Or by using the right mouse button in the box. This way you can load an image.

X	Cut
þ	Сору
i	Paste
×	Delete
Þ	Load
Η	Save As
	Afbeelding track weergeven

Artist information In the text field along the picture/image you have the possibility to add information about an artist. E.g. information about the birthplace of the artist, age, origin and how long it has been active. You can add these by typing in this box, or by pasting information in this field.

3.3 Criteria 1

The fields on the 'Criteria 1' tabs are filled in when using Formatplanner.



Tab Criteria 1

Texture	(<i>Format planner Xpert</i>). The texture indicates how the track was produced. This can vary from 'Skimpy' (Leonard Cohen) to 'Bombastic' (Two tribes - Frankie goes to Hollywood).
Mood	(<i>Format planner Xpert</i>). The mood indicates the mood of the track and varies from 'Depressed' (Please don't make me cry - UB40) to 'Euphoric' (The final countdown - Europe).
Intro	Pace of the intro of the track.
Tempo	Pace of the track as a whole. This tempo is used in the <i>Formatplanner</i> hour formats.
Uitro	Pace of rooting out the track. <i>Formatplanner</i> uses the tempo of intro and outro to prevent, for example, a 'slow' track from following a track that ends 'fast'. The outro/intro mix is adjustable in the matrix in the <i>Formatplanner</i> <i>settings</i> .
Available at	Normally tracks are available for <i>Formatplanner</i> and the user. For tracks and also commercials, which may not be planned by <i>Formatplanner</i> , you can uncheck 'Planner'. In this way you can exclude tracks that absolutely do not fit the radio station and therefore should not be automatically scheduled. If 'User' is checked, the track will still be available to the user in <i>Database</i>

browser and can still be manually added to the playlist, for example for request records.

- Language By default, six languages are pre-filled in AerOn Studio, but this is expandable to 25 languages. However, it is not advisable to extend this category to include tracks in a language that you do not normally run. For example, you will never let *Formatplanner* specifically plan a Japanese track. Languages that are similar for the average Dutch-speaking person, such as Spanish and Italian, are brought together under Romanesque.
- *Composition* (*Format planner Xpert*). You specify the composition of the artist to prevent the planner from, for example, putting 3 tracks of a girl group in a row.
- The track hour number indicates after how many hours a track may Hourly rate be rescheduled. Formatplanner checks for each track whether it is in the same hour yesterday or the day before yesterday and places (Track hour tracks with a margin of at least 1 hour so that that track does not number) come in the same hour shortly after each other. However, the advice is to avoid a multiple of 24 as an hour number. For a track with hour number 24, this means that the track can come back a few days later at exactly the same time. It is also advisable to differentiate within the same category of hour numbers +1 or -1 so that a kind of progression occurs within a category. With a limited number of tracks of a certain category, there is a good chance that the same track will return at the same time immediately after the set hour number has been elapsed. A track with hour number 0 can be scheduled back at any time and several times per hour format. If a track should not be automatically scheduled by Formatplanner, a good example are commercials, or if you notice that scheduled tracks are not played, for example because they are removed from the playlist or skipped, it is better to uncheck 'Planner'. Unplayed tracks are immediately eligible to be scheduled again and get a higher priority as time goes by.
- *Week definition* In a matrix of weekdays and hours you indicate on which hours of each weekday a track may be scheduled. By clicking in the upper left corner of the matrix you select the whole track. Click on the day to select everything for that day. With the space bar you can switch the selected hours on or off.

A track may be scheduled on the hours with grey squares, on empty squares the item may not be scheduled. The standard version of *Formatplanner* only takes into account the times set on Mondays for the whole week. From Formatplanner *Xtra* the matrix can be varied per day. In combination with *Formatplanner Xpert, Commercialplanner* also takes the weekly definition into account.

Year definition The year definition determines the start and end date for a track. You can set this for typical summer or winter records, for example. Christmas records can be given a very precise start date after St. Nicholas. For tracks that may only be scheduled in the months of December and January, set the start date to 1 December and the end date to 31 January. For 'Texture', 'Mood' and the three 'Tempo'-fields you divide the entire range of music you play over all available possibilities. You will then be able to make optimal use of *Formatplanner*. Specifically, this means that the saddest track in the collection gets the criterion 'depressed' and the most cheerful 'euphoric'. Some radio stations try to sail a middle course by only varying tempo from 'slow' to 'uptempo' and not filling in Texture and Mood right away. If you later choose a 'slow' track in a format, a lot of tracks will comply, namely (on average) 33% instead of 20% if you had used all 5 possibilities. It is better to always fill in these fields in the database, even if you have *Formatplanner Basic*. Filling in or correcting an incorrect or incomplete database afterwards is a time-consuming task. Therefore, prepare yourself well and use all input options. If you later upgrade to a higher *Formatplanner* you will only benefit from this.

3.4 Criteria 2

The fields on the 'Criteria 2' tabs are filled in when using Formatplanner.

Five times 25 criteria to be defined are available for each track. The naming of columns and criteria are freely adjustable. By default, the criteria columns 'Type', 'Extra' and 'Target group' are set. The criteria columns 'Extra 4' and 'Extra 5' can be filled in and used as desired. The last two columns are used from *Formatplanner Xtra*.

It is important to properly fill in these columns and the name of the basic criteria based on the format that your radio station has in mind for the target group before actually adding tracks to the database.

🔁 (B	🔁 [Browse] Here we go - N-Sync 🛛 🗕 🗖 🗙							
Tradk Artiest Album Criteria 1 Criteria 2 Songtekst Statistieken Editor								
	Songtype		Genre		Doelgroep	Rotatie		Jaartal
	Tip					Uur opener		tot 1950
		7						50's
	Current							60's
	Recurrent					A - Rotatie		70's
	Golden Oldie				56-99			80's
	Oldie		Klassiek			C - Rotatie	1	90's
	Antiek		Dance Classic			D - Rotatie		00's
			Rythm & Blues					10's
			Reggae					2014
	Jingle							2015
			Soft Classic					2016
	Filler		Levenslied					2017
	Nieuws Tune		Country					2018
	Tijdsein							2019
			Carnaval					
	Effect		Soft / Easy					
			Rock 'n Roll					
	Stilte		Zuid-Amerikaa					•
	Tijdelijk							
			Voetbal					•
			Soft Pop					
	TimeShift							•
			Jazz Funk Coc					•
			Hip Hop / Rap		Todo			•
			Trance		Ready to Use			•
•					iser	🖶 🚯 🤅		و 💽 🔇

Tab Criteria 2

For each of these five criteria you can tick more than one option. Specifying a track as 'Hit' and 'Oldie' is not useful, but many tracks will be suitable for more than one target group. The target group criterion, like the other criteria, can be expanded to 25 options. Our advice is to limit the number of criteria used to avoid unrealistic format planning and a lot of unnecessary work.

Changing or moving criteria of multiple tracks simultaneously

Changing or moving criteria of multiple tracks at the same time can be done in the *Multi* criteria editor. You can do this by selecting the desired tracks in, for example, *Database* browser or *Item browser* and then selecting them in the submenus or the menu *Database* \rightarrow *Multi editor* or using the *CTRL+M hotkey*. The criteria information of all selected tracks is then loaded together in the *Multi criteria editor*. More information about the Multi criteria editor can be found in chapter 4.

3.5 Song text

The only field on this tab is the lyrics of this track. There are many lyrics available on the internet that you can simply copy and paste into the database. The 'Search' button automatically searches the internet for lyrics of the loaded track.



Song text tab

3.6 Statistics

On the 'Statistics' tab you will find, among other things, the planning and playing statistics of the track.

ᡖ [Browse] Here	we go - N-Sync 📃 🗖 🗙
Track Artiest Alb	um Criteria <u>1</u> Criteria <u>2</u> Songtekst Statistie <u>k</u> en Edit <u>o</u> r
	Statistieken
Toegevoegd aan da Laatst wijziging best Remote locatie: Nee Startsnelheid	tabank: Onbekend and: zaterdag 2 december 2000 19:46:30
	Laatste speeldatum
za 6-10-2018	16:18:07
	Komende speeldata
	<geen gegevens="" geven="" om="" te="" weer=""></geen>
	≡ Laatste plandata
za 6-10-2018	16:18:09
vr 21-4-2017	06:25:39
Historie	track Historie artiest
🗹 PFL volgen	Browser 📑 🐼 🐼 😥 🥝

Statistics tab

Added to	Date and time the item was added to the database.
database	

Last change file Last change file' shows when the audio file was last changed. This is especially useful for items that are downloaded, such as ANP (NL) or Belga (B) news bulletins. When browsing in *Database editor, it* automatically checks if a new Audio file has been delivered. This makes it clear to you as a user when the last Audio file has been delivered. See also *InOutBox*.

<u>Tip:</u> Alternatively, you can include **%d** in the title. In the *Live assist window,* AerOn Studio replaces this with the file date and -time. This gives you extra control over the news, for example.

Remote locationIndication whether the file is local or remote.This is particularly applicable if you work remotely from home or
elsewhere in the world.Last date of
playDate and time when this track was last played.

Upcoming dates	In 'Upcoming playing dates' information is displayed about the times at which this track will be played in the future. In other words, in which already planned date playlists this track is listed. This information is deleted when you delete playlists under management.
Latest planning dates	Under the heading 'Last planning data' you will find information about the times when this track was planned by <i>Formatplanner</i> . The plan data in the future may or may not be deleted after confirmation if you are planning a playlist or several new ones.
History track	Allows you to view the history of this track when it was played.
Artist history	Allows you to see in the history when tracks of this artist have been played.

3.7 Editor

On the last tab you will find the integrated audio editor. This integration allows you, among other things, to record new items and to enter the database data at the same time.

Tra <u>c</u> k Artiest Album Criteria	1 Criteria 2 Sor	ngtekst Statistiek	en Edit <u>o</u> r	
		Editor		
-75 -72 -63 -66 -62 -53 -56	-53 -50 -47 -44	-41 -37 -34 -31	-28 -25 -22 -19 -16	-12 -3 -6 -3 0
				-111
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00.30	01.00	01.50	02.00 02.30	03.00 03.
REFER	88	-16.0 kt	Iz (00) 255 kbps	MP2 Peak -2,2dB
	88 0 kHz 🛍		Iz (00) 256 kbps	MP2 Peak - 2, 2dB RMS - 18,0dB
REALLY Input 1: ADAT (1+2) (RME	Handreicher Fa	HELO kł	IZ (100) 25 kbps MP2 Stereo	MP2 Peak -2,2dB RMS -18,0dB
READY LIGHT	Play mode Fa	decurve	MP2 Stereo Mix mode Default	MP2 Peak -2,2dB RMS -18,0dB
REALTY Input 1: ADAT (1+2) (RMI © © © 0 0:00:00.00 Gain 0,0 dB © 7 fade in start 0:00:00.00	Hay mode Fa	L 2 2 6 kbps ↓ decurve ↓ decurve ↓ L 0:00:00.00	Hz (CO) Contraction (CO	MP2 Peak -2,2d8 RM5 -18,0d8 5144-30-32-25 -19 -13 -5 Refren 0:00:00.00 Fide-misi
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REFINY Input 1: ADAT (1+2) (RMI Input 1: ADAT (1+2) (RMI Imput 1: ADAT (1+2) (RMI)	Play mode Fa Play mode Fa BPM intro intro intro	Image: Constraint of the second sec	tz (000) 256 kbps MP2 \$ Stereo \$ Mix mode Default Key aue 1 I aue 2 I aue 3 I	MP2 Peak -2,2d8 RMS -18,0d8 -5144-38-32-25 -18 -13 -6 c Refrein 0:00:00.00 0:00:00.00 0:00:00.00 fade-in d fade-in d fad-in d fade-in d fad-in d fade-i
REFINY Input 1: ADAT (1+2) (RMI Input 1: ADAT (1+2) (RMI 0:00:00.00 Gain 0,0 d8 0:00:00.00 Gain 0,0 d8 0:00:00.00 Gain 0:00:00.00 0:00:00.00 D: (Judio WP2Wpeg3)\C3581.mp2 0:00:00.09	Play mode Fa BPM Play mode Fa BPM intro intro volgende kngte	HB.O k+ Construction of the second s	tz (000) Z G kbps MP2 \$ Stereo \$ Mix mode Default Key Cue 1 I Cue 2 I Cue 3 I	MP2 Peak -2,2d8 RMS -18,0d8
REFINY Input 1: ADAT (1+2) (RMI Input 1: ADAT (1+2) (RMI Input 1: ADAT (1-2) (RMI Imput 1: ADAT (1-2) (RMI) Impu 1: ADAT (1-2) (RMI)	KHz KHz	HB.Ok B.S. decurve · I 0:00:00.00 I 0:03:30.25 I 0:03:31.34	tz (00) 256 kbps MP2 \$ Stereo \$ Mix mode Default (0) cue 1 [(0) cue 2] (0) cue 3 [MP2 Peak -2,2d8

Tab Editor

You can set the range of the VU meters by right-clicking on them. You can set the range stepwise from -24 to -90 to 0 dB. The indicator to the right of the VU meter reading shows the peak value. The *CLIP level indicator* lights up when the recording is too hard, i.e. harder than 0 dB, to avoid distortion you need to record softer than 0 dB so that these indicators no longer light up. Double-click to reset the level indicator to *-inf*.

Editor plays on the 'Audio level reference'. AerOn Studio automatically applies a correction gain per track so that all tracks are played at the set reference level. See Settings $\rightarrow \rightarrow$ General > 'Extra' - Audio level reference.

Legend zooming in/out

4+	Zoom everything.
	Displays whole item
•	Zoom in.
•	Zoom out.
	Zoom start.
	Pressing this button will show you the first seconds of the track.
H	Zoom end.
	A press of this button will show you the last seconds of the track.
	Auto Cue.
	Set the 'Fade-in start' to the -50 dB level at the beginning of the track. If <i>Shift is</i> pressed: Set 'Next' to the -20 dB level at the end of the track. These default levels can be set in <i>Settings Global</i> $\rightarrow \rightarrow$ <i>General</i> > <i>Database editor</i> .
4 661	Cursor lock. When this function is active, the cursor (displaying the current

The yellow line in the editor is the fade curve. The fade curve is respected from beginning to end during nonstop playback.

position) remains on the screen during playback.

<u>Tip</u>: When playing an group (auto-start next) in *Live Assist,* the mix between each track is respected and played according to the standard mix times or according to custom mix times in *Mix editor*. When playing a single item in *Live-Assist,* the DJ always determines the fading with the fader on the mixer.

The fade curve and the different times are shown in yellow. With the help of seven points you can drag a line and adjust the times. The cursor then changes shape (\bigotimes) at the points and \square at the line segments).



① *Fade-in start* This is the point at which the track is started. The starting point may be after a silent intro. Changing this point also changes the *fade-in duration*.

- ② Fade-in This line moves the fade-in forwards or backwards without changing the fade-in duration or the fade-out.
- ③ *Fade-in end* This is the point where the fader is completely open. Changing this point also changes the fade-in duration.

For tracks that are not allowed to *fade in*, this point should be placed all the way to the left so that it coincides with the *fade-in start*. (Vertical line)

- ④ Whole track You move this line up or down to make the track between point 3 and 5 play louder or softer compared to the Audio reference level. For example, you can use this to make a bed that you can present.
- (5) <u>Fade-out</u> start This is the point where the track starts fading out. Changing this point also changes the fade-out duration. For tracks with a standing end move this point to the right so it coincides with the fade-out *end*. (hotkey *F*)
- Solution of the fade-out forwards or backwards without adjusting the fade-out duration or fade-in.
 Solution of fade-in.
 Solution of the fade-out duration or fade-in.
 Solution of the fade-out duration o
- ⑦ Fade-out end This is the point at which the track stops playing. This point may be before the end of the track.
 - Play. (Hotkey *P*) This button plays the item from the position of the dotted line, the cursor, in the graphical editor field. You can also enter this position very precisely using the mouse wheel or keyboard. If you double click on the waveform, the editor will play from that point.



"Stop. (Hotkey *S*) This button stops playback or recording.

Record. (Hotkey R) This button allows you to record audio from a sound card. Before recording an item, it is advisable to first check the settings. These are described below. The waveform is already calculated during recording so that it is immediately visible after recording.

"End of eavesdropping. You will hear the last seconds of the track. You can specify the length of this in Settings User \rightarrow Personal \rightarrow .



Playback start position.

"Walk. (Hotkey *L*) Allows you to determine cuepoints, intro and outro exactly.

Ignore fade By checking this function you can listen to the end of the track without fade-out.
Gain 0,0 dB 🗼	The playback volume of the track is automatically determined by AerOn Studio using the general Audio- reference level settings. A correction gain is automatically applied to each track.
	This gain is an offset to the general reference level. With the yellow line running through the waveform you can quickly adjust the gain offset. For example, you can let a track play softer as a surface. If the yellow line is dragged up or down, you will also see the waveform increase or decrease. The waveforms are automatically scaled to the <i>Audio level reference correction</i> + the applied gain offset.
	As soon as the total playback level reaches the peak value of 0 dB, the waveform will no longer increase. A track will never play louder than peak 0 dB.
BPM -	In this field you can enter the BPM information of the track in question. This is also automatically read from an ID3tag.
Кеу	In this field you can enter the initial-Key information of the track in question. This is also automatically read from an ID3tag.
Mix mode Default 💌	The Mix mode is used for the <i>AutoMix</i> function. With the Mix mode you can indicate whether a track/jingle is suitable for the use of <i>AutoMix</i> . When you select default and AutoMix the track/jingle can be used in all cases. This means that a jingle can also be scheduled under an intro where AutoMix is

e AutoMix function. With the Mix her a track/jingle is suitable for u select default and AutoMix the cases. This means that a jingle e scheduled under an intro where AutoMix is checked in the hour format.

At the bottom of the 'Editor' tab you will find a series of fields and buttons to set a specific cue or fade point. The play buttons and input fields have the same function for each item.

Playback from the set position, when passing a set point, this button lights up.

> During playback, click the button associated with the cue point to set a cue point. In this example, while the item is playing, press the 'Next' button.

An exception to this is that the time you set here should not be less than 0:00:00.06 (60 milliseconds).

This time should not be shorter to maintain the correct order in the playlist. It is recommended to set it to a minimum of 210 milliseconds due to margins and scrolling in *Mix editor*.

Tip: When moving tracks in *Mix editor* that are just after very short silence items, make sure that you do not inadvertently move the start position of the music track before the very short silence item. For example, take a silence item that is later replaced by traffic information, for example. If the silence item is or is shifted under a music track, of course the traffic information will get the start time of the silence item, which will also shift under the track and thus play back.

Also	with "Up	date	times o	of music	da	taba	se" you h	nave to	take
into	account	that	items	remain	in	the	desired	order	after
mixi	ng.								

The editor has hotkeys for setting Next (Hotkey N), Fadeout start (F), Intro (I) and Offro (O).

The cuepoints are entered at the cursor position using these shortcut keys.

With this button you can make a marker invisible.

The color corresponds to the line color of the marker in the editor window.

If necessary, you can set the setting point very precisely using the mouse wheel or keyboard. Click with the mouse in the field and rotate the mouse wheel.

Fade-in start The point where the fade-in begins.

Fade-in durationThis is the length of the fade-in. You can make the fade-in
shorter or longer as you like. Try out your settings by clicking
the play button before saving the changes. A vertical line
means: Don't fade in but immediately play it in full from Fade-
in start.

```
Fade-out start The point where the fade-out starts. (Hotkey F)
```

Fade-out duration This is the length of the fade-out. A vertical line means: Do not fade out and stop immediately.

Intro This is the time in the beginning of the track when the intro of the track ends. This is normally the point at which the vocals begin. Intro is shown with a white vertical line. (Hotkey *I*)

Uitro This is the time at the end of the track when the outro of the track starts. This is normally the point where the vocals end. Outro is shown with a white vertical line. (*Hotkey O*)

Cue 1 to Cue 3 Cue 1, 2 and 3 allows you to set a total of three points in the track for playback from a certain point in *Live Assist Xtra*. Each of these three cuepoints can be set completely randomly. (Line colors: light blue, pale blue, green)



0:00:58.54

Database editor

Refrain	You can activate the chorus option by checking the <i>chorus</i> checkbox. The chorus option has the same timing possibilities as a normal track. This allows you to define a chorus in a record. It is possible to add fade-in start/end, fade-out start/end and a next position.
	You can use this chorus in Jingle players.
Next	This is the time when you think the next track should and will play in the playlist.
	The time you set here should not be less than 0:00:00.21 (210 milliseconds). This time should not be lower because of the correct order in the playlist.
	Line colour = red (Hotkey N)
Length	This is the total length of the item.
	In addition to the indicators for bit rate, frequency and compression, you will find the button to go to the <i>Recording Settings</i> .
Recording settings	Select the input with which the audio is recorded. You can also select an input by right-clicking the VU meters.
Input	Input 1: Microfoon
	See also the recording settings in Settings Global $\rightarrow \rightarrow$ General > Database Editor.
Frequency (kHz)	The sampling frequency is 48 or 44.1 kHz. In the professional radio world a sampling frequency of 48 kHz is the standard. CD players and the popular mp3 (mostly) use 44.1 kHz.
Bitrate (kbps)	The bitrate only applies to mp2 and mp3. In general, the higher the bit rate, the better the quality. Recording in stereo is possible with the following bit rates: <i>64,</i> <i>96, 128, 160, 192, 256, 320</i> and <i>384</i> kbit; with mono, the bit rates 64 to 160 kbit are permitted.
File format (MP2)	The possibilities are: <u>PCM</u> : This is uncompressed audio. The required storage capacity is over 10 MB per minute stereo audio. <u>FLAC</u> : This is uncompressed audio. The storage capacity is about 2/3 of PCM. <u>MP2</u> : This format is used less and less often. <u>MP3</u> : popular choice and better sound quality compared to mp2 and adpcm at the same bitrate.

Channels (Stereo...) Stereo: the recording is done in stereo.

Left: the recording is done in mono, via the left channel.

Right: the recording is in mono, via the right channel.

Special Features 3.8

Audio recording from a sound card input

When you start recording, AerOn studio automatically creates a new file with the file format according to the recording settings. The default file name format is marked with "logged in user" and "date time" when recording started. For example "Johan 20191029 145714.mp3"

If you enter a file name on the track tab before you start recording, the file name format used is "file name date time".

For example "Afternoon program 20191029 145714.mp3"

If no default recording folder has been set, a window will open when you start recording in which you can select an audio folder.

To set a fixed recording folder. See Settings Global \rightarrow General \rightarrow Database Editor \rightarrow .

After your recording is finished and saved, you can then rename and save the track if desired. You can type and save a different file name on the track tab.

Tip: If you have added a new subfolder in Windows explorer, you can reread the audio folders and files via menu Database scannen Scan present. AerOn Studio will then refresh the file cache and add new folders and files to it.

Save as

As soon as you change the filename on the "Track" tab and then save it, the window below will appear where you can specify exactly what to do.

Opslaan muziekdatabank: 'Sorry, Blame It On M	e - Akon'
Databankgegevens	
- De databankgegevens van Akon - Sorry, Blame It On Me wilt u op	oslaan als Akon - Sorry Blame it on r
- Wat wilt u doen met de oorspronkelijke databankgegevens?	🔵 Bewaren 💿 Verwijderer
Audiobestand	
-De nieuwe bestandsnaam wordt: D:\Audio\mp3\Akon - Sorry Blame it on me.mp3	
- De oorspronkelijke bestandsnaam is: D: \Audio \mp3\Akon - Sorry, Blame It On Me.mp3	
- Wat wilt u doen met het oorspronkelijke bestand?	🔵 Bewaren 💿 Verwijderer
	OK Annuleren

You can easily rename an audio file this way or use the browse button to link a new audio file to the database record.

It is also possible to save a file in another folder. In that case, use the browse button to select another folder and press save. AerOn Studio will then show the window below.



Delete

If you delete an AudioID from the music database, you must first confirm this deletion with the 'OK' button in the window below.

Verwijderen muziekdatabank: 'Sorry	/, Blame It On Me -	Akon'
Wilt u de databankgegevens verwijderen?	O Ja	• <u>N</u> ee
Wilt u het bijhorende audiobestand verwijderen?	Ja	Nee
	OK Ann	uleren

If you decide not to delete database data or the audio file right away, you can do so later with the *Manage* function from the *Tools Management* menu \rightarrow .

Multi criteria editor

4

In the previously described *Database editor,* you change the data of a single track at the same time. In a number of cases, however, it may be desirable to set the criteria of several tracks identically at the same time or to assign the same image, for example to all the jingles of a new jingle package.

You can open the *Multi criteria editor window* after selecting one or more tracks in the following windows: *Playlist, Database browser, Item browser* and *Drag and drop audio files.* The *Drag and drop audio files window* opens automatically when you drag multiple files from Windows Explorer or *File browser* into AerOn Studio.

Multi criteria editor can be accessed via *Database Multi* \rightarrow *editor* menu or via the submenu in the various windows or via the CTRL+ M hotkey.

🖪 Multi criteria editor - Databank browser Xtra 🛛 🗕 🗖 🗙					
Irack Criteria 1 Criteria 2					
Artiest					
Buma categorie					
*					
Publiceren					
Wat Titel - Artiest 🔻 Aangepast					
Jaar					
Afbeelding					
14 OK	Annuleren				

Track tab

Manual AerOn Studio

🙍 Multi criteria editor - Databank browser Xtra 🛛 🗕 🗖					
<u>T</u> rack Criteria <u>1</u> Criteria <u>2</u>					
Beschikbaar Planner Gebruiker	Gain				
Uurgetal track	Key				
Uurgetal artiest	■ BPM				
Taal	Mix mode Default				
Samenstelling					
Weekdeel					
0 1 2 3 4 5 6 7 8 9 maandag 1 2 3 4 5 6 7 8 9 dinsdag 1 2 3 4 5 6 7 8 9 dinsdag 1 2 3 4 5 6 7 8 9 woensdag 2					
Jaardeel 01 januari	31 december				
14	OK Annuleren				

Tab Criteria 1

On the *Track*, *Criteria 1* and *Criteria 2* tabs, check which data and criteria you want to adjust for all selected tracks. The number of selected tracks is shown in the lower left corner of the *Multi criteria editor window*.

When you click OK, the criteria data adjusted on all tabs will be saved in the database at once for all selected tracks.

Users with the right "Database editor Change criteria" have access to Multi criteria editor. See chapter Users for more information on access rights.

Tip! If you have categorized the audio files on disk into subfolders, you can conveniently multiselect provide them with criteria. With Windows explorer or *File browser* go into a subfolder and drag these audio files into AerOn Studio. Once the *Drag Audio Files* window opens, select all or a select number of items in that window and then right click on the selection to open *Multi criteria editor*. Enter the criteria. Press OK to provide the selection with the criteria. Close Multi criteria editor when you are done with it. Repeat these steps for each subfolder on disk.

Browser database

5

Database Browser can be accessed via the Database Browser \rightarrow menu, the corresponding icon on the toolbar or the hotkey F11.

Database browser provides an overview of all tracks available on the system and in the database. Database browser allows you to browse the database, possibly using different criteria filters that you select.

By default, *Database browser displays* all available tracks. I.e. the tracks of which the audio file is actually present.

🔍 Databank browser	-	n X
Track Reset Ver	nieuwen 1.437 tracks. Filter Songtype: Golden Oldie	
Artiest	Titel	•
Queen	Radio ga ga	
Rick James	Glow	
Frankie Valli & Four Seasons	Oh what a night	
Nino De Angelo	Jenseits von eden	
Fleetwood Mac	Hold me	
Stars On 45	Stars on 45	
Sailor	Girls, girls, girls	
BJ Thomas	Raindrops keep falling on my head	
Maywood	Late at night	
Dire Straits	So far away	
Wayne Wade	Lady	
Cliff Richard	Some people	
Romantics	What I like about you	
Steve Miller Band	The joker	
Alan Parsons Project	Eye in the sky	
Prince	Raspberry beret	
Doe Maar	Sinds een dag of twee	
Spandau Ballet	Only when you leave	•
🛚 🔍 🔹 1437 Tracks 🕨 🕷 🔍		×

In the overview bar at the top you can see the number of tracks available, with, if applicable, the set filter.

Reset Undo the set filter.

Renew The data and metadata of the tracks are read again from the database in memory. You can use this option if changes have been made to the music database or if new tracks have been imported.

<u>**Tip:**</u> if a number of tracks have suddenly 'disappeared', it is quite possible that there is a PC somewhere that has scan permissions, but does not have access to all audio files. In that case you will have to use the menu execute *scan Presence* \rightarrow *Database* and then refresh *Database browser* to see all tracks again. See also the chapter *Scan permissions*.

The order, or rather the sorting in which the tracks are displayed, can be changed and adjusted by clicking on the title of the desired column. The title of the sorted column is shown in red letters.

5.1 Search

Database browser is equipped with various search functions. For example, if you want to search by artist, sort on the column 'artist'. Then you type in the name of the artist you are looking for and the *Browser* automatically jumps to the initial letters of the artist you are looking for and marks them if they are present in the database. In the same way, you can also look up titles, AudioID and other criteria in the database.

Shortcut Key CTRL+F opens a search window that searches for typed text in all visible columns. After the last keystroke, the search starts after 1 second.

🗵 sumi	mer	• Find Clear
AudioID		- Artiest -
XA0911	Those lazy hazy crazy days of summer	Nat King Cole
XB9945	This time I know it's for real	Donna <mark>Summer</mark>
XB3878	The woman in me	Donna <mark>Summer</mark>
XC1794	The taste of summer	Sonic Inc
XA4808	The <mark>summer</mark> time	BZN
XB1025	The summer is magic	Playahitty

Another method to quickly search is by using the right mouse button. Within *Database browser* you will find the menu below under the right mouse button:

D.	Kopiëren	Ctrl+C					
O,	Zoeken	Ctrl+F					
	Editor	Alt+F11					
	Multi editor	Ctrl+M					
	Externe audio editor	Ctrl+Alt+E					
\bigcirc	Historie						
\$	Vernieuwen						
•	Beschikbare tracks						
	Niet beschikbare tracks						
	Alle tracks						
	Songtype •						
	Genre	· · ·					
	Doelgroep	•					
	Rotatie	•					
	Jaartal	•					
	Taal						
	Tempo						
	Samenstelling	•					

Overview menu functions

Editor

The item selected in *Database browser* will be opened in *Database* editor.

The browse order in *Database editor* can be linked to the browse order of *Database browser*.

🗹 PFL volgen

Multi editor Change the criteria of selected items using *Multi criteria editor*.

External	audio	Open the selected item in, for example, Audacity or Audition.
editor		See Settings Local →General →> External Audio Editor
History		The selected item in <i>Database browser</i> will be opened in <i>History</i> . Here you get information about the plan and play dates of a song.
Renew		The data and metadata of the tracks are read again from the database in memory. You can use this option if changes have been made to the music database or if new tracks have been imported. Same as mentioned earlier.
Available		The available tracks are those that are in the database and have a corresponding file on the hard disk. The unavailable tracks are the ones whose audio file is not present.
Kind, Extra Language, Compositic),)n	This filters the tracks so that you only see the items that meet the criteria you have selected.

5.2 Export

AerOn Studio offers the possibility to export metadata of tracks from the database to an external program such as Word or Excel, choose menu *File Document* → *Export* and then one of the available options *Excel, HTML, Text, XML*. This way you can export for example a playlist or a selection of the data displayed in *Database browser*.

Another possibility is to copy the contents of the *Database browser window* via the Windows clipboard (*Edit Copy* \rightarrow menu).

Or hotkey CTRL+C and CTRL+V (copy and paste).

5.3 Database browser Xtra

Database browser Xtra is an extra module for *Database browser* that has more options to make it even easier for the user to find 'that one desired track' with more extensive selection and search options.

For example, on the 'Selection' tab you can select multiple columns which you can make visible with information in which you want to search, sort and filter.

- *Fields* Here you specify which fields from the music database you want to make visible in the columns on the 'Track' tab.
- Available at The default choice is 'User' and 'Present' and can only be changed by users who are allowed to check and change these options under Available in Database Editor. See therefore also the user rights.

<u>User</u>: Ticked Database browser only displays the tracks available for each user. These are the tracks where "User" is checked in Database editor. The user can drag and drop these tracks to the playlist. Put a cross here and Databank browser will display the tracks that are <u>not</u> available for a user. Users without the right of availability cannot change this tick.

<u>Planner.</u> Ticked Database browser displays the tracks available for Formatplanner. These are the tracks for which "Planner" is checked in Database editor. These tracks can be used by Formatplanner to plan the playlists. Put a cross here and Databank browser will display the tracks that are <u>not</u> available for Formatplanner. Users without the Right of Availability cannot change this check mark.

<u>*Present.*</u> Displays the tracks present in the database, including the audio file.

If you do not tick or tick an *Available option,* it will not be included in the filter. If you don't t tick or tick anything, all tracks will be shown, possibly within another critera filter. Users without the Right of Attribution cannot change this checkmark.

🖸 Databank browser Xtra 🛛 🗕 🗖 🗙								
Track Selectie Zoe	k Reset	Reset Vernieuwen 1.437 tracks. Filter Songtype: Golden Oldie						
🤝 Velden 🗙	Songtype X	Genre X	Doelgroep X	Rotatie X	Jaartal X	Taal X	Tempo 🗙	
Bestand Titel Auteur Songtype Genre Doelgroep Rotate Jaartal Taal Tempo Texture Mood Samenstelling Laatst gepland Laatst gepland Gain Intro Mix mode Refrein Import datum Sexhikbaar Aanwezig	Onbekend Tip Hit Current Recurrent Golden Oldie Oldie Antick Reclame Provo Jingle Prigel / Leader Tidsen Tidsen Info Effect Nieuws Tune Tidselijk . . TimeShift . .	Onbekend Pop Dance Rock House Klassiek Dance Classic Rythm & Blues Love Song Soft Classic Levensiled Country Kerst Carnaval Soft / Easy Rock'n Roll Zuid-Amerikaar Soul Voetbal Soft Pop Funk Jazz Funk Coo Hip Hop / Rap Trance	Onbekend 15-25 25-30 31-40 41-55 56-99 	Onbekend Uur opener - - - - - - - - - - - - -	Onbekend tot 1950 50's 60's 70's 80's 90's 2017 2016 2017 2018 - - - - - - - - - - - - - - - -	Onbekend Nederlands Engels Duts Frans Romaans Instrumentaal	Onbekend Zeer slow Slow Medium Uptempo Fast Samenstelling X Onbekend Man solo Vrouw solo Duo Mannen groep Vrouwen groep Mixed groep	

In the tab 'Selection' you can choose which columns and tracks with filter of criteria to make visible in *Database browser*. As soon as you have made a setting here and then click on the 'Track' tab, the selected setting will be activated.

🞑 Databank browser Xtra 📃				
Track Selectie Zoek Reset Vernie	euwen 1.437 tracks. Filter Songtype: Golden Oldie			
Artiest	Titel	Jaar 🔺 Duur	•	
Chris Rea	The road to hell	1989 03:06.2		
Black Box	Ride on time	1989 06:14.5		
Lisa Stansfield	All around the world	1989 04:20.7		
Rene Froger	Alles kan een mens gelukkig maken	1989 03:59.9		
Tears For Fears	Sowing the seeds of love	1989 05:54.5		
Buster Pointdexter	Hot hot	1989 03:42.4		
Clouseau	Anne	1989 02:39.4		
Richard Marx	Right here waiting	1989 04:17.4		
Edelweiss	Bring me edelweiss 1989 03:12.6			
Simply Red	If you don't know me by now	1989 03:19.6		
Jive Bunny & The Mastermixers	Swing the mood	1989 04:01.1	•	
Phil Collins	Another day in paradise	1989 04:46.1		
Monie Love	I can do this	1989 02:53.3		
Roy Orbison	You got it	1989 03:27.9		
Cher	If I could turn back time	1989 03:45.3		
Roxette	The look	1989 03:46.8		
Tol & Tol	Eleni 1989 02:4			
Radios	I'm into folk	1989 02:45.7		
Kaoma	Lambada	1989 03:14.5		
Stone Roses HI HI I 1437 Tracks > >> HI I III	Fools Gold	1990 04:09.3	•	

If you then return to the 'Selection' tab, you will see that there are still various criteria that can be used to make a selection, such as 'Type', 'Extra', 'Language', 'Tempo'... You can tick the desired criteria. Above each criterion column or group you will find a button for quick deselection.

×	Deselect all items in the column. If you do not select any item, filtering will not be performed. All items in the database will then be displayed.
Reset	Undo selection filter.
	This does not apply to the columns and availability.
Renew	Reload the database. To make changes made in <i>Database editor</i> or added tracks visible you need to reload the database.
	Tip: If tracks are not visible, check Scan straight.
	By means of <i>Present scan</i> in <i>Menu Database</i> and then <i>Refresh</i> you can make tracks (again) visible.

Under the right mouse button you will find the menu below.

ľ	Kopiëren	Ctrl+C	
Q	Zoeken	Ctrl+F	
	Editor	Alt+F11	
8	Multi editor	Ctrl+M	
	Externe audio edito	r Ctrl+Alt+E	
\bigcirc	Historie		
2	Vernieuwen		
	Songtype		×
	Genre		۰
	Doelgroep		۲I
	Rotatie		۲I
	Jaartal		۲I
	Taal		۲
	Tempo		۲
	Samenstelling		•

On the 'Search' tab you can perform more detailed searches.

🞑 Databank browser Xtra	_ = ×
Track Selectie Zoek Reset Vernieuwen	26.117 tracks. Geen filter.
Track Selectie Zoek Reset Vernieuwen Titel met de tekst	26.117 tracks. Geen niter. Uurgetal groter dan of gelijk 0
Uurgetal track kleiner dan uurgetal artiest	Mood onbekend t/m euforisch

<u>Tip:</u> The results of these additional search fields are shown on the *Track* tab.

Title with the text	Here you can search in the titles. The title does not have to start with the text. Titles containing the search text will be displayed.		
	Type in text and select the track tab to display the result.		
Artist with the text	Here you can search in artists. An artist does not have to start with the text. Artists containing the search text will be shown.		
	Type in text and select the track tab to display the result.		
Lyrics with the	Here you can search in song lyrics.		
lyrics	Type in text and select the track tab to display the result.		
Display hour	Determines the display of hour digits.		
number	Exactly:		
	Hourly figures are displayed in weeks, days and hours.		
	Rounded up:		
	Hourly figures are displayed in weeks or days or hours.		
Display tracks	Double title and artist: With this option a separate filtering takes place in which only those tracks are displayed whose title and artist combination is present in the database two or more times.		
	<u>Hour number track smaller than hour number artist</u> : With the hourly number artist you control how often an artist and thus the tracks can be planned. For example, for hits of which the hourly number <i>track</i> is often lower than the artist's hourly <i>number</i> ,		

you probably get an artist in the playlist more often. You can make these kinds of tracks visible with this option.

- *Hour count...* Here you indicate that the filter shows the tracks that should have a certain track hour number.
- Period This option allows you to set a filter with which you want to see tracks that have been planned or played in a time frame to be specified.

Texture You can filter the texture here by moving the green bar.

Mood You can filter the mood here by moving the green bar.

Navigation bar

🛚 🖣 🔹 30 Tracks	5 🕨 🕪 🕬 🔍 🏪
144	First item
**	Previous Page
•	Previous item
30 Tracks	Number of items in the search filter
•	Next Item
	Next Page
•••	Last item
•	Search window
T=	Switching between "Standard view" and "Group in tree view"

In grouped view, columns are displayed in a tree structure.

Drag column headers onto the grouping surface to include columns in the tree grouping. The tree structure is built with column headers from left to right. Drag the column headers on the group plane to change the sorting of the tree structure in order.

Manual AerOn Studio

🖸 Databank browser Xtra		_ = ×
Track Selectie Zoek Reset Vernieuwen	1.189 tracks. Filters: Songtype, Taal	
⊠ lionel	✓ Find Clear	
Artiest 🔺 - Jaar 🔺		
Artiest	▲ Titel	Duur 🔷
 Artiest : Diana Ross & Lionel Richie Jaar: 1990 Artiest : Lionel Richie Jaar: 1983 Jaar: 1984 Jaar: 1985 		
Lionel Richie	Say you say me	03:55.1
 ✓ Jaar: 1988 Lionel Richie ✓ Jaar: 1992 	Easy	02:59.9
Lionel Richie	My Destiny	03:34.4
🕅 🕫 🗸 Tracks 🕨 🗰 🔍 🎁		

6 Item browser

Item Browser can be accessed via the Database Item \rightarrow Browser menu, the corresponding icon on the toolbar or the CTRL+F11 hotkey.

Item browser offers the possibility to organize the tracks and items present in the database in a tree structure. The tree structure can be built up according to your own wishes.

🛓 Item browser					×
Categorie	Titel 🔺	Artiest	Duur		
Alles					
🕨 👬 DJ	Blue monday	New Order		04:04.7	_
▶ Jazz	Boogie wonderland	Earth, Wind & Fire feat. Phats & Sma		03:33.3	
 Muziek 	Brand new start	All Of Us		04:05.4	
Voetbal					
🔻 🚨 Autologon	Bubbly	Colbie Caillat			
10 CC					
Kerst	Busindre reel	Hevia		03:17.0	
Nieuwste	Call me				
Playlist	Can I get there by candlelight	David McWilliams		02:44.2	
Tijdelijk	Can't stand losing you				
	Can't we try				
	Causing a commotion	Madonna		04:16.1	
	Celebration	Kool & The Gang		04:50.8	
	Cherry oh baby	UB40		03:14.4	
	Climbing	Lionel Richie		04:30.5	
	Come back to love	Mr. Happy		04:35.6	
	Conga	Gloria Estefan		04:12.1	
	415				

On the left is the tree structure with all categories. *Item browser* has *general categories*, *user categories* and *group categories*.

The username-main category and the group name-main categories are created automatically. In each of these categories you can build a tree structure. You can add general main categories as you wish.

The names of general categories are white and accessible to all users. The ability to add a category depends on the access rights.

User name categories are coloured yellow and can only be accessed by the logged in user. Each user can build a tree structure in his own personal category under his own account.

Group name categories are coloured green and can only be accessed by users who are members of the relevant user group. All users who are a member of a group have access to the tree structure in this category. Depending on their access rights, they may create a tree structure in a group category.

In the user rights you can set per user whether he or she is allowed to create and change general categories and/or group categories.

Using the menu under the right mouse button you can add, change or delete categories.



Add a category

When adding a category, enter a name and choose a suitable icon. If categories have already been created, a sub-category in the focussed category will be created by default.

Under 'Content' you can choose to create a new category based on a criteria filter or a category in which you can add items manually by dragging (default selection). Creating a new general main category as "root folder" in *Item browser* is possible by checking 'New main category tree'.

😝 Categorie toevoegen	×			
Geef de naam van de nieuwe categorie I				
I Icon				
Inhoud				
Handmatig slepen				
Filter criteria				
Nieuwe hoofdcategorie-boom				
OK Annuleren				

After creating one or more "Manual Categories" you can drag and drop items from e.g. *Database browser* into the desired category in *Item browser*.

In addition to manual categories, filter categories can also be created. For each filter category you can create a filter with the available selection criteria.

You can open and close the created tree structure with the arrows next to the categories or with the '+' and '-' keys on the numeric part of the keyboard. Open all categories at once with CTRL + and close all categories with CTRL -.

Edit categories

If you right-click on a category item, the following menu appears:

Q,	Zoeken	Ctrl+F		
	Editor	Alt+F11		
8	Multi editor	Ctrl+M		
	Externe audio editor	Ctrl+Alt+E		
Ð	Historie			
×	Verwijderen	Ctrl+Del		
	Verwijderen Item browser, Databank en Audio			

Most menu items speak for themselves. A few require further explanation.

- The Delete option only removes the item from Item browser.
- With the option "Delete Item browser, Database and Audio" you not only delete the item from Item browser, but also from the Music database and you also delete the

audio file from hard disk. When using this option, you will be asked for confirmation so that you cannot delete it by mistake. Users with insufficient rights are not allowed to invoke this option.

You can change the order of the columns by dragging and dropping them. Which columns you want to have visible can be set in the column header menu. By clicking on the title bar of the columns with the right mouse button you can open this menu.

~	Titel
~	Artiest
~	Duur
~	Gewijzigd
	BPM
	Key
~	Jaar
~	Intro
	Bestand
	Album

The browse order of *Database editor* can be linked to the browse order of *Item browser*.

Editing and production

One of the advantages of using *Item browser* is that items added to a category are also directly visible on another PC in the network. This way the news editors can produce items and make them ready for the DJ and technicians in the studio.

To automatically add to categories, refresh or import items, use *InOutBox*. Categories in which *InOutBox* places new or refreshed items that turn red so that the DJ immediately notices that the content has changed.

InOutBox can be used to set up a system where users (via ftp or dropbox) place audio files in a designated folder on disk, which *are* then *moved* by *InOutBox* and added to an *Item browser category* set in *InOutBox*.

It is also possible, with the options available in *InOutBox*, to set items to be added to a specific user or group category while these items are not visible in *Database browser* and are thus shielded from other users. See chapter *InOutBox*.

6.1 File browser

File browser can be accessed via the Tools File \rightarrow Browser menu or the CTRL+B hotkey.

File browser allows you to browse through the audio folders, see if audio files are present in the database, update metadata in ID3 tags of audio files to the database, display audio info and drag audio files to various modules.

File browser						×	
D:\Audio\MP3\Back to the 80s\A-Ha - Take On Me.mp3							
Mappen en bestanden		Laatst gewijzigd	Bestandsgrootte				
▶ 🗁 MP2							
🔻 🔚 MP3							
Adele							
▼ ack to the 80s							
A La Carte - You Get Me On The Run.mp3							
A-Ha - Take On Me.mp3	D:\Audio\MP3\Back to the 80s			Take On Me			
Abba - The Winner Takes It All.mp3							
Agnetha Faltskog - The Heat Is On.mp3							
Al Bano & Romina Power - Liberta.mp3							
Al Bano & Romina Power - Sempre Sempre.mp3							
Alan Parsons Project - Mammagamma.mp3							
Albert West & Albert Hammond - Give A Little Love.m							
Albert West - Munich Night.mp3							
Alison Moyet - That Ole Devil Called Love.mp3							
Alvin Stardust - A Wonderful Time Up There.mp3							
Alvin Stardust - Pretend.mp3							
America - The Border.mp3							
Andrea - I Am A Lover.mp3							
Anita Meyer - Rock Me Up A Mountain.mp3							
Anne Murray - Walk Right Back.mp3							
Art Of Noise - Moments In Love.mp3							
Audrey Landers - Little River.mp3							
Audrey Landers - Manuel Goodbye.mp3							
Bangles - Manic Monday.mp3							
Barbara Dickson - January February.mp3							
Barbra Streisand - Woman In Love.mp3							
Barry & Eileen - Ibiza.mp3							
Barry Manilow & Kid Creole - Hey Mambo.mp3							
H4 +4 + 267 bestanden → >> >> → -267 bestanden							

Setting root folders

For each user, two *File browser root folders* can be set in the user rights. See *menu* Users \rightarrow Access. If the first root folder is not filled in (default setting), the user can browse through all audio folders.

For example, you can set up a folder for each user in the first root folder containing audio files and subfolders for general use. You can also set up a folder in the second root folder containing personal files of the user in question, for example.

Adding files to the database

If 'Add database' is checked in the status bar, files are added to the database when dragging to, for example, the *Playlist* or *Database editor*.

Adding to the database depends on user rights. If you are unable to check the '*Add* database' checkbox, you have not been granted any rights to do so.

Right click on an item in the *File browser tree and* the tree-menu will appear:

>	Tags	۲
	Editor Alt+F11	
	Externe audio editor Ctrl+Alt+E	
	Open in Windows verkenner	

With the options in the tree-menu, audio files can be opened in *Database editor*, or in External audio editor and also in Windows explorer. Whether you are allowed to do this depends on your user rights.

Via the File browser-tree menu you can open the tags menu.

P	Update geselecteerde tags naar databank >>		
1	Selecteer alle tags		
\$	Selectie omkeren		
~	tag Artiest		
~	tag Titel		
	tag Auteur		
	tag Jaar		
	tag ISRC		
	tag BPM (Beats Per Minute)		
	tag Key (Initial Key)		
	tag Commentaar (Track info)		
	tag Album		

The tag items in this menu are automatically activated as soon as the corresponding tag column is activated via the column header menu. The metadata of ID3 tags in audio files can be updated to the database using this tag menu, provided that you have all rights to edit everything in *Database Editor*.

Update database

Select audio files in *File browser,* right click on the selection and open the tag menu. From the tag menu, select the tags of the metadata you want to update to the database and then click "Update selected tags to database".



This can be useful if you have updated the meta data in your audio files with an ID3 tag editor such as Mp3tag. https://www.mp3tag.de/en/index.html.

In the column header menu, the various columns can be activated.



7

Playlist

A Playlist can be accessed via the File Open \rightarrow Playlist \rightarrow menu or the icon on the toolbar.

A playlist is your radio station's playlist for playing tracks, commercials, jingles, promos, news, info, external feeds, etcetera. In most cases you use *Formatplanner* to create a playlist and *Commercialplanner* for the commercials that are added to it. Both program components are described in separate chapters. In this chapter we describe the playlist and explain how you can customize it yourself.

Below is an example of a playlist. In the title bar at the top you can see which day this playlist is for. The colour of the title and artist in the playlist is determined by the category to which the song belongs. You can change the colour of the categories in the *Global* \rightarrow *Criteria* \rightarrow *settings*.

🖬 Play	list - maandag 2	22 mei 2	2017 12:00 tot 14:00			_ = >	¢
Star	t C	Duur	Titel	Artiest		Intro	
	12:00:00 0	01:30			ľ		
۵ م	12:01:30 0	02:55	Commercials		Ø		
	12:04:25 0	00:04	Uuropener 2017	- Jingle - Opener 2	ľ		
	12:04:29 0	03:01	Overal	F1rstman ft. DJ Youss-F & Boef	Ø	00:09	
	12:07:29 0	03:42	Don't Look Down	Martin Garrix feat. Usher	Ø	00:10	
•	12:11:04 0	00:04	S&SI - Goeiemiddag	- Jingle - S&SI - 18	ľ		
	12:11:06 0	03:05	Wrapped Up	Olly Murs feat. Travie McCoy	Ø		
	12:14:08 0)3:51	Shape Of You	Ed Sheeran	ľ	00:10	
•	12:17:58 0	00:06	S&SI Essensueel	- Jingle - S&SI - 19	Ø		
	12:18:02 0)3:22	Parachute	Otto Knows	Ø	00:07	
	12:21:23 0)3:27	Ego	Willy William	ľ	00:22	
	12:24:49 0	00:06	Cool fm - van kust tot kust (acc)	- Jingle - Cool - 31	Ø		
	12:24:53 0)3:40	Wrecking Ball	Miley Cyrus	C	00:07	
	12:28:24 0	04:05	Love Never Felt So Good	Michael Jackson & Justin Timberlake	Ø	00:14	
	12:32:24 0)3:23	Pillowtalk	Zayn	Ø	00:15	
	12:35:45 0	0:05	Cool fm - meer van het beste (acc	- Jingle - Cool - 25	ľ		
	12:35:48 0	02:54	Stay With Me	Sam Smith	Ø	00:11	
	12:38:37 0	2:56	Ta Fete	Stromae	Ø	00:07	
	12:41:30 0	00:02	Axxes - axxes on-line (diep)	- Jingle - Axxes - 34	Ø		
	12:41:32 0)3:45	Naturally	Rondé	Ø		
	12:45:14 0	04:27	Not A Bad Thing	Justin Timberlake	ľ	00:17	
	12:49:37 0	04:26	Hotline Bling	Drake	Ø		
	12:53:37 0	03:59	Bad Things	Machine Gun Kelly & Camila Cabello	ľ	00:14	
► 😯	12:57:23 0)2:36	Commercials		Ø		
	13:00:00 0)1:30					
► 🔮	13:01:30 0	02:50	Commercials				
	13:04:21 0	00:04	Uuropener 2017	- Jingle - Opener 2			
	13:04:24 0	04:36	The Days	Avicii		00:07	1

Playlist in detail view

Manual AerOn Studio



Playlist in tile view

The 'Start' column indicates the time at which the item will play. This start time may vary if you interrupt the program for live broadcasts. If there are dashes at the start time, this indicates that the track will not be played because of an item in the next block to be started (e.g. a filling block or blocks with a fixed or semi-fixed start time).

Just like *Database browser,* you can also sort a playlist by the columns 'Duration', 'Title' and 'Artist'. You can use this sorting to check how often a certain artist appears in a playlist. Sorting by column duration gives you a quick check which is the longest track of the day.

In a playlist that is not sorted by 'Start', you cannot make any changes. You can restore the 'Start' sorting by pressing the 'Start' column. Or press function key F9 which displays the active playlist item that is not playing. The columns can also be dragged together. This allows you to arrange a playlist as you wish. The commercial blocks are closed by default. You can open and close them by clicking on the arrow in the left column. You can open all blocks at once with the key combination CTRL + and close all blocks with CTRL -.

A playlist is usually, by means of fixed or semi-fixed items, divided into blocks. Multiple users can edit the same playlist at the same time and, for example, each record voicetracks in their own block. The playlist can be changed to block view during editing

(<u>show all blocks off</u>) to prevent the playlist from following the active item with every record change. A playlist in day view always follows the track changes of the active unplayable items.

Blocks in use are visually given a reserved indication. If a user tries to edit a block that is being edited elsewhere, a message appears on the screen indicating which user is using that block.

Playlist mode

AerOn Studio has four modes for the playlist items, these are floating, filling out, fixed and semi-fixed:

Floating:

In most cases the items (music, commercials et cetera) just come smoothly one after the other. The moment a track is finished, the next one starts and so on. These items have the characteristic 'floating' and are indicated in white letters in the playlist in the columns 'Start' and 'Duration'. *Hotkey CTRL+L*.

Filling out:

The second mode is 'filling out'. Items with mode filling out are always stuck against an item with a fixed or semi-fixed start time. Many radio stations use an hourly advertising block that plays for the news. Because an filled out block is stuck against a fixed item, an filled out block also has a fixed starting time. The start time of an advertising block is the start time of the (semi-)fixed item minus the length of the advertising block. A filed out block eplays in its entirety and does not break down. The playlist shows the start time and duration of these items in yellow letters. *Hotkey CTRL+U*.

<u>Fixed:</u>

A number of items require a fixed start time. The most famous example is the news. A fixed item is always the first item of a playlist block. Fixed items divide the playlist into blocks. The Fixed option is indicated in the day format or in the playlist edit window. The start time of a fixed item is shown in red numerals. AerOn Studio guarantees that fixed items will start exactly at the specified time, which means that a previous item will be aborted.

In Automation \rightarrow General \rightarrow settings, you can specify that floating items that have to give way to a fixed item will be neatly faded out.

<u>Tip:</u> If you want to remove a fixed item from the playlist, first change the mode to floating. You can also make a fixed item floating by dragging it down.

Semi-fixed

A semi-fixed item is dynamically fixed. The start time of a semi-fixed item is shown with green digits. A semi-fixed item is always the first item of a playlist block. Semi-fixed items divide the playlist into blocks.

The semi-fixed option is indicated in the day format or in the playlist edit window. In *Global* \rightarrow *General* \rightarrow *Tools* \rightarrow *settings,* you can set the *Margin Semi-Fixed,* which determines how much time the semi-fixed item is allowed to move back in time.

The actual start time of semi-fixed is always determined at the start of a track. Especially in Live-assist this is noticeable if you determine the start of a track yourself. If the news is set to semi-fixed, the last playing track before the news will not be aborted, but will continue to the end. If a fill block is programmed, AerOn Studio will also take this into account and will not abort the playing track before the fill block. An filled out block automatically floats along with the semi-fixed.

<u>Tip:</u> If you want to remove a semi-fixed item, first change the mode to glide. You can also make a semi-fixed item slide by dragging it down.

If you double-click on an item in the playlist, a window appears in which you can change the item and the desired mode. The same window appears when you click on the toolbar to *add* items. *Shortcut key CTRL+I*

Eigenschappen voor playlistitem		
Titel	Artiest	
Battle hymn of the republic	Andy Williams	
I know there's something going on	Frida	
Wake me up before you gogo	Wham	
Als 'n meeuw in de wind	Arne Jansen en Les Cigales	
Would I Lie To You	Charles & Eddie	
Starships	Nicki Minaj	
It's Been So Long	George McCrae	
It's never enough		
First day of my life	Rasmus	
Runaround sue		
No time to waste 2003	Dream Team vs. T. Spoon	
Hungry For Love	Di-rect	
Rock The Night	Europe	
Red Alert	Basement Jaxx	
Breakfast in bed	UB40 & Chrissie Hynde	
Kippenvel	Ruth Jacott	
24 Hours	Agent Sumo	
Item	Mode	
Audiobestand D:\Audio\MP3\Nicki Minaj - Starships (Exp	••• Glijdend	1
Irack uit databank		
	Begintiid 15:00:30.0	
Extern <u>a</u> udio-apparaat	Lengte 0:03:27.9 Semi-vast	
Bron Aeron Studio 💌	Play OK Annuleren	

The characteristics of a playlist item are divided over a few panels:

<u>ltem:</u>

Track from
databaseThis is the most common item type. Examples are musictracks,
jingles and commercials. If you choose this type, select a track in
the *Playlistitem browser*.ExternalHere you can select one of the external audio devices that you have

audio-device set up for forwarding a external feed program. These can be sources connected to a sound card, an (internet) stream or via a supported Asio board or a mixer source (e.g. D&R Axum). You must also set the length in UU:MM:SS and tenth of second.

<u>**Tip:**</u> If you want to pass on the same external feed (program) for several hours, it is better to place the same external audio device several times in succession with a length of 1 hour each time. AerOn Studio ensures that transitions between the same external audio devices run seamlessly into each other.

Mode:

Here you can set whether or not an item should be 'floating', 'filled out', 'fixed' or 'semifixed'. See the previous page for more information about these different types. The mode can only be changed if the playlist is in day view. (Day view = Show all blocks)

You cannot specify the start time of a floating item, it depends on the previous item.

Source:

The items put in the playlist by *Formatplanner* or by you all have 'AerOn Studio' as their origin. *Commercialplanner* also marks added items.

If in the meantime the planning of the commercials changes and the playlist needs to be adjusted, 'source' can be used to detect which items need to be removed from the playlist first before the new commercials take their place.

Activate columns

If you click in the title bar of the playlist on the header of Artist or Title with the right mouse button, you will see the menu below.

Detail mode:

	Tegel	1
•	Detail	
\checkmark	Intro	
	Bron	
	Actie	
~	Plananalyse	
	Gebruiker	
	BPM	
	Key	
~	Jaar	
	Album	
~	Overzicht blokken	
	Volgorde tracks >	

Tile mode:

٠	Tegel	
	Detail	
	Startkolom	
\checkmark	Afbeeldingen	
~	Overzicht blokken	
	Volgorde tracks	>

Tile / Detail	Display of the playlist with tiles or detailed information.
Intro	This allows you to make the 'Intro' column visible, which can be useful if you are going to record voicetracks.
Source	The 'Source' indicates where the track comes from. By default this is AerOn Studio, but commercials are usually marked as coming from <i>Commercialplanner</i> .
Action	Here you can see if there is an action linked to the track.
Plan analysis	This option is only visible to users who have purchased the <i>Plan Checker</i> module. As soon as you click this option, 4 extra columns ('Number', 'Alternative', 'Hour format', 'Index') for the plan analysis will become visible.
User	Here you can see which user is using the block in question.
Overview blocks	This option makes the left column with calendar and block overview visible.

- *Order tracks* This option determines the visual sorting of jingles slid under an intro. Default sorting is Begin
- *Start* The playlist is sorted according to the start time.
- *Middle* The playlist is sorted according to the middle of the tracks. This view is recommended if you usually slide jingles completely under intros in *Mix editor*. This option only applies to the *Voicetracking Xtra* module.

If you click on the right mouse button in the playlist, the menu below will appear:

ø	Knippen	Ctrl+X
Ľ	Kopiëren	Ctrl+C
Ĉ	Plakken	Ctrl+V
Ĉ	Plakken (mixtijden datak	oank) Ctrl+E
G	Vernieuwen	Ctrl+N
đ	Uurformat	
Q	Alternatieven	
2	Editor	Alt+F11
11.	Mix editor	F5
	Externe audio editor	Ctrl+Alt+E
5	File browser	Ctrl+B
Q	Historie	
•	Doorstarten	Ctrl+D
	Uitvullen	Ctrl+U
	Glijden	Ctrl+L
2151	Automix (Intro/Outro)	Ctrl+O
	Update tijden	•
	Bron	+
Z	Wijzigen	Ctrl+W
╋	Toevoegen	Ctrl+Ins
×	Verwijderen	Ctrl+Del
O,	Zoeken	Ctrl+F
	Blokken vrijgeven	Ctrl+K
ľ	Blok reserveren	Ctrl+Alt+K
	Controle	
	controlem	

Most choices in the menu speak for themselves. Some require further explanation:

Paste mixing times databas	When pasting items into the playlist, this function takes the default mix times and fade curve out of the database.
	(Hotkey CTRL+E)
	This particularly applies to the pasting of items that have been unplayed. (After copying from a playlist in the past) For example, tracks that have been played during a live broadcast may have been started early or delayed, moved in or out. Also, tracks may have been skipped and the duration of a track may have been changed.
	Pasting mix times from the database (CTRL+E) prevents unwanted items in the playlist that still has to be played from sliding over each other or lying apart because you, or someone else, previously played it like this in <i>Live assist</i> .
	For standard slices ($CTRL+V$), the mix times are always taken from the source playlist. Mixt times that are adjusted in the source playlist with <i>Mix Editor</i> are retained for standard pasting ($CTRL+V$).
	In case you copy items from a playlist that hasn't been played before, the mix-times of already played tracks will be copied exactly the way it was played before with standard paste $(CTRL+V)$ and the mix-times and the fade-curve will be pasted exactly the way it was played before.
	After using (CTRL+V), check the transitions in <i>Mix editor</i> . And if you find it necessary, reset the transitions with the function "Update times of music database".
Hourly format	(<i>Plan checker</i>). This option allows you to jump directly to the item in the hour format with which this track is scheduled. This menu option only appears for users who have purchased the <i>Plan analysis</i> or <i>Plan checker</i> module. To make the <i>Hour Format option</i> available to these users, the <i>Plan Analysis</i> must first be enabled. To do so, click on the title bar of the <i>Playlist</i> and check the option <i>Plan analysis</i> .
Alternatives	(<i>Plan checker</i>). Like <i>Hour Format</i> , this option is only available to users with the <i>Plan Checker module</i> who have also enabled Plan Analysis. With the option 'Alternatives' you will see alternatives for the selected track based on the criteria entered in <i>Database Editor</i> .
Editor	The selected item opens in <i>Database Editor</i> . The browse order in <i>Database Editor</i> can be linked to the browse order of the playlist.
Update times.	By changing the transitions in <i>Mix editor,</i> the times are adjusted for those tracks. AerOn Studio stores these mix times in the playlist. You can undo these changes.
of the music database	This restores the mixing times between selected tracks to the default values entered in the music database with <i>Database</i>

Editor.

(Hotkey: CTRL+T)

You must select at least two tracks to restore the mix between those tracks to the default mix times.

Your previous action(s) with *Mix Editor* will be undone.

- ...Levels If the mix times you enter in *Database Editor* are not yet completely in order, you can still adjust the mix times in the playlist as desired with this *Levels* function. With this function, AerOn Studio searches the hard disk audio files of the selected tracks for the -20 dB point and uses this once to start the next track.
- ...File duration Normally, the length of an Audio file corresponds to the values in the music database. This is usually no longer the case if you rerecord an item outside AerOn Studio (with Adobe Audition, for example) or if it is a news item from which automatic recording takes place. This function checks the actual length of the item and adjusts the music database if necessary.
- *...to the music* Changes the changes made in Mix Editor from the playlist to the music database.

You should keep in mind that a mix that sounds very good between two specific tracks might be less nice with other tracks. Therefore, be careful when using this function.

- *Sync...* This option is only available if the remote audio folders are active. For more information about the remote audio folders, refer to chapter 39 *AerOn Studio at home*. See also *Scan rights*.
- ...Voice tracks Loads the voicetracks from the selected part of the playlist into the synchronization module and from there synchronizes them from a remote location to the studio.

Here, too, the rule applies, chapter 39 AerOn Studio at home.

- ...Audio files Loads the audio files from the selected part of the playlist into the synchronization module and from there synchronizes them from an external location to the studio or vice versa.
- *Check* AerOn Studio performs a check of the entire playlist, including checking whether the audio file of the tracks in the playlist is actually present.

It is recommended to check the playlists prepared for broadcast the day before.

Time shifter, add Adds to the *Time shifter* a task for recording based on the selected playlist item time frame.

Automix

This function allows AerOn Studio to automatically mix the selected track or jingle based on the general Automix settings. Settings General $\rightarrow \rightarrow >$ Automix.

Jingles that are completely under an intro or outro of a track get a custom display of the start time.

	23:11:53	03:40	Iroublemaker	Talo Cruz	ß
٢	23:15:25 *	00:05	Shotgun - Radio IBC	Radio IBC	C
	23:15:16	03:29	Love is the seventh wave	Sting	C
٢	23:18:42 *	00:11	Full version - Radio IBC	Radio IBC	C
	23:18:31	04:38	Thinking Out Loud	Ed Sheeran	C

Display jingle under intro

<u>**Tip:**</u> Group *Automix jingles* to make them start the next track automatically in *Live assist.* (Blue arrow indicates that the next track will start automatically)

7.1 Special Features

HTML export

The *File OnAir* \rightarrow *export* menu allows you to export a playlist to export templates in a customizable format. In this manual a chapter is dedicated to exporting to HTML, XML, Text (see chapter 24).

<u>Print</u>

With the option 'print' you can print a playlist or a part (selection) of it on paper or pdf. If you choose *File Print Preview*, you will get a preview window:

			Playlist 18-3-2015	
Start	Duur	Afkomst	Titel	Artest
000000	03:30	HD	Tazanboy	Baltimore
000330	0403	HD	Love to see you cry	Errique Idesias
00:07:34	04:24	HD	Windenzeilen	Solising
001158	03:10	HD	I tel triou	Bob Sinclar
001508	00:01	HD	Axes - axes on-line (whispe)	- Jingle - Axtes - 2
00:15:10	03:36	HD	Mmm mmm mmm	Crash Test Dummes
00:18:46	0836	HD	Mama	Genesis
002522	0305	HD	Don't stop	Fleetwood Mac
002827	00:02	HD	Hot- the nonstop hotstreet	-Jingle - Hot - 22
002829	03:34	HD	Heerijk	Alain Clark
003204	03:45	HD	There's no easy way	James Ingram
003550	0212	HD	Ateenager in love	Helen Shapito
003802	00:01	HD	S&SI - Htmlx(Fading)	- Jingle - 58.51-25
0038:04	03:16	HD	Window of my eyes	Cuby & The Blizzadis
00:41:20	0338	HD	Ready or not	Rugees
00:4459	03:28	HD	JJ Bent Zo	Jeroen Van Der Boom
00:48:28	00:04	HD	Cool fm - meer van het beste (pop)	- Jingle - Cool - 39
00:48:32	04:14	HD	She's the one	Robble Williams
00:52:47	0335	HD	Dub begoal to me	Beats International
005623	03:36	HD	Amore amore	Ardre Hazes
01:00:00	01:39	HD	Neuva %d	Norum
010139	0245	HD	Als je veriletil bent	Wima
01:04:25	04:19	HD	Soldier	Desth/s Child
01:08:45	0329	HD	Crazy	Simple Plan

Via 'Setup' you can choose another printer than the one that is set as default printer.

Copy via clipboard

Another possibility to bring out a playlist is with the Windows clipboard. If you select multiple items in the playlist, the selection will be copied, otherwise the entire playlist will be copied. Choose *Edit* and *Copy* (*CTRL*+*C*) to copy the playlist items to the Windows clipboard. In applications such as Word or Excel you can then paste the items (*CTRL*+*V*).

Dragging Items

One or more selected items can be moved by dragging and dropping them. If you drag within the same playlist, they will be moved. When dragging to another playlist, the items are added with mixing times and fade curves from the source playlist.

Items from the past of the 'active playlist' (those of today) are not moved but copied and placed with fade curves and mix times from the past. If desired, restore the fade curves and mix times with 'Update times from music database' in the playlist menu. Hotkey CTRL+T.

In an 'active playlist' it is only possible to drag to a time in the future.

From a variety of windows in AerOn Studio, items can be added to a playlist. This way you can easily search and drag items from *Item browser* or *Database browser* to the playlists.

Also from Windows Explorer or *File browser*, audio files can be dragged directly to a playlist, in which they are then added as a track. Items dragged from Windows Explorer that are not present in the database are shown in *italics in* the playlist. If desired, you can set the color in *Settings General* \rightarrow *Colors* \rightarrow > *Track from Explorer*.

<u>Tip</u>: If an audio file dragged from Windows Explorer or *File browser* is not yet present in the music database, it will be added to the music database depending on the 'Add database' setting.

🗹 Toevoegen databank

(See bottom of the status bar)

However, the dragged audio file must be in one of the audio folders or a subfolder thereof. See Settings Global $\rightarrow \rightarrow$ Audio Local.

If you drag and drop from another folder, a folder that is not known as an audio folder, *Database import* will open.

Restore fade curve when dropping, moving and removing.

By default, fade curves and mixes in the playlist are restored with times from the database when dragging, moving or deleting. Fade curves and mixes mutated in *Mix editor* are then undone. If you don't want this to happen you can disable this option in your personal settings via *Settings User* \rightarrow *Personal* \rightarrow . An additional advantage is that visual updating of the playlist is slightly faster.

Edit Playlist

A playlist can be edited from various workstations and remotely with each user editing their own block. As soon as you edit a block, it is automatically reserved.

The symbols below indicate the status of the blocks.



The playlist block is reserved by you.



The playlist block has been reserved by another user.



The playlist block may not be edited by you. Ask the system administrator for permission. He can grant you access via User Access \rightarrow User \rightarrow \rightarrow Change playlist. When a playlist block is in use by another user, you will be notified when you try to edit that block. You can ask the user to release his blocks. *Release Playlist Blocks* \rightarrow *menu. Hotkey CTRL*+*K*

1	Het blok tussen 22:00 en 23:00 is in gebruik door 'John' en kan momenteel niet worden gewijzigd.
	ОК

Playlist full screen

Via an option in *settings Local* \rightarrow *General*, \rightarrow the playlist can be displayed full screen on a separate second or third screen. You can then rotate such a screen 90 degrees so that a playlist in Tile view can have more items visible, giving even more overview.

Playlist export/import

Playlists can be stored in the database as date and/or name playlists. The playlists present in the database can be saved as a file on disk and opened elsewhere, at home or in the studio. Before opening a playlist file in another database, the tracks that are part of this playlist must have been imported into that database. Therefore, also export the tracks with *Database export*. From a playlist, you can drag and drop the tracks into Database export.

🚽 Playlist openen				×
Radio ID 1 - Hit Radio			-	
🔣 Datum 🔟 Naam 🔡 Bestand				
D:\Export			T	Ð
Naam	Grootte	Itemtype	Gewijzigd op	<u> </u>
Audio.txt	374 by	Tekstdocument	7-3-2019 11:55	- 1
20190311.pll	666 kB	PLL-bestand	7-3-2019 12:38	
AeronExport.xml	133 kB	XML-bestand	7-3-2019 11:55	
Atlas2.bpk	7,78 kB	BPK-bestand	24-2-2017 1	
🔰 Atlas2.mp2	655 kB	Geluid met M	12-2-1999 2	
BBE - Photo.bpk	87,2 kB	BPK-bestand	8-6-2013 11:09	•
Bestandsnaam 20190311.pl				
Openen Annuleren				

Playlist "Save as"

From the Save As \rightarrow menu, you can save an exact copy of a playlist as a date playlist, name playlist, or export and save it as a file.

Tip: If you save a playlist from the past as a date playlist in the future because you want to retransmit part of this playlist, you should check the transitions and mix times. If necessary, you can correct the mix times using the "Update times of music database" function in the playlist menu. *Hotkey CTRL+T*.

8 Format planner

You can open Formatplanner via the Tools Formatplanner \rightarrow menu.

In this chapter, we will first discuss the backgrounds to format planning, after which we will give an overview of the possibilities of the various planning modules. We will then explain how you compose the hourly and daily formats and what role (un)breakable rules and the plan analysis play in this. The last part of this chapter deals with the actual planning of a playlist.

8.1 Backgrounds format planning

By format we mean the total programming, including promos, jingles, commercials and presentations. The success of a radio station is largely determined by this programme format. This is the 'face' of the radio station. Only factors such as transmission range and sound are of equal importance.

The first task in defining a format consists of creating boundaries. These boundaries are absolute; by this we mean: how far do we go in broadcasting extremes. If several people are working on a format, this is certainly worth a meeting, as these things determine the 'face' of the radio station. The following elements should certainly be discussed first:

- Who are our listeners? Which age group (not yet divided at times). Determine that on the average person; that one 70-year-old who thinks House is awesome does not count (unfortunately for this person).
- What tracks do we absolutely never run? House, Hardrock, up to: what "smartlap" or not.
- Which power terms are still allowed and which are not?
- How long can an info diary be? A maximum of 3 minutes or, for example, 15 minutes?
- Do we break up an interview into several pieces and how long may the pieces be?

Once the limits have been set, the week can be divided into pieces. We assume here that there are no programmes yet, so at this stage we are not hindered by things like presenters having to change times or transitions between different parts of the programming. Also, in order to keep things clear, we will not divide it up into pieces of an hour.

We start on Monday at midnight and ask ourselves who (could) be our listeners at this moment. Arguments such as 'the working man/woman in shifts' will play a role here. Also the drained TV viewer counts for a while. As an example we take a commercial broadcaster with a small broadcasting range that strives for as many listeners as possible. At this point in time we can say that the majority of youth and students are not listening. The target group 15 - 20 years old is therefore very limited. Also the target group 65 and older, no longer involved in the work process, is only present to a limited extent. So we keep the group 21 to 65 as the most important group. In what proportion we divide the attention over this group is now the question. If we split up the group further, the following can be roughly the ratio. In the table we take into account the fact that older generations (in this example) listen less commercial radio.

Monday 0:00 a.m 6:00 a.m.			
15-20 years	1 % of the potential audience		
21-30 years	40 % of the potential audience		
31-40 years	35 % of the potential audience		
41-55 years	20 % of the potential audience		
55-65 years	5 % of the potential audience		

If we assume that we want to reach as large an audience as possible, a format like the one above seems to be the solution. However, if we focus 5% of the music on 55-65 year olds, many 25 year olds will turn the knob. On the other hand, if we let the Top 50, suitable for 21-30 years, make up 40% of the format, the 60 year old will probably quit. There are two solutions: the first (and easiest) solution is to drop one of the target groups. The second option is to select music that is appreciated by as wide a target group as possible. This mainly means the well-known 'golden oldies', which also appeal to the younger target group. They are usually considerably more critical than the older target groups. Music by the Supremes, the Beatles, in short the 'Tour of Duty-oldie' is suitable; but with Vera Lynn the average 25 year old has absolutely no affinity. Nowadays there is also a lot of music that can be used widely, like *Hello* van Adele.

We can say that our target group does not change substantially during the night. Our listening audience only changes around 6:00 a.m. If we again analyse the potential group of listeners before the next hour, we arrive at the overview below. The audience composition could be as follows. However, don't forget to use your own experience to make a success of your format.

Monday 6:00 a.m. - 7:00 a.m. 15-20 years15 % of potential listening audience 21-30 years30 % of the possible listening audience 31-40 years28 % of the potential audience 41-55 years of age 17 % of the potential audience 55-65 years of age10 % of potential listening audience

Monday 7:00 a.m. - 8:00 a.m. 15-20 years25 % of potential listening audience 21-30 years25 % of the potential audience 31-40 years25 % of potential listening audience 41-55 years 15 % of the potential audience 55-65 years of age10 % of potential listening audience

Monday 8:00 a.m. - 9:00 a.m. 15-20 years20 % of potential listening audience 21-30 years25 % of the potential audience 31-40 years25 % of potential listening audience 41-55 years 15 % of the potential audience 55-65 years of age15 % of potential listening audience

In the above hours it is very important to limit the extremes. The irritation threshold is considerably lower than at 4:00 at night. If an unknown oldie is played three times an hour during the night hours, which does fall within the desired target group, the listener usually does not tune in directly to another station. In the morning hours we run a higher risk with this. The competition is also bigger now!
The conclusions we can draw so far for our music file is, that there must be a distinction between known, less known and unknown tracks, which we do want to play on the radio. The extremes must be coded out of the file or in such a way that they can be recognized as unplayable. That music must be categorized into target groups, with a portion of the tracks being considered suitable for multiple target groups.

The pace of a track is of course also important. One slow-track does not disturb many people. However, a too emphatic slow-format is quickly found boring during work. Many advertisers focus on the working group (yes, the househusband also works) and the associated uptempo music. The tempo-criterion has a second function. A tempo change that is too extreme is undesirable. Especially from uptempo to a (very) slow intro gives a silent effect. One gets in the mood by a number of smooth tracks and then the mood changes. Such stations are quickly switched off. In the later morning, from 9:00 to 11:00, this plays a smaller role. In general, one listens less intensively at these hours.

8.2 Getting started with Format planner

Before you can start working with *Formatplanner*, the criteria with which you will profile your radio station and identity must be entered in AerOn Studio. Obviously, the music tracks, jingles, station calls, etc ... to which you have assigned the various criteria must also be present.

The various chapters in this manual explain how you can fill your database with multiselect dragging from Windows explorer or *File browser* or with the database import module and assign the various criteria in combination with *Multi criteria editor*.

If you have your database in order after this first phase, you can start filling in hour formats based on the weekly programming that you have devised and elaborated with your team. An hour format is simply a list of criteria rules that is not time-bound. You will create various hour formats that you then place in day formats. In a day format there you determine at what time which hour format will be planned. The day formats are in turn used to schedule the playlists.

If you have made an initial planning, you can then further refine the formats gradually. For example, you can use the various planning rules, shuflle function in the hour formats and also the criteria separation matrix as tools. Depending on which format planner you have purchased.

The various options are explained in detail later in this chapter.

8.3 Format planner modules

This chapter describes all the possibilities of *Formatplanner*. *Formatplanner* is available in 4 different levels. The higher the level, the more possibilities you have. Check in advance which *Formatplanner* modules you have so that you know whether you can make use of the possibilities described.

Plan line / Function	<u>Basic</u>	<u>Semi fixed</u>	<u>Xtra</u>	<u>Xpert</u>
Criteria columns (excluding <i>Language</i> and <i>Tempo</i>)	3 x 25	3 x 25	5 x 25	5 x 25
Criteria selection 1 ch	leckmark	1 checkmark	unchecked	unlimited - tick - Alternatives - exclude
Hour number (track hour number)	✓	\checkmark	✓	✓
Repetition title and artist	1	\checkmark	✓	✓
Tempo transition	✓	\checkmark	✓	✓
Daypart	\checkmark	\checkmark		
Weekpart			✓	\checkmark
Part of the year	\checkmark	✓	\checkmark	\checkmark
Exclude artist	\checkmark	✓	\checkmark	✓
Semi fixed items		✓	\checkmark	✓
Adjustable planning rules			\checkmark	\checkmark
Texture and mood				\checkmark
Criteria separation				\checkmark
Language separation				\checkmark
Group composition separation				✓
Automix		1	\checkmark	\checkmark
Shuffle			\checkmark	✓
Charts of criteria				\checkmark
Dalet export				\checkmark

The basis for format planning is laid in the hourly formats. Here you specify per item the selection criteria that the track to be selected must meet. The hour format will be described later in this chapter.

The above planning rules allow for a fine-tuning of the selection. You can set this in the *Database editor* and in the *Formatplanner Settings*. The following chapters briefly describe the differences between the above modules.

8.4 Format planner base

<u>Criteria columns</u>

There are 3 columns available for selecting the desired criteria. The first 3 columns in Settings Global \rightarrow Criteria \rightarrow . In addition, the columns 'Language' and 'Tempo' are available.

Criteria selection

In each column a maximum of one criterion can be ticked.

Hour number (track hour number)

You use the track hour number to distinguish between tracks you want to hear more often and less often. The track time number indicates after how many hours a track can return in a playlist that is planned with *Formatplanner*. Tracks that can be scheduled more frequently will have a lower track hour number, tracks that can run less frequently will have a higher track hour number. Depending on the number of tracks with the same criteria, it may take longer before you actually see the track in a playlist.

If you have few tracks available and you give them (too) high hourly numbers, a conflict arises. After some time *Formatplanner* has no more tracks to plan.

Suppose you have 2,250 tracks with an average length of 4 minutes. The total duration is 2,250 * 4 = 9,000 minutes = 9,000 / 60 = 150 hours. So the average hour number must be less than 150. Minus still a small margin because track may not be placed due to other restrictions imposed (planning rules).

Formatplanner checks for each track whether it is in the same hour yesterday or the day before yesterday and places the track with a margin of at least 1 hour so that the track does not come in the same hour shortly after each other. Nevertheless, the advice is to avoid a multiple of 24 as an hour number. For a track with hour number 24, this means that the track can still come back at exactly the same time a few days later. Advice is also to differentiate within the same category of hour numbers +1 or -1 so that a kind of progression occurs within a category. With a limited number of tracks of a certain category, you have a higher chance that the same track will return at the same time immediately after the set hour number has elapsed. A track with hour number 0 can be scheduled back at any time and several times per hour format. If a track should not be automatically scheduled by Formatplanner, a good example are commercials, or if you notice that scheduled tracks are not played more often, for example because they are removed from the playlist each time or skipped, you might want to uncheck 'Planner' in the Database editor. Unplayed tracks are immediately eligible to be scheduled again and get a higher priority as time goes by. Conversely, if you drag and play a track in the playlist, it can at least be selected again after the hour has elapsed.

Repetition title and artist

In general, you don't want two tracks of an artist to be scheduled in a playlist shortly after each other, or even worse: right after each other! In the *Formatplanner settings*, you can specify after how much time a track with the same title may be rescheduled. It's as if there's a conflict with the hour number here, for example for hits and tips. After all, these tracks often have a lower hour count than the repetition time for title and artist. *Formatplanner*, however, takes this into account and will, in case the hour number is lower than the repetition time, take the hour number for title and artist as a yardstick. The repetition of an artist can be determined by entering the bourly number per artist in

The repetition of an artist can be determined by entering the hourly number per artist in the 'Artist' tab of the *Database editor*, so that less current artists are less likely to return to the playlist.

Tempo transition

In the hour formats you can indicate the general tempo of the track to be selected. However, this does not guarantee smooth transitions between tracks. The intro and outrot tempo can be very different from the general tempo of the track as a whole. That's why there is the *outro-intro tempo matrix*. In the *Formatplanner settings*, check the *outrointro-tempo matrix* to see which transitions from outrotempo to intro tempo are allowed. The average listener experiences a transition from fast to very slow (or very slow to fast) as silence on the radio. So you check that transitions from fast to very slow and very slow to fast should not occur.

<u>Daypart</u>

Not every track is suitable to play on the radio every hour of the day. Certain tracks, for example, are unsuitable for playing on the radio during the afternoon or late at night. In *Database editor* you can indicate for each hour of the day whether or not the track can be scheduled by *Formatplanner*. In the standard version of *Formatplanner* you can use one setting for the whole week: the hours you set on Mondays apply to all days of the week. If you want to set the hours per weekday differently, you must purchase Formatplanner *Xtra*.

Part of the year

Not every track is suitable to play on the radio all year round. Typical summer, Christmas and Carnival tracks should only be planned in a period of your choice. With 'year part' you can set this period exactly from day to day from start date to end date.

Exclude artist

Sometimes it is desirable to exclude certain artists to be planned shortly after each other, for example when one or more artists from a group venture into solo careers over time, or form a duo or collaborate with other artists. After all, it is undesirable for an artist's track to be played right after a track of the band of which he is a member. In *Database editor* you can therefore exclude a number of artists in the 'Artist' tab to plan a track.

Tip: You don't have to exclude artists back and forth. For example, if you exclude the Beatles with John Lennon, the Beatles will automatically exclude John Lennon. In this way, more than four exclusions can be realised per artist.

Automatic scheduling

Automatically schedule a playlist at 11:45 pm if no playlist is scheduled for the next day.

8.5 Format planner Semi fixed (Playlist Semi fixed)

This module adds to Formatplanner base:

Semi fixed items

In *Formatplanner* it is possible to plan semi-fixed items. You can also use these in the playlist. Refer to chapter 7 Playlist for more information about semi-fixed items.

<u>Automix</u>

With this option it is possible to plan jingles under an intro.

8.6 Format planner Xtra

This module permanently adds to Formatplanner Semi:

Criteria columns

There are 5 columns available for selecting the desired criteria. In addition, the columns 'Language' and 'Tempo' are available.

Criteria selection

Multiple criteria can be checked in each column.

Shuffle

Hourformat item marked with *Shuffle* can be randomly swapped so that every hour a different 'sound' is created within the set criteria.

<u>Weekpart</u>

Earlier you have read about the use of the part of the day (see chapter 8.3). After some time, the division into parts of the day turns out to be insufficient for certain tracks, especially if your target group of listeners varies over the course of the week. With the section of the week, it becomes possible to indicate per weekday that tracks may only be scheduled at selected hours. In this way, you can now also specify that tracks may not be played at all on certain days.

Adjustable planning rules

If you purchase *Formatplanner Xtra*, you will find a number of plan lines in the *Formatplanner settings*. The plan lines described here (hour number, repeat title, etc.) are not of equal importance to all broadcasters. You can specify whether *Formatplanner* should take them into account and to what extent. There are three categories:

Unbreakable rule	The plan rule must always be respected.
Breakable rule	The plan rule must be respected, if possible.
Unused rule	The plan rule is not used by Formatplanner.

Fill in planning rules

In the Formatplanner settings you indicate the importance of each plan line. Here you can determine which plan lines are 'breakable' or 'unbreakable'. The most important ones are 'unbreakable'. Each selected track will then comply with the set 'unbreakable rules'. You can also decide not to use certain plan rules; these are placed in the column 'unused rules'. You can, for example, use this for mood or texture if the criteria for mood and texture have not yet been completely entered into the database. The plan rules can also be useful if, for example, Formatplanner has not been able to find five consecutive items when planning because you have impossible requirements (such as a Japanese carnival record with target group 56-99 and very slow tempo). Normally, the planning is then stopped. However, with the help of the scheduling rules you can avoid this problem: you can now turn the hour number into a 'breakable rule'. If Formatplanner no longer finds suitable tracks for the entered criteria when planning, the plan rule hour number will be dropped and a suitable track will be searched again that meets the hour format. With 'breakable rules' the order of the rules is important. You put the most important rule at the top of the column, the least important one at the bottom. As soon as no more tracks are available for Formatplanner, it first drops the top breakable rule and then selects it again. If *Formatplanner* doesn't find a track again, it drops the next breakable rule and chooses it again.

8.7 Format planner Xpert

This module adds to Formatplanner Xtra:

Criteria columns

There are 5 columns available for selecting the desired criteria. In addition, the columns 'Language' and 'Tempo' are available. In the columns you can indicate other criteria in addition to the ticked criteria and you can also indicate that you do not want to select certain criteria. This is described in more detail below.

Criteria selection

When selecting the right tracks, you have more options here: for each criterion, you can better indicate what the track should or should not meet:

- You can select multiple criteria (you tick 'tip' and 'hit' to indicate that the track must meet at least one of both criteria).
- You can exclude certain criteria (check 'rock' and tick 'love song' to indicate that the track must be a rock record, but not a love song);
- You can specify alternatives (you tick 'golden oldie' and make 'oldie' an alternative to indicate that you prefer a 'golden oldie', but if it is not there an 'oldie' will be allowed).

With these possibilities you will be able to adapt the format to your wishes and requirements. For example, when selecting a language, you can cross out 'English' to indicate that any language other than English is permitted.

The alternatives are only used if the 'normal' selection by the planner does not allow a choice to be made.

Texture and mood

Texture indicates how the track was produced, while 'Mood' indicates the mood. These two criteria are somewhat more difficult to determine than, for example, the language or tempo, but allow a subtle refinement of the format. Using texture and mood, *Formatplanner* can ensure that overproduced tracks, for example, do not play one after the other or that melancholy does not strike by planning a series of precipitous tracks.

Criteria separation

For the criteria that you do not actively use, you can use the separation options to refine the playlists. For each criterion, you specify how many of these tracks can be planned in succession and how many tracks without this criterion must then be planned in between. If necessary, you can also specify a maximum number of tracks that can be scheduled in this hourly format. The *Criteria separation* also applies to *Shuffle* items. More detailed information about 'criteria separation' can be found in chapter 8.8.

Language separation

With a number of radio stations it is not desirable that, for example, Dutch-language tracks are played shortly after each other. In the *Formatplanner settings* you can specify per language how many of these tracks with a certain language are allowed in direct succession, the separation between the tracks: after how many tracks a track of a certain language is allowed again and a maximum number of tracks with a certain language per hour format.

The Language Separation also applies to Shuffle items.

Group composition separation

Just as with a separation between tracks in a certain language, it is often undesirable to play duets or solo singers shortly after each other. In the *Formatplanner settings* you can specify for each group composition how many of these tracks are allowed immediately after each other, the separation between the tracks: after how many tracks a track with a certain group composition is allowed again and a maximum number of tracks with a certain group composition per hour format.

The Group Composition Separation also applies to Shuffle items.

Charts of criteria

The quantity of available tracks is displayed in a graphical overview according to the various allocated criteria.

As formats become more complex and you make more use of criteria such as 'texture' and 'mood', it can be useful to have a graphical overview of the amount of available tracks according to the various criteria.

8.8 Format planning overview

Start Formatplanner (via Tools Formatplanner \rightarrow).

On the left side of the window a navigation bar is visible that allows you to navigate between the different parts.



We'll briefly describe them here:

Hour format: for each hour or any part of the day you create an hour format that indicates what kind of music and jingles have to be scheduled.

Day format: for each day (of the week) you create a day format in which the hour formats to be used are listed from hour to hour (or other random times).

Info: Here you can find graphs of the available tracks according to a number of criteria (*Formatplanner Xpert*).

Scheduling: after entering the hour and day formats, you can have the playlists for the coming days generated here.

Settings: in addition to the hour and day formats, there are a number of settings that you can use to influence the planner's behaviour.

8.9 Settings

The Formatplanner settings are hardly needed when using Formatplanner on a daily basis, which is why they are at the bottom of the window. However, at the start you will have to be the first to set this up correctly. The settings are divided into different levels. In Formatplanner basic you can use the general settings. In Formatplanner Xtra and Xpert you can also use the additional settings and other tabs.

ኛ Formatplanner X	(pert									– = ×
Instellingen	Herhaling titel (uu:mm)	14:00			Z slow	Slow	Medium		Fast	1
ö Algemeen				Zeer slow	₹.	M				
Songtype	🗹 Automatisch plannen om	n 23:45 (deze P	C)	Slow	×	₹.	Z			
Genre	Uurgetal plandatum reset	2		Medium				1		
Doelaroep				Uptempo		_	×	× ~		
de Rotatie				Fast		-		×.	×	
🚺 Jaartal	Hebreakable rulee		Deeskable edee				u sa d es da e			
Taal	Uurgetal		Herhaling titel			Mo	iuseu ruies ood			
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	Jaardeel Artiest uitsluiten									
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5 Dag										
📫 . Info	✔ Alternatieven toestaan									
	Dalet export	💻 Deze p								
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Repetition title With this setting you determine after how much time a track with the same title may be selected (hours, minutes). In general, this is set to a few hours. However, there are songs that can be played more often, such as 'hits'. Hits' in the database generally have a lower track hour number than the repeat title. With the above setting, this can lead to a conflict. The *Formatplanner solves* this by only respecting the tracker number when selecting tracks that have a lower tracker number than this setting.

Automatic Some radio stations postpone the planning of the playlist until the last moment, for example because new tracks have been entered into the system in the evening. Occasionally, one may forget to create a schedule. With this emergency function *Formatplanner* will try to create a playlist for the next day if there is no playlist at 23:45.

Formatplanner automatically uses a day format for the planning in which the name of the weekday occurs. This allows you to determine that the correct day format is automatically taken for each weekday.

You can only enable this function on one PC within the network.

Hourly number	This setting determines the threshold of the track hour number
plan date reset	when resetting pledges. If you reschedule a playlist while more
	playlists will be available in the future, this option allows you to
	ensure that only the pledates are restored for tracks with a
	maximum of the hour number you set here. Tracks with a higher
	hourly number and that are scheduled in playlists further down the
	line will keep the planning date.
Permitted	When planning tracks, Formatplanner takes into account the
tempo	transition between the exit speed of one track and the intro speed
transitions	of the other to avoid too abrupt transitions. Tick the allowed
	transitions here. For example, the image above shows a setting that
	prevents you from going from 'slow' to 'fast' and vice versa. To fill
	in, follow the direction from row to column.

Format planner Xtra

Schedule rules Use the mouse to drag the different plan rules to one of the three plan planes.

The possibilities for setting the plan rules depend on the level of *Formatplanner*. More information about the different rules can be found starting from chapter 8.2.

Format planner Xpert

Allow This option works with Formatplanner Xpert. If there is a shortage of tracks that meet the specified criteria, Formatplanner uses the alternatives you have specified in the hourly format to still select a track.

Dalet export This option allows you to export the schedules directly to a file format recognized by Dalet.

🐺 Formatplanne	er xpert					– = ×
Instellingen	Soort	Max achter	Scheiding	Max per uui	<u> </u>	
- Algenicen						
Soort	Current			12		
🚺 Extra 2	Recurrent					
🚺 Extra 3	Golden Oldie					
Fytra 4	Oldie					
	Antiek					
C Extra 5	Reclame					
🚺 Taal						
🚺 Samenstelling	Jingle					
	Pingel					
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🔓 Dag	Tijdsein					
	Info					
🚺 Info	Effect					
	Nieuws					
D lanning						
/ Flaming						
🎄 Instellingen					[Opslaan] H	erstellen

Tip: For all five columns with criteria and the columns language and composition, you can fill in this matrix separately for each column. Usually this will be set up and used for the criteria items, the language items and the composition items that you do not explicitly fill in in your hourly formats so that you can combine this separation matrix per hourly format with it.

Max in a row	You indicate how many tracks of the criterion in question may be planned consecutively. If you allow an unlimited number of tracks of a category to be scheduled consecutively, you leave this value at 0. If this value is set to 0, the following columns (separation and max per hour) do not play a role.
Separation	After you have planned a track with this criterion, this criterion may not return for a number of tracks. For example, if you enter 3 here, then 3 tracks with a different criterion must first follow before a track with this criterion may be placed again. The minimum value for this field is 1.
Max per hour	This limits the total number of tracks of this criterion per hour format. The value 0 indicates an unlimited number of tracks of this type per hour.

8.10 Hourly format

In the introduction to this chapter, the different modules of *Formatplanner* are described. Here we describe the hourly formats in which you can fill in the criteria per line (item). Depending on *Basis, Xtra or Xpert,* options may or may not be applied during planning. An hour format is in fact a pre-composed list of criteria lines that is not time-bound and can be loaded in a daily format.

The music compiler of a radio station determines what the music choice is during the day. For this purpose, he/she draws up a format. The music selection can vary from hour to hour (or per half hour), but can also remain the same during longer periods of the day, e.g. during the night. So the day will be cut into a number of pieces.

For each piece (usually an hour) we make an hour format in which we set the criteria for the first track, then for the second track, the third and so on. An hour format is actually a list of consecutive items. The item definition in the hour format determines what kind of tracks are selected by *Formatplanner* within the specified criteria. In this way, you can use the hour formats to determine the content of the entire format.

of Formatplanner	xpert								- = ×
Uur		WBFM # Ochtend A #							
		;) 00:03:00 🗘							
Format	Schraal Rus	tig Neutraal	Krachtig Bombastisch <u>Neers</u>	lachtig Somber	Neutraal Opge	wekt Euforisch			
		Groep Shuffle Automix Uity				Criteria			
Browser	😍 1 Criteria 💌								Tempo
Dionaci									X
			Muziek Vormoeving	Currents	Pop Dance	A-Rotatie B-Rotatie	Fulsing	 Nederlands Engels 	Zeer slow
				Oldie 2010	Rap	C-Rotatie	Bedjes/Fillers	Duits	Medium
			Commercials	Oldie 90's	Remix Nederlands		Item's	Romaans	E Uptempo
	6 Criteria			Oldie 70's	Onbekend		Info	Instrumentaal	
				NL-Talig			Reclame		
	8 Criteria			NL-Feest Remixeo					
				Zomer					
	10 Criteria			Carnaval					
	12 Criteria								
	12 Criteria								
	15 Criteria								
Uur 😳	16 Criteria								
📙 Dag									
Info									
🃁 Planning									
🏰 Instellingen			Aantal					3 1 2 2	⊖ ⊗ ⊗ ⊙

In the left part of the window you can browse through the hour format. Depending on the choices you have made, the display will follow in the right part.

Using the buttons at the bottom left, you can add or remove items from the hour format.

Use the buttons at the bottom right to browse through the hour formats and add or remove hour formats.

Copy hour format

Once you have saved an hour format, you can copy that hour format using *Save as from* the *File menu*. You rename the copy and save the hour format. You can then edit the new hour format.

Hour format line definition

In the column 'Type' you have the following options:

- Criteria Select a track according to criteria.
- *Track* Specify a fixed track. Drag the desired track to 'fixed item'. You can drag and drop it from, for example, *Database browser.*

You can also set a duration here. For example, you can ensure that the news is always planned with the same length.

- *External* Specify a source with external audio for a desired length of time.
- Comm 1 ... 6 Commercial blocks 1 through 6 from Commercialplanner.

Type Criteria

For each track (but also jingle or info-item) we have a number of criteria available with which we select from a certain category. In *Settings Global* \rightarrow *Criteria* \rightarrow you can arrange the 5 columns of criteria as you see fit.

Kind of	Song types such as 'tip', 'hit', 'current' and so on.
Extra	Song category such as 'pop', 'dance', 'rock' and so on.
Target group	5 age categories.
Extra 4	Use as you see fit.
Extra 5	Use as you see fit.

You use these five criteria columns together with language and tempo to select a track per hour format line that meets your set criteria combination.

The tick boxes have three possibilities:

The green check marks indicate what the track to be selected should comply with. *Formatplanner* then selects from the music database only those tracks where the corresponding criteria are ticked. From Formatplanner *Xtra* you can also place multiple check marks in one column. Multiple check marks in one column indicate an OR selection, check marks in different columns indicate an AND selection.

> If you place ticks in multiple columns then the combination must be met. If there are no tracks available at the time of applying the hour format rule, which meet all check marks, the rule will be skipped.

> The formatplanner report shows all skipped lines as soon as a schedule is completed. From there, you can click through to the relevant hour format line. (*Plan Checker option*)

- (*Format planner Xpert*). Sometimes you know in advance that the number of usable tracks is limited and you indicate with a yellow ball at certain criteria that it may be selected as an alternative if the criteria combination cannot be met. The check marks in the column are then exchanged, as it were, for the alternative.
- (*Format planner Xpert*). Finally, you can indicate with a red cross that tracks with this criterion are excluded.

Selection columns

In the first 5 columns you have to deal with criteria in the music database of which you can tick more than one. Placing ticks and crosses therefore makes sense. For song type you could indicate that a 'pop'-track is desired, but not a 'love song'.

In the last 2 columns, language and tempo, you have to deal with criteria in the music database of which you can only set one per track. A track is either English or Dutch, etcetera, but never both. You can tick more than one per column per hour format. Instead of checking 'Language' and 'Tempo' you can also decide to fill in the *criteria-language-composition-matrix* so that format planner can use it for language and tempo. Or also to separate year criteria, for example.

<u>For example</u>: In the column 'Song type' you check the options 'Current' and 'Recurrent'. In the column 'Tempo' you put a red cross at 'Medium'. This means that the track that *Formatplanner* must now choose must be a 'Current' or 'Recurrent' track, and in any case not a Medium tempo. Columns where nothing is entered are not taken into account.

Type of Track

Instead of specifying selection criteria for a track, you can also choose a fixed item. This is useful, for example, for programming the news or traffic information at the beginning of the hour. To do so, drag and drop the desired item into the box under 'Fixed item'. If you do not enter anything under 'Duration', *Formatplanner will* take the actual length of the item into the database when creating the playlist.

In case of news, it is better to fill in the minimum duration of the news here, for example 1m30s, so that *Formatplanner* can take this into account in its planning. This way you ensure that there will be no silence at the end of the hour because the news file will be shorter.

Formatplanner Xpert takes full account of the weekly matrix as entered in Database Editor. With the same hour format at several hours in a day format, you can make sure that there is no news at night, for example, but there is news during the day. Formatplanner Basis and Xtra take over the Monday setting for all other days of the week.

Type External audio

In "External audio", you can specify an external source (External feed program). Under *Duration, enter* how long the external source should play.

Type Block 1 ... 6 Commercial planner

Blocks 1 to 6 are the commercial blocks 1 to 6 that are available in *Commercialplanner*. By including these choices in the hour format, you can indicate exactly where the commercials should be placed. For example: directly after the news on the hour, or only after the jingle that follows. If you do not include any of these options in the hourly format, *Formatplanner* places the commercial blocks in the playlist according to the times set in *Commercialplanner*. You then have limited control over the position of a commercial block in the playlist. This can be between a jingle and a track, for example, which you may not want. (This is the situation for existing users of AerOn Studio who have upgraded and have not yet adjusted hour formats). If you are going to include the commercial blocks in the hour format, then you must include ALL blocks in the hour format.

Let the time setting of the blocks in *Commercialplanner* match as much as possible with the intended time in the playlist to enable the subsequent export of custom commercial blocks. The *Commercialplanner* exports commercials based on time with a margin of 10 minutes compared to the block time set per block in the *Commercialplanner block definition*. If *Commercialplanner* finds a block within the margin, the modified block will be repositioned between the same tracks.

For some of the other columns you will need the menu under the right mouse button.

Groeperen	Ctrl+G
Shuffle	Ctrl+H
Uitvullen	Ctrl+U
Herstart format	

Group

Have two or more items grouped in the playlist by *Formatplanner*. In the playlist indicated by on or more auto-start next blue arrows.

Shuffle (Format planner Xtra). Hourly format items that are marked as 'shuffle' can change positions and are thus put in a different random order every hour and then planned. The shuffle selection does not have to be consecutive. Jingles and other design items are usually better to exclude and never shuffle.

With this shuffle option, you can make the same hour format sound different throughout the day and still plan within the format. In combination with the separation matrix for criteria, language, and composition by category/track/hour available from *Formatplanner Xpert*, the shuffle function also handles this separation of all criteria where it is set in the matrix.

- *Fill out* The last items in the hour format can be filled out to the end of the hour. This is often necessary for the last commercial block 'comm 6'.
- *Restart format* If the hour format is too short, the *Formatplanner* jumps back to the first line of the hour format by default. With the option *Restart format* you specify a different place in the hour format where you want to jump to. For example, you place restart *format* under the item with which the news or top of the hour track is selected. This prevents the news and top of the hour track from being scheduled again at the end of the hour because the hour format starts with it.
- AutoMix **(Semi-Fixed)** When you check automix on an item, a track, usually a jingle, can be automatically mixed under outro/intro by Formatplanner based on the general Automix settings. Settings $Global \rightarrow General \rightarrow > Automix.$

To be able to mix items, the tracks in the database must be set as *Mix-mode Automix* or *Mix-mode Default and Automix*.

See Database editor.

The jingles can then be selected according to the criteria you set for each hourly format item.

Number If you click on the 'Number' button or the column header at the bottom, you will see how many tracks are present in the database according to the criteria combination you have set and available for Formatplanner. Available means that 'Planner' is ticked in the *Database editor.* With a number of color variants red, it is made visible that there are few or even very few tracks that meet the criteria combination.

Few tracks need not be a problem with tracks with a low tracker number. The coloring is more of a guideline to draw attention to. At the end of the day, you will know which hourly numbers tracks in a certain category have and whether this can cause a problem.

Restart format

The length of the hour format is up to you. An hour format with five items or with only one is allowed. In practice, the hour formats often consist of 20 to 25 items. *Formatplanner* will start again with the first item from the hour format if it is too short. For example, you have an hour format with 5 items in it. You use this format to plan one hour of music. After the fifth item from the format has been used, *Formatplanner* has only 20 minutes left. This is not enough to fill one hour. *Formatplanner* then chooses the sixth track of the hour according to the criteria of the first item of the format and so on.

You can influence at which item *Formatplanner* starts again when the hourly format is too short with the option 'Restart format' as described on the previous page. This option prevents the news or an hour opener from being selected again.

You can make the hour format longer than the number of tracks you expect in an hour. This has no consequences. If only 18 tracks are needed in the format to fill an hour, then *Formatplanner* stops there. The 19th and 20th items are therefore not used (no superfluous track is planned).

On top of that, tracks that have been planned but are not played in the end are immediately eligible again for the next planning.

Extra time

Extra tijd (uu:mm:ss) 00:00:00 🌲

You can set extra time per hour format to schedule extra tracks. During live hours during the day, where tracks are sometimes shortened, you need more music than at night or during the day when AerOn Studio is running nonstop. This option can also be used to schedule extra tracks (as an emergency format) just after an external internet stream. Should the stream fail, AerOn Studio will continue with these extra tracks in the playlist.

Texture and Mood

From *Formatplanner Xpert* you can use the criteria 'Texture' and 'Mood'. With this option you can plan tracks with a certain energy and mood within an hour. What this is all about is creating a certain atmosphere during the hour for which you use this format. With the sliders at the top of the window you can indicate in which range the average texture and mood of 3 consecutive tracks should always be.

Print and save as file

An overview of an hour format can be printed on the printer by $Print \rightarrow File$. Via *File Print Preview* \rightarrow you can have it displayed and save it as, for example, pdf. An example printout of an hour format looks like this:

	<u>8cort Extra 2</u>	Gem <u>Extra 8</u>	engd - shu <u>Extra4</u>	iffle <u>Extra 6</u>	Taal	<u>Tempo</u>
1	Nieuws 96d (00:01:00)					
2	Commercials 1					
3					+ Nederlands	5
4	+Recurrent					
5	+ Golden Oldle					
6	+ Jingle					
7					+ Nederland:	\$
8					+ Nederlands	5
9	+ Golden Oldle					
10	+ Jingle					
11	+Olde					
12	+ Recurrent					
13	+Oldle					
14	+ Jirgie					
15					+ Nederland:	5
16	+ Antiek					
17	+Recurrent					
18	Commercials 6					
Erced	cast Paines Aeon		193-2015			Pagina 1 van 1

8.11 Day format

😽 Formatplanner	Xpert						– = ×
Dag		Vrijo	lag - Semi vast				
	Tijd	•	Mode		Uurformat		
5	00:00:00		Semi vast		Nacht vr		-
Format	01:00:00		Semi vast		Nacht vr		
	02:00:00				Nacht vr		
5	03:00:00				Nacht vr		
Browser	04:00:00		Semi vast		Nacht vr		
	05:00:00				Nacht vr		
	06:00:00		Semi vast		Ochtend ma-vr		
	07:00:00		Semi vast		Ochtend ma-vr		
	08:00:00		Semi vast		Ochtend ma-vr		
	09:00:00				Arbeidsvitaminen		
			Semi vast Ar		Arbeidsvitaminen		
	11:00:00		Semi vast Arbeidsvitaminen				
	12:00:00		Semi vast		Middag ma-vr		
	13:00:00		Semi vast		Middag ma-vr		
	14:00:00		Semi vast		Middag ma-vr		
			Semi vast		Middag ma-vr		
			Semi vast		Middag ma-vr		
Uur 🔄	17:00:00		Semi vast		Middag ma-vr		
	18:00:00				Middag ma-vr		
5 Dag	19:00:00				Avond vr		
	20:00:00		Semi vast		Avond vr		
🚺 Info	21:00:00		Semi vast		Avond vr		
	22:00:00		Semi vast		Avond vr		
🧭 Planning	23:00:00		Semi vast		Avond vr		
	++ <						
🎄 Instellingen					(3 🕥 🕑 🔁 🖨	🖉 🛞 🥝

In a day format you actually indicate what a day plan will look like in its entirety. The hour formats determine the music choice of *Formatplanner* during the course of the day. In the day format you determine the order and start of each hour format.

You can only use one day format if the programming is the same every day, but usually you will create a day format for every day of the week. It will be clear that good naming simplifies the use of the day formats as you create more of them.

Time This is the time at which the selected hour format becomes active. Usually hour formats start at full or half time. Each time of day determines the start time of the first item selected from the hour format and also determines where the previous hour format stops. Each subsequent time point determines where the hour format stops and the next hour format begins. With the last item in a day format, Formatplanner always plans until 24:00 (end of the day). Mode With this option you indicate whether the first item to be scheduled from the hour format should have a fixed, semi-fixed or sliding start time. Items with fixed or semi-fixed mode divide the playlist into blocks. The first item after midnight has a fixed or semi-fixed start time. More information about 'fixed', 'semi-fixed' and 'sliding' can be found in chapter 7. Here you specify the hour format to be used by Formatplanner for Hourly format the music selection.

Using the buttons at the bottom left of the window, you can add or remove items from the day format. Use the buttons at the bottom right to browse through the day formats and add or remove day formats.

Quick fill day format

If you successively add 24 empty lines (or more) to a dayomat, you can select multiple lines and then fill them in at once by right-clicking.

Copy day format

If you have created a day format, you can copy that day format using *Save as* from the *File menu*. You rename the copy and save the day format. Then you can edit the new day format.

Print and save as file

An overview of a daily format can be printed to the printer by $Print \rightarrow File$ or by Viewing a *Print Preview* \rightarrow *File* and saving it as, for example, pdf.

8.12 Info (*Format planner Xpert*)

With *Formatplanner Xpert* you can get more information about the criteria of the entered tracks in the database in the 'Info' tab. Calculating the different graphs can take a few seconds, depending on the size of the database. You will only see an overview of the active tracks because these are the tracks that can be planned by the planner in a playlist.



In addition to the overview with the column 'Number' in the hour format, the info window is a good tool to check whether you are able to create a good playlist with the set criteria and hour formats.

You can also print the graphs from the *Print* \rightarrow *File* menu.

8.13 Planning

When you open the *Planning* tab, you will see a calendar on the left side that shows the next six months. Here you select a start and end date after which they will be placed in the list on the right. You can select several days at a time by dragging the mouse over the calendar.

Formatplanner looks in the available day formats to see if there is a day format that contains the name of the weekday. If so, that day format is immediately presented in the plan list, as shown in the screenshot example. If necessary, you can choose a different day format from the plan list.

😿 Formatplanner	Xpert								-	• ×
Planning		Ma	Di		Do		Za	Zo	Datum 🔺 Dagformat	
	13	25	26	27	28	29	30	31	vr 29-3-2019 Vrijdag	
2				3						
Aanmaken						12	13	14		
	17							28		
			30					5		
								12		
-								19		
🕒 Uur								26		
	22							2		
5 Dag	23							9		
	24			12	13			16		
1 Info	25	17					22	23		
	26	24	25	26	27	28	29	30		
💋 Planning	27							7		
🎍 Instellingen									Status info: Start het plannen Star	t

As soon as you press *Start*, *Formatplanner* automatically starts an analysis of the database. Afterwards, the entered data are scheduled successively. You can see the progress in the status bar.

During the scheduling process, the last date and time the item was scheduled is recorded for each track in the music database. These planning dates must be reset to the past to allow you to create a playlist for the desired day. If you do not want to, *Formatplanner* cannot generate playlists.

You can have a playlist that does not meet your expectations or in which a change has occurred planned again. In that case *Formatplanner will* notify you that the playlist already exists. If you continue, the message appears that the playlist has already been scheduled for that time and asks *Formatplanner* if the planning dates need to be changed. As soon as you have reset the plan data (to reschedule a day), you actually need to reschedule the following days to make sure that hourly figures, replay title and replay artist are respected.

At the end of the planning process, you can select a date in the 'Planning' box. Clicking on the playlist icon in the taskbar will open the playlist of the selected day.

Tracks that are planned, but are not played in the end, are immediately eligible to be rescheduled.

8.14 Plan checker

Composing hour formats, filling in criteria in the music database and determining (un)breakable rules is a process that requires a lot of time and attention. After a playlist has been planned, you sometimes wonder how *Formatplanner* arrived at that specific track choice. Were there too few tracks with the criterion 'recurrent' or are there no uptempo French-speaking (o.i.d.) tracks?

Radio stations that have purchased the *Plan checker* module can use an analysis to find an answer to the above questions. The Plan *checker* is integrated in the playlist and can be opened by right-clicking on the top bar of the playlist (Artist/Title etc..) and selecting *Plan analysis from* the column heading menu. In the Playlist menu, two additional options are added and a number of additional columns become visible.

Additional options in the playlist menu

Uurformat Alternatieven

Hourly format Allows you to open the hour format in which the track is scheduled.

Alternatives This sets up a filter in *Database browser* with the selection criteria with which this track is scheduled so that you can quickly select another track within the same selection criteria.

Additional playlist columns

Aantal	Alter	Uurformat	Index
2218	0	Gemengd - nieuws	6
2227	0	Gemengd - nieuws	7
223	0	Gemengd - nieuws	8
226	0	Gemengd - nieuws	9
2145	0	Gemengd - nieuws	10
2142	0	Gemengd - nieuws	11

- Number Number of tracks that meet the criteria-combination in the hour format line. On closer inspection of the numbers in the playlist and hourly formats, it will generally be the case that the numbers in the playlist are lower. This is caused by the fact that at the time of planning, weekly and annual layouts, repetition of title and artist etc. are taken into account. These numbers are put in the playlist during the planning procedure. When calculating the number of tracks in the hourly format, only the combination of criteria is taken into account because an hourly format is by definition not time-bound.
- *Alter* Number of tracks that meet the criteria-combination in the hour format, using alternatives.

Hourly format Name of the hour format used to schedule this item.

Index Sequence number of the item in the hour format.

If you right-click on an item in the playlist, you can use the 'Hour Format' option to jump directly to the correct item in the hour format to adjust the criteria if you are not satisfied with the song selection.

Another plan analysis can be found in the menus under *Tools Formatplanner* analysis \rightarrow . This follows along with the selected item in, for example, *playlist* or *Database* browser. Here you can see on which days and hours the track is planned. By default, the overview goes back to two weeks ago, but the filter can easily be turned off or adjusted. Double clicking on a number opens the playlist of that day for further inspection.



After completing a planning, *Formatplanner* shows in a report at which hour format items no track could be selected. From this window, you can directly click through to the relevant hour format line. If you check *Automatic tracking*, *Formatplanner* automatically navigates to the relevant hour format line when you navigate through the *Formatplanner report*.

🖪 Formatplanner rapport 🛛 🗕 🗖 🗙				
Tijdstip		Index		
21-3-2015 01:15:56	Gemengd - shuffle	8		
21-3-2015 03:15:02	Gemengd - shuffle			
21-3-2015 13:15:45	Gemengd - shuffle			
21-3-2015 15:16:50	Gemengd - shuffle			
21-3-2015 17:17:15	Gemengd - shuffle			
21-3-2015 19:14:22	Gemengd - shuffle			
21-3-2015 21:17:12	Gemengd - shuffle			
21-3-2015 23:14:07	Gemengd - shuffle			
Automatisch volgen				

9

Commercialplanner

Commercialplanner can be accessed via the Tools Commercialplanner \rightarrow menu.

On the left side of the window a navigation bar is visible that allows you to navigate between the different parts.



We'll briefly describe them here. Further on in this chapter the parts are discussed in more detail.

Customer: as soon as you receive an order for an advertising campaign, please enter the customer's details here.

Campaign: here you enter the details of the campaign in question (you do not include these with the client because a client may have multiple campaigns).

Planning: after entering one or more advertising campaigns, you can have the campaign automatically planned here.

Day overview: You can see planned radio campaigns in the day overview.

Settings: there are various settings you can use to enter when a commercial block is included in the radio station's programming.

The 'Settings' section is shown at the bottom of the navigation bar. If you are using *Commercialplanner* for the first time, you will need to start here. Here you specify what is and is not allowed.

9.1 Settings

The *Commercialplanner settings* are divided into several subcategories, which are described one by one below.

9.1.1 General

In the group 'General' you will find a number of global settings.

Maximum
number of itemsHere you set how many commercials can be scheduled per hour in
total. The maximum number of commercials per hour is standard
90. Jingles and reminders are not counted.

<u>For example:</u> if 3 commercial blocks are placed in an hour, the total number of commercials that are broadcast in these 3 blocks will not exceed the maximum number of items per hour.

In Commercial planner Xtra the maximum adjustable number of items per hour automatically increases with the Number of items per block limit.

Maximum (Commercialplanner Base). Here you set how many items may be planned in each block. The maximum number of items per block is 15. In Commercialplanner Xtra, the maximum number per block is set in the standard weekly format. See below for more information about this.

Commercialplanner Xtra

🍈 Commercialplann	er Xtra			- = ×
Instellingen	Maximum aantal items per uur	90 🗘		
🥼 Algemeen	✔ Stem conflict toestaan ✔ Branche conflict toestaan			
<u> </u>	Dalet export	C:\Export\Dalet		Verkenner
Branche / Stem	RCS Traffic export	C:\Export\RCS		Verkenner
	Traffic 2000 export	C:\Export\Traffic		Verkenner
Jinale	🗹 E Power export	C:\Export\Epower		Verkenner
0	■ Export: gebruik weekdag-playlis ✓ Export: split extern audio	t als datum-playlist niet bestaat		
Blok	Aantal items per blok limiet	15 -		
0.9	Export offset bloktijd in playlist	9 ≑		
Netwerk				
🧱 Klant				
🛐 Campagne				
📁 Planning				
Dagoverzicht				
🆺 Instellingen	Broadcast Partners		Opslaan H	lerstellen

Allow conflict vote

(**Commercial planner Xtra**). By default, the planner does not place more than one commercial, recorded by the same person, in a block. If this option is checked, two commercials recorded by the same person can be placed in the same block. The auto planner will never schedule more than 2 commercials with the same voice in a block.

Allow industry conflict	(Commercial planner Xtra). By default, the planner does not place more than one commercial of a certain industry in a block. If this option is checked, the planner can place a maximum of two commercials of the same industry in one block.
Dalet export	(Commercial planner Xtra). This option allows you to export the planning directly to a file format that is recognised by Dalet. More details can be found on the following pages.
RCS Traffic export	(Commercial planner Xtra). With this option you can export planning directly to a file format that is recognized by the RCS Traffic software. More details can be found on the following pages.
Traffic 2000 export	(Commercial planner Xtra). This option exports the planning in a format compatible with the Traffic 2000 output. More details can be found on the following pages.
E Power export	(Commercial planner Xtra). This option exports the planning in a format compatible with the E Power output. Only the contents of E Power import blocks, recognizable by a purple color, will be exported.
Export: use weekday playlist if date playlist does not exist	(Commercial planner Xtra). Edition systems work with external audio on the slave stations, taking over the program from the main station via an external audio source. The playlists generally look the same for every day and only need to be provided with the new commercials on a weekly basis. With this option it is sufficient to create 7 basic playlists (called Monday to Sunday). When exporting, <i>Commercialplanner</i> will use these templates to store commercials in date playlists.
Split External Audio	<i>(Commercial planner Xtra).</i> External audio in the playlist is broken down by default when exporting commercials. You can uncheck this option if necessary.
Number of items per block limit	<i>(Commercial planner Xtra).</i> The 'Number of items per block limit' is standard 15. This is adjustable in steps of 15, 30, 45, 60, 75. This option is especially for E Power import to be able to import more items per block. The maximum number of items per hour increases automatically with this option.

Export offset block time in playlst *(Commercial planner Xtra).* By default the export block time offset is 9 minutes. With this option you can set the offset between 1 and 20 minutes.

The Commecialplanner always exports blocks based on the block time set per block in the standard weekly format. Because when editing the playlist the commercial blocks can shift in time, this offset is applied to match the commercial blocks during export. The commercial planner will check the block time of blocks 2 to 5 to see if there is a block in the playlist 9 minutes back or 9 minutes further down. In block 1 this is only 9 minutes further on. Block 6 is usually filled out, otherwise the commercial planner will look back 9 minutes. If Commercialplanner finds a block within the offset, commecialplanner replaces that block with the modified block and places it between exactly the same tracks. If commercialplanner does not find a block in the playlist within the offset, the commercial block will be placed in the playlist based on the block time set. Commercial blocks that have not been changed in terms of content after playlist scheduling remain unaffected.

Changing these settings will only have an impact the next time you plan one or more campaigns. This means: If the maximum number of commercials per block was set to 15 and you change this to 12, it is still possible that there will be commercial blocks in the daily overview with 13, 14 or 15 commercials. This restriction will only be taken into account if you start planning campaigns again. Only when all available campaigns have been rescheduled, the rules set here will be respected in the daily view.

With these settings you can be very creative.

<u>For example</u>: You want to fill the blocks as evenly as possible. To do this, you reduce the maximum number of campgnes per block (3 blocks per hour, maximum 3 per block). As more campaigns are added, it can become more difficult to plan them completely. You then increase the maximum number per block and set the maximum per hour more critically (4 per block, 15 per hour). After this increase, the number of commercials per hour will remain fairly constant.

<u>Another example</u>: In a busy period, you are unable to plan a number of campaigns due to industry conflicts. You first plan the campaigns that absolutely must not be placed in the same block. Then you allow industry conflicts in these settings and plan the last campaign. Then you deactivate this option again.

Dalet export

The Dalet export places the export files in the folder you have specified under 'Dalet export'. The export format is an ascii format where each commercial or jingle is on one line. The filename has the following form: DDMMYY.asc (for example 140204.asc). The format of each line is as follows:

Position	Meaning
18	Time: UU:MM:SS
9	Space
1039	Title of the commercial (from the database)
40 69	Artist of the commercial (from the database)
70	Space
71 78	File name of the commercial without extension
79	Space

80 + 81 Item length in seconds (rounded off)

12:00:00	Tropische planten	Bioplanim	PLANTEN	24
12:00:00	Technisch personeel	Dactylo	DACTYLO	18
12:00:00	Snel bezorgd	Ad Runner Snelkoeriers	BEZORGD	21
12:24:00	Pentium IV 3 GHz	Dynabyte	PENTIUM4	31
12:57:00	De hairstudio!	Burny's Hairstudio	HAIRSTUD	22
12:57:00	Ford Ka	Ford - Van Putten en Zoon	FORDKA	14
12:57:00	Gazelle herfstactie	Rijwielcenter Boone	GAZELLE	28
12:57:00	Kip aan het spit	Seghers Kip en Wildspecialitei	KIPSPIT	22

RCS Traffic export

The RCS Traffic export places the export files in the folder you have indicated in 'RCS Traffic export'. The exported format is an ascii format where each commercial or jingle is on one line. The file name has the form: MMDDJJS2.log (e.g. 021404S2.log). The format of each line is as follows:

Meaning
C = commercial indicator
Time: UUMM:SS
File name of the commercial without extension
Artist and title of the commercial (from the database)
0000 = not used
Item length in seconds (rounded off)
CM = commercial
Space = not used

C1200:00PLANBioplanim/Tropische plan0000024CM C1200:00DACTDactylo/Technisch person0000018CM C1200:00BEZOAd Runner Snelkoeriers/S0000021CM C1224:00PENTDynabyte/Pentium IV 3 GH0000031CM C1257:00HAIRBurny's Hairstudio/De ha0000022CM C1257:00FORDFord - Van Putten en Zoo000014CM C1257:00GAZERijwielcenter Boone/Gaze0000028CM C1257:00KIPSSeghers Kip en Wildspeci0000022CM

Traffic 2000 export

The Traffic 2000 export places the export files in the folder you specified under 'Traffic 2000 export'. The exported format is an ascii format where each commercial or jingle is on one line. The filename has the form: DDMM.asc (for example 1402.asc). The format of each line is as follows:

Meaning
Title of the commercial (from the database)
Artist of the commercial
File name of the commercial without extension
Year
Month
Hello
Time: UU:MM:SS

MIX724 is een programma Reclamepingel Stoomtrein	CUE CREATIVE
Jachtwerf - Schoens Banensite TV	ORW Regio 22 tot 31 augustus
Week34_Karsten_Internet Reclamepingel Cut4_Short	CUE CREATIVE CUE CREATIVE

108205169
108171842
108261343
108256953
108229812
108359363
108171842
108175529

08	09	01	12:00:00
08	09	01	12:00:00
08	09	01	12:00:00
08	09	01	12:00:00
08	09	01	12:00:00
08	09	01	12:00:00
08	09	01	12:00:00
08	09	01	13:00:00

E Power export

The E Power export places the export files in the folder you specified in 'E power export'. The exported format is an ascii format where each commercial or jingle is on one line. The filename has the form: JJMMDD.asc (for example 190214.asc).

AerOn Studio - Epower format

Field	Required	Format	StartPosition	CharLength
Date	V	yy/mm/dd	1	8
Time	V	hh:mm:ss	10	8
CommBlockNumber	V	1 6	19	1
Title	-	string	21	1 30 (truncated)
Artist	-	string	52	1 30 (truncated)
TrackLengthSeconds	-	digit	83	3
AudioName	V	string	87	1 255

Example:

18/02/09 18:01:00 1 POST OFFICE BANK - MORTGAGE ADVISOR COMMERCIAL COM149782

032

9.1.2 Branche / Voice

You can assign two branches to each customer in the database. Here you will find an overview of all known branches. After all, it is undesirable to program competitors in a certain industry into the same commercial block.

For each campaign, you can enter a maximum of two voices. You can enter these votes here.

🍈 Commercialpla	nner xtra				– = ×
Instellingen	Branche		Stem		
			Abel Dinc		
<u>_</u>	Autobedrijven		Anita de Wit		
Algemeen	Banken		Anne Brouwer		
	Beveiliging		Anton Verhage		
1 😰	Bloemen en planten		Bert Binnenmarsch		
Prancho / Stom	Café		Carine de Donder		
branche / Stelli	Computers		Evert Janssen		
	Dansscholen		Fransje Vinke		
	Elektronica		Jan Poortvliet		
Jingle	Fietsen		Jasper Groen		
	Fitness		Joop Baert		
N N N N N N N N N N N N N N N N N N N	Fotografie		Laurie van der Velden		
Blok			Peter Schonen		
	Hotel		Steven Hamelink		
🌉 Klant	Huis-aan-huis blad				
	Kappers				
Campagne	Keukens				
D	Koeriersdiensten				
	Slagers				
_	Tuinaanleg				
Dagoverzicht	Llitzendhureaus	•	$+ + - \vee \times$		
	+ + ×				
🌵 Instellingen				Opslaan	Herstellen

9.1.3 Jingle

A commercial block can start with a starter jingle, between the different commercials there may be an intermediate jingle and at the end comes the end jingle. You can enter the jingles you want to use here.

🍈 Commercialplar	nner xtra				– • ×
Instellingen	Jingletype 🔺	AudioID	Titel	Artiest	
	Voorjingle 1	KKLOK8			00:06.
<u> </u>	Voorjingle 1	KKLOK7			00:07.
Algemeen	Voorjingle 1	KKLOK1	Een uur		00:01.
	Voorjingle 1	KKLOK 10			00:08.
🥸	Voorjingle 1	KKLOK11	Elfuur		00:07.
Pranche / Stem	Voorjingle 1	KKLOK 12			00:07.
branche / Stem	Voorjingle 1	KKLOK9			00:07.
	Voorjingle 1	KKLOK4			00:03.
	Voorjingle 1	KKLOK6			00:07.
Jingle	Voorjingle 1	KKLOK5			00:03.
	Voorjingle 1	KKLOK3			00:02.
N N N	Voorjingle 1	KKLOK2			00:01.
Blok	Startjingle	JIN0004	Multipop - one world one radio		00:08.
	Startjingle	R-START	Commercial begin / einde (BTD)		00:01.
🧱 Klant	Tussenjingle	R-PINGEL	Commercial pingel (BTD)	- Commercial Pingel	00:01.
	Tussenjingle	JINGLE03	Cool fm - cool fm (uptempo 1)	- Jingle - Cool - 3	00:01.
Campagne	Eindjingle	R-ADVERT	Happy - adverteren op happy, bel 32011	- Promo - Happy - 1	00:12.
	Eindjingle	JINALG26	S&SI - essentie hitmix gene zever	- Jingle - S&SI - 26	00:01.
d planaiaa	Eindjingle	R-START	Commercial begin / einde (BTD)	- Commercial Pingel	00:01.
Dagoverzicht	- • x	•			
🎂 Instellingen				Opsiaan H	lerstellen

The start, intermediate and end jingles are only planned if there are also commercials in a block. Pre- and post lessons are always planned. You can use these to plan design.

Commercialplanner Xtra

If you have purchased the *Commercialplanner Xtra* module, you can use the forjingles and najingles. These jingles enclose the commercial block. Fore-jingles and najingles are also added to the playlist if there are no other commercials.

Jingles can be added by dragging and dropping them from *Database browser* to this window. In the column 'Jingles type' you indicate what kind of jingle it is. You can select multiple jingles and use the menu under the right mouse button to suddenly set the type for the selection.

Voorjingle 1
Voorjingle 2
Startjingle
Tussenjingle
Eindjingle
Najingle 1
Najingle 2

9.1.4 Block

Commercialplanner offers the possibility to define a maximum of 6 commercial blocks per hour. How you use these can be specified separately for each hour of the day and for each day of the week. This brings you to a total of $6 \times 24 \times 7 = 1008$ blocks.

The standard weekly format is a matrix where you can define a block format per day and hour, but also per day (by clicking on the title of the day) or hour (by clicking on the hour indication at the top). It is also possible to select several days or hours (using the 'Shift' key).

With the colours the matrix indicates whether the block can be used. *Red* Block with fixed start time.

O		باء ما د
Green	Sliding	DIOCK.

Blue Filled out block.

After you have made a selection in the weekly schedule, you will see an exact specification of the block in the lower part of the window.

The columns have the following meaning:

Status	The possibilities are:
	Off: This block is not being used. You will not be able to fill in the other columns;
	On: this block can be used for commercials, pre- and after lessons;
	Before + After: this block can only be used for pre- and after lessons.
	Import: Indicates that E-Power campanges are placed in these blocks.
Mode	The possibilities are:
mode	Fixed:this block has a fixed start time;Glide.This block is sliding;Filled out.This block is filled out.
Time	Minutes in the hour this block is scheduled. For example: 12 indicates that this block will be placed in the playlist at 12 minutes after the hour. If the hour format (in <i>Formatplanner</i>) starts with the news, set the time of the first block to 1. The commercials will come after the news but before the first track of the hour. You can make the last block fulled out by setting the mode to 'fulled out' and the time to 60. The times for blocks 1 to 6 should be incremental.
Min expensive	(Commercial planner Xtra). Minimum block length in seconds. Be careful to add enough jingles to fill a block if the minimum length cannot be reached with campaigns.
Max duration	(Commercial planner Xtra). Maximum block length in seconds.
Max items	(Commercial planner Xtra). This is the maximum number of commercials that may occur in this block. Maximum 30 campaigns per block. In order to distribute campaigns as well as possible over all blocks, keep a low value here in order to get evenly distributed blocks.

Sync (Commercial planner Xtra). With edition systems, you use this option (with each edition) to indicate that the blocks must synchronize in length. The planner will replenish the shortest edition(s) to the length of the longest block. Voorjingle 1 and (Commercial planner Xtra). These jingles come at the 2 beginning of the block. The front jingles are also placed in the playlist if there are no other commercials in the block. You can directly choose a fixed jingle from the list, but you also have these options: <No> : there is no voorjingle planned. <Random> : a random prejingle from the list is planned. <Fill> : the available jingles can be used to fill a block up to a certain length. The options for the other jingles are identical. The choice of padding is only available for the pre and autumn jingles. Startjingle This jingle comes before the first commercial (and after the front jingle if there is one). The starter jingle will not be planned if there are no commercials in the block. This jingle is always placed between commercials when there are Tussenjingle two or more commercials in the block. Eindjingle This jingle comes after the last commercial. The end jingle will not be planned if there are no commercials on the block. Najingle 1 and 2 (Commercial planner Xtra). The najingles are always the last items of a block and also come after a possible end jingle. The

najingles are also included in the playlist if there are no other commercials in the block.

A schematic representation of the order of commercials and jingles is as follows:

for	for	start-	comm.	betwee	comm.	betwee	
jingle 1	jingle 2	jingle		n-jingle		n-jingle	

 comm.	betwee	comm.	end	after	after
	n-		jingle	jingle 1	jingle 2
	jingle				

🐞 Commercialpla	nner	xtra																			-	= ×
Instellingen	Stand	laard we	ekinde	ling																		
		0	1	2	3	4	5	6	7	8	9) 1	10	11	12	13	14	15	16	17	18	19
<u> </u>	ma																					
Algemeen	di																			L		
	wo					$ \rightarrow $														<u> </u>	<u> </u>	
1 😫	do					\rightarrow							_							.	<mark>.</mark>	<u> </u>
Branche / Stem	vr	\rightarrow		_	\rightarrow	\rightarrow						_	_	_						 	<mark>.</mark>	_
	za											_	_							-		_
	ZO																				<u> </u>	
Jingle	Select	tie: dinsd	ag, 9	uur																		
	Stand	laard blol	kindeli																			
		Mode				Ma	Voorjir	ngle 1	Voo	rjingle		Startj	ingle	Tus	senji	Ein	djingle		ajingle		lajingle	≥ 2
Blok		Glijden	1	0	0	3	<geer< th=""><th>1></th><th><ge< th=""><th>en></th><th>0</th><th>Comm</th><th>ercial</th><th>I <g< th=""><th>een></th><th>Cor</th><th>mmerci</th><th>al I <(</th><th>Geen></th><th><</th><th>Geen</th><th>></th></g<></th></ge<></th></geer<>	1>	<ge< th=""><th>en></th><th>0</th><th>Comm</th><th>ercial</th><th>I <g< th=""><th>een></th><th>Cor</th><th>mmerci</th><th>al I <(</th><th>Geen></th><th><</th><th>Geen</th><th>></th></g<></th></ge<>	en>	0	Comm	ercial	I <g< th=""><th>een></th><th>Cor</th><th>mmerci</th><th>al I <(</th><th>Geen></th><th><</th><th>Geen</th><th>></th></g<>	een>	Cor	mmerci	al I <(Geen>	<	Geen	>
			12	0	0	25	<geer< th=""><th>1></th><th><ge< th=""><th>en></th><th><</th><th><geer< th=""><th>n></th><th><g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<></th></g<></th></geer<></th></ge<></th></geer<>	1>	<ge< th=""><th>en></th><th><</th><th><geer< th=""><th>n></th><th><g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<></th></g<></th></geer<></th></ge<>	en>	<	<geer< th=""><th>n></th><th><g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<></th></g<></th></geer<>	n>	<g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<></th></g<>	een>	<g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<>	een>	<(Geen>	<	(Geen)	>
🧱 Klant		Glijden	24	0	0	25	<geer< th=""><th>1></th><th>1fm</th><th>- Een</th><th>st</th><th><geer< th=""><th>n></th><th><g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th>C</th><th>ool fm</th><th>- va</th></g<></th></g<></th></geer<></th></geer<>	1>	1fm	- Een	st	<geer< th=""><th>n></th><th><g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th>C</th><th>ool fm</th><th>- va</th></g<></th></g<></th></geer<>	n>	<g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th>C</th><th>ool fm</th><th>- va</th></g<></th></g<>	een>	<g< th=""><th>een></th><th><(</th><th>Geen></th><th>C</th><th>ool fm</th><th>- va</th></g<>	een>	<(Geen>	C	ool fm	- va
-		Glijden	30	0	0	25	<geer< th=""><th>1></th><th><ge< th=""><th>en></th><th><</th><th><geer< th=""><th>n></th><th><g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<></th></g<></th></geer<></th></ge<></th></geer<>	1>	<ge< th=""><th>en></th><th><</th><th><geer< th=""><th>n></th><th><g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<></th></g<></th></geer<></th></ge<>	en>	<	<geer< th=""><th>n></th><th><g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<></th></g<></th></geer<>	n>	<g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<></th></g<>	een>	<g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<>	een>	<(Geen>	<	(Geen)	>
🚦 Campagne			48	0	0	25	<geer< th=""><th>1></th><th><ge< th=""><th>en></th><th><</th><th><geer< th=""><th>n></th><th><g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<></th></g<></th></geer<></th></ge<></th></geer<>	1>	<ge< th=""><th>en></th><th><</th><th><geer< th=""><th>n></th><th><g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<></th></g<></th></geer<></th></ge<>	en>	<	<geer< th=""><th>n></th><th><g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<></th></g<></th></geer<>	n>	<g< th=""><th>een></th><th><g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<></th></g<>	een>	<g< th=""><th>een></th><th><(</th><th>Geen></th><th><</th><th>(Geen)</th><th>></th></g<>	een>	<(Geen>	<	(Geen)	>
	Aan	Uitvulle					<geer< th=""><th></th><th><ge< th=""><th></th><th></th><th>Comm</th><th>ercial</th><th></th><th>een></th><th>Cor</th><th>mmerci</th><th>al I <(</th><th>Geen></th><th></th><th>(Geen</th><th></th></ge<></th></geer<>		<ge< th=""><th></th><th></th><th>Comm</th><th>ercial</th><th></th><th>een></th><th>Cor</th><th>mmerci</th><th>al I <(</th><th>Geen></th><th></th><th>(Geen</th><th></th></ge<>			Comm	ercial		een>	Cor	mmerci	al I <(Geen>		(Geen	
뛷 Planning																						
Dagoverzicht																						
A																		*****				
🏰 Instellingen																		Opsla	aan	H	erstell	en

When selecting multiple hours in the weekly schedule, it is possible that one or more items in the block layout are 'empty'. This indicates that this setting is different for a part of the selected hours.

You are free to choose the starting times of the different blocks, however, they must always be incremental. If you only have a block at 'quarter to', take block 5. Radio stations that only play commercials at the end of the hour take block 6. This way you always have the possibility to switch on an extra block later on without having to change the settings drastically.

Tip: if you want to broadcast a commercial break at half an hour, set the time to 29 (minutes) after the hour. The block can then start a little earlier than half an hour, but will not be much later than half an hour either. The exact time at which the commercial block starts depends on the start time and the length of the item playing at that time. It is also possible to give a commercial block a fixed start time.

If you schedule commercial blocks in the standard weekly format after they have already been scheduled, you will probably have to reschedule a large portion of the campaigns because the scheduled blocks will contain campaigns. If you have only chosen other jingles, you will need to reschedule them separately from the campaigns. You can read about this later in this chapter.

The consequences of changes in these institutions are as follows:

Mode	<u>Turning off blocks</u> : in principle, all commercials have to be rescheduled. It is possible that blocks are removed after this action, but still contain commercials. Turn on clocks: you don't need to take any action. The pext time
	you plan commercials there will be more blocks available.
Time	In the daily view you have to export again, so that the blocks are put in the playlists at the new times.
Min & Max	If both values are equal, the commercials have to be rescheduled. If both values are not equal, the commercials should only be rescheduled if the margin is reduced (minimum up, maximum down).

Max items If you increase the maximum items per block, only new campaigns need to be rescheduled. If you lower the maximum items per block, the campaigns will have to be rescheduled if there are too many commercials in a block.

Jingles The jingles need to be rescheduled.

9.2 Customer

9.2.1 General

💩 Commercialpla	nner xtra		- = ×
Klant	ID		
7	Naam	Caluwé en Broekaart - Aannemers	
	Adres	Dorpsstraat 2b	
Nant	Postcode	4569 AJ Graauw	
<u>.</u>	Telefoon	0114-63 30 10	
Browser	Fax		
۵.			
Import	Contactpersoon	Jos de Caluwé	
	E-mail		
	Verkoper		
	Branche 1		
🂐 Klant	Branche 2		
	Reclameburea		
🛐 Campagne	Info		
🏸 Planning			
Dagoverzicht			
🎄 Instellingen		18 🕙 🕑 🔂 🖨 🤤	8 📀

In the previous window, enter the customer's details. Most fields are self-explanatory and require no further explanation.

ID

Each customer gets its own customer code. When adding a new customer, the planner fills in the next usable number (1 higher than the highest existing number). If necessary, you can enter another number yourself. After you have saved the customer, it is no longer possible to change the ID. The reason for this is, that the campaigns you are going to enter always refer to (the ID of) the customer. If you use *Commercialplanner* as well as accounting software for invoicing, it is useful to have the customer number within that software equal to the ID. The customer number in the administration then matches the ID in the planner.

Branch 1 / Branch 2

Enter the industry(ies) in which this advertiser is active to prevent competitors (or campaigns of the same advertiser) from being scheduled in the same block.

With the search function it is possible to search any text in the data of all entered customers. *Shortcut key CTRL+F*

9.2.2 Browser

💰 Commercialpla	inner	xtra						- 0	×
Klant	ID	Naam	Adres	Postcode	Plaats	Contactpersoon	Branche 1	Branche 2	
	1	01 Caluwé en Broekaart	Dorpsstraat 2b	4569 AJ	Graauw	Jos de Caluwé	Aanneme		
20		02 Annemie Fleuratelier	Dorpsstraat 80	4413 CE	Krabbendijke	Annemie Derksen	Bloemen e		
		03 Cadzand Tuincentrum	Mariastraat 35	4506 AC	Cadzand	Rob de Vries	Bloemen e		
Klant		04 Ford - Van Putten en	Axelsestraat 165	4537 AH	Terneuzen		Autobedri		
200 C		05 Autobedrijf Cees van	Grevelingenstraat 1	4301 XZ	Zierikzee	Cees van der Wekker	Autobedri		
5		06 Chrysler Jeep Hop BV	Amundsenweg 37	4462 GP	Goes	Fred Hofman	Autobedri		
Browser		07 Auto Zegers	Mr F J Haarmanweg 1	4538 AM	Terneuzen	Hans Zegers	Autobedri		
		08 Bioplanim	Kanariesprenk 293	4386 DL	Vlissingen		Bloemen e		
		09 Verberkmoes Dance N	Axelsestraat 174	4537 AS	Terneuzen	Roel Verberkmoes	Dansscho		
Import		10 Burny's Hairstudio	Veldhovenring 57	4561 GB	Hulst		Kappers		
		11 Dactylo Uitzendburea	De Jongestraat 5	4531 GL	Terneuzen	Piet Sinke	Uitzendbı		
		12 Charlie Hair	Schuttershof 26	4461 DZ	Goes	Charles de Smit	Kappers		
		13 De Groene Wens	Schuberthof 14	4536 AM			Tuinaanle		
		14 Moy Fa Chinees Resta	Kerkdreef 10	4571 GJ		Moy Fa	Horeca	Restaura	
📬 Marak		15 Rhodos Grieks Restau	Singelstraat 5	4461 HZ	Goes	Peter Radix	Horeca	Restaura	
		16 Ing Bank	Stadhuisplein 5	4531 GZ	Terneuzen	Bart Dees	Banken		
		17 Gemeentelijke Krediet	Simpelhuisstraat 1	4331 PH	Middelburg		Banken		
5 Campagne		18 Het Loze Vissertje	Boulevard de Wieling	4506 JJ	Cadzand	Elsje van Ree		Restaura	-
		19 Café De Lunchroom	Nieuwstraat 23	4532 SD	Terneuzen		Horeca	Café	
뛷 Planning		20 Herberg 1785	Badhuisstraat 3-5	4381 LM	Vlissingen	Peter Roos	Horeca	Hotel	
		21 Schelfhorst Keukens	Loskade 45	4331 HX	Middelburg	Theo van der Genugt	Woningini	Keukens	
🗰 Dagoverzicht		22 Vedior	Oude Haven 15	4301 JJ	Zierikzee		Uitzendbu		
-		23 Seghers Kip en Wildsp	Bierkaaistraat 13	4561 BB	Hulst	Peter Seghers	Slagers		
🏨 Instellingen									

The browser window gives a brief overview of all entered customers.

You can change the sorting order by clicking on the title bar in the desired column. By double-clicking on a customer, you jump directly to the details of that customer.

You can also print a short overview of all available customers (via the menu *File Print* \rightarrow or *File Print Preview* \rightarrow).

		Klant		
D	Naem	Adres	Plasts	Contactpersoon
101	1 Caluwé en Broekaat -	Dorpsstraat 2b	4569 AJ Graauw	Jos de Caluxé
100	2 Ámemie Fleurateller	Dopssteat 80	4413 CE Kraldbendike	Annemie Derksen
103	3 Cadzand Tulncentrum	Marlasteat 35	4506 AC Cadzand	Rob de Vries
104	Ford - Van Putten en Zoon	Aleisestraat 165	4537 AH Teneuzen	
105	5 Autobedrijf Cees van der	Grevelingerstraat 1	4301 XZ Zierlizee	Cees van der Welken
106	Chrysler Jeep Hop BV	Amundserweg 37	4462 GP Goes	Fied Hofman
107	7 Auto Zegers	MrF J Haarmanweg 19	4538 AM Teneuzen	Hans Zegers
108	Bioplanim	Kanariespenk 293	4386 DL Visshoen	
105	Vebelances Dance	Avelsestraat 174	4537 AS Teneuron	Roel Verbeikmoes
110	Eurovis Haltstudio	Veidbouenting 57	4561 GB Hulkt	
- 11-	Dactylo Ultenditureau	DeJomestaat5	4531 G. Teneuzen	Piet Sinte
443	Challe Hair	Schutershof 26	4481 DZ Gres	Charles de Smit
	De Groene Wens	Schuberthof 14	4535 AM Teneizen	orares de arric
114	MovFa Chines	Kelkireef 10	4571 GJ Arel	Mov Fa
44.0	Bholos Griete Besterrent	Sincestar 5	A4RI HZ Greek	Date: Dativ
444	im Bank	Sarbuisrieh 5	4531 G7 Teneizen	Rat Dees
447	i og stallte I Germenhillte Medicinesk	Clonelly Jestrait 1	4204 EL Middahum	24. 200a
444	Well are Viscate	Boulevard de Wielloc 20	4505 LL Cedared	Distances
110	o He Luze visitelye	Boulevero de Vitering 26	400000 0002010	cosje ven nee
111	Gale De Lunchibom	Neuvisiteat 23	4532 SD Teneuzen	Defen Dese
141	Preberg 1/85	Ballussiaat 35	4361 LM VIBSINGEN	FEETROOS
14	1 Schemorst Keukens	LOSKage 45	4331 HX Middeburg	i neo van der Genugen
144	2 Vedior Caphers Kin en	Cube Haven 15	4301 30 Zienizee	Date Casher
14	s ægnes kipen	Bierkabistaat 13	4001 DD HUS	Hele acgines
12	4 Alarment BV	Noordweg 17	4413 AA Krabbendijke	BicdeGelder
14	5 B & P Aubmaseringen	Dopssteat 84	4511 EJ BIESIERS	
126	5 Dynabyte	Aagje Dekenstraat 8	4381 RZ Vissingen	Anton Dieleman
12	Kuymout Autobearijf	Kareved 4	4371 GA Koudekerke	Jaap Killymout
123	8 Ad Rumer Snekoerlers	Austalleweg 22	4561 PD Huist	Ad Verdurmen
123	PRIMEICENTE BOONE	Ujnoaan 15	4366 EA Ooskapelle	
130	Combi Back	Lange Kerkstraat 31	4461 JG Goes	Fred Leeflang
131	Hans Nis Fotsudio	Beukensteat 39	4462 TP Goes	PeraNjs
133	2 De Harense smo			
Broad	cast Patners Aeron	193-2015		Pagina 1 van

9.2.3 Import (Commercialplanner Xtra)

Chain radios that broadcast all or part of the same campaigns can import customer and campaign data from each other. Here you can import customer data. Later in this chapter the import of campaign data will be explained. There you will find a more detailed description of how best to proceed.

9.3 Campaign

Commercialplanr	ier Xtra		
Campagne		95354966 🗘 week ma di wo do vr za zo	🔨 Termijn 👻
<i></i>		Blaupunkt - Top Format	
5		6 4 5 6 7 8 9 10 <geen onbekend=""> 7 (feb) 11 12 13 14 15 16 17</geen>	
Algemeen	Declame bureau	8 18 19 20 21 22 23 24	
_		9 25 26 27 28 1 2 3	
Spots		· 11 (mrt) 11 12 13 14 13 16 17	
12		Geen 13 25 26 27 28 29 30 31	
		Verdeeld per dag 14 1 2 3 4 5 6 7	
1		vrijdag 1 februari 2019 • 0 • Week 5 16 (apr) 15 16 17 18 19 20 21	
. 🤲		donderdag 24 oktober 2019 v 24 v Week 43	
		4277 🗘 🔝 🗘 (totaal / per dag) 19 6 7 8 9 10 11 12	
	Gepland	1.409 4.277 2.868 20 (mei) 13 14 15 16 17 18 19	
	Lengte spots	(t/m gisteren / totaal / vanaf vandaag) 21 20 21 22 23 24 25 26 07:26:11 22:34:23 15:08:12 22:34:23 15:08:12	
	Beschikbaar	9 714 239 (tiidslots / dagen in termiin) 23 3 4 5 6 7 8 9	
		24 (jun) 10 11 12 13 14 15 16	~
💭 Klant	0 1	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	
Runc	ma		
5 Campagne	di		
	wo		
olaasiaa	do		<u> </u>
Plaining	vr		
Deservesisht	za		└── ──
Dagoverzicht	20	· · · · · · · · · · · · · · · · · · ·	
🔓 Instellingen	Broadcast Partn	rs 🕜 🖓 🖓 🖓 🤤	0 🗙 🐼

9.3.1 General

In the picture above you see an example of a campaign. The different parts of the 'General' tab are briefly described in this chapter.

<u>ID</u>

Each campaign gets its own code. When adding a new campaign, the planner fills in the next usable number (1 higher than the highest existing number). If necessary, you can enter another number yourself. After you have saved the campaign, it is no longer possible to change the ID. The reason for this is that when planning automatically and manually, the ID of the campaign is always saved in the daily overviews. If you use other software in addition to *Commercialplanner* for booking campaigns, it is useful to have the campaign number within that software equal to the ID. The order number in the administration then matches the ID in the planner.

<u>Name</u>

Here you give the general name of the campaign.

<u>Customer</u>

Enter the name of the customer here. You can always quickly check the customer's details using the '...' button next to the input field.

Advertising agency

Here you enter (if applicable) the name of the advertising agency. As with 'customer', you can easily check the details of the advertising agency using the button '...'.

Voting

Here you fill in the names of up to two people who recorded the commercial.

Preferred position (Commercialplanner Xtra).

With preferred position you indicate where the spot should preferably be in the block. However, there is a certain arbitrariness here.

No The commercial can be anywhere in the block. The chance of being placed first or last is smaller. First The commercial is always placed first in a block. A block can only contain one commercial of which the preferred position is 'first'. The commercial is placed at the beginning of the block. The Start commercial comes for commercials with the preferred position 'middle'. The commercial is placed in the middle of the block. It comes after Middle commercials with the preferred position 'beginning' and for commercials with the preferred position 'end'. End of The commercial will be placed at the end of the block. The commercial comes after commercials with the preferred position 'middle'. Latest The commercial is always placed last in a block. A block can only contain one commercial of which the preferred position is 'last'.

It is recommended to maintain the default 'None' position for most campaigns, unless the client requests a specific placement. It also makes little sense to give the majority of campaigns one of the preferred positions 'Start', 'Middle' or 'End'. The best effect is achieved when these preferred positions are more or less evenly distributed over the available campaigns. In campaigns where you use reminders, you should never fill in the 'Last' preference position, it is best to fill in 'Start' or 'Middle'. The planner will also actively try to place a campaign with reminders earlier in a block.

Placement

With this you indicate how the desired commercials will be placed during the duration of the campaign.

Random The spots are more or less randomly distributed over the whole period as in the example below.
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1-1-2004							1			3					1			2							7
2-1-2004							1	1		1	1					1		1		1					7
3-1-2004			1	1				2		1				2			1		1	1		1			11
4-1-2004				1			1			2			1				2	1	1	2			1		12
5-1-2004		1						1		2			1		1		1						1		8

Note: on 1 January 2016 this campaign can be heard three times between 9:00 and 10:00. The first two days the campaign will be broadcasted 7 times on the radio, on 4 January 12 times.

The auto planner looks at all the blocks in which the campaign may Divided over occur and carefully distributes the commercials over these blocks. period

For example: if there are 1000 possible blocks and 330 commercials have to be planned, this campaign will be planned in every third block. Due to industry, voice conflicts and the like, it can happen that blocks are skipped.



Note: the spots will be divided over the allowed blocks. The number of allowed blocks varies per day.

Divided per

day

Commercialplanner Xtra

The number of commercials you entered is divided by the number of days available. This number is scheduled every day.

For example: if you want 120 spots in 10 days, the Commercialplanner plans 12 spots every day.

For example: if you want 100 spots in 12 days, the Commercialplanner plans 8 or 9 spots per day.

The auto planner divides the spots over the available blocks in the day.

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1-1-2004					1			1	1	1			1	1		1	1		1					1	10
2-1-2004							1	1	1		1		1		1		1	1	1	1					10
3-1-2004		1				1		1		1		1		1		1	1			1				1	10
4-1-2004				1				1	1		1		1	1			1	1	1				1		10
5-1-2004		1					1		1	1			1	1		1		1	1				1		10

Notice: Every day the spot is broadcasted the same number of times, further they are neatly distributed over the day.

Filling empty Commercialplanner Xtra

blocks

The planner finds out which blocks contain the fewest commercials and places the campaign there first. You use this method for budget or promotional campaigns (e.g. promotion of the new summer programming, World Wildlife Fund, Amnesty International) with which you fill in the empty blocks in order to obtain a more proportional distribution of the blocks.

Notice: Also don't add too many filling campaigns. Advertisers will then know that your wallet is not well filled and will negotiate a higher discount.

Manually The campaign is never visible in the planning overview. You can plan the campaign yourself by dragging and dropping it into the desired blocks in the day overview. When you activate '*Auto save*', changes will automatically be saved when you browse through the daily schedule.

Start and End

Here you indicate the start and end date of the campaign. The maximum duration of a campaign is <u>5 years</u>. It is also possible to indicate the first and last hour on which the campaign may be planned. For a campaign covering a maximum of 7 days, you can indicate in the weekly calendar exactly at which hours the commercials may be scheduled. As soon as the campaign is longer, you will have to adjust the start and/or end time if the campaign does not have to run from midnight to midnight. For example, you use this for a fair that takes place during the weekend and ends on Sunday around 17:00. On the last day, you then indicate that no more commercials may be scheduled after 15:00, for example. As soon as commercials have been scheduled, it is no longer possible to change the start date of the campaign.

Commercials

The first number indicates how many commercials you want to plan during this campaign. The second number indicates the (rounded off) number of commercials per day. You can enter both numbers. The other number is automatically adjusted according to the number of days available. When changing the start or end date or period calendar of the campaign, the number of commercials per day will be calculated again.

<u>Note</u>: You book a campaign over a certain period of time and submit 10 commercials per day. You then exclude a number of days in the period calendar. Based on the total number of commercials entered and the available number of days, the average number per day will be calculated again. It is quite possible that 10 will remain. However, the total number of commercials has not changed, which means that on average just over 10 commercials per day will be broadcast when planning. If you still want a fixed number of 10 commercials per day, fill in this number again so that the total will be recalculated.

Planned

The number of commercials planned to date and until the end of the campaign. The software will calculate the first number over and over again based on the daily overview, this may take some time if you haven't used the planner for a week.

Length spotlights

Indicators for the total length of the spots. The indicators run automatically if the total number of spots, or the number of spots per day is increased or decreased.

Available at

On the basis of the period calendar and the weekly schedule, it is calculated how many blocks and days are available for this campaign. It goes without saying that the number of available blocks must be at least as large as the desired number of commercials.

<u>Plan campaign</u>

After making most of the changes to the campaign, you will have to reschedule this campaign to make those changes. This option starts automatically if desired. This option makes it possible to modify all campaigns and plan them at the same time. *Commercialplanner will* see which campaigns need to be rescheduled. After planning, this option will automatically switch off again.

Weekly format

In the settings, you have specified in the standard weekly format on which days and hours global commercials may occur. Here you specify in which of these blocks the campaign may be placed. This can be specified separately for each weekday and each hour. You can select the blocks with the numbers 1 to 6, with the menu under the right mouse button or with the respective number on the keyboard.

1	Blok 1
	Blok 2
1	Blok 3
1	Blok 4
1	Blok 5
	Blok 6
	Alle 1008 blokken aan
	Alle 1008 blokken uit

Block 1 ... Block Activate or deactivate the block in question on the days and hours that are allowed according to the standard weekly schedule.

All 1008 blocks Activate all 1,008 blocks, including those that are not active in the standard week format. If you later make blocks active in the standard week format, they will also become active in the campaign.

All 1008 blocks Deactivate all 1,008 blocks, including those not active in the standard week format. If you later make blocks active in the standard week format, they will not become active in the campaign.

Period calendar (Commercialplanner Xtra)

The period over which the campaign is running is visible. With the button 'Term' it is possible to quickly select all (in)even, days, weeks or months. It is also possible to select a certain weekday for broadcasting by clicking on the day name and using the space bar to turn that day on or off. Selecting weeks is done in a similar way by clicking on the week number and switching the week on or off with the space bar. In this way it is possible to indicate per day whether or not a campaign can be planned.

When browsing the database, the number of commercials scheduled up to the current day is always determined by checking the daily overviews. If you have not used *Commercialplanner for* a week or longer, this may take a few seconds. With frequent use there is no noticeable delay.

After you have planned a campaign you can print an overview via *File Print* \rightarrow . Via *File Print Preview* \rightarrow you can view an overview and save it as for example pdf. On this you can see on which days and hours the spots of this campaign will be heard.

From the Save as \rightarrow menu you can copy a campaign and save it under a different name. All data will be transferred to the new campaign. You only need to enter a start and end date, so to speak, in order to plan the campaign.



9.3.2 Spots

On the second tab of the campaign, you give up the main spots and reminders, which return later in the commercial block. You can drag and drop these from the *Database browser*. You can delete them with the *Del* key.

🍈 Commercialpla	nner xtra	-	• ×
Campagne	Campagnespots (Remeha)		
	Hoofdspot	Reminder	
1	Remeha (Reklame)		
Algemeen			
Sports			
- Spots			
Browser			
(<u>ii</u>			
Import	Planningsrapport		
🧱 Klant	Campagne gepland: 3-12-2014 12:09:51		
	Te plannen spots: 236		
🔋 Campagne	Conflicten Items per blok: 926		
🥩 Planning	Beschikbare blokken: 1198		
/ · · · · · · · · · · · · · · · · · · ·	De campagne is volledig gepland.		
Dagoverzicht			
🎄 Instellingen		10 🕢 🖸 🖸 🔂 🕑 🗊	2 📀

You can add up to 10 main spots and reminders to a campaign. These must be filled in from the top line. The planner will rotate the spots from top to bottom in the planning. Spots that are filled in after an empty line will not be recognized by the auto-planner. If the text is visible in red, you have removed the relevant track from the database; this is not a problem for campaigns that have expired. For active campaigns you have to correct this error.

Do you have one main spot and four different reminders? Then fill in the same main spot 4 times and in the second column the different reminders.

The inspector butcher	Tournedos on Monday
The inspector butcher	Wednesday Meatloaf Day
The inspector butcher	Saturday meat croquettes
The inspector butcher	Steak on Sunday

Do you have three spots, one of which needs to be broadcast more often? You enter the spot that should be broadcast more often two or more times in the list.

The new Auris	
Toyota Avensis	
The new Auris	
Toyota Rav4	

The planning report is visible in the lower part of the window. In the planning report you will find information about the latest campaign planning. If there were conflicts during planning, you can see this here. If the number of conflicts and available blocks added together is greater than the number of available blocks on the General tab, it shows that there are blocks with multiple conflicts.

<u>**Tip:**</u> In principle, you do not have to delete an advertising campaign, even after it has ended. You can then no longer print an overview of the campaign once it has been deleted. If you still want to delete a campaign and especially the commercials that are planned in the future, then <u>proceed as follows:</u>

In the campaign, enter 0 for the number of commercials 'per day', in other words, set the number to 0. You must leave the end date of the campaign unchanged. Schedule the campaign again. When rescheduling a campaign, the commercials that have already been scheduled will first be removed from the daily overview. After that, the planner sees '0 per day' that no more commercials need to be scheduled and does not place this campaign back in the daily overview. After this, you can decide to remove the campaign definitively. Note that the entire history of the campaign will also be removed from the daily overview.

9.3.3 Browser

The third part of the campaigns is a browser, just like it is there for the customers. This has a number of possibilities for filtering the data similar to the working method in Excel.

🍈 Commercialpla	nner	xtra							-		×
Campagne		Naam	Stem 1	Stem 2	Positie	Plaatsing	Startdatum	Einddatum		lant	
		10 Axa sloten				Willekeurig	do 4-12-2014	di 31-3-2015			
12		11 Blaupunkt			Geen	Willekeurig	do 4-12-2014	di 31-3-2015			
5		12 Computer Idee			Geen	Willekeurig	do 4-12-2014	di 31-3-2015			
Algemeen		13 Dating.nl				Willekeurig	do 4-12-2014	di 31-3-2015			
		14 De Harense smid			Geen	Willekeurig	do 4-12-2014	di 31-3-2015			
		15 Directa			Geen	Willekeurig	do 4-12-2014	di 31-3-2015			
Spots		16 Groter groeien			Geen	Willekeurig	do 4-12-2014	di 31-3-2015			
1000	16	17 Remeha			Geen	Willekeurig	do 4-12-2014	di 31-3-2015			
10		18 Sony Tournament			Geen	Willekeurig	do 4-12-2014	di 31-3-2015			
Browser		19 TPG Post			Geen	Willekeurig	do 4-12-2014	di 31-3-2015			
		20 Zoom Magazine			Geen	Willekeurig	do 4-12-2014	di 31-3-2015			
l 📜		21 Primera			Geen	Willekeurig	do 4-12-2014	di 31-3-2015			
Import		22 Movie Max			Geen	Willekeurig	do 4-12-2014	di 31-3-2015			
·		23 New Shopping Magazi			Geen	Willekeurig	do 4-12-2014	di 31-3-2015			
🧱 Klant											
💈 Campagne											
뛷 Planning											
Dagoverzicht		4									
a	\times	(Einddatum >= 19-3-2						¢			
🦺 Instellingen											
	_									_	

You can print a short overview of the advertising campaigns available on the printer via the *Print* \rightarrow *File* menu or view them via *Print Preview* \rightarrow *File* and save them as pdf, for example.

D Nam Startistum Eindiatum 1610 Ava sibien 4/12-2014 3/13-2015 3/13-2015 1611 Baupunkt 4/12-2014 3/13-2015 3/13-2015 1612 Computer lice 4/12-2014 3/13-2015 1613 Dating nl 4/12-2014 3/13-2015 1614 De Hørense smiti 4/12-2014 3/13-2015
D Nam Startbalum Einddatum 1610 Ava siben 412-2014 31-3-2015 1611 Beupinkt 412-2014 31-3-2015 1612 Computer Idee 412-2014 31-3-2015 1613 Beinguni 412-2014 31-3-2015 1614 De Harense smbl 412-2014 31-3-2015
D Nam Biantistum Einddatum 1610 Ava sizen 412-0214 313-2015 1611 Biaupunkt 412-0214 313-2015 1612 Computer löse 412-0214 313-2015 1613 Datingan 412-0214 313-2015 1614 De Hørense smid 412-0214 313-2015
ID Nam Bartistum Eindstum 1610 Ava sloten 441-2014 313-2015 1611 Blaupukt 4412-2014 313-2015 1612 Computer lote 4412-2014 313-2015 1613 Computer lote 4412-2014 313-2015 1614 De Hørense smid 4412-2014 313-2015
1610 Avalishen 4412-2014 31-3-2015 1611 Beupunkt 4412-2014 31-3-2015 1612 Computer idee 4412-2014 31-3-2015 1613 Delinguit 4412-2014 31-3-2015 1614 De Harense smbl 4412-2014 31-3-2015
1611 Bibupunit 412-0014 313-2015 1612 Computer lidee 412-2014 313-2015 1613 Deling nl 412-2014 313-2015 1614 De Harense smbl 412-2014 313-2015
1612 Computer lidee 4412-2014 31-3-2015 1613 Distingui 4412-2014 31-3-2015 1614 De Harense smith 4412-2014 31-3-2015
1613 Detingui 4412-2014 31-3-2015 1614 De Harense smiti 4412-2014 31-3-2015
1614 De Hørense smbl 442-2014 31-3-2015
1615 Dreda 4-12-2014 31-3-2015
1616 Groter groelen 4-12-2014 31-3-2015
1617 Remetre 4/12-2014 31-3-2015
1618 Sony Tournament 44/2-2014 31-3-2015
1619 TPG Post 4/12/2014 31/3/2015
1620 Zoom Magazine 442-2014 31-3-2015
1621 Primera 4/12/2014 31/3/2015
1622 Movie Nax 4/12/2014 31-3/2015
1623 New Shopping Magazine 442-2014 31-3-2015

193-2015

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Broadcast Partners Aeron

9.3.4 Import (Commercialplanner Xtra)

This function is only available to users with the *Commercialplanner Xtra* module. Import functions are available in *Commercialplanner* for taking over customer data and campaigns from another AerOn Studio database.

Before you start, it is important to take the following into account. Namely, that customer IDs in both databases match exactly.

It has already been described in the pages above that the ID you assign to a customer corresponds best with the customer number you use in the administration. Campaigns preferably give you the order number as ID. If you have not yet set up an administration, we advise you to give each customer (regardless of which station they advertise on) a unique ID. When importing campaigns, the reference to the customer number will be included. If you do not use unique ID's, the campaigns will refer to the wrong customer after import. By means of an example, we indicate what happens then:

	Station 1		Station 2	
ID	Customer	ID	Customer	
2	Butcher	4	Baker	
4	VW garage	5	VW garage	
ID	Campaign	ID	Campaign	
20	Steak - Butcher	21	Pastry - Baker	
21	Touran - VW garage			

The 'Touran' campaign only runs at the first station, but will now also run at the second station. At station 1 this campaign is connected to customer number 4, namely 'VW garage'. At station 2 you import the 'Touran' campaign. After import, at station 2 this refers to customer 'Bakker', because this customer has ID 4. Campaign ID 21 is already in use at station 2, so 'Touran' gets the next free number.

At station 1 'Bakker' is going to advertise. ID 4 is already in use here. The data of this customer can be imported from station 1 from station 2, but because ID 4 is already in use, the baker will get a different ID at the first station.

The situation above is very confusing, especially if you have more customers and advertising campaigns. A good setup could be as follows:

	Station 1		Station 2
ID	Customer	ID	Customer
2	Butcher	4	Baker
5	VW garage	5	VW garage
ID	Campaign	ID	Campaign
20	Steak - Butcher	22	Pastry - Baker
21	Touran - VW garage		

After importing customers or campaigns, the IDs and references on both stations are always identical.

9.4 Planning

nning		Algemeen			Broad	cast Pa	rtners
	ID	Naam	Startdatum	Einddatum	Aantal	Sch	iedule
🥩	95354	70 DFDS Seaways - Top Format		vr 3-5-2019			
Compone	95354	958 Novum 2		vr 3-5-2019			
Campagne	95354	57 Novum 1		vr 3-5-2019			
	95354	71 Directa - Top Format		do 24-10-2019			
	95354	72 Drank de kater komt later - Top Format		do 24-10-2019			
Single	95354	73 Durion - Top Format		do 24-10-2019			
	95354	76 Groter groeien - Top Format		do 24-10-2019			
Spot	95354	77 Holland Casino Scheveningen - Top Format		do 24-10-2019			
opor	95354	978 Kip - Top Format		do 24-10-2019			
	95354	179 Kruidvat - Top Format		do 24-10-2019			
	95354	81 Minerva Bioscopen - Topformat		do 24-10-2019			
Klant	95354	82 Movie Max - Topformat		do 24-10-2019			
	95354	83 New Shopping Magazine - Topformat		do 24-10-2019			
Campagne	95354	84 Remeha - Topformat		do 24-10-2019			
	95354	186 Suzuki - Topformat		do 24-10-2019			
Planning	95354	87 The Sony Amsterdam Tournament - Topfor	vr 1-2-2019	do 24-10-2019			
	95354	188 VakantieXperts - Topformat		do 24-10-2019			
Dagoverzicht	95354	89 Zoom Magazine - Topformat		do 24-10-2019			

9.4.1 Campaign planning

In the window you can see all existing campaigns that have not yet expired. The order in the list is determined by the end date. The campaign that expires first is scheduled first by default. However, it is possible to change the order using the buttons at the bottom left. Filling campaigns are shown at the bottom and are marked with a blue colour. You can also change the order between them, but never have them planned for the regular campaigns. The number column shows how many commercials still need to be scheduled. If this number is not 0, there will be a check mark in the *Schedule* column. A red block indicates that the campaign cannot be scheduled because no spot has been specified.

The order in the column may be important. The campaign at the top is planned first, the campaign at the bottom is planned last. However, the planner will first always plan all IP campaigns, then the regular ones and finally the fill campaigns. It is preferable to have campaigns with restrictions (limited number of blocks, industry or voice conflict) planned first. Filling campaigns should also be planned at all times. After the regular campaigns have been planned, it is quite possible that certain blocks no longer need to be filled by the backfill campaigns.

As soon as you click on 'Start', scheduling will start automatically. This happens in 3 phases:

- *Preparing* Of all campaigns to be planned, the spots planned in the future will be removed from the daily overview.
- Plans This planning phase actually consists of two separate phases. First, the regular campaigns are planned in the order you have indicated in the list (the top one first, the bottom one last). After that, the filling campaigns are planned.

When planning the individual campaigns, it may be necessary to first count how many spots have already been planned until today.

However, this only applies if you are replanting a campaign that is already running at that time.

Finish In this last phase, all blocks are checked and the planner puts the campaigns in the right order.

After scheduling is complete, depending on a setting, *Commercialplanner* automatically exports the commercial blocks to the scheduled playlists.

Commecialplanner always exports blocks based on the block time set per block in the standard week format. Because the commercial blocks can shift in time when editing the playlist, an (adjustable) export offset is applied to match the commercial blocks that are already present in the playlists during export. The Commercialplanner checks with regard to the block time whether there is already a commercial block in the playlist 9 minutes back or 9 minutes away. This is used for sliding commercial blocks. If *Commercialplanner* finds a commercial block in the playlist within the offset period, *Commecialplanner* replaces that block with the changed commercial block and places it between exactly the same tracks. If Commercial Planner does not find a commercial block in the playlist within the offset period, a commercial block is always placed in the playlist based on the set block time.

During the planning of the advertising campaigns, *Commercialplanner* also determines which jingles will be placed in the blocks and places them in each block where jingles are indicated. The fact that blocks are planned including jingles is necessary, among other things, because *Formatplanner* first looks at the length of all commercial blocks together in one hour and then fills in the remaining time. During the planning of commercials, the blocks that only contain jingles remain untouched. You can plan the jingles separately for this purpose.

At the end of the planning process, you can immediately see which campaigns have been completely planned and the campaigns you need to check. Campaigns displaying the planned number "0" that are fully scheduled. You can quickly jump to the campaingn details by double-clicking on the campaign in the plan overview.

Planning blocks with a fixed length (a certain minimum and maximum length is also allowed) requires an adapted strategy. In order to obtain the desired length, additional items will have to be added to certain blocks. To this end, the user must keep an eye on the following:

- 1. Set the maximum block length as low as possible. Filling almost empty blocks to one minute is less bad than filling them to two minutes. Gradually the maximum block length can be increased as more campaigns run.
- 2. The more filling campaigns there are, the easier it is to fill the blocks to the desired length.
- 3. With the spring and autumn lessons, the planner fills the gaps that can no longer be closed with a campaign. A sufficient number of jingles of different lengths must be available.

As mentioned earlier, when planning a campaign the planner takes into account, among other things, the industry and the voice of the other campaigns in the block.

When planning a block with a set maximum length, the software also looks at the total length of the existing items. The block is only eligible for use if the remaining length is greater than the length of the longest item (in campaigns with different spots, not all of them need to be the same length).

The filling campaigns are normally placed first in the blocks that are completely or almost empty. When planning with a certain minimum length, those blocks will be given priority.

The planner tries to fill the blocks with restrictions. By filling as many blocks with campaigns as possible, you prevent a block from starting or ending with a relatively long jingle.

After planning the campaigns, control of the blocks takes place. The planner calculates the remaining length of the block to be filled in order to remain within the set limits of minimum and maximum lengths. This length is filled with a forjingle or najingle or both.

To fill holes of up to one minute, for example, the user can record 60 jingles that are always one second longer than the previous one. By making clever use of the combination front and rear jingles, the user can also record front jingles with lengths of 1, 2, ... 9 seconds and rear jingles with lengths of 10, 20, ... 60 seconds.

AerOn Studio and the *Commercialplanner* calculate in milliseconds. This makes it almost impossible to come up to the millisecond with the placement of the jingles, unless the length of all items is exactly a multiple of 1000 milliseconds. When determining the preand post-jingles, the *Commercialplanner* automatically selects the jingle or external feed program combination of pre- and post-jingles with which the smallest deviation is achieved. If you record the jingles as described above, then the deviation is a maximum of half a second, i.e. either half a second too short or half a second too long. If you still want to use shorter items, take into account a minimum length of 200 milliseconds.

9.4.2 Schedule Jingles

Many radio stations use the pre- and post jingles as a top of the hour or end of the hour track. In the blocks that also contain commercials, the planner will plan them directly. For the other blocks without commercials, you can use this function to *plan Jingles*.

This feature has been kept separate to avoid the need to check the jingles of all scheduled blocks when planning a short campaign (which has often happened in seconds).

You choose to *schedule Jingles* if there are changes to the settings related to the jingles. The scheduler then runs through all blocks in the future, removes old jingles and adds the new ones. Campaigns already planned in the blocks will remain unchanged. This is important because you may already have given your advertiser a complete plan list.

Radio stations that want to broadcast other pre-Christmas and post-Christmas jingles during the Christmas period, for example, proceed as follows: for Christmas, fill in the Christmas jingles in the standard weekly format. You choose *Jingles plans*. If you want to use the old jingles again after the Christmas period, put them back in the standard weekly format and choose *Jingles Plans* again.

There are two phases:

- *Preparing* The planner calculates the length (commercials, without jingles) of all blocks in the future in the day plan.
- *Finish* The jingles are added to the blocks as they are set in the standard weekly format. Jingles will be added until the last day in the future where commercials are scheduled.

9.4.3 Schedule Spots

Some clients book a campaign for a long period of time but want to change the spot(s) during the period. That in itself is not a problem, the campaign is easy to reschedule. However, if there is a desire to leave the spots in the same blocks, this option comes in handy. Change the spot(s) of the campaign and choose the option '*Plan spots*'. It is not possible to choose this option if more or fewer spots have to be planned as well. Also, changing the option '*Placement*' in the campaign has no effect, the new spots are placed in exactly the same blocks by means of '*Plan spots*'.

9.4.4 Automatic export

While planning a playlist, *Formatplanner* will automatically add the commercials and commercial jingles for the day to the playlist.

With the option auto export checked you ensure that the existing playlists are provided with the new data from the daily overview after planning campaigns or jingles. The export then takes place automatically after the planning of campaigns or jingles is completed.

Auto Export is divided into two options that you can check. Namely Automatic export to playlist and Automatic export to file. If you check the latter option, export will be done to text files in the EPower, Dalet, RCS or Traffic format if these formats are also activated in the settings.

Tip! If playlists are fully or partially used, no export can take place after the planning has been completed. You will then be notified that playlists are in use. Therefore, before planning and exporting, release the blocks in the playlists if necessary. After planning commercials and jingles, you can still export from the daily overview if the automatic export could not be completed.

Export weekday name playlists

Exporting only takes place for those days for which a playlist is already available. If no playlist is present, the planner checks whether there is a name playlist with the name of the weekday and uses it if "Use weekday playlist if date playlist does not exist" is checked in the Commercial planner settings. The playlist with commercials is always saved with the normal name as a date playlist. (for example: A name playlist "Thursday" is provided with commercials and saved as a date playlist Thursday 24 September 2015). For example, you can use this method with edition systems where the editions usually only broadcast external audio and their own local commercials. The playlists on the editions are then automatically saved as date playlists and provided with the current commercial planning.

Tip! With the option "Use weekday playlist", it is possible with long-running campaigns that you suddenly have playlists until the end of the year or later. If desired, you can delete these playlists in Administration.

Commecialplanner always exports blocks based on the block time set per block in the standard week format. Because the commercial blocks can shift in time when editing the playlist, an (adjustable) export offset is applied to match the commercial blocks that are already present in the playlists during export. The Commercialplanner checks with regard to the block time whether there is already a commercial block in the playlist 9 minutes back or 9 minutes away. This is used for sliding commercial blocks. If *Commercialplanner* finds a commercial block with the changed commercial block and places it between exactly the same tracks. If Commercial Planner does not find a commercial block in the playlist within the offset period, a commercial block is always placed in the playlist based on the set block time.

Tip! To give *Commercialplanner export* the opportunity to always place changed commercial blocks between the tracks as indicated in the *Formatplanner* hour formats, you can, for example, plan a pre- or post-jingle or a promo campaign in each block. This way you can ensure that a commercial block is present everywhere when playlists are planned. If a commercial block is present everywhere, the *Commercialplanner* is able to match all commercial blocks present in the playlists and place a modified commercial block in the same position.

9.5 Daily overview

In the tab daily overview the user gets an overview of which commercials are planned. First click on the timeline at the top to display the desired hour. The blue bars indicate to what extent the relevant hours are filled with commercials.

The blocks in the overview are coloured light grey. This also allows you to check whether there are any commercials planned in blocks which, possibly after the last planning, have been plotted in the standard weekly format.

You can also manually add commercials to the daily view by dragging and dropping them from the list of available campaigns to the desired block. If it is not possible to add a campaign due to a conflict, this will become visible at the bottom of the window. In the list, only campaigns are visible of which the end date has not expired on the date of the overview.

🍈 Commercialplanne	er Xtra			_ = ×
Dagoverzicht	Datum woensdag 13 maart 2019 Aantal dit uur / deze dag: 19 / 4	Tijd Bloklengte	dit uur / deze dag: 00:07:46 / 02 10 11 12 13 14 15 16 17 18 19 20 21	:42:26 22 23
	14:01 Glijden (3:48) (9) (6)	14:12 Glijden (0:44) (2) (6)	14:24 Glijden (0:20) (1) (0)	
Dagoverzicht	10plan.nl - Top Format Drank de kater komt later - Top	Veerman Sjamin (3) Deptal 90	Blaupunkt - Top Format	Campagne 🔺 🔺
	Movie Max - Topformat	Dental 50		10plan.nl - Top Format
	Directa - Top Format			Art Frame - Top Format
	The Sony Amsterdam Tourname			Axa Sloten - Top Format
	VakantieXperts - Topformat			BP Bumper Lokaal
	Art Frame - Top Format Fortis Commercial Finance - Tor			Banket bakkerij Mastenbroek
				Blaupunkt - Top Format
				Body en beauty fitness maga:
				Car Wash Volendam
				Carhifi professional
				City vlaai
	14:36 Gliiden	14:48 Gliiden	15:00 Llitvullen (2:54) (7) (7)	Computer Idee - Top Format
	The again		Novum 2	Computers op het internet
			Moda for walking	DFDS Seaways - Top Format
			Steur makelaars Novum 1	Dating
			Sierbestrating Jonk	De Harense Smid - Top Forma
📸 sela - a			Remco carstereo	De Landschappen - Top Forma
Kiant			Zonnecenti uni Jamaica (o)	Dennis audio en video service
				Dental 90
5 Campagne				Directa - Top Format
				Discotheek Max
🏏 Planning				Drank de kater komt later - I d
				Fortis Commondial Einando
Dagoverzicht				CPM Signatic
		de inhoud inclusief jingles te zien		
🍌 Instellingen	Broadcast Partners		Import	Export 🔻 📑 🔗 🕱

Shortcut keys

Ctrl+PgUp	Previous Day
Ctrl+PgDn	Next Day
PgUp	Previous hour
PgDn	Next hour

For a number of campaigns, a number is visible behind the name in brackets. The number indicates which spot is placed in this block. For example *(2) indicates* that the second spot you entered in the campaign data will play in this block.

It is recommended not to remove old campaigns from the campaign database. The name of the campaign can then no longer be found in the daily overview. The ID of removed campaigns will be shown in the daily overview. For example [34] indicates that campaign 34 has been removed from the database, but is still present in the daily summary.

If a block is visible in red, this indicates that one or more files are no longer in the database (and on the hard disk). This can lead to problems when exporting to the playlist. Correct the spots of the campaign in question.

With the button "Export it is possible to export the commercials of the desired day to the playlist. No blocks may be used in a playlist for this purpose, for example on another workstation. It is not possible to export commercials from the past or from days for which no playlist (created with *Formatplanner*) is available.

When exporting commercials, AerOn Studio looks at the place of the commercials in the playlist and compares the time in the playlist with the time of the blocks in the standard weekly format and tries to replace the correct blocks. If the time of a commercial block in the playlist and the block time in the *Commercialplanner weekly format* are more than 10 minutes apart, for example due to shifts while editing a playlist, it becomes unclear what exactly needs to be replaced and AerOn Studio will place that block in the playlist according to the block time in the *Commercialplanner weekly format*.

Export

By pressing the 'Export' button this day will be exported to the playlist. It is also possible to export all days from the current day to the playlists. To do so, press the arrow next to the 'Export' button and select 'From this day'. Again, only those days will be exported for which a playlist (with music) is already available.

Deze dag: Naar playlist Deze dag: Naar exportbestand Deze dag: Naar playlist + exportbestand Deze dag: Naar EPowerbestand Vanaf deze dag: Alle naar playlists Vanaf deze dag: Alle naar exportbestanden Vanaf deze dag: Alle naar playlists + exportbestanden Vanaf deze dag: Alle naar EPowerbestanden

Import (Commercialplanner Xtra)

After pressing the 'Import' button, you can select a text file (template) to import a commercial schedule. This import function uses templates in the format 'E Power' described earlier in this chapter under *General settings*. The block numbers in the template must match the overall block configuration and the blocks must be marked as import blocks in the standard week format. Blocks marked as import blocks can be distinguished by their purple color. Important! Prior to an import, the audio files belonging to the commercials in the template must have been imported into the AerOn Studio database.

After a template has been imported, the commercials will appear in the daily overview. After that you can plan your own jingles around it and/or plan your own campaigns in between. It is sometimes useful to have an overview on paper at hand. You can print this overview via the *Print* \rightarrow *File* menu or via *Print Preview* \rightarrow *File*. A printout looks like this:

	donderdag 19-3-2015 (week 12)
9.01 Giljden (0:49)	1000 Utvullen (0:41) 1001 Gijden (0:57)
Filmera	Sony Tournament Sony Tournament
Blaupunkt	New Storping Magazine
11:00 Ubvullen (0:43)	11:01 Gilden (1:02) 12:00 Ubuilen 0:25)
Dreda	Groter groeien Groter groeien
De Hørense smit	Sony Tournament Dating ni Movie Max
1201 Gilden (023)	1300 Ubullen (0:47) 1301 Gilden (1:04)
Zoom Magazine	Dreda Remeha
-	TPG Post De Harense smb
	Movie Max
1400 Ubulien (0:43)	1401 Gijden (04s) Computer Idea
Blaupunkt	Ava siden
	Pimea
1501 Gijden (051)	1800 Utvullen (0:41) 1801 Gijden (0:48)
Grater graelen	Novie Max Ava siden Sony Tournament Sony Tournament
New Shopping Magazine	Rimea
17:00 Ubvullen (0:46)	17:01 Gijden (1:08) 18:00 Utvullen (0:41)
Sony Tournament	New Shopping Magazine Zoom Magazine
TPG Post	De Harense smbl Groter groeien

In the *Print Preview* window you can not only print the overview, but also save it as a PDF (for Adobe Acrobat), HTML file or send it by e-mail.

9.6 Editions

An edition system is built with one master edition, and one or more slave editions. The idea behind editions is that the slave editions broadcast the program of the master edition combined with disconnection of commercial blocks. Each edition plays commercials locally.

On the slave editions external audio is programmed around the commercial blocks in the hours in which the program of the master edition is broadcast. This can be done 24 hours a day, but it is also possible to broadcast music from the local database of the edition non-stop in certain hours and take over the program from the main system in the remaining hours.

If a commercial block is started on the master edition, an action trigger will send a message to all slave editions so that the external audio is aborted and the local commercial block is started.

To send the messages the *Messaging protocol* of the database server is used. Besides decoupling commercials it is also possible to decouple news, jingles and other design.

For AerOn Editions the following modules are required per edition:

- AerOn Studio or AerOn Web
- Edition Features
- Commercialplanner Xtra

9.6.1 Configuration master edition

Output Routing

The audio feed of the master edition that goes to the slave editions must be a feed without commercials. Therefore we configure on the master edition the playout of commercials on a separate output of the sound card. This commercial output runs outside the program signal of the mixer and is further connected in the transmission line of the master edition. The program signal of the mixer is routed to the editions.

Lokaal		Output routering
	Naam	Apparaat
	Live A / Auto	1: AES (1+2) (RME HDSP AES)
Algemeen	Live B	5: AES (3+4) (RME HDSP AES)
eigenieen	Commercials	3: AES (13+14) (RME HDSP AES)
-	Jingle A / E	5: AES (3+4) (RME HDSP AES)
	Jingle B / F	6: AES (5+6) (RME HDSP AES)
AUdio	Jingle C / G	7: AES (7+8) (RME HDSP AES)
	Jingle D / H	8: AES (9+10) (RME HDSP AES)
	VT 1	2: AES (11+12) (RME HDSP AES)
Audio logger	VT 2	2: AES (11+12) (RME HDSP AES)
	VT 3	2: AES (11+12) (RME HDSP AES)
	VT 4	2: AES (11+12) (RME HDSP AES)
	PFL 1	2: AES (11+12) (RME HDSP AES)

Outbound Actions

Sending messages to the slave editions takes place by means of an action trigger linked to an audio file. To generate an edition pulse we drag and drop an *item in* 'Menu *Tools* > Actions > Outgoing *Actions* > Audio files'. This can be for example a 0.5 second silence item. The action 'Abort external audio' must be set. In *Commercialplanner* we set this item as '*Voorjingle 1*' so that this item is always placed as the first item in each disconnected commercial block. Linked actions are executed as soon as an audio file is started in the Live/nonstop player or in the Jingle player. In this case, the master edition sends the message 'Abort External Audio' to all slave editions.

Trigger - Editie Syndicate +++ Editie Syndicate +++ Trigger 00:00.0 🗖 Extern audio afbreken 💌 🖌 🖌

Disconnecting news and jingles

News, Jingles and other design to be disconnected drag and drop into '*Tools* > Actions > Outgoing *actions* > Audio files'. You need to set the action '*Regional playback*'. As soon as such an item is started on the master edition, the slave edition will also play this AudioID if set there. Regional items are played just like commercials over the commercial playout output.

JINGLE-RMCT-1-Full JINGLE 1 FULL RMCT OCHTENDS 00:00.0	₹	×.	×.
--	---	----	----

9.6.2 Configuration slave edition

The slave edition needs to know who is sending messages to the editions. Who the master is. In '*Tools* > Actions > Incoming *actions* > *Messaging*' we select the master edition database.

🕒 Acties		_ = ×
Inkomende acties	Server	: 172.16.17.91
Messaging	Database	: editie_enschede
Recente historie Regionaal	Selecteren Hallo tes	
Uitgaande acties	Regio player	: Actief
Inkomende acties		

Actions Regional

In '*Tools* > Actions > Incoming *Actions* > Regional' you can drag and drop jingles, station calls and other design to be played locally on the slave edition. These items have the same AudioID (filename) on all editions, but of course have different audio content on each edition. The playing time of these items must be exactly the same on all editions, including master edition. As soon as a message is received from the master edition with an AudioID that is in the list '*Regional*, that item is automatically played back in the *Regional jingle player*. The audio is automatically routed to the non-stop output.

Manual AerOn Studio

Commercialplanner

Acties			- 8	×
Inkomende acties	AudioID Regionaal	Artiest	Tite	
	Com006	Sternet FM	Com006	
Messaging	Com007	Sternet FM	Com007	
Recente historie	Com008	Sternet FM	Com008	
Operation	Com009	Sternet FM	Com009	
Regionaal	Com010	Sternet FM	Com010	
	lokaainieuwsheadlines	Sternet FM	Lokaal Headlines	
	LokaalnieuwsRegionaal	Sternet FM	Lokaal Neuws	
	JINGLE-RMCT-1-Full	Sternet FM	Ochtendshow - Jingle 01 Full	
	JINGLE-RMCT-1-Quoted	Sternet FM	Ochtendshow - Jingle 01 Quoted	
	JINGLE-RMCT-1-Shotgun	Sternet FM	Ochtendshow - Jingle 01 Shotgun	
	JINGLE-RMCT-1-Talkup	Sternet FM	Ochtendshow - Jingle 01 Talkup	
	JINGLE-RMCT-2-Full	Sternet FM	Ochtendshow - Jingle 02 Full	
Uitgaande acties	JINGLE-RMCT-2-Shotgun	Sternet FM	Ochtendshow - Jingle 02 Shotgun	
	JINGLE-RMCT-3-Full	Sternet FM	Ochtendshow - Jingle 03 Full	
Inkomende acties				

Overview regional items



Regional jingle player

Extend external audio

If no message has been received from the master edition while the slave edition has already reached the start time of the next commercial block, it should be possible to extend the External audio. As soon as an extension is running, a yellow clock will count down the remaining extension time. An incoming message is received during the extension so that the commercial block can still be started. In the example below, the extension is a maximum of 20 minutes. See *General* \rightarrow *Automation* \rightarrow > External *Audio Settings*.

	Extern audio	
Geforceerd item	< Geen >	•
Activeren bij stoppen automatisering	Master editie Enschede	•
Extern audio maximaal verlengen	20 🗘	

As soon as the slave edition receives a message '*External Audio Abort*' the commercial block is started. Commercial blocks are always in a playlist and are played in the non-stop player.

Acties	– = ×
Inkomende acties	þ6:57:06.464 Extern audio afbreken via database 'editie_enschede' van computer 'AERON-TEST2' ▲
Messaging	07:02:03.209 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2' 07:57:05.993 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2'
Recente historie	08:57:09.503 Extern audio afbreken via database 'editie_enschede' van computer 'AERON-TEST2'
Regionaal	09:02:03.607 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2' 09:57:09.914 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2' 10:02:03.679 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2' 11:02:03.709 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2' 11:57:04.063 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2' 12:02:03.791 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2' 12:02:03.791 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2' 12:02:03.791 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2' 12:57:02.478 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2'
Uitgaande acties	13:02:03.790 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2' 13:57:01.033 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2' 14:02:03.968 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2' 14:02:03.968 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2'
Inkomende acties	14:57:03.853 Extern audio afbreken via database 'edite_enschede' van computer 'AERON-TEST2'

9.6.3 Central commercials planning (*Commercial planner Xtra*)

On the master edition or workstation we plan commercials for all editions. The master edition needs to know for which editions these commercials should be planned. In the *Commercialplanner settings* the database of each slave edition has to be set at *Netwerk*. Close *Commercialplanner* after setting up and saving and open *Commercialplanner* again to load the edition databases. You can then centrally manage and plan campaigns and commercials of all editions.



Because of the large amount of data involved in commercial planning, it is recommended to link all edition PCs under one roof in the local network.

Filling commercial blocks

On all editions a commercial block is started at the same time. The commercial blocks have to be played at the same time on all editions to remain synchronous. Therefore, commercial blocks must be exactly the same length on all editions. To be able to make commercial blocks on all editions of the same length, you need

sufficient padding items. These can be jingles, promos, station calls or very short silence items.

During planning, *Commercialplanner* checks which block of all editions is the longest. The commercial blocks on the other editions are filled with padding items up to that length.

In the *Standard Block Layout*, a total of four pre and post lessons per edition can be used to fill commercial blocks. If one jingle per block is used to fill, more filling items are usually needed than if two jingles are used per block. When using two jingles per block, in most cases 20 items will suffice. Ten padding items from 1 to 10 seconds and ten padding items from 10, 20, 30, ..., 100 seconds. For example, to fill 14 seconds, *Commercialplanner* can combine items of 4 and 10 seconds.

To make up for the very small differences, you can add padding items with a length varying from 300 milliseconds to 1 second, for example. In the example below, these are silence items that we set as the very first item ('*Voorjingle 1*') and/or as the very last item ('*Najingle 2*').

stellingen	Jingletype *	Titel	Artiest	Duir
	Najingle 1	Editie commerciablok - filler 4 seconden	- Filer	00:04.0
	Natingle 1	Editie commerciablok - filler 5 seconden	- Filer	00:05.0
Alcomon	Najingle 1	Editte commerciablok - filler 6 seconden	- Filler	00:05.8
Algenieen	Najingle 1	Editie commerciablok - filler 7 seconden	- Filler	00:06.8
140	Najingle 1	Editie commerciablok - filler 8 seconden	- Filler	00:07.9
	Najingle 1	Editie commerciablok - filler 9 seconden	- Filler	00:08.9
Branche / Stem	Najingle 1	Editie commerciablok - filler 10 seconden	- Filler	00:09.6
<u>.</u>	Najingle 1	Editie commerciablok - filler 20 seconden		00:20.0
<i></i>	Najingle 1	Editie commerciablok - filler 30 seconden		00:29.6
Jingle	Najingle 1	Editie commerciablok - filler 40 seconden		00:40.0
	Najingle 1	Editle commerciablok - filler 50 seconden	- Filler	00:49.9
9	Najingle 1	Editie commerciablok - filler 60 seconden	- Filler	00:59.9
Blok	Najingle 1	Editie commerciablok - filler 80 seconden		01:20.3
m -•-	Natingle 1	Edite commerciablokl -filler 90 seconden		01:29.9
' b	Najingle 1	Editie commerciablok - filler 100 seconden	- Filler	01:39,9
	Najingle 1	Editie commerciablok - filler 70 seconden	- Filler	01:10.6
	Najingle 2	Silence - 300 milli seconds	- Silence	00:00.2
🕺 Klant	Najingle 2	Silence - 400 milli seconds	- Silence	00:00.3
	Najingle 2	Silence - 500 mili seconds	- Silence	00:00.4
Composes	Najingle 2	Silence - 1 second	- Slence	00:00.9
Campagne	Najingle 2	Silence - 600 mili seconds	- Silence	00:00.5
4	Natingle 2	Silence - 700 mili seconds		00:00.6
Planning				
Dagoverzicht	- v x			

At Jingle you get an overview of available spring and autumn lessons.

Block settings

In the standard weekly format, 'Sync' must be ticked on each edition in the disconnected commercial blocks. By means of 'Sync' it is indicated that it concerns an edition block. The maximum length of disconnected commercial blocks must be set exactly the same for each edition. The positions of the pre- and autumn lessons, which you want to use to fill commercial blocks, must be set to *<Fill>* per block. During planning, these positions will be marked with *<Fill>* fill items. Four positions are available per block.

On the master edition, the mode can and may be set to *Filled Out*. On the slave editions we always set the mode of all disconnected commercial blocks to *Floating*. On slave editions the difference in time between commercial blocks has to be bigger than the *maximum length*, this to prevent commercial blocks from sticking together. External audio must always be present between the commercial blocks. If block 6 is set to time 58 and block 1 is set to time 2, this is a time difference of 4 minutes. I.e., the maximum block length of block 6 must be less than 240 (4 minutes). The block length is set in seconds. Block times of blocks in the same hour are set 11 minutes apart because of the 10 minutes block separation. i.e. the block time relative to the time in the playlist when re-exporting commercials.



Block layout master edition (Block 6 mode is Filled out)

👸 Commercialplanne	r Xtra													- = ×
Instellingen									Standaard w	eekindeling				
		0 1	2	3	4	5	6	7 8 9	9 10 11	12 13 1	4 15 16	17 18	19 20 2	1 22 23
	di													
Algemeen	WO													
1	do													
Branche / Stem	78						-							
	20													
Terefore and the second se	Selectie	: maanda	1g, 0 u	r										
Jingle														
<u>©</u>	Status	Mode	Tit	Mi	Ma	Max		Vooringle 1	Vooringle 2	Startingle	Tusseninde	Endinde	Natingle 1	Natingle 2
Blok	Aan	Giden	2				V							
0.2	Uit													
Metwerk	Uit													
- ALCOLO														
	Ult	Gluben	Co.						<geen></geen>	Commercial ha		Commandial etc	<geen></geen>	<geen></geen>
	Mail		30				-	KOCC12	<opvoler 2<="" td=""><td>connie da de</td><td>Nocen/2</td><td>Commercial en</td><td></td><td>COpvalenz</td></opvoler>	connie da de	Nocen/2	Commercial en		COpvalenz
S Campagne														
2														
Planning														
Dagoverzicht														
1 Instellingen	Lane.			-										

Block Layout Slave Edition (All blocks mode Floating)

Add Campaigns

After the commercial blocks and jingles are set per edition you can start adding campaigns. A new campaign must always be added to the master edition. When saving, it will be added to all editions. Before saving it is therefore useful to fill in as much common data as possible. After saving, different settings can be made for each edition in each campaign.

Planning	Algemeer			Editie	Enschede			melo	Haaks	bergen	He	ngelo	
	ID Naam	Startdatum	Enddatum			le Aantal	hedule	Schedule		Schedule			edule
20	9535498! Zoom Magazine - Topformat												
Company													
Campagne	9535495! BP Bumper Lokaal												
	9535496! De Landschappen - Top Forma												
	95354986 Suzuki - Topformat												
	9535498! Sula - Topformat												
	9535498+ Remeha - Topformat												
	95354954 Radix RDS - Regionaal												
	95354990 FixET - TopFormat												
	9535499: Kyocera - TopFormat												
	9535498£ VakantieXperts - Topformat												
	9535496: Primera - Regionaal												
	9535496; Dating												
	9535497: Durion - Top Format												
	9535496: 10plan.nl - Top Format												
	95354964 Art Frame - Top Format												
	9535496! Axa Sloten - Top Format												
🤶 Klant	95354966 Blaupunkt - Top Format												
	95354961 Computer Idee - Top Format												
S Campagne													
	9535498: New Shopping Magazine - Topf												
💋 Planning													
	9535498: Minerva Bioscopen - Topformal												
Dagoverzicht													

The campaigns of all editions are planned from a single overview.

After the commercial planning has been completed, the planning of each edition can be checked in the daily overview. The end dates of campaigns may vary per edition. To make the current campaigns of slave editions visible in the planning overview on the master edition, the end date of those campaigns on the master edition must be at least equal to the end date of campaigns on the slave editions.

In the day overview you can check the planning.

💰 Commercialplanne	er Xtra			– = ×
Dagoverzicht	Datum Tijd vrijdag 8 maart 2019 0 Aantal dit uur / deze dag: 14 / 307	Blokkengte dit uur / deze dag: 00:05 1 2 3 4 5 6 7 8 9 10	5:52 / 02:19:52 11 12 13 14 15 16 17 18 19 20 :	21 22 23
Dagoverzicht	11:02 Gijden (2:55) [Max duur 3:00] (8) (3) New Shopping Magazine - Topformat Movie Max - Topformat Radik RDS - Regionaal Zoom Magazine - Topformat Blaupurkt - Top Format Axa Solten - Top Format Dextro energy - Regionaal Kyocera - TopFormat	11:120#	11:28 Uit	Beschikbare campagnes Campagne
Image: Second system Image: Second system ✓ Planning Image: Second system Image: Second system	11:35 Ut	11:48 UK	11:58 Glijden (2:57) [Max duur 3:00] (6) (5) Basseleur brimode (5) Lekker brood Veerman Sjamin (4) Zuiderzee catering (2) Restaurant Riskja (2) Lutecks kip en snack (2)	Car Wash Volendam Cartifi professional City Vaal Computers Idee - Top Format Computers op het internet Dating De Harense Smid - Top Format De Landichappen - Top Format De Movies Dennis audio en video service Dentis 90 Dextro energy - Regionaal Directa - Top Format
🌲 Instellingen	Beweeg de muis over een blok om de inhoud in Edite Enschede Borne Almelo Haaksber	dusiefjingles te zien rgen Hengelo		import Export • 💀 🧭 🛞

Daily overview

If the commercial planning is in order, you can plan playlists. In order to plan the playlists, a daily format must be present in *Formatplanner* with the external audio source of the master edition every hour. We make sure that an external source with a fixed start time is present every hour between commercial blocks. This is to ensure that blocks remain synchronous.

😴 Formatplanner Xpert 🛛 🗕 🗖 🗙				
Dag		Hoofdedite ieder uu	r om xx:15	
	Tijd 🔺	Mode	Uurformat	
5	00:00:00		Extern Hoofdeditie 15 minuten	
Format	00:15:00		Extern Hoofdeditie 1 uur	
20070	01:15:00		Extern Hoofdeditie 1 uur	
5	02:15:00		Extern Hoofdeditie 1 uur	
Browser	03:15:00		Extern Hoofdeditie 1 uur	
	04:15:00	Vast	Extern Hoofdeditie 1 uur	
	05:15:00		Extern Hoofdeditie 1 uur	
	06:15:00		Extern Hoofdeditie 1 uur	
	07:15:00		Extern Hoofdeditie 1 uur	
	08:15:00		Extern Hoofdeditie 1 uur	
	09:15:00	Vast	Extern Hoofdeditie 1 uur	
		Vast	Extern Hoofdeditie 1 uur	
		Vast	Extern Hoofdeditie 1 uur	
		Vast	Extern Hoofdeditie 1 uur	
			Extern Hoofdeditie 1 uur	
			Extern Hoofdeditie 1 uur	
		Vast	Extern Hoofdeditie 1 uur	
			Extern Hoofdeditie 1 uur	
🔔 Uur			Extern Hoofdeditie 1 uur	
			Extern Hoofdeditie 1 uur	
🛱 Dag			Extern Hoofdeditie 1 uur	
Day	20:15:00		Extern Hoofdeditie 1 uur	
			Extern Hoofdeditie 1 uur	
	22:15:00		Extern Hoofdeditie 1 uur	
-	23:15:00		Extern Hoofdeditie 45 minuten	
🎾 Planning	+ + - <			
🏰 Instellingen			0 8 9 9 9 9 9 8 6	

9.6.4 Multiple playout

It is possible to run multiple AerOn Studio editions on one PC. This offers the possibility to save costs on hardware. The audio card in the PC must be of the RME brand because AerOn Studio uses the *RME matrix mixer* for switching and audio routing. There are several RME audio cards available. The RME audio card that is installed must have sufficient outputs for the number of editions you want to run.

Output Routing

Each edition must play on its own playback channel in the audio card. A different playback channel is set for each edition. Each edition is routed to a different output in the *RME matrix mixer* than the other editions. For example, editions 1 to 4 are routed to outputs 1 to 4 respectively.

Lokaal	Output routering		
	Naam	Apparaat	
Algemeen	Live A / Auto	3: Analog (3+4) (RME Fireface UC)	
	Live 8	3: Analog (3+4) (RME Fireface UC)	
	Commercials	Standaard via Live A, B of Auto	
	Jingle A / E		
Audio	Jingle B / F		
	VT 1		

RME External & matrix

At *RME External & matrix* we set the external source. For each edition we set at which input the audio of the master edition comes in and to which output that audio has to be switched. Here you configure the same output that is assigned in *Output Routing*. The output on which this edition plays commercials.

Automatisering	Driver ASIO Firefac	ie USE	1			
				Ext	ern audio via R	ME mixer
- *	Ingang		Uitgang		Naam	Pu
Algemeen	<geen></geen>		<geen></geen>			
	<geen></geen>		<geen></geen>			
	<geen></geen>		<geen></geen>			
Extern audio	SPDIF coax. L (1)		Analog 3 (1)		Master editie Ens	chede
DirectSound	<geen></geen>		<geen></geen>			
111	<geen></geen>		<geen></geen>			
Extern audio ASIO	<geen></geen>		<geen></geen>			
T - min	<geen></geen>		<geen></geen>			
141	<geen></geen>		<geen></geen>			
Extern audio stream	<geen></geen>		<geen></geen>			
	<geen></geen>		<geen></geen>			
	<geen></geen>		<geen></geen>			
RME Extern & matrix	<geen></geen>		<geen></geen>			



RME TotalMix with 1x audio from the master edition and 4x slave edition output.

In this chapter we will show you how to set up a news facility.

The news service makes a new item available every hour, which is automatically retrieved with an additional program (ftp program). This happens ideally shortly before the whole hour, so that the news remains as up to date as possible. Some news services provide a download tool of their own for this purpose, which you must then install and configure. Please consult the supplier's manual for this.

After you have installed the download program, AerOn Studio must be set up to import the news items automatically. The folder in which the news is downloaded must be set in *InOutBox* as an IN-box.

In Settings Global \rightarrow Audio Local, specify where AerOn Studio can find the audio files. The news item must be placed by *InOutBox* in one of the folders listed here or in a subfolder. *InOutBox will* create a new waveform file each time that contains data about the audio file such as playout gain and duration. *InOutBox* can also immediately update data in the database.

For further information, please refer to the *InOutBox* chapter.

The news item must be added to the database. On the first tab of *Database editor*, the tab 'Track', enter title and artist. As an extra, you can include %d in the title. In *Live assist,* AerOn Studio replaces %d with the file date and -time. In the 'Criteria 2' tab you indicate that this is a news item, so that you can easily make it visible later in *Database browser*.

On the 'Editor' tab, you ensure that the mixing times are set correctly. The news item will have a different length every hour. AerOn Studio takes into account the ratio between 'next time' and 'length'. If, for example, you enter a value that is one second lower than the 'length' at 'next time', AerOn Studio will take this difference with you to the next news file. The difference between 'next time' and 'length' remains the same in the scheduled playlists. If you adjust 'next time' after the playlists have been scheduled, you will have to reschedule the playlists to take over the same difference.

In order to be able to plan the news, it is necessary to adjust the hour formats in *Formatplanner*. Insert a new line and set it as *Type* 'Track'. You can then drag the news item from *Database browser* or *Item browser* into the hour format. Also enter a 'Duration'. Take the duration of the shortest news as a measure, for example 00:01:30 is a minute and a half. This prevents silence at the end of a *Playlist hour* if a shorter news file is downloaded. If you leave 'Duration' at 00:00:00, the news will be scheduled with the playing time in the database at the time of scheduling.



After planning playlists with the custom formats, you can start the automation and the news will be automatically broadcast on the radio every hour.

If at some point you notice that the news is not automatically updated every hour, you should look for the cause. A tool for this is *Database editor in* which you can see on the tab 'Statistics' on which date and time the item was last updated. You can also consult the log in *InOutBox*.

_				
Online status				
D:\Audio\Nie				
Laatst wijzigir	ng bestand:	donderdag	13 februari	11:20:1

Newtune or bed

Some broadcasters want to make the news more personal by adding a tune that runs with the news.

For this purpose, you record an item with a length of, for example, one and a half minutes (provided that the news also lasts at least that long). This item usually starts with an announcement of the news, followed by the tune. In the database you set the 'next time' just after the announcement.

With the hour formats in *Formatplanner* you ensure that this item is always planned exactly for the external news. You can also add the news tune as a fixed hour format item. This is done in the same way as described earlier for the news.

What's going on in the broadcast? The announcement of the news (news tune) begins to play. After a few seconds the news is started. In the meantime, the tune continues to run and gives the news a personal touch.

Another possibility is to mix tunes in the news file. A tool like <u>RTV AudioDownload Tool</u> offers extensive possibilities to integrate tunes into the news file.

11 Automation

If a playlist is planned for today, automation can only be started.

There are two ways to activate the automation directly:

- Through the menu: *Automation Start*→;
- Automatically when starting AerOn Studio. For this purpose, the option Start→ Automation when Starting AerOn must be enabled in the→ General Automation settings.

In both cases, the automation loads the playlist of the current day, searches it for the item programmed for the moment of activation and starts playing that item. There are two possibilities for loading the correct playlist:

- There's a playlist for the right date;
- There is a playlist with the name of the weekday (if there is no playlist for that date).

There is another way to start the automation:

• Through the menu: Automation Start \rightarrow in Live assist;

In this case the AerOn Studio prepares the item in *Live assist* after which you can start it interactively.

Formatplanner creates playlists with a date for every schedule you run. *Formatplanner* offers the possibility to automatically plan a playlist from 23:45. In addition to this option, name playlists with names of the days of the week are also useful as a backup. If the automatic planning does not work or if you forget to plan once, at least this backup playlist will play. Such name playlists are loaded at 23:55 if there is no playlist for the next day. If tomorrow is Wednesday, the name playlist will be loaded on Wednesday.

The clock with blue digits indicates the current time, the automation enlarges this window and also shows additional clocks. The green-digit clock shows the remaining time of the current item or the remaining time of a collapsed commercial block. If there are items with fixed or semi-fixed start time in the playlist, you will see a red clock on the left showing the time until the next full, semi-fixed or fixed item. With the *Semi-fixed option* it is also possible to display the margin time and calculated time of the next unfilled or semi-fixed item at the bottom left of the clock. See chapter Settings.

With an AerOn Event license the remaining session time is shown on the right.



The automation keeps track of the start time and duration of all items that are playing. This is useful if you want to check later. For example, when you enter users in AerOn Studio, it also keeps track of when a user logs in or out of the system. This information can be found in the history playout log (*File Open* \rightarrow *History* \rightarrow).

A number of other options can also be found in the 'Automation' menu in the menu bar:

Add external audio

With this opie you insert an external audio source after the playing item. In *Automation* \rightarrow *General* \rightarrow *Forced* \rightarrow *Item Settings,* you can specify which source that should be.

Stop external audio

With this option, an external audio source can be aborted prematurely.

<u>Live assist</u>

The 'Live assist' option is described in the next chapter.

<u>Status</u>

The status of the automation shows which item in the playlist is currently playing. You can also use the hotkey F9 for this purpose. The active playlist shows the playing item with a purple bar. The color can be set to your own preference in Settings Global \rightarrow General \rightarrow Colors \rightarrow > Active item.

Monitor

The monitor clearly shows the current unir item and the next four items.

🛄 Monitor		– = ×
ĞĤÖUI	Duration: 03:30 Stay The Night Ghosts	16:08:15
	Intro: 00:00	Oldie
WE HERE AND	Duration: 05:38 Frozen Madonna	16:11:45
	IUILO: 00:32	Recurrent
	Kids Robbie Williams & Kylie Minogue	16:17:24 Recurrent
FRAM SWALLOWE	Duration: 03:51 Far from over Frank Stallone Intro: 00:13	16:21:56 Golden Oldie
DRE STRATS	Duration: 04:52 So far away Dire Straits	16:25:47
	110.00.25	Golden Oldie

12 Live assist

Live assist can be accessed via the Automation \rightarrow Live assist menu or the F12 hotkey.

If you open *Live assist* while the automation is playing in non-stop mode, you can see at the top which cart player is active by means of the colour scheme. If you do nothing else, you will see that, each time a track in the automation is changed, the information in the window will be updated. The automation continues as usual.

As long as you don't use the *Live assist function*, the automation runs the tracks nonstop and takes care of the mixes, the tracks are in non-stop played on one cart player. If the presenter or DJ wants to interactively play and present tracks in between, he or she can use the *Live assist function* (function key F7). In interactive Live assist mode the tracks are played alternately on Cart player A and B.

In the AerOn Studio clocks, the middle clock (green) shows the remaining playing time of a track or the total playing time of a commercial block. In Non-stop, the green clock displays the time remaining until the "Next time". This is the "Next time" that you can set per track in the Database editor at which the next track in the playlist may start automatically. When a track is started manually in Live assist, the green clock shows the time remaining to the end of the track. Live assist automatically plays a track to the end of the audio file and the DJ decides when the next track starts. An exception to this are tracks that belong to a autostart next group. Grouped tracks, except the last track of a autostart next group, that will be played up to the "Next time", or as mixed down with Mix editor.

To use the Live assist module, you will need the following

- Live assist support in the software;
- CIM module for remote start via a mixer. Or the license option Digital mixer,
- Control buttons and faders on the mixer for remotestart and possibly for activating or deactivating *Live assist*.

🧿 Live assist	_ ×
CART-A	CART-B
Total Remain	Total Intro
	Rowthe ATTig Story, Su
Mirror man	A thing about you
Human League	Roxette
11 MAR AND DESCRIPTION OF THE OWNER	and a star when the start have been been to be the to the
	👘 🖬 kating manana kating atalah dalah situ na situ na situ kating

The Live Assist function can be operated in three different ways:

- 1. with the mixer. (faders and buttons)
- 2. Click on the play, cue, pause or stop button and etc .. with the mouse.
- 3. with F1 up to and including F4 (see *General* \rightarrow *Automation* \rightarrow *Settings*).

You are not limited to operation via only the mixing console, keyboard or mouse. It is possible to combine these. For example, you can cue a track with a mouse click and then start it using the fader or button on the mixing console.

As soon as the automation has started, the Live mode can be activated. Press the *Live assist button* (CD) in the toolbar or press



F7. The control buttons then become visible and activated. From this moment the automation will no longer start subsequent tracks, unless you activate *Live assist* in the middle of a autostart next group or commercial block. After that, the interactive starting of tracks must be done by the DJ. The automation ensures that the next track or autostart next group is always available in the free cart player. Pressing F7 will immediately open the Live assist window in interactive Live mode if the window was not already open.

<u>Tip!</u> You can also start the automation in *interactive Live assist mode*. There are situations where this can be useful, for example if you are taking over the broadcast from a different location.

Live assist and *Automation* play the tracks on the 'Audio level reference'. AerOn Studio automatically applies a correction gain per track so that all tracks are played at the set reference level. See Settings $\rightarrow \rightarrow$ General > 'Tools' - Audio level reference.

1. Operation with the mixer

The GPO start/stop pulse of the mixer is connected to the CIM module. A start/stop pulse can also be received via Livewire, Ember plus or other digital protocols. As soon as you open the fader or press a button on the mixer, the track starts in the corresponding cart player, similarly the track stops when the fader closes. The license option *Digital Mixer* offers possibilities for further integration with various mixers. Two faders are reserved on the mixer, one fader for each cart player.

2. Operation with the mouse

For mouse control you have more possibilities in *Live assist*. From left to right you have the following buttons at your disposal.

Playback from the beginning Places the cursor at the start position. Fade-in start

Play after intro	Places the cursor at position end intro
Play from outro	Places the cursor at position start outro
Cue	Set the cue point to the cursor position
Eject	Removed the track from the cart
Play/Pause	Start playback or pause the track
Fade	Crossfade. Fade-out and Fade-in next track

VU meters and clocks

You can adjust the display of the clocks by double-clicking them.

The sensitivity of the VU meters and the VU scale can be set by right-clicking on it. You can set the sensitivity from -24 to -90 dB.

	-24 -> 0 dB
	-30 -> 0 dB
	-42 -> 0 dB
	-60 -> 0 dB
٠	-78 -> 0 dB
	-90 -> 0 dB
~	VU Schaal

Filled out block and Fixed or Semi-fixed

Usually there is an hourly advertising block in the playlist. As soon as the start time of an advertising block is reached, the automation automatically plays the entire advertising block. Depending on the automation settings, the *Live assist function* may or may not remain active. (*Automation* \rightarrow settings General \rightarrow > Options) If Live assist is not (automatically) switched off, you decide when an item should start with semi-fixed or fixed start time. In *Live assist-mode* the fixed or semi-fixed item starts as soon as you press play or it starts via the fader or button on the mixer.

12.1 Autostart-next/Grouping

In the playlist, you can group several items (*hotkey CTRL+G*) in which every track automatically starts the next track (*hotkey CTRL+D*). Grouping and autostart-next is already done automatically for items that have been added to the playlist by *Commercialplanner*. Other items, e.g. consecutive jingle and track, can be grouped manually or, in other words, auto-start next. Autostart-next items can be recognized by the arrows in front of the titles, the arrows that hold the items together, as it were. An item with an arrow in front of it automatically moves on to the next one.

Autostart-next can be made very easily by clicking once in the playlist on the position of the column in which the autostart-next arrows are displayed. During *Live assist,* AerOn Studio will play a autostart-next block as a whole.

If you disable the *Live assist function* while Cart-B is playing during such a grouped autostart-next block, the next item will start on either Cart-B or Cart-A depending on the settings 'Always play in Cart A' and 'Always play non-stop in Cart-A'. (Automation- \rightarrow Settings General- \rightarrow > Options)

A grouped autostart-next block that has been started cannot be interrupted once the second item has been started if that block contains three or more items. The control buttons of that Cart are then deactivated. In the other Cart, the control buttons remain activated so that you can preview the next item after the group and start it in time. A grouped autostart-next block (usually advertising) is played as a whole, as previously mentioned. As soon as the last item of an autostart-next block is started, the control buttons in the cart are reactivated.

When playing an autostart-next group in *Live Assist,* the mix between each track is respected and played according to the standard mix times or according to custom mix times created in *Mix editor.* When playing a single item in *Live-Assist,* the DJ always determines the fading with the fader on the mix editor.

The advantage of grouping (autostart-next) is that you can leave the *Live assist function* active during commercial breaks or during a self-composed group and therefore have no extra work to automatically play a number of tracks in succession. You then have your

hands free to do something in between. An alternative is to put the system in non-stop mode.

Stop track

As soon as an active unexplained track has played for one minute or longer, it cannot be re-cued. If you stop this track, it will be removed from the cart player. The automation then assumes that it has been broadcast. The other cart player then becomes the active one. So you don't have to let the unir playing track play all the way to the end to make it automatically disappear from a cart player.

Load track

If both carts are paused, then depending on the personal setting 'Load next track in both carts' the next track in both carts will be loaded. (See User \rightarrow settings \rightarrow Personal \rightarrow Live assist) It does not matter which fader you open, the active item will always be started because it is loaded in both carts. This can prevent the next track from starting if you accidentally open the wrong fader.

<u>Tip!</u> With the eject button you can remove the active item from the cart. This option is useful if you decide not to play the loaded item. *Shortcut CTRL* + *Delete* If you use this option, the next track from the playlist is automatically loaded.

Skipped track?

For tracks that are skipped, the fader curve in the playlist is turned off completely, this is done to prevent the skipped track from being heard through the next mix when prelistening in *Mix editor*. In the event that you accidentally skip a track, and you want to play it, it is best to drag that track down in the run down of the playlist or paste it with CTRL + E. When pasting with CTRL + E, tracks are always placed in a playlist with the mixing times and the fade curve from the music database. When dragging, this depends on your personal settings. With copy and standard paste CTRL + V tracks will always be placed with the mix times and fade curve from the source playlist into the target playlist. Tracks are then pasted as previously played or as edited with *Mix editor*. The latter also applies when copying from the past and pasting into the future of the active playlist.

See Preferences \rightarrow User \rightarrow Personal \rightarrow Playlist \rightarrow Repair fade curve when dropping, moving and removing. When this option is off, fade curves and mix times will be kept as previously played or mixed with mix editor when dragged.

12.2 Live assist Xtra

The additional module *Live players Xtra* offers extra possibilities on top of what has been described before.

🎯 Live assist Xtra	– ×
CART-A	CART-B
Total JASON DERULO	Total
Next	
-75 -72 -63 -66 -63 -60 -57 -54 -51 -48 -45 -42 -33 -36 -33 -30 -27 -24 -21 -18 -15 -12 -3 -6 -3 0	-75-72-63-66-63-60-57-54-51-48-45-42-39-36-33-30-27-24-21-18-15-12-9-6-3-0
Kiss the sky	Raise Your Glass
Jason Derulo	P!nk
and a second state of the	

Three additional cue points

With buttons 1, 2, and 3 you have three fixed cuepoints at your disposal. These cuepoints can be set per track in the *Database Editor* under Cue 1, 2 and 3 in the 'Editor' tab. These CUE points (yellow line) are displayed in the waveform just like INTRO and OUTRO (white line). Click button 1, 2 or 3 to cue the track at that position.

Operation with the mouse

For mouse control you have more possibilities in *Live assist*. From left to right you have the following buttons at your disposal.

Playback from the beginning	Places the cursor at the start position. Fade-in start
Play after intro	Places the cursor at position end intro
Cue 1	Places the cursor at position cuepoint 1
Cue 2	Places the cursor at position cuepoint 2
Cue 3	Places the cursor at position cuepoint 3
Play from outro	Places the cursor at position start outro
Cue	Set the cue point to the cursor position
Eject	Removed the track from the cart
Play/Pause	Start playback or pause the track
Fade	Fade in and start track or Fade out and load next track

The cursor at each position cue and

You can cue the cursor at any position in the waveform. Drag the cursor to the desired position in the waveform. As soon as you release the cursor, the track will start playing in loop. While the track is playing in loop, press 'CUE' to cue the cursor position. Press 'PLAY' to start playback, to cue and press 'PAUSE' again and then press 'CUE' again to cue from that cursor-position. You can also start playback immediately by double-clicking in the waveform.

This cue function can also be used, for example, after starting automation in Live assist mode. You can then use this cue function to focus the first track on the desired cursor position in the waveform and fire it as soon as the track needs to start playing.

Open track in database editor

Double clicking on an image opens the corresponding track in *Database editor*.

More display options

Clock display

You can adjust the clock display of ascending, remaining and intro time to your own taste. Double-click the "Total", "Next", "Remain", "Intro" clocks to instantly adjust the display. Or right click to enter the clock display menu.

	Remain tot Einde		
	Total / Remain tot Einde		
	Remain tot Volgende-tijd		
•	Total / Remain tot Volgende-tijd		
	Remain tot Einde / Intro		
	Remain tot Volgende-tijd / Intro		
\checkmark	Tienden van seconde		

VU meters display

The VU meters and waveform can be put invisible. Right-click on or below the VU meters to access the VU meters menu and adjust the display.



These clock and VU meters display options are remembered per user so that each user can set them for themselves.

Speech time display

If nothing is playing and both cart players are paused, the AerOn Studio clocks will display the talk time of your presentation incrementally until you play the next item.



13 Jingle players

Jingle players can be accessed via the Tools Jingles \rightarrow menu, the F8 hotkey or the corresponding icon on the toolbar.

Jingle players can be used alone or in combination with *Live assist* or *Mix editor* (as when recording voicetracks).

. Jingles	- = ×
E J-A Cool	FM (Openbaar) J-B 😣
Remain 1	Remain
- Jingle - Cool - 10 - Cool fm - cool fm (acc-slow 1)	- Jingle - Cool - 7 - Cool fm - cool fm (soft)
1 - Tingle - Cool - 16 - Cool fm - cool fm (acc-medium 1)	1 - Jingle - Cool - 3 - Cool fm - cool fm (untempo 1)
2 - Jingle - Cool - 56 - Cool fm - cool fm (acc medium 2)	$2 = -3 \ln g = -6 \cos \left(-9 - 6 \cos \left(\sin - \sin - \cos \left(\sin - \sin $
2 Jindia Cool 4 Cool fm cool fm (accritectum 2)	2 Jindle - Cool - 7 - Cool (m - cool (m (optempo 2)
S - Jingle - Cool - 4 - Cool IIII - Cool IIII (acc-medium S)	S - Faingle - Coal - 7 - Coal III - Coal III (sailt)
4 - Jingle - Cool - 54 - Cool fm - cool fm (acc-medium 4)	4 - Jingle - Cool - 23 - Cool fm - meer van het beste (medium)
5 - Jingle - Cool - 10 - Cool fm - cool fm (acc-slow 1)	5 - Jingle - Cool - 29 - Cool fm - van kust tot kust (uptempo)
6 - Jingle - Cool - 6 - Cool fm - cool fm (acc-slow 2)	6 - Jingle - Cool - 8 - Cool fm - cool fm (acc-slow 3)
7	7

It is possible to create a personalized jingle package with up to 14 tracks for each presenter / DJ and for each program. Jingles can be looked up in *Database browser* or *Item browser* and drag and drop from there into *Jingle players*.

The basic version of *Jingle players* contains two jingle players, so you suddenly have your 14 most favorite jingles available. With *Jingle players* it is also possible to play multiple jingles at the same time. Clicking on a jingle will activate it in the cart.

Which channel the jingles play on depends on the audio *routing* you have set in *Local* \rightarrow *Audio* $\rightarrow \rightarrow$ *Output Routing Settings*. By using multi-channel audio cards it is possible to put each player on its own fader on the mixer.

Jingle players play on the 'Audio level reference'. AerOn Studio automatically applies a correction gain per track so that all tracks are played at the set reference level. See Settings $\rightarrow \rightarrow$ General > 'Extra' - Audio level reference.

By default, the tracks loaded in *Jingle players* are automatically cued so that they start up immediately. Audio files of tracks that have been edited cannot be overwritten (e.g. traffic information that is being updated). Please take this into account.
In the VU meters there is a menu with adjustable sensitivity and an option to display the VU scale. Right click on the VU meters to call up this menu.

	-24 -> 0 dB
	-30 -> 0 dB
	-42 -> 0 dB
•	-60 -> 0 dB
	-78 -> 0 dB
	-90 -> 0 dB
~	VU Schaal

Under the right mouse button there is also a menu with the following options:



After playback, This is the default setting. cue and cue again After playing the After playing a jingle, the next jingle is cued into the player. following cues Select without If the cart is set to 'Direct start at mouse selection' you can still select another jingle if you want to start it with the mixer. playback Remove jingle Removes the selected jingle from the cart. Start / Fade in The default playback position is the 'fade in' point. If desired, you can choose another starting point here, for example the chorus. Intro These times can be entered or adjusted in Database editor.

Selecting, creating or deleting jingle packages is done in the menu that can be accessed with the button on the top right.



Using fader start

With a CIM module and an analogue or digital mixer, you can easily start and stop jingles. By disabling this option, you prevent starting a jingle when a fader is opened on the mixer. You can recognize whether 'Fader start' is active by the color green in the F on the top left.

Show remaining With this option the intro time will be shown as long as it hasn't *time during intro* expired yet.

Instant start keyboard This option applies, for example, to users who have a Tipro keyboard (see chapter 13.2 for more information about this). You can use the Tipro keyboard to start a jingle directly. If this option is turned off, you set up a jingle. To start, press again to start the loaded jingle. When integrating with *Digital Mixer*, this is indicated on a number of mixers by colouring buttons. In this way you can immediately see whether a jingle is ready or will be started immediately.

Start directly at When using a touchscreen, it starts the jingle when you touch it on *mouse selection* the screen.

- Show artist Displays the title of the jingle as well as the artist.
- WaveformDepending on the available height on the screen, you can choosedisplaywhether or not to display the waveform.

From Windows Explorer or *File browser*, audio files can be dragged to *Jingle players*, where they are then added as tracks. Audio files dragged from Windows Explorer that are not in the database are shown in *italics in Jingle players*. If desired, you can set the color in *General* \rightarrow *Color* \rightarrow *Settings* > *Track from Explorer*.

<u>Tip:</u> If an audio file dragged from Windows Explorer or *File browser* does not yet exist in the music database, it will be added to the music database depending on the 'Add database' setting.

🗹 Toevoegen databank

(See bottom of the status bar)

However, the dragged audio file must be in one of the audio folders or a subfolder thereof. See Settings Global $\rightarrow \rightarrow Audio Local$.

If you drag and drop from another folder, a folder that is not known as an audio folder, *Database import* will open.

13.1 Jingle players Xtra

With the additional module *Jingle players Xtra* you can expand the number of players to a maximum of 8 and get extra features. Click with the right mouse button at the top in the black area in *Jingle players* to change the number of carts to your personal preference.

	Openbare jingles	•
	Beheerder	•
	Mijn jingles: AutoLogon	•
	Bij starten de rest stoppen	•
	Aantal carts 4	4 1
1	Faderstart gebruiken	
	Toon resterende tijd tijdens intro	
1	Direct starten toetsenbord	
	Direct starten bij muis selectie	
	Artiest weergeven	
1	Golfvorm weergeven	

🕂 Jingles Xtra 🗕 🗖 🗙				
💽 J-A AutoLogon - 1	. (Openbaar) * J-B 😵	J-C AutoLogon - 2	(Openbaar) J-D 😵	
Remain D.D.H		Remain 0.32.6	Remain	
Crash - breaking glass	Loop - beat	Eating an apple	Fire brigade	
	freih-sheefestierh-steetistierh-s	<u> </u>		
1 Crash - breaking glass	1 Ding cling cling glass	1 Eating an apple	1 Applause	
2 Growling dog	2	2 Crying baby	2 Clapper bell	
3	3	3 Boing	3 Fire brigade	
4 Miaowing kitten	4 Loop - beat	4	4	
5	5	5	5	
6 Propeller plain	6 American police passing by	6 Test tone - 1kHz 0dBfs L+R	6 Test tone - 1kHz -20dBfs L+R	
7 Reveille	7 Screaming - female	7 Test tone - 1kHz 0dBfs - Left channel	7 Test tone - 1kHz 0dBfs - Right channel	

Under the right mouse button there is an extended menu with the following options:

Group	Group (autostart-next) two or more jingles to play them as a whole.
After playback, cue and cue again	This is the default setting.
After playing the following cues	After playing the jingle, the next jingle is cued into the player.
After playback next start	After playing the jingle, the next jingle is played directly in the player.
Repeat	After starting the jingle, it is repeated until the user stops the jingle.

Select without playback	If the cart is set to "Direct Start on Select", it allows you to select another jingle if you want to start it with the mixer.
Remove jingle	Removes the selected jingle from the cart.
Start / Fade in Intro / Cue 1 Cue 2 / Cue 3	The default playback position is the 'fade in' point. If desired, you can choose another starting point here, for example Cue 1. These times can be entered or adjusted in <i>Database editor</i> .
Refrain	When the track has a chorus set in <i>Database editor</i> , the chorus can be played in <i>Jingle players</i> by using this option.
Starting manually	This is the default setting. The jingle is started by the user.
Automatic filling out	This option allows you to connect a jingle as an end of hour jingle exactly to a filled out block or (semi-)fixed. The jingle is started automatically so that the "next time" of this jingle, which is set in <i>Database Editor</i> , is at the same time as the start time of a filled out block or (semi-)fixed. As long as the start time has not yet been reached, the counter in red counts down to the time at which the jingle starts automatically.
Manual filling out	Equal to automatic filling out, with the difference that one can determine the starting time of the jingle itself.

Automatic and manual filled out start is meant to play jingles, so that the end of the jingles perfectly matches the filled out block or the (semi) fixed item of the automation. This is useful for announcing a program over a jingle. The user does not always have to calculate how much time it has left to come out neat and tidy. The advantage of doing this via *Jingle players* is that the jingle plays on a different slide of the mixer so that the Live Carts remain free for what they are meant for: playing music from the playlist.

13.2 Jingle keypad

Tipro keyboards are available in different formats depending on the number of jingles that can be played. For example, the keypad in the picture opposite has 28 possible jingles, directly available under its own button. Jingle player Xtra has an optional keypad with 64 buttons (56x play and 8x stop) to start and stop all 8x7 jingles. To use this keypad, installation of the driver is required. First connect the Tipro keyboard to a USB connection of the PC. Then install the driver. You can download the installation file using the link below.



http://update.aeronstudio.nl/files/tipro_driver_opos_cco.exe

Installation procedure

- 1) Close AerOn Studio.
- 2) Connect the Tipro keyboard to USB.
- 3) Install the Tipro driver.

Update procedure

- 1) Shut down AerOn Studio.
- 2) Disconnect the Tipro keyboard from USB.
- 3) Open: Control Panel → Programs Programs → and Features
- 4) Remove OPOS Service.
- 5) Delete OPOS Common Control Objects.
- 6) Connect the Tipro keyboard to USB.
- 7) Install the Tipro driver.

The Tipro keyboard works in all Windows versions. In Windows 10 build 1809 it works from driver 1.0.8.27 in combination with AerOn Studio 1.12.2.25 (or higher).

14 Mix editor

Mix Editor can be accessed via the Tools \rightarrow Mix Editor menu, the hotkey F5, the corresponding icon on the toolbar or via the playlist menu.

With *Mix editor* you can adjust the transition between tracks, record voicetracks, set fades, adjust gain.



The window above shows *Mix editor Xtra* with the three available audio tracks with the mix between tracks. *Mix editor base* has two audio tracks. The track in the top track is fixed and cannot be dragged. The waveforms of the tracks in the lower two tracks can be dragged with the right mouse button.

In the menu under the right mouse button you will find the following options:



Menu options	The setting options are automatically saved and saved per user.
Play	Start this track
Stop	Stop playback.
	This option allows you to set an additional playback correction per track and per voice track.
	This is a playback correction relative to the Audio level reference.
Gain	Preferences → Global → General → Extra → Audio level reference.
	The gain offset is effectively applied up to peak 0dB.
	The total playback level will never exceed 0dB per track and per voice track.
Gain line	Show the gain line. When opening Mix editor the gain line is shown. With this option you can temporarily disable the gain line.
Database editor	Open the track in <i>Database editor</i> . This option is not available in the voicetrack track.
Remove track	Remove the track from the playlist.
Duck	Duck the part of the tracks in track 1 and 3 under which the voicetrack is positioned. This option is only available in the voicetrack track.
	See Preferences \rightarrow User \rightarrow Personal to set your own preferences.
Automatic saving	Save changes automatically when browsing.
Voice Track Track	Show the voice track track and VU meters.
4th Track	Show me the fourth track. (Voicetracking Xtra)
Zoom all	Show all waveforms always completely while browsing.
Automatic startup	If playback is started in track 1 and then recording is started, then during voicetrack recording the track in track 3 is automatically started when the timeline cursor is over the beginning of that track. This also applies to the track in track 4. (Voicetracking Xtra)

In the tracks you will see the following:

Buttons

\bigcirc	Play this track.
443 4 949	Zoom in on the transition.



Mute this track.

Open the VST plugin to set the various parameters. (VST voice track plugin)

To complete your VST plugin dll see See Preferences → General > Voicetrack > VST

<u>Waveform</u>

White line (vertical)	Entry or exit time.
Red line (vertical)	Next time in the database.
Yellow line (horizontal)	Gain. This gain is an offset to the audio reference level. For example, you can play a track softer as a surface. In your personal settings you can indicate whether the gain is automatically applied to voicetracks.
Blue Line	Fade curve. You can drag the blocks to change the fading. After changing the fade curve the color changes to red.

The shape of the mouse cursor indicates what you can customize for the selected item:

Ð	Move the selected line forwards or backwards. Here a movement in time takes place.
۳.	Move the selected line vertically. This is where the ducking level is changed.
Ś	You can move the selected point both horizontally and vertically.

At the bottom of the window you will find a number of buttons with the following functions:

Record. (Hotkey <i>R</i>) Before recording a voice track, it is advisable to check the recording settings. These settings can be found in <i>Preferences</i> \rightarrow <i>General</i> \rightarrow Database <i>editor</i> and <i>Voicetrack</i> .
Also see Preferences \rightarrow User \rightarrow Personal \rightarrow Voice track.
Play. (Hotkey <i>P</i>) Plays the whole mix.
If you double-click on a point in the mix (waveform), <i>Mix Editor</i> will start playing from that point.
"Stop. (Hotkey <i>S</i>) This button stops playback or recording.

"Zoom all. The zoom ratio is set so that the previous and next track are fully displayed.

Zoom in.

"Zoom out.

Voicetracks and tracks move freely.

With a closed lock the following tracks slide along, with an open lock they do not.

When the lock is open, an item can be freely slid under an intro (Voicetracking Xtra). With free scrolling, the following tracks do not scroll.

When the lock is closed, all next tracks will slide along. In *Settings User* \rightarrow *Personal*, \rightarrow you can set how the lock responds. Default setting is lock closed. By default, the lock will close when scrolling to the next track. There is also an *Automatic* option where the lock jumps open in a number of situations.



The two green arrows allow you to scroll through the playlist to quickly switch between mixpoints.

The orange check mark saves a changed mix..

The right arrow is an 'Undo' function, which undoes the last change(s). The "Undo" function is best used before a voice track is re-recorded.

The recording VU-meter is only visible when the voicetrack track is activated. The VUmeter contains, under the right mouse button, the VU-meter options and input selection:



Gain customization

Mix editor plays on the 'Audio level reference'. AerOn Studio automatically applies a correction gain per track so that all tracks play at the set reference level. This correction is done automatically and in the background. See Settings $\rightarrow \rightarrow$ General > 'Extra' - Audio level reference.

The gain in *Mix editor* is an offset to this general reference level. With the yellow line running through the waveform you can quickly adjust the gain offset, instead of having to set it via this menu. The gain offset is applied up to peak 0dB. Tracks and voice tracks with peak 0dB are never played louder. For example, you can let a track play softer as an underground by lowering the gain offset. If the yellow line is dragged up or down, you will also see the waveform increase or decrease. The waveforms are automatically scaled to the *Audio level reference correction* + the applied gain offset.

As soon as the total playback level reaches the RMS value of 0 dB, the waveform will no longer increase. A track or voicetrack will never play louder than peak 0 dB. See the track data in *Database editor* for the peak and rms values.



The colour of the lines changes as soon as you change something in the mix. The yellow line becomes darker and the blue line turns red.



<u>Auto-cue</u>

Tracks loaded in *Mix editor* are automatically *edited* so that they start immediately when you press 'Play'. Audio files that are loaded in *Mix editor* and thuscued cannot be overwritten. Please take this into account. Think for example of news and traffic that are overwritten every hour.

Track cutting

You can 'cut away' the beginning of a track as follows:

- Hold down the shift key and drag the track to the left.

Track interactive mixing

In Mix editor Xtra you can mix as if you were running live:

- Start the track in track 1 with the space bar, start the next track with the play button in the track in which the track is loaded.

Autostart-next (Jingle under intro)

When you slide a short item (jingle) completely under a long item, the playlist will automatically an autostart-next blue arrow. If a short item (jingle) is dragged so that it no longer falls completely under a track, the autostart-next will be undone. Also if you drag an item in *Mix editor*, autostart-next will be undone, except if all tracks loaded in *Mix editor* belong to the same group where the autostart-next is active. Jingles under an intro get a modified display of the start time.

	23:11:53	03:40	Iroublemaker	Talo Cruz	Ľ
O	23:15:25 *	00:05	Shotgun - Radio IBC	Radio IBC	C
	23:15:16	03:29	Love is the seventh wave	Sting	Ø
Ø	23:18:42 *	00:11	Full version - Radio IBC	Radio IBC	C
	23:18:31	04:38	Thinking Out Loud	Ed Sheeran	C

Tip: When moving tracks in *Mix editor* that are just after very short silence items, make sure that you do not inadvertently move the start position of the music track before the very short silence item. For example, take a silence item that is later replaced by traffic information, for example. If the silence item is or is shifted under a music track, of course the traffic information will get the start time of the silence item, which will also shift under the track and thus play back.

Also with "Update times of music database" you have to take into account that items remain in the desired order after mixing.

14.1 Voicetracks recording

As soon as you start recording, the voicetrack track automatically appears on the screen.

Dry recording (between outro and intro)

When you start a recording while nothing is playing in *Mix editor*, the voicetrack is positioned between outro and intro. Taking into account your personal voicetrack position settings. See *Preferences* \rightarrow *User* \rightarrow *Personal*

In Preferences \rightarrow User \rightarrow Personal \rightarrow Voice track you can use "Position" to determine how the voicetrack is positioned after recording.

- After outro: start voicetrack = start outro
- Start track: start voicetrack = start intro
- Against intro: end voicetrack = end intro

At the 'Na outro' position the voicetrack overlaps from start to end intro, at the 'Start track' position the voicetrack overlaps from start to end intro. If you record longer than the intro length, the voicetrack will overlap the outro. At position 'Against intro' the voicetrack overlaps from the end intro to the beginning outro. If the voicetrack is longer than outro + intro, the tracks will move apart.

Interactive recording (Voicetracking Xtra)

Besides dry recording, *Mix editor Xtra* offers the possibility to record interactively. This method allows you to determine the position and placement of the voicetrack yourself by means of the actions you perform during recording. Interactive recording can be done, for example, as follows:

- Start playback in track 1.
- Start recording.
- Leave a voicetrack.
- Start playback on track 3 to position the track under the voice track from the starting point.
- If necessary, start the track in track 4.
- Leave the voicetrack.
- Stop the recording.

This method of recording allows you to determine the positioning of the voicetrack yourself. Automatic ducking, fading and levels are applied according to your personal settings.



During a recording, the bars at the bottom of the window indicate the time remaining until the outro (left bar) and intro (right bar) of the both tracks, so you can easily see how much time you have left to speak. The length of the voice track you are recording is shown in ascending order in the center bar.

Personal voicetrack settings

See Preferences \rightarrow User \rightarrow Personal for the various voice track settings. For detailed explanations of these settings, see chapter Preferences.

Automatic ducking and fade curve

After recording a voice track, AerOn Studio calculates the audio levels and sets the intro and outro ducking so that the presentation is not drowned out by the music. The music that falls under the voice track is automatically dipped. The duck level is adjustable from 0 to -12 dB. Silences at the beginning and end of a voice track are automatically "cut" with the fade curve, so that no whites appear. You can tell this from the extra points and lines that appear in the fade curve after recording. You can still adjust the fade curve as desired after completing a recording. If you move the voicetrack and/or tracks and then click "Duck" in the menu, the duck levels are automatically recalculated and applied to the changed mix. You can fine tune the ducking per voice track.

Voicetrack re-recording

When you want to re-record a voicetrack, you first have to perform an 'Undo' to get back to the original mix. Then re-record the voicetrack. If you don't perform an 'Undo' then *Mix editor* deliberately keeps the times and duck as they were after the first recording.

Voicetrack removal

If you want to delete a voicetrack after saving, delete it from the *Mix editor and* not from the playlist. If you delete from *Mix-editor*, the fade curves of the tracks in track 1 and 3 are automatically restored to the default values. To remove, right-click on the voicetrack track and select Delete *track* from the menu.

MIC processing with voicetracks

To ensure that voicetracks can be played loud enough, it is necessary to always speak into a microphone with voice processing behind it so that the Loudness (RMS value) of the audio is increased. Without voice processing (compressor / limiter), there are more peaks of 0 dB and average loudness is lower. Harder than 0 dB is not allowed within AerOn Studio. So even if you increase the gain, a voice track will not play louder once there is a peak 0dB. The higher the RMS of a voice track, the better it will sound over the music, with the result that less ducking of the music is required, so that music-speech-music transitions will sound better. An RMS value of about -12dB is good. An alternative to a voice processor is to use the VST plugin.

VST plugin (VST voice track plugin)

Mix editor supports VST2 plugins.

AerOn comes standard with some free and trial VST2 plugins.

To complete your VST plugin dll see Preferences \rightarrow General \rightarrow Voicetrack \rightarrow VST

Once a VST plugin has been filled in, you can set the plugin as desired after recording an initial voice track. While playing the voice track, you can listen to the VST plugin effect and voice processing. You have to set the VST plugin once to your own taste. When a subsequent voice track is recorded, the set VST plugin voice processing will automatically be applied and stored in the voice track.

Remote voicetracking

For information about remote voicetracking, please refer to chapter 39: 'AerOn Studio At Home'.

14.2 Control consoles

Working with the voicetracks is made easier by using a special control console. This is connected directly to the USB port of the PC.

ShuttlePro

No drivers are required to connect the ShuttlePro to the USB port. After a few moments the ShuttlePro is recognized and is ready for use.



- 1 Play
- 2 Stop
- 3 Record
- 4 Switch mode (Edit, Rec standby)
- 5 Cancel (Undo Changes)
- 6 Play Jingle 1
- 7 Play Jingle 2
- 9 Accept (apply changes)
- 10 Previous item in playlist
- 11 Next item in playlist
- Zoom In
- 12 Zoom Out
- 13 Fast-Rewind and Fast-Forward Rewind and Forward

Shuttle Jog

15 Audio logger

Audio logger can be accessed via the Tools Audio \rightarrow logger menu.

Audio logger is a module that can be purchased additionally. This module is used to record your radio broadcasts. In most countries nowadays the official authorities require radio stations to record and store all broadcasts for a certain period of time. This period of time varies from country to country. For example, the Dutch Commissariaat voor de Media (CVDM) has stipulated that a radio station must keep its programmes for 14 days (24 hours a day), whereas in Flanders (Belgium) this period is 2 months (24 hours a day). This applies to your own programmes, but also to framework programmes (third party programmes that you use for re-broadcasting). Of course, you do not have to log on hours when your radio station is not broadcasting (silence).

The first step to use Audio logger is to set up the software correctly. For this purpose, you indicate in Settings Local \rightarrow Audio Logger, when the audio of your radio station should be logged, in which format, via which audio input and for how long the audio should be stored. For 'Format', a low bit rate is set by default with a sound quality acceptable for logging. After entering the storage period and the time slots (hours per day the system has to log), AerOn Studio will indicate how much hard disk capacity is required per week and for the entire storage period and whether it is sufficiently available. To prevent your harddisk from becoming full, Audio logger will delete old recordings after the set time. Recordings that you want to keep for a longer period of time should be safeguarded by yourself.

If you have set up *Audio logger* correctly, click 'Apply'. The software will now start logging automatically. A recording made on 9 January 2015 between 15:00 and 16:00 has the file name 20150109_15h00.wav. This file can be found in the folder you specified in the *Audio logger settings.*

When configuring your AerOn Studio system you should take into account the fact that a recording input of your sound card will be continuously in use when logged on 24 hours a day. This is not a problem in itself, but you will need to equip your system with a sound card with sufficient inputs, with the possibility to record regular things like new tracks, commercials, voicetracks etcetera. The recommended format is mp3 or PCM, because with these codecs multiple recordings can run simultaneously on the same input. In *Audio logger settings* you specify the input, on which the audio of the program to be logged is offered. After you have logged a number of broadcasts, you can listen to the recordings in the Audio logger-player (menu Tools \rightarrow Audio logger). You will see the window below:



In the calendar, green and red numbers indicate the days on which recordings were made. The green numbers indicate that that day is fully logged, with red numbers only part of the day is logged. After clicking on a date, the timeline underneath the calendar with the green color indicates for which time there is a recording. Clicking on the waveform indicates the start position for playback. It is also possible to fill in the desired start position exactly.

When, for example, the CVDM requests a copy of a certain period of time or a certain program from you, there are in principle several possibilities to supply this material, depending on the requirements in each country. You can deliver the files on a USB stick or burn the requested files to a DVD with, for example, a DVD writer (on a DVD+R fit six whole days), but you can also use one of the outputs of the sound cards that are not in use for the non-stop program, play them back in real time and record them on a connected recording device. Offering via ftp and http is also possible.

16 Time Shifter

Time shifter can be accessed via the Tools Time \rightarrow shifter menu.

Time shifter is an additional module to be purchased that is used to record certain broadcasts in high quality for re-broadcasting at a later time. This can be audio offered on a line input of a sound card, but also a stream such as an internet stream.

To record a broadcast, a *Time shifter job* must be added. To do this, click on the red cross at the bottom right of *Time shifter*. When adding a task, the following window will become visible:

🖪 Taak bewe	rken		– 🗆 ×
	t 2015		20:00:00.0
Opnemen			
	• Tot 21:00:00.0		1:00:00.0
	Wekelijks		~
	D:\Audio\Time shifter\Jazz - maandag.mp2		
🖌 Lijn ingan			
Formaat	48000Hz Stereo MP2 256kbps		•
Audio ingang	1: Livewire In 01 (AXIA IP-Driver (WDM))		-
	Opname pauzeren door acties		
109,9 MB vere	eiste schijfruimte. 627,2 GB beschikbaar		
Stream			
URL			Ŧ
Formaat			
Beëindigen		ОК	Annuleren

Date	Enter the date from which the task is to be performed.
То	Time when the task starts.
Up to / Duration	You can enter either the end time or the duration of the task. The other field will automatically get the correct value. So you fill in what is most convenient for you.
Repetition	Here you specify whether the task should be repeated, this can be daily, weekly, two weekly or four weekly.
File name	Here you enter the filename for the program to be recorded. The folder in which the file is to be saved must be a subfolder of an audio folder or must be entered in <i>Settings Global</i> \rightarrow \rightarrow <i>Audio local</i> . This is necessary to be able to play the programs in the playlist.
	A filename may also contain a timestamp in which the filename is then compiled based on the time of recording. For example:
	C:\Timeshifter\BroadcastMist morning show"DateTimeFormat(yyyymmdd_hh_00)" Suppose the time of recording is November 20, 2019 at 10:00:00 then the filename will be: C:\Timeshifter\BroadcastMidnight Show20191120_10_00 An overview of the available parameters can be found at http://docwiki.embarcadero.com/Libraries/Rio/en/System.SysUtils.F ormatDateTime. Certain parameters depend on the language set on the computer.

Format	Here are some choices for the recording quality. High quality is usually required for re-broadcasting.
Audio input	Specify the input to which the audio source is connected.
Pause recording by actions	Items marked via action triggers for pausing and resuming a <i>Time Shifter job</i> that put <i>Time Shifter</i> in pause or record mode. See later in this chapter for more explanation.
Stream URL	Enter the URL of the stream to be recorded here. The drop-down list also contains all streams that are configured as external sources in Settings Automation $\rightarrow \rightarrow$ External audio stream.
Stream format	Set the audio format used to store the audio stream.
Stream mp2/mp3 bitrate	The bitrate of the saved stream. This is only applicable if the stream is saved in mp2 or mp3 format.
Discontinue	You can end the active recording with this button. If the task is not active, the button remains gray.

<u>Tip:</u> Pausing or resuming *time shifter* is only supported with a line input and not with a stream.

Audio input

Recording with *Time Shifter* is independent of transmission from external sources. Passing on external sources and making *Time shifter recordings* works independently of each other. It is therefore possible to transfer an external source and simultaneously make a recording with *Time shifter* or *Audio logger* on the same audio input. Moreover, you can also set *Time shifter* and *Audio logger* so that they both record on the same audio input. Suppose you have four audio inputs available. On input four you have configured Audio logger that records 24 hours every day. *Time shifter* can be configured on input four. Recommended format is either mp3 or PCM, because with these codecs multiple recordings can run simultaneously next to each other.

Record Streams

When recording a stream, recording is started and stopped at the times specified in the task. However, due to buffering, mainly outside of AerOn Studio , and the fact that it may take a few seconds before the stream actually arrives, the duration of the stored audio file may be different. In order to still be able to record with an exact duration, it is necessary to set it to a format different from "Rough as original stream". The stream will be recoded to an exact length. There may still be a slight difference in duration depending on the chosen storage compression, however, this is negligible. With a format different from "Raw as original stream", the recording can be stopped a bit later than set, however, the duration of the audio file is the same as the set duration.

After you have entered all relevant data in a task, click 'OK'.

Manual AerOn Studio

🗣 Ti	me shifter									- = ×
Status	Start 🔺 ma 23-3-2015 20:00:00	Stop 21:00:00	Duur 01:00:00	Herhaling Wekelijks	Bestandsnaam D:\Audio\Time shifter\Jazz ·	- maandi	Formaat MP2	Ingang Livewire In 01 (AXIA IP	URL Grootte 109,9 ME	Info 3
										l l
×									Cu	stomize
۲	Opname pauzere	n 🌔	Opname herva	tten						+

The icons in the 'Status' column have the following meaning:

2	The task has not been performed. This may be the case, for example, if AerOn Studio was not active at the time when the recording should have taken place.
0	The task is currently being performed.
0	The task is listed to be executed.
	The task has been successfully completed.

In the lower left-hand corner of the *Time shifter window, the Time shifter* mode is indicated. With the buttons *Pause Recording* and *Resume Recording* you can change the mode.



Time shifter's in recording mode.

Time shifter's in pause mode.

The tasks you see in the *Time shifter window* are performed on the PC in question. This allows you to enter different tasks on the OnAir station or per workstation. AerOn Studio uses the computer name to determine whether a task should be performed. When changing PCs, you must check the tasks in *Time shifter*.

To schedule *Time shifter recording files*, it is advisable to create separate hour formats for each repeat program, which you then put in the correct place in a day format. It is best to drag a *Time shifter recording file* as a fixed track in an hour format item.

<u>Tip:</u> From the playlist, you can easily add a task by selecting the desired op-to-record items. Then open the *Playlist menu* with the right mouse button and choose the option '*Time shifter, add...*'.

16.1 Time Shift recordings without commercials

Normally, a *Time Shifter job* starts recording at a fixed start time and ends after a set number of minutes or exactly at the set end time. Programs that you record to rebroadcast at a later time often begin and end with a commercial block with a news bulletin at the beginning of the hour. However, you do not want to re-broadcast that news item and those commercial blocks.

Because news items and commercial blocks have varying lengths, it is not possible to specify exact start and end times in a *Time shifter job* that correspond exactly with the start times in the playlist. We have therefore created a possibility to link action triggers to tracks that pause or resume the *Time shifter* when starting or stopping (usually in the playlist).

The action trigger '*Pause time shift*' pauses *time shifter*. The action trigger '*Resume time shift*' causes Time *shifter to be set to* record mode. A *Time Shifter recording will* only start in recording mode if a *Time shifter job* is scheduled.

Items to which such an action trigger is linked can be a news item or a begin or end jingle of a commercial block, but it can also be a silence file with a length of, say, 300 milliseconds. Action triggers can be linked to tracks in *Actions. Actions* can be accessed via the *Tools Actions* \rightarrow menu. *For* example, drag and drop tracks from *Database browser* into *Actions*. Next, in the 'Action' column, set the trigger to 'Pause time shift' or 'Resume time shift'. See Chapter 25 Actions for more information.

🕼 Acties										_ = ×
Uitgaande acties	Radio ID	1 - Hit Radio	•	_		_	_	_	_	
	Artiest 🔺	Titel	Actietijd	Voor stop	Actie			nonstop	jingle	Commando
Audiobestanden		Regiojingle 01			Regionaal afspelen			₹	1	
Recente historie		Regiojingle 02			Regionaal afspelen		×	₹	×.	
Streamtitle		Regiojingle 03	00:00.0		Regionaal afspelen		×	₹	×.	
		Regiojingle 04	00:00.0		Regionaal afspelen		1	1		
		Regiojingle 05			Regionaal afspelen		1	1		
	- Pingel TA	Verkeersinfo Aankeiler					1	1		
	- Pingel TA						1	1	•	
	- Trigger	### EDITION SYNDICATE / RDS REGION	DN 00:00.0		Extern audio afbreken		1	1	2	
	- Trigger	### EXTERNAL AUDIO ON AIR ###	00:00.0		Uitgaande actie 1 ACM/CIM		1	1	2	
		### EDITION SYNDICATE / RDS REGION O	DN 00:00.0		RDS Regio uitzendingen aar			₹		
		### RDS REGION OFF ###			RDS Regio uitzendingen uit			₹		
	- Trigger				RDS TA aan		1	1	•	
		### RDS TA OFF ###			RDS TA uit			✓		
	- Trigger	### Trigger Edition syndicate ###			Extern audio afbreken		1	✓		
	- Trigger	### TIMESHIFT PAUZEREN ###			Time shift pauzeren		1	₹.	•	
	- Trigger	### TIMESHIFT HERVATTEN ###					1	₹		
	- Trigger	### EXTERNAL AUDIO OFF AIR ###					1	₹		C:\Aeron Data\Switch.bat
		### ANP Nieuws %d ###			Time shift pauzeren		1	₹		
		### ANP Nieuws %d ###	05:00.0	1			1	₹		
Uitgaande acties	+ +, -	V X A V								
Inkomende acties	Hallo	test								

Fixed Defined Trigger

You can set up a system with two fixed items added as triggers in *Actions*. You take two silence files with a length of, for example, 300 milliseconds. One with the title '*** Trigger Time shift pause ***' and one with the title '*** Trigger Time shift resume ***'. Both triggers are scheduled with *Formatplanner* or *Commercialplanner* (as pre- or fall single) at positions in the playlist where *Time shifter* should be paused or resumed. In the playlist, these triggers are clearly identified by the title when a *Time shifter task* is paused or resumed.

Advertising jingles or news as trigger

You can also pause and resume *Time Shifter* with items that are already part of the current schedule.

The *Time shifter pausing* and *Time shifter resuming* triggers can also be executed with one and the same item if desired. You can then drag and drop the same item again in *Actions*. In the example above, the whole hour of ANP news is dragged in twice.

Items that pause a *Time shifter job* and set the action time to 00:00.0 will not be recorded themselves. The Live, Nonstop or Jingle mode must of course be ticked to execute a trigger when playing in the playlist during Non-Stop or in *Live assist* or when starting an item in *Jingle players*. This depends on your way of working.

<u>Tip</u>: It is important that the start time of a *Time shifter task* falls later than an action trigger '*pause time shift*'. Otherwise, the *Time shifter task* would start recording immediately and would be paused again shortly after, making an unwanted short recording.

Before stop

The 'Before stop' option is meant to always resume *Time shifter* immediately after stopping an item and thus ensure that the next item is fully recorded.

This applies to items that resume *Time Shifter* and may not be recorded themselves. And specifically for items with varying lengths, such as news items, traffic bulletins, calendar items or items that are stopped earlier during *Live assist* playback. Dynamic items that resume a *Time shifter job*, always check 'Before stop'. With dynamic items, the duration of an item is variable and therefore unknown in advance. The set action time must be at least equal to or greater than the longest possible duration of an item.

Summarized: The action trigger '*Resume time shift*' will always be executed when the item is stopped if 'Before stop' is checked. This is particularly applicable when stopping an item if the set action time has not been reached.

Start recording

If the start time of a *Time shifter job* is reached, while *Time shifter* is paused by an earlier action trigger, then *Time shifter* remains paused. At the end of a commercial block, for example, the action trigger '*Resume Time Shift*' causes *Time shifter to* be put in recording mode, thus starting the recording permanently.

When an action trigger '*Pause time shift*' and the start time of a *Time shifter task* take place at exactly the same time, one or the other can be processed just a fraction earlier, which can result in a mini recording if the action trigger '*Pause time shift*' is only processed as a second. As mentioned before, it is important to make sure that the start time of a task is always a bit later than the time when the item is started with the action trigger '*Pause time shift*', even if it is only a few seconds. *Time Shifter will* then be in pause mode before the start time of a task is reached. Even better is to put *Time Shifter* in pause mode after each completed task.

The classic mistake is to have a *Time shifter job* start exactly on the hour and link the action trigger '*pause time shift*' to the news that is also scheduled on exactly the hour. Leaving the starting time of the *Timeshifter task* slightly is then the solution.

Storing recordings

If a *Time Shifter* is paused during a recording in progress, the recording is saved immediately. The first recording during a task is automatically assigned #01 when saving. If paused and resumed several times during a task, the recording is saved each time. The second shot will be added #02, the third #03, and so on. The file is then saved, for example, as Morning program#02.mp3.

Overview in History

In *History* you can get an overview of when *Time Shifter* resumed and paused. You open *History* via the *File Open* \rightarrow *History* \rightarrow menu. Then right-click in the overview list and select 'Time shifter'.

17 Users (Rights in AerOn Studio)

Users can be accessed via the Users \rightarrow Access menu.

As soon as you are familiar with all the possibilities of AerOn Studio, the desire may arise to secure the system against unwanted use. On a single PC with only a few users you may not immediately have the need for this, but within a network environment at a radio station with many employees you probably do. In the menu *Access Users* \rightarrow you specify which persons are allowed to use the software and what exactly they are and are not allowed to do.

On an open system without users, you will only see the option *Users* on the menu bar. Logging in or out will then not be available. Clicking on *Users* opens the following window:

Gebruikers				
Gebruikers	▲ Naam Edwin	Type 🔒 G		
🔻 🚴 Beheerder				
Admin	Rechten Toegang Wijzigen play	/list		
	Databank bi		Live assist / Regional	e jingle plaver
SysteemBeheer	Openen	1	Openen	×
🔻 🤱 Gebruiker	Beschikbaar aanpassen		Bedienen	
Edwin	Databank		Time shift	
	Openen	✓	Openen	x
	Wijzigen algemeen	≪	Wijzigen	₹
	Wijzigen criteria	≪	Synchronis	
Kees	Wijzigen audioeditor	×	Remote naar lokaal	
Piet	Opnemen	×	Lokale voice-tracks naar remote	
n 😌 Autologin	Plavlis		Lokaal alles naar remote	
AutoLogon	Openen	- -	Instelling	
Groep	Wiiziaen	×	Openen	
Administrators	Wiizigen commercials	1	Wijzigen	
	Onslaan als			
	Mix edit		Openen	⊻
Systeembeneer	Openen	 1	Algemene categorieën wijzigen	×
	Wiiziaen	×	Groep categorieën wijzigen	×
Euwin Databasa babaar	Oppemen			D:\Audio\Diversen
Database Delicei	Jingle pla		File browser root 2	
Hane	Openen	×		
	Wiiziaen	*	Commercialplanner	×
▼ D1-Niveau II	Opslaan	1	Beheer	
Piet	Aantal carts			×
▼ Formatolanning	Pakket kiezen	×	Historie	₹
Edwin	Pakket A & B		Buma export	₹
Lid van groenen	Pakket C & D		Databank import	
	Pakket E & F		Databank export	₹
Commercialplanning	Pakket G & H		Databank backup	
Database beheer	Formatpla		Algemee	
DJ - Niveau I	Openen	≤	Voorafluisteren	
DJ - Niveau II	Wijzigen formats	≤	Zoeken op internet	⊻
Formatplanning	Planning aanmaken	≤	Audio slepen uit verkenner	×
Gasten	Automatis		Gesleept audio toevoegen aan data	ab
voicetrackers	Bedienen		Audio afspelen van USB-drive	

First an administrator has to be created. To do so, click on the red cross at the bottom right. You then enter a username and a password. The very first user will automatically become the *Administrator* type.

Then create a group of Administrators, this is not mandatory but useful for later when you add new administrators. In the Administrators group you select all

Toevoegen nie	euwe geb	ruiker
Naam gebruiker		
Nieuw wachtwoord		
Bevestig nieuw wachtwoord		
	ОК	Annuleren

rights and save the changes by clicking on the orange check mark at the bottom right. Then you make the administrator a member of the group Administrators.

For the type of user we distinguish four possibilities:

- User Most of the users you enter into the system will be 'normal' users. You assign them the options in AerOn Studio that they are allowed to use.
- Administrator In this window, an administrator can create new users, change user rights, or delete users. It goes without saying that there must always be at least one administrator.
- Auto logon The 'auto logon' user is automatically logged on to the OnAir PC as soon as you start AerOn Studio. This user has no password or time limitation.
- *Group* For users you want to give the same rights to, you create a group to which you grant these rights. Later, you can make the users a member of the desired group to give them the corresponding rights. With a group name you cannot log in to the system, this is only possible individually.

If one or more users have been created, the user system becomes active within AerOn Studio. Please note, however, that there must be at least one person with administrator status, otherwise you would activate security without ever being able to make changes to it. In the list of users you can easily see if there is someone with that status. Usually this is the case, because the very first user that is created automatically becomes an administrator.

As soon as you plan to put more than, say, two or three users in the system, we recommend creating groups first. You can create a group in the same way as a new user. Just fill in a name and after saving, set the type to Group. For example you create a group of 'DJ's' which gives you rights to open *Playlist, Mix editor* and *Database browser*. After that you make the right people a member of the group 'DJ's'. Each of these users will then immediately have all rights of that group. Of course it is possible to make a user a member of more than one group. In addition to the rights that someone has on the basis of membership of one or more groups, you can individually grant extra rights per user.

If you have set the rights for the users, the users will have access to the system all hours of the day by default. You can also give users access only on limited hours by specifying the allowed hours on the 'Access' tab. You can select with the mouse by selecting a rectangular block in the grid or by clicking on a weekday or an hour. With the two buttons *Allow* and Don't *allow* you can determine whether or not the user is allowed to log into AerOn Studio in the selected hours. As soon as access to AerOn Studio is restricted, the title of the tab is shown in bold. On the tab 'Change playlist' you give the user access to the playlists he or she is allowed to edit.



Some radio stations do not have the need to create users. The risk is, however, that a random user of the system will create users again and grant himself or others all rights. You will then be excluded. To prevent this, create users and create an *Auto logon*

account with all rights. This user is then immediately active, as soon as you start AerOn Studio, with all rights that you grant to this user.

After you have added all desired users, you can close the 'Users' window. If you now click on the 'Access' tab, you will see that a number of options have been added to the tab.

• Sign up

You sign up to use AerOn Studio with the options activated for you. In the history file, the name and time of the login (and in a network configuration also the name of the workstation) will be included. The windows that you opened during the last session will reappear at the same position on the screen.

Unsubscribe

This logs you off, closes the windows and remembers settings such as position and size. The time of unsubscription is recorded in the history file.

<u>Change password</u>

It is advisable to use a non-obvious password. By obvious passwords we mean, for example, the name of your partner, your brand of car, zip code, and the like. Before you can change your password, you must first type in your current password. Enter the new password twice to avoid typing errors. During typing, asterisks are displayed so that someone looking over your shoulder does not immediately know your new password. A password is not required, users who are *administrators* within AerOn Studio are advised to enter a password.

17.1 Overview user rights

Below is an overview of the user rights available in AerOn Studio.

Browser database

Open	Open database browser.
Available at	Be able to make all tracks visible. Also the tracks that are marked in the database as "Not available for user".
Database editor	
Open	Open database editor.
Change general	Change general.
Change criteria	Modify criteria 1 and 2.
Change audio editor	Access Audio editor or External audio editor.
Record	Record audio from a sound card.
Playlist	
Open	Open the playlist.
Modify	Change playlist.
Modify	Change commercial blocks in playlist.
Save as	Save as a file or other playlist copy.
Mix editor	
Open	Open the mix editor.
Modify	Change mixes and fade curves in playlist.
Record	Recording voice tracks.
Jingle player	
Open	Jingle player open.
Modify	Change the loaded jingle package.
Save	Save the loaded jingle packet.
Number of carts	Set the number of carts that are visible.
	Jingle player Xtra up to eight carts visible.
Choose package	Choose a different jingle package than assigned by default
Package A & B	Standard jingle package in Carts A & B. This allows you to optionally assign a user a specific jingle package.
Package C & D	Standard jingle package in Carts C & D.
Package E & F	Standard jingle package in Carts E & F.
Package G & H	Standard jingle package in Carts G & H.
Format planner	
Open	Open format planner.
Modify formats	Change hour and day formats.

Create planning	Playlists plans.
Automation	
Operate	Starting/stopping the automation manually.
Live assist & Regional jingle player	
Open	Live assist openen of regionale jingle player (edities).
Operate	Live assist interactive operation.
Time Shifter	
Open	Opening time shifter.
Modify	Create and modify time shifter tasks.
Sync	
Remote to local	Sync audio files from the Studio to Home.
Local voice tracks	Sync voicetracks from Home to the Studio.
to remote Locally everything to remote Settings	Sync audio files and voicetracks from Home to the Studio.
Open	Open settings.
Modify	Change AerOn Studio settings.
Item browser & File browser	
Open	Open Item browser & File browser.
Change general categories	Change categories available to all users.
Change group categories	Change categories assigned to the user group(s) of which the user is a member.
File browser root 1	Access a specific audio folder. No folder filled in gives access to all audio folders known in AerOn Studio.
File browser root 2	Access a second audio folder. For example, a folder containing audio files of this user.
Miscellaneous	
Commercialplanner	Open commercial planner.
Manage	Open management module.
Actions	Actions window open.
History	Open history playout log.
Buma export	Open Buma reporting window.
Database import	Open database import window.
Database export	Open database export window.
Database backup	Database backup window open.
General	
Pre-listen	Pre-listening tracks in the PFL player on the toolbar

Internet Search Search the Internet.

database

Dragging audio from explorer Drag and drop audio files from Windows Explorer into AerOn Studio or open a folder of audio files in Windows Explorer from AerOn Studio.

Adding draggedAdd audio files dragged from Windows Explorer or File browseraudio to theto the database.

With the option "Add database" at the bottom of the status bar,

the user can then still determine whether the dragged tracks will be added to the database.

Audio playback Audio playback from External hard disk or USB stick.

from USB drive When the user plugs a drive into the USB port, a window opens in AerOn from which files can be dragged into the playlist. Depending on the "Add database" option, the dragged tracks will or will not be added to the database.

18 Database import

Database import can be accessed via the Database Import menu \rightarrow .

For detailed information about configuring the database server and transferring your existing music database, we recommend that you read chapter 30. Users of AerOn Studio who wish to exchange audio files and databases can do so easily with the available import and export functions. The database that you are (partially) going to import must have been created with AerOn Studio.

Database import

The import module automatically recognizes if *AeronExport.xml* is in the folder. If this file is present in the folder "*Import from*", it will be read automatically. The content of *AeronExport.xml* is displayed on the tab "Database".

🛃 Importere	n muziekdatabank				- 0	×
Importeren u	it D:\Export\1			Verkenner		
Actie Importe Importe Active	er databank er databank en audio er audio en trackinfo en afbeeldingen	Extra Criteria informatie overneme Metadata overschrijven in be Tijden overschrijven in besta Audiobestanden overschrijve	n/overschrijven estaande tracks aande tracks en			
📄 Databank	Jage Audiobestanden		Verkenner			
Reeds aanwez	Titel	Artiest	Gewijzigd	Bestand aanwe	Import metada	•
≤	Alfie	Matt Monro	30-8-2018 09:57:36	≤	₹	
≤	Kokomo	The Ranch Girls & The Ragtime Wrang	30-8-2018 09:57:36	✓	✓	
≤	Nobody knows	Pink	30-8-2018 09:57:36	₹	₹	
≤	When You're Looking Like That	Westlife	30-8-2018 09:57:36	⊻		
≤	Jam	Eddy Wata	30-8-2018 09:57:36	×	✓	
₹	MMM MMM MMM	CRASH TEST DUMMIES	30-8-2018 09:57:36	₹	₹	
≤	Music To Watch Girls Go B	Bob Crewe Generation	30-8-2018 09:57:36	₹		
≤	I Love Rock 'n' Roll	Britney Spears	30-8-2018 09:57:36		✓	
≤	ORDINARY WORLD	DURAN DURAN	30-8-2018 09:57:36		✓	
≤	M'n Wufis Weg	Kamiel	30-8-2018 09:57:36	₹	✓	
×	Hush Hush Sweet Charlotte	Al Martino	30-8-2018 09:57:36	√	×	
604	604			594	604	Ţ
Audiobestande	n kopiëren naar D:\Audio\Diverse	n		▼	Importeren	

Importmap

In Global \rightarrow General \rightarrow \rightarrow > Import folder settings, you can set a fixed import folder. If no fixed import folder is set, users who are allowed to import tracks into the database can select a folder under "Copy audio files to".

The import function gives you a number of options to determine which tracks to import and how to do it. A selection can be made in the *Import metadata* column and via the menu under the right mouse button. By default, everything is checked

<u>M</u> arkeren	Ctrl+M
Markering omkeren	
<u>Alles markeren</u>	

Action

Copy audio files	If no fixed import folder is set, you can select a destination folde	r
to	here from the folders you have set in $Global \rightarrow \rightarrow Audio \ local settings.$	1

Import database This indicates that you will only import metadata and not copy the audio files.

Import database This indicates that you are going to import the metadata and that you also want to copy the audio files to the completed destination and audio folder.

- Import audio This indicates that you want to copy the audio files and import the information present in ID3 tags into the database.
- Add trackinfo If you check this option, the options above are no longer relevant. In this case AerOn Studio will only take over information if it is not and images yet present in your own database. Completed fields will never be overwritten. The following fields will be copied:

Track image Track information Track lyrics Artist website Artist image Artist information Album image Album information

Tip: No extra tracks will be added to your database with this option, which makes it ideal for exchanging this data with another radio station that also uses AerOn Studio.

Extra

The database from which you want to import the tracks can contain records that are already in your own database. In the box 'Extra' you indicate how you take over the information from the import file.

Accepting/transfer This indicates whether or not you want to take the data relating to the Formatplanner criteria from the tracks in the import database. criteria for

information The criteria of existing tracks in your own database are overwritten by those of the import database. Make sure that the import database is correct before making this choice.

> Tip: These are the criteria that are displayed in the database editor on the tabs "Criteria 1" and "Criteria 2".

Overwrite The metadata of tracks in your own database will be overwritten by that of the import database. Metadata in Existing Tracks

Make sure the import database is correct before making this choice.

Tip: This is the metadata displayed in *Database Editor* on the "Track", "Song text" and BPM, Key and Mixmode tabs.

Overwrite times in The times, and also the gain, of tracks in your own database are overwritten by those of the import database. Make sure that the import database is correct before making this choice.

<u>Tip:</u> These are all times (Fade in/out, Next, Length, etc...) including *chorus*, which are displayed in *Database Editor* on the "*Editor*" tab.

Overwriting audio Audio files already present in the target folder will be overwritten. *files*

Artist information

In the music database you can enter extra information about the artist and carrier (see tab '*Artist* and *Album*' in *Database editor*). With all tracks of a certain artist you always see the same artist information, the artist information you entered once with a track, but that information applies automatically to all tracks of that artist.

AerOn Studio takes the artist and album information into account when importing and will <u>not</u> overwrite it. When importing new tracks, new artists including artist information and new albums will be added to your database.

Audio import

On the second tab "Audio files" you can see the contents of the source folder. If there is no database in the "Import from" folder, only the option Import audio is available and you can import from this tab "Audio files".

😸 Importeren muziekdatabank				- 5	×
Importeren uit 🔄 D: \Export					
Actie	Extra				
🔿 Importeer databank	Criteria informatie overnemen/overschrijven				
🔿 Importeer databank en audio	Metadata overschrijven in bestaande tracks				
 Importeer audio 	Tijden overschrijven in bestaande tracks				
O Aanvullen trackinfo en afbeeldingen	Audiobestanden overschrijven				
📒 Databank 🛄 Audiobestanden					
Naam	<u>ـ</u>	Grootte	Itemtype	Gewijzigd op	•
All Saints - Black Coffee.mp2		8,73 MB	Geluid met M	27-4-2010 0	
Arne Jansen - Meisjes Met Rode Haren.bpk		94,1 kB	BPK-bestand	5-6-2018 09:40	
🙆 Arne Jansen - Meisjes Met Rode Haren.wav		8,53 MB	WAV-bestand	14-5-2004 1	
Atlas2.bpk		7,78 kB	BPK-bestand	24-2-2017 1	
🔊 Atlas2.mp2		655 kB	Geluid met M	12-2-1999 2	
AudioTrack 11 - no artist.bpk		3,50 kB	BPK-bestand	5-6-2018 09:40	
🙆 AudioTrack 11 - no artist.mp3		398 kB	MP3-bestand	20-4-2004 0	
Barthezz - Infected.bpk		76,2 kB	BPK-bestand	9-12-2013 1	
🙆 Barthezz - Infected.mp3		4,31 MB	MP3-bestand	27-4-2010 1	
BBE - Photo.bpk		87,2 kB	BPK-bestand	8-6-2013 11:09	
🙆 BBE - Photo.mp3		4,94 MB	MP3-bestand	1-4-2003 22:15	
Beach Boys - Then I Kissed Her.bpk		47,0 kB	BPK-bestand	5-6-2018 09:41	
Beach Boys - Then I Kissed Her.wav		4,25 MB	WAV-bestand	13-5-2004 1	
Belinda Carlisle - Heaven Is A Place On Eart.bpk		85,2 kB	BPK-bestand	5-6-2018 09:41	
🞯 Belinda Carlisle - Heaven Is A Place On Eart.wav		7.72 MB	WAV-bestand	15-6-2004 1	•
Audiobestanden kopiëren naar D:\Audio\Import				•• Importere	n

If you use the import on this tab, you can import audio files from, for example, a USB stick or an external hard disk to your system without a corresponding database.

Select files

Press and hold the *CTRL button* and select the desired audio files one by one. Alternatively, to select all or next, click on the top file, hold down the *SHIFT key* and select the bottom file.

The metadata in the ID3 tags of mp3 files such as artist, title, album, year, comment (track info), BPM, initial key and track cover are automatically entered into the database.

Example

You will start a new radio station and can take over the database and hard disk tracks from another radio station. However, you are only interested in the music tracks (and not in the jingles and commercials). The other (supplying) radio station uses the database export to put the audio files together with the database data on a USB drive for you. At home or in the studio, connect the USB drive with database and audio files to a USB port and open *Database import*. If you select "*Import database and audio*", the program takes over the metadata and audio files.

For example, the options for taking specific information from an import file can be used in the following situation. You record a number of new tracks and enter only the title and artist in the database in addition to the AudioID. You give a copy of the database to a colleague, who enters the correct criteria in the music database at home. At the same time, you make sure that the times (intro time, next time, etc.) in *Database Editor* are correct. As soon as your colleague has finished entering and exporting the data, you start importing the data. You indicate that you want to overwrite existing tracks and take over the criteria information.

Drag and drop audio files from Windows Explorer or File browser

From Windows Explorer or *File browser* you can drag and drop multiple tracks at the same time on the desktop of AerOn Studio or in *Database Editor*. You place the new audio files in a local audio folder or in a new subfolder, or you add a new root folder to AerOn Studio in *Global* \rightarrow *Audio Local Settings*.

Then select all the new audio files in the Windows Explorer window and drag them to AerOn Studio in *Database Editor*. After all tracks have been loaded, AerOn Studio will display '*Drag audio files*' in a new window showing which tracks have been imported. From this window you can preview the tracks, assign multi-select criteria via '*Multi editor'* (*hotkey CTRL+M*) and open the tracks in *Database editor* (*hotkey ALT+F11*).



Tip: 'Add database' must be ticked in order to add tracks to the database.

Toevoegen databank

(See bottom of the status bar)

19 Database export

Database export can be accessed via the Database Export menu \rightarrow .

For the exchange of audio files and the corresponding database data between the radio studio and AerOn Studio at home or between radio stations, use the *Database Export module*.

Open the export window (*Database Export* \rightarrow). From *Database browser*, *Item browser* or a playlist, drag and drop the desired files to the export window. You can use this option to transport the data with a USB drive.

If you use the export a second time with a USB drive that already contains audio files and a database, the new audio files will be added and the database will be replenished. If you don't want to, it is best to empty the folder beforehand.

🚰 Exp			_ = ×
		Locatie	
Doel	map D:	:\Export	
Best	anden overschrijven	 ✓ 	
Data	abase exporteren	₹	
	Exporteren: 12 l	bestand(en) geselectee	rd (85,0 MB)
	Titel	Artiest 🔺	Locatie
0 %	Do you love me	Contours	D:\Audio\MP2\Mpeg1\XA2464
0 %	Born on the bayou	Creedence Clearwater Revi	D:\Audio\MP2\Mpeg1\XA7621
0 %	Love her madly	Doors	D:\Audio\MP2\Mpeg1\XA0226
0 %	Out in the fields	Gary Moore & Phil Lynott	D:\Audio\MP2\Mpeg1\XA3733
0 %	Sex machine	James Brown	D:\Audio\MP2\Mpeg1\XA9936
0 %	Summer nights	John Travolta & Olivia New	D:\Audio\MP2\Mpeg1\XA195(
0 %	In zaire	Johnny Wakelin	D:\Audio\MP2\Mpeg1\XA8558
0 %	Voulez vous coucher avec mo	Labelle	D:\Audio\MP2\Mpeg1\XA5158
0 %	Visite	Lenny Kuhr	D:\Audio\MP2\Mpeg1\XA8285
0 %	Gold	Spandau Ballet	D:\Audio\MP2\Mpeg1\XA2194
0 %	Try jah love	Third World	D:\Audio\MP2\Mpeg1\XA6879
0%	Gloria	Umberto Tozzi	D:\Audio\MP2\Mpeg1\XA4555
		Verkenner E	Exporteren Afbreken
0	%		

20 Database backup

Database backup can be accessed via the Database Backup \rightarrow menu.

20.1 Database backup in AerOn Studio

You can access this function via the Database Backup \rightarrow menu.

To create a database backup the PostgreSQL tool pg_dump is used. To be able to make a backup, *the PostgreSQL* folder with help programs must be filled in Settings \rightarrow Local \rightarrow General \rightarrow PostgreSQL.

For a PostgreSQL version 10 installation, this is C:\Program Files\PostgreSQL\10\bin.

	PostgreSQL
Map met hulpprogramma	C:\Program Files\PostgreSQL\10\bin
pg_dump parameters	-F c -O -T automation

As soon as you click on 'Backup', a database backup file will be created. Depending on the size of your database, this may take a few minutes.

금 Backup	- ¤ ×
	Locatie
Backup bestand	C:\Aeron Database\PostgreSQL\10\Backup\Aeron data •••
	Verkenner Verslag Backup Afbreken

20.2 Database backup using a script

Using a command-line script we make a database backup with pg_dump. Pg_dump is a PostgreSQL command-line program that can be used to backup the entire AerOn Studio database.

Backup script example with parameters:

Parameters

SET HOST=127.0.0.1 SET PORT=5432 SET DATABASE=aeron_prod_db SET DBADMIN=aeron_dba

SET PGBINDIR=C:\Program Files\PostgreSQL\10\bin SET PGDUMP="%PGBINDIR%\pg_dump.exe" SET PGPASSWORD=aeron_dba

SET BACKUPDIR= C:\Aeron Database\PostgreSQL\10\Backup SET FILENAME= backup%DATABASE%

Backup the database to file

%PGDUMP% -v -Fc -T automation -O -h %HOST% -p %PORT% -U %DBADMIN% -d %DATABASE% -f "%BACKUPDIR%\%FILENAME%.cst".

<u>Tip:</u> In Windows task scheduler you can create a task with reference to the script and use it to perform an automatic backup on a daily or weekly basis.

20.3 **PostgreSQL database backup restore**

Here we describe two possibilities to restore a database from a database backup file.

20.3.1 Restore database via pgAdmin 4

PgAdmin 4

To restore a database from a file, rightclick on the database in which you want to load the file.



Restore options:

Do not save:

Owner = Yes Privilege = Yes Tablespace = Yes

<u>Queries:</u> Clean before restore = Yes



Select your database backup file.

Select file		
C:\Aeron Database\PostgreSQL\10\Backup\backup	ıp-full-aerc 🛛 📿	: C 1 2 1 1
Name ÷	Size \$	Modified +
backup-full-aeron_prod_db-Wednesday.cst	2.3 MB	Wed Feb 20 17:22:38 2019
backup-full-MASTER-aeron_john_db-Friday.cst	441.5 MB	Fri Jun 8 09:24:14 2018
backup_database.bat	1.3 KB	Wed Jan 30 12:01:48 2019
create_database.bat	1.6 KB	Thu Feb 21 15:09:03 2019
restore_database.bat	2.4 KB	Thu Feb 21 15:12:34 2019
Show hidden files and folders? 🗌		Format All Files 🗸
		X Cancel

At Role name fill select the intended 'Database Owner'. Click Restore to start the process.

Restore (Database: aeron_	prod_db)	2	
General Restore options			
Format	Custom or tar	•	
Filename	$\label{eq:c:Aeron Database} C:\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		
Number of jobs			
Role name	🐣 aeron_dba	•	
: .	Cancel + Dac	ore	
		.010	
Postoring backup	on the secure	••	
Restoring backup		~	
Restoring backup o	on the server 'PostgreSQL 10 (localhost:5432)'		
Thu Mar 28 2019 1	4:21:36 GMT+0100 (West-Europa (standaardtijd))		
55.54 second	s 🚯 More details 😣 Stop Proc	ess	
Successfully completed			

If you do not see any data in AerOn Studio after restore, the database may contain a schematic *aeron*. If the database contains a schematic *aeron*, then after restore in pgAdmin, you need to run the sql below.

ALTER DATABASE aeron_prod_db SET search_path = "\$users", aeron, public; REVOKE CONNECT ON DATABASE aeron_prod_db FROM public;

Then restart AerOn Studio.
20.3.2 Restore database via a script

Using a command-line script we load the contents of an AerOn Studio database backup .cst file into a PostgreSQL database.

Restore script example with parameters:

Parameters

SET HOST=127.0.0.1 SET PORT=5432 SET DATABASE=aeron_prod_db SET SUPERUSER=postgres SET DBADMIN=aeron_dba

SET PGBINDIR=C:\Program Files\PostgreSQL\10\bin

SET DROPDB="%PGBINDIR%\dropdb.exe" SET CREATEDB="%PGBINDIR%\createdb.exe" SET PSQL="%PGBINDIR%\psql.exe" SET PGRESTORE="%PGBINDIR%\pg_restore.exe"

SET BACKUPDIR=C:\Aeron Database\PostgreSQL\10\Backup SET FILENAME=backup-full-aeron_prod_db

Password of the postgres superuser

SET PGPASSWORD=postgres

Delete database if still present

%DROPDB% -h %HOST% -p %PORT% -U %SUPERUSER% %DATABASE%

Database creation

%CREATEDB% -h %HOST% -p %PORT% -U %SUPERUSER% -E UTF8 -O %DBADMIN% %DATABASE%

Password of the database owner for restore

SET PGPASSWORD=aeron_dba

Loading the database from the file

%PGRESTORE% -v -h %HOST% -p %PORT% -U %DBADMIN% -d %DATABASE% "%BACKUPDIR%\%FILENAME%.cst".

If the database contains a schematic aeron:

%PSQL% -c "alter database %DATABASE% set search_path = '"\$users"', aeron, public;" -h %HOST% -p %PORT% -U %DBADMIN% -d %DATABASE%

%PSQL% -c "revoke connect on database %DATABASE% from public;" -h %HOST% -p %PORT% -U %DBADMIN% -d %DATABASE%

If the role 'aeron_app_role' is present:

%PSQL% -c "grant connect on database %DATABASE% to aeron_app_role;" -h %HOST% -p %PORT% -U %DBADMIN% -d %DATABASE%

%PSQL% -c "GRANT ALL ON ALL TABLES IN SCHEMA aeron to aeron_app_role;" -h %HOST% -p %PORT% -U %DBADMIN% -d %DATABASE% It is very important for AerOn Studio to know from which tracks in the database the audio files are actually present. This is especially important for *Formatplanner* and *Database browser*. *Formatplanner* should only select songs of which the audio file is present. Also in *Database browser* a presenter or DJ only wants to work with tracks that are actually present and available for use in his broadcast. When starting AerOn Studio, all audio files are searched and the entire path to each audio file is cached. With *Present scan* you can also refresh the file cache.

The Scan Presence \rightarrow Database menu scans all database records to check if the audio files of the tracks are actually present. If you click *Refresh* in the Database Browser after *Present scanning*, all available tracks in which an audio file has been found will be made visible. Formatplanner always automatically performs a scan before it starts scheduling. In the playlist menu, a Check option is also available to scan the availability of audio files for all tracks in that playlist.

The *Existing scan* function can only be performed on a computer with scan rights. On these computers, the location is set to *Studio*. The scanning right can be assigned in *Global* \rightarrow *Scan* \rightarrow *Rights Settings*. Normally, you only assign the scanning privileges to computers within the local AerOn Studio network. PCs in the studio can be set to Location '*Studio*'. PC's at home with employees, who will usually connect via VPN, are set to Location '*Remote*'.

Scan rights of home users

Home users will generally not give you scanning rights because they usually do not have all audio files in their possession. Another reason is that with home use it can also happen that someone adds tracks to the database of which the audio files are not (yet) present on the local network in the radio station.

Since home users do not normally have scanning rights, it is necessary from time to time to scan the entire database for the presence of audio files, so that it remains up to date. This is to prevent that tracks that are present in the studio are not immediately visible in the studio due to the actions of the home user if the location on his PC is still set to *Studio*. In the unlikely event that tracks suddenly disappear, the presenter or DJ will have to scan the database again for existing tracks and refresh the *database browser*.

If a home user adds tracks to the database and then uploads the audio files to the audio folders in the studio (remote folders) using the Synchronization module in AerOn Studio, the tracks in the database are automatically marked. with *Present*.

Present scanning after adding audio files.

Presence scanning also allows you to refresh the file cache in AerOn Studio after adding new audio files. This also removes the need for Windows to cache and index files. This can shorten the search time for audio files which improves the overall performance. Also using *Manage to* scan the waveforms after adding audio files can help improve performance.

22 History

History can be accessed via the File Open \rightarrow History \rightarrow menu.

In *History* AerOn Studio keeps track of all items played by the automation. It doesn't matter if they came on air non-stop or during live broadcasts. In addition to the items that have been played, *History* also keeps track of the logging on or off of users and the starting or stopping of the automation with the exact time of this event. With the history you get answers to questions like: Who did the live broadcast in the evening last Wednesday? How many times did this customer's commercial run on our station in the month of March?

🥹 Historie					- 5	×
Radio ID 1 - Hit Radio	•					
Overzicht Grafiek Hitlijst						
Start 🔺	Duur Titel	Artiest	Auteur	Categorie Bu	ma ID 🛛 Jaar	•
27-3-2019 07:04:48	00:02 Commercial einde (BTD)	- Commercial Pingel			199	0
27-3-2019 07:04:50	00:03 Filler 03 seconden	Filler				
27-3-2019 07:04:52	00:07 Broadcast Partners - We make radio happe	- Jingle				
27-3-2019 07:04:58	00:05 Sweeper Hallo Flevoland Continu	- Jingle				
27-3-2019 07:05:03	03:36 Saturday night	Herman Brood		м	197	8
27-3-2019 07:08:31	04:06 Invisible	Alison Moyet			198	7
27-3-2019 07:12:25	00:01 ## Editie Syndicate ##	Trigger				
27-3-2019 07:12:25	00:02 Filler 02 seconden	Filler				
27-3-2019 07:12:27	00:02 Commercial begin / einde (BTD)	- Commercial Pingel			199	0
27-3-2019 07:12:29	00:20 Pb media - alle computers op internet ?	- Commercial		R	199	0
27-3-2019 07:12:49	00:44 Dennis audio _video service - wel zo vertrou	- Commercial		R	199	7
27-3-2019 07:13:33	00:22 Carhifi professional - welke versterkers ?	- Commercial		R	199	6
27-3-2019 07:13:55	00:16 Dental 90 - en dan nu het weer	- Commercial		R	199	6
27-3-2019 07:14:11	00:35 Zuiderzee - kerst catering	- Commercial		R	199	7
27-3-2019 07:14:46	00:26 Restaurant riksja - zin in lekker eten ?	- Commercial		R	199	8
27-3-2019 07:15:12	00:13 Sierbestrating jonk - een plaatje van een st	- Commercial		R	199	0
27-3-2019 07:15:26	00:06 Restaurant riksja - telnr reminder	- Commercial		R	199	8
27-3-2019 07:15:32	00:13 Women Only 3	- Commercial		R	199	8
27-3-2019 07:15:44	00:22 Max discotheek - elke zaterdag vanaf 10 u	- Commercial		R	199	0
27-3-2019 07:16:06	00:02 Commercial einde (BTD)	- Commercial Pingel			199	0
27-3-2019 07:16:08	00:03 Filler 03 seconden	Filler				
27-3-2019 07:16:10	00:07 Broadcast Partners - We make radio happe	- Jingle				
27-3-2019 07:16:16	04:04 Good Life	Inner City			199	7
27-3-2019 07:20:10	00:03 Hot - number one hitmusic	- Jingle - Hot - 13			199	0
27-3-2019 07:20:13	03:49 Where is the love	Black Eyed Peas feat. Justin T		М	200	3 🔻
27-3-2019	Dag					1.514

To view the history, go to File Open \rightarrow History \rightarrow .

You see today's history. With the calendar at the bottom left you can choose another day from the past. Instead of an overview per day, you can also display an overview per week, month, quarter, year or complete history. With the green arrows you can navigate through the history per period.

Bottom right, the number of items for the selected period is visible. As long as there are no more than 10,000 records visible, you can sort on the different columns. For larger numbers, sorting is not possible due to the calculation time required to sort the data.

Under the right mouse button you will find the menu below. With the various options in this menu you can filter specific data or events:

	Editor
	Titel
	Artiest
	Titel en Artiest
ĕ	Commercials
	Niet gespeeld
æ,	Time shifter
2	Acties
	Reset

Editor	Open the selected item in Database editor.					
Title	Filter all items with the same title.					
Artist	Filter all items with the same artist.					
Title and artist	Filter all items with the same title and artist.					
Commercials	Filter all commercials. Commercials are all items where in <i>Database editor</i> on the tab Track' the category is set to 'Advertisement'.					
Not played	Filter all items that have not been played, these are recognizable by the red color.					
Time Shifter	Filter all <i>Time shifter items</i> , these are recognizable by the green color.					
Actions	ilter all Actions set in the Tools Actions \rightarrow menu.					
Reset	Turn off the filter so that all the data for the selected period is visible.					

After you have activated a filter, you can click the *Chart* tab to display a graph of the filtered data.



In the example at the bottom right you can see how many tracks there are in total and what the number is in the selected period. In case of large numbers of played tracks, certain tracks can be made invisible in the legend.

On the third tab you have the option to display a hit list over the selected period. For example, you can sort on the 'Number' column to see which item has been played the most often. The 'Category' column makes it possible to put a fillter on it, for example, to display only the music.

😲 Historie			_ = ×
Radio ID 1 - Hit Radio			
Overzicht Grafiek Hitilijst		Filter op c	ategorie
Titel	Artiest	Auteur	Aantal 🔻 Categorie 👔 🔺
Filler 03 seconden	Filler		1357 G
Commercial begin / einde (BTD)	- Commercial Pingel		1329 T
Commercial einde (BTD)	- Commercial Pingel		1327 T
### ANP Nieuws %d ###	ANP		440 G
UURAFSLUITER			430 G
Verkeersinfo Aankeiler	- Pingel TA		428 T
Verkeersinformatie Einde	- Pingel TA		428 T
Verkeersinformatie %d	Verkeers Informatie Dienst		426 T
Banketbakkerij & Tearoom Mastenbroek 2	- Commercial		382 R
Radix 2.0	- Commercial - TopFormat Copyright 2005		229 R
Moda For Walking	- Commercial		227 R
Max discotheek - elke zaterdag vanaf 10 uur	- Commercial		227 R
Promo - Novum 2	- Promo		217 T
Steur Makelaars	- Commercial		216 R
Restaurant riksja - telnr reminder	- Commercial		216 R
P&b media - alle computers op internet ?	- Commercial		211 R
10plan.nl	- Commercial		202 R
Atlas - vanaf 7 uur geopend iedere dag	- Commercial		199 R
Remco carstereo - doorbreekt alle prijzen	- Commercial		199 R
Carhifi professional - welke versterkers ?	- Commercial		198 R
Dating.nl	- Commercial - TopFormat Copyright 2005		197 R
Primera	- Commercial - TopFormat Copyright 2005		187 R
Promo - Novum 1	- Promo		186 T
Dennis audio & video service - wel zo vertrouwd	- Commercial		183 R
City vlaai - ook voor belgische bonbons	- Commercial		177 R 🔻
27-3-2019 🔹 🟟 Maand 🔹			29.810

22.1 Print

You can also print *History at* any time from the *Print* \rightarrow *File* menu. If you have a filter active or a certain column sorted, it will be printed in the same way. If the filter is active, the graph is printed on the last page.

	Historie	
sart Duur	Ti tel	Artest
1-3/2015 03:38	Jump	Gifs Aloud
1-9-2015 00:03:31 03:05	Leef mootze zien	Rans Theunisz & De Shihtaler
18-2015 00:0835 03:50	Gete-way	Maxx
1-3-2015 00:10:15 03:42	Hove your smile	Kees Ten Dam
19-2015 00:13:51 03:58	Let's go all the way	SlyFox
18-2015 00:17:35 04:10	Citcle in the sand	Belinda Carible
1-3-2015 00:21:17 03:14	CamelToe	Fannypack
1-3-2015 00:24:18 02:50	l like it	Narcotic Thrust
1-3-2015 00:27:05 03:01	Soleysoley	Middle Of The Road
1-3-2015 00:30:01 03:46	Unfaithful	Rhama
19-2015 00:33:43 04:13	Het Land Van (Ive)	Large Frans & Baas B
1-3-2015 00:37:53 03:56	I don't ever want to see you again	Uncle Sam
13-2015 00:41:47 03:46	Faster harder scotter	Scooler
13-2015 00:45:25 04:54	Sweet dreams	Eurythmics
19-2015 00:50:07 03:26	On what a night	Ranke Vall & Four Seasons
1-3-2015 00:53:27 03:24	Superreak	Beatteakz
19-2015 00:58:45 03:17	Sound Of Goodbye	Amin Van Buuren
1-3-2015 01:00:00 03:26	Counting Down The Days	Sunfreakzifeat, Andrea Britton
1-9-2015 01:03:23 02:48	Een huisje in montmarte	WIITura
1-3-2015 01:08:08 08:26	Same old blues	John Lee Hooler
19-2015 01:11:31 08:28	I can make you love me	Bonnie Ratt
1-3-2015 01:18:56 03:49	Honesty	BilyJoel
1-3-2015 01:20:39 03:12	Visite	Lenny Kuhr
1-3-2015 01:23:50 03:29	The Grave	George Michael
19-2015 01:27:01 03:01	Little voice	Hilary Duff
1-3-2015 01:30:00 04:22	Engel	Rammstein
19-2015 01:34:17 02:22	Der vehnachtsmann	Peter Alexander
1-9-2015 01:3838 0323	Ein zwei polizei	Mo-Do
1-3-2015 01:40:00 03:26	Haltmich	Herbert Grönemeyer
1-3-2015 01:4321 0342	Du hast mich tausendmai belogen	Andrea Berg
1-3-2015 01:48:59 04:05	Aber dich gibts nur einmeil fur mich	Sound Convoy
1-3-2015 01:51:01 03:23	Diel weisse tauten	Ba
1-9-2015 01:54:24 03:42	Links 26-4	Rammstein
1-3-2015 01:57:54 02:08	Targo damor	Vicky Leandros
1-9-2015 02:00:00 03:04	Fake Tales of San Francisco	Artic Morkeys
1-9-2015 02:0301 03:26	Nastiou	Boudew(in De Groot
1-3-2015 02:08:20 03:44	Dancerus	Busta Rhymes
1-3-2015 02:10:01 08:14	Tom trauberts blues	Rod Stewart
19-2015 02-18-10 03:27	Yo de manren vol	Luc Steeno
19-2015 02:1935 0403	Babe	Stvx
1-9-2015 02:23:30 08:19	Kenkraft 400	Tweetwool
1-3-2015 02:28:49 08:20	Peoples From Heaven	Imer Oty
19-2015 02:3402 02:44	Here comes the right	Them bat Van Morison
19-2015 02:38 43 02 53	How sweet it is	Marvin Gave
19-2015 02:39:25 03:42	Répounce	Benny Rodriguez & Segret Cinema
19-2015 02:4302 0309	De luchtralion	Face Baler
19-2015 02:48:11 02:29	Mestreech	Foger Villeyove
10/0015 02:4945 02:01	Los Game/Erace Coultor BemV)	Lady GarGa
10-2015 02-5305 0321	Love to an elevator	Agreentin
10 2015 QL 5305 0320	Death lack lack	Date: Tech 2 Minis Japan
10-2015 02:5825 03:37	Wheels in Motion	Foor Ivaria nick dagger
		EVENTION OF FEDDELLE GRAND



Buma/Sabam reporting 23

1913 as the Copyright Office for Music) is the copyright 1916 Burner buricipate and music publishers. In the Netherlands, Vereniging Buma (originally founded in In Belgium there is a similar association: Sabam. Buma and



Sabam charge copyrights for anyone who performs music in public and distribute the amounts received among the rightholders. On the websites of Buma and Sabam (respectively and www.sabam.be) extensive information can be found on how to report music use.

Radio stations are obliged to report to Buma and Sabam. AerOn Studio is able to make a report of music use that can be processed directly by these associations. It is not necessary to keep a record on paper of which tracks have been played and then search for the correct data. AerOn Studio creates a file that can be sent immediately.

Enter data in two places to enable AerOn Studio to create a Buma report.

- 1. First of all, specify a number of things in *Institutions General* \rightarrow > Buma reporting. Buma and Sabam will tell you what you need to fill in in most of the fields.
- 2. For each track in the music database (*Database editor*), you enter the data relevant to each track on the 'Track' tab.

The automation of AerOn Studio always keeps track of what track is playing, when exactly and for how long. Together with the data that is important for a Buma/Sabam report, this is stored per day in History.

You can make a Buma/Sabam report as soon as the period for which this must be done has elapsed. You can go to the Buma/Sabam → report via the menus (Database Buma) report).



The starting date has been derived by AerOn Studio from the period you entered in the Buma reporting settings.

24 Export (HTML, XML and text)

AerOn Studio offers the possibility to export playlists as HTML (HyperText Mark-up Language), XML or text. HTML is the file format used in Internet browsers, but the file format is also supported by word processors, e-mail programs and many other software. The broad support and wide range of possibilities therefore enable you to use the HTML export entirely according to your own wishes and insights. You can determine what the output of playlists looks like by creating and modifying templates. We assume that you have sufficient knowledge of HTML or that you are able to modify the supplied examples to your own taste.

Before exporting, it is important that you correctly indicate which tracks may and may not be published. For example, jingles are not published by many broadcasters. In *Database editor* you can indicate in the tab 'Track' in the category 'Publish' which tracks you want to publish, i.e. display in the HTML export.

After you have indicated which tracks may and may not be published, choose which templates should be used in *Settings Automation* $\rightarrow \rightarrow Export HTML/XML/Text$. By default, Broadcast Partners provides a number of sample templates in the Export\Source folder. These are clearly arranged, so you can quickly get started with them. In this chapter we will also explain which possibilities you have for your own templates.

The principle we use for the different types of documents is always the same. Normally you want to provide the HTML export with a header, followed by a series of items and below that a footer. We split the definition of the template into two or more parts, namely an export template and an item template. The export template (the one you specify in the settings) always contains the reference to the correct item template.



In the templates you can use a number of 'tags' to make data from AerOn Studio visible. The tags can be recognized as <#tag>, where you replace the tag with the desired text. Furthermore, you are free to use all the possibilities of HTML.

If you are using the export in XML format, make sure that the first line of the template looks like this:

<?xml version="1.0" encoding="utf-8" standalone="yes"?> The HTML export uses this to determine whether export in HTML or XML is desired.

It is also possible to export playlists to Pluxbox Radio Manager.

24.1 Playlist

The template for the playlist is divided into two parts, namely the definition of the header that appears once at the top of the web page and the definition of a playlist item that is repeated over and over again. In Settings Automation $\rightarrow \rightarrow Export HTML/XML/TEXT$ you specify the template with the header. Depending on the structure, template contains a reference to the text file containing the item definition. This referenced text file is used repetitively to fill the tags with metadata.

The following tags can be used in the header template:

Date_Now	Today's date.
Playlist_Name	File name of the exported playlist.
Playlist_Date	Today's date or 'Date unknown' if the playlist filename does not represent a valid date.
Items_File	This is the reference to the template that describes a single item from the playlist. Here <i>FILE indicates</i> the file name of the template without extension.

The following *Tags* can be used in the template for the items present in the music database:

AudioID	Audio ID of the track.
Title	Title of the track.
Artist	Artist of the track.
Title_Artist	Displays title and artist of the track in the same way as in the playlist (with a dash).
Author	Author of the track.
Track_Start	Start time of the item from the playlist in hh:mm:ss.
Track_Start_Short	Start time of the item from the playlist in hh:mm.
Track_Length	Track length.
Start_Next	Start time of the next item in the playlist.
Year	Date of highest quotation
Publication	The field <i>Publish</i> the track from the music database. This tag is required if you also want to publish custom text.
	The <#Publication> tag publishes in the form indicated per track in the database. It could be in these forms: - Not - Title - Artist - Title - Artist - Title - Artist - Modified
Info	Track info.
Artist.instagram	The artist's instagram account

- Artist.twitterThe artist's twitter account.WebsiteWebsite of the track.
- SongType Song type (first column of the criteria) of the track.
- Songtext Lyrics to the track.

This is a selection of the most important tags that can be used with AerOn Studio, however there are many more tags that can be used. Tags can be defined by *database table.field name*. This way you can use the many information AerOn Studio has in the database in your export. If you have any questions about this, please contact our support department.

If the item is external audio, only the tags *Artist, Title_Artist* and *Publication* are supported. If one of these three tags is used, the same text will be entered. When using other tags in the template, no text will be entered.

For external audio, this is the name you have entered in the settings under 'Publish'. (Automation \rightarrow settings > External audio ...)

After you have designed one or more templates, you can use the HTML export as follows: open a playlist and then go via the menus to *File OnAir* \rightarrow *export*. AerOn Studio will display the available templates here. After clicking on the desired template, the HTML export will be executed.

24.2 Playlist OnAir

The Playlist OnAir is an extension of the standard playlist. It shows the playlist that is currently playing (OnAir is). In the template with the header you can use the same tags. There are now three references to templates with the items. The first template is for displaying the items that have played. The second template is for displaying the active item. The third template defines the layout of the upcoming items.

- ItemsOnAir_LastXX_File This is the reference to the template with the description of the already played items. For XX, enter the number of items already played that you want to see in the playlist. FILE indicates the file name of the template without extension.
- *ItemsOnAir_File* This is the reference to the template with the description of the active item.
- *ItemsOnAir_NextXX_File* This is the reference to the template with the description of the items that still have to play. Some radio stations prefer not to show what's still to come, for *XX* fill in 0.

In Settings Automation $\rightarrow \rightarrow Export$ HTML/XML/TEXT you can check the 'Active' option for each template you have specified. AerOn Studio uses these active templates for the playlist you publish on a website. The export takes place automatically after each track change.

The following tags can be used in the image display template:

Track	Single cover	of the	e track.		
D'	A 11	,	1 * 1 41		

Artist

Picture of the artist.

Available Picture of the track, disc or artist. Preferably the picture of the track will be shown. If this is not present then the picture of the disc and possibly the picture of the artist will be shown.

Example <#image src="Disc" alt="Album cover">

Manual HTML export is also possible via the menus. At *File OnAir* \rightarrow *export* you will see the available templates. Above the line you will see the 'normal' playlist templates and below the line the 'on air' templates.

24.3 **Publication on the internet**

Many AerOn Studio users are interested in publishing the active playlist on the internet. Since uploading the HTML files can be different for each website host, it is not possible to offer a ready-to-use solution here. We will therefore suffice with an example.

Every time the automation of AerOn Studio starts a new track, you want to make this change visible on the internet. To do so, it is necessary to start a so-called ftp command. You can enter this command in *Settings Automation* $\rightarrow \rightarrow Export HTML/XML/TEXT$ *in Run with active template*.

For example, you enter the following command there: "P:\AerOn Studio Data\Export\Source\Upload.bat"

Uitvoeren bij actief sjabloon P:\Aeron data\HTML\Upload.bat

The file 'Upload.bat' at the specified location contains the commands needed to execute the actual upload. The program ftp, which is a standard part of Windows, is used here. For example:

ftp -s:"P:\AerOn Studio Data\Export\Source\UploadFtpcmd.txt"

If necessary, you can add the following at the end of the command line above: > "P:\AerOn Studio Data\Export\Source\FtpResult.txt"

Stores the ftp command output in the result.txt file. Allows you to check if the ftp command has been executed correctly. If the server of the website host is temporarily inaccessible, you can check that in this file.

The file 'UploadFtpcmd.txt' contains a script for the ftp program. You need to replace the brackets and the text between the brackets with the correct data. The hooks are here for clarification only. The brackets may not be included in the file 'UploadFtpcmd.txt'.

```
open << URL of the internet service provider>>
<<username>>
<CD AerOn Studio
well "P:\AerOn Studio Data\Export\Target\NewStyle1.htm"
well "P:\AerOn Studio Data\Export\Target\Available.jpg"
quit
```

The line CD AerOn Studio does the same as the DOS command CD but on the web server. This may be necessary if the file you are about to upload is not in the root of the internet server but somewhere in a subfolder.

Files such as images and templates must also be present on the web server.

Template files UploadFtpcmd.txt Upload.bat

24.4 Examples

Below we will go over the different standard templates that come with AerOn Studio. You can find these templates in *Settings Automation* $\rightarrow \rightarrow Export HTML/XML/TEXT$. You can then select and view the templates using the 'View' button at the bottom right.

24.4.1 Playlist on website

The templates NewStyle1 and NewStyle2 show the active playlist in HTML with one image or the image of track, disc and artist.

NewStyle1



Template files NewStyle1.txt / NewStyle2.txt NewStyle1OnAir.txt / NewStyle2OnAir.txt NewStyleItems.txt NewStyle.css

NewStyleBackground.bmp

<image><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header>

24.4.2 Playlist on website - more images

NewStyle3 adds the images of the played and future tracks.



Template files

NbewStyle3.txt NewStyle3OnAir.txt NewStyle3Items.txt NewStyle.css NewStyleBackground.bmp

24.4.3 Active track in file

Some users do not want to have the active track published directly to the website(s), but have it processed by another application with a file, where the first line contains the artist and the second line contains the title of the track or vice versa.

It's a long way to the top AC/DC

Template files

TitleArtist.txt TitleArtistOnAir.txt

24.4.4 **Previous, active and next track in file**

AC/DC - It's a long way to the top

Nelly Furtado - Say It Right

Alena - Turn it around

Template files

Compact.txt CompactOnAir.txt

24.4.5 Playlist without layout

For editing the playlist in another application, this template can serve as a basis. Note that there is no 'OnAir' file here.

```
Twaalf uur Tijdsein 12
Nieuws %d Novum
U got my love DJ Jean
Tougher than the rest Bruce Springsteen
You had me Joss Stone
For whom the bell tolls Bee Gees
Jackie wilson said Van Morrison
Let's Dance Hi-Tack
Ne ver, ne boisia T.A.T.U.
El ritmo caliente Esperanza
Talking loud and clear O.M.D.
Plaything Raffish
```

Template files

Simple.txt Simpeltem.txt

24.4.6 Active track as billboard

With this template you bring the image (track, disc or artist) of the active track into view on a large monitor in the studio. With the function key F11 in Firefox and Internet Explorer, only the image remains visible.



Template files BigPicture.txt BigPictureOnAir.txt



Template files

Xml.txt XmlOnAir.txt XmlItemsLast.txt XmlItemsNext.txt

24.4.8 Clocks

With these templates, the clocks of the automation can easily be displayed on another PC in the network. To display the clocks, Java must be installed on the device, e.g. on the PC, tablet, or smartphone on which the web page is viewed. Java can be downloaded from www.java.com.

It is also convenient that time runs synchronously on all PCs. With a tool like NetTime, the PC clock can be synchronized with an NTP server.

http://www.timesynctool.com/NetTimeSetup-314.exe



Template files

Source: clocksdigital.txt Purpose: clocksdigital.htm

<u>Tip:</u> in most web browsers, the menus and address bars can be hidden with the function key F11 so that only the clocks are displayed on one monitor.



<u>File</u> Source: clocksdigital.txt Purpose: clocks.htm

24.4.9 Shoutcast and Icecast

With this template you can send the artist and title as metadata to a Shoutcast or Icecast server or for example a Barix Instreamer. The metadata is read and sent via the php script ShoutcastSongInfo.php. In this script you need to adjust the parameters for IP address, port, password, Stream ID and Mount point to your own situation.

You must also specify the path to the metadata file in the script. For example:

"P:\AerOn Studio Data\Export\Target\Shoutcast.htm"

To run the ShoutcastSongInfo.php script, you must have php installed.

Php can be downloaded from the website <u>http://windows.php.net/download/.</u> Recommended version: PHP 5.3.10 or higher VC9 x86/x64 Thread Safe

For php, the components or Visual C++ Libraries are required. If they are not yet installed you can download them via the links below:

Microsoft Visual C++ 2008 Redistributable Package (x86) voor 32 bit windows http://www.microsoft.com/download/en/details.aspx?displaylang=end=29

Microsoft Visual C++ 2008 Redistributable Package (x64) voor 64 bit windows. http://www.microsoft.com/download/en/details.aspx?displaylang=end=15336

The file ShoutcastUpdateSongInfo.bat contains the command to execute the script ShoutcastSongInfo.php.

For example: cmd /c ""C:\Program Files\php.exe"" -f "P:\AerOn Studio Data\Export\Source\ShoutcastSongInfo.php"""

The file Upload.bat contains the command to call the file ShoutcastUpdateSongInfo.bat. For example:

call "P:\AerOn Studio Data\Export\Source\WoodcastUpdateSongInfo.bat"

🛓 Chr	istina Aguilera	Genie	in a bo	ttle - PC-Ra	adio 6 au	diostream - \	/LC Media Pl	ayer 🔳 🗖 🔀
<u>M</u> edia	Af <u>s</u> pelen <u>A</u> udio	<u>V</u> ideo	E <u>x</u> tra	W <u>e</u> ergave	<u>H</u> elp			
44 📘								PD
			111	\$			(J)) 100%
Christin	a Aguilera - Genie in	a bottle -	PC-Rad	io 6 audiostrea	am		1.00	x 03:20/:

Template files

Shoutcast.txt ShoutcastOnAir.txt ShoutcastSongInfo.php ShoutcastUpdateSongInfo.bat

<u>**Tip:**</u> See also export streamtitle in the automation settings where you can have metadata sent directly to your streaming server via a url. See *Automation* \rightarrow settings General \rightarrow > Export stream title

24.4.10 Orban Opticodec

With this template you send the artist and title to the stream of the Orban Opticodec. You can choose between a text file or XML file.

By default, the UAC is active in Windows. The Orban Opticodec software must therefore be run as Administrator to give the software sufficient rights.

<u>Text</u>

Artist=Rasmus~Title=In my life^

In the Opticodec you set where the file can be found, the separation between artist and title and how this information is closed in the file.

Fil	e	•					
	File Settting						
	Folder	\\server_pcr\PC-Radio (P)\PC-Radio 6\Web\					
	File Type	Text					
	File Name	OrbanOpticodec.txt					
	∃ Text						
	Delimiter						
	Terminate Char						

Template files

OrbanOpticodec.txt OrbanOpticodecOnAir.txt

<u>XML</u>

```
<?xml version="1.0" encoding="UTF-8" standalone="true"?>
<!--Generated: donderdag 4 oktober 2012-->
<event>
        <artist>Rasmus</artist>
        <title>In my life</title>
</event>
```

File 🔹							
	File	e Settting					
	Fo	lder	\\server_pcr\PC-Radio (P)\PC-Radio 6\Web\				
	File Type		XML				
	File	e Name	OrbanOpticodec.xml				
		XML					
		Artist Path	//event//artist				
		Title Path	//event//title				
		Image Path	//event//image				
	Format Node						

Template files OrbanOpticodecXml.txt OrbanOpticodecXmlOnAir

25 Actions

Actions can be accessed via the Tools Actions \rightarrow menu.

Actions can be used to perform certain actions. These can be actions in AerOn Studio on the same computer or actions to other computers running AerOn Studio (e.g. Edition systems) or Radix. Radix is RDS software from Broadcast Partners, with which, for example, current title and artist can be included in the PS or RT of RDS. It is also possible to automatically switch TA (Traffic Announcement) or Region broadcasts on and off. AerOn Studio can therefore also receive actions from other computers on which AerOn Studio is running. This is why a distinction is made between outgoing actions on the one hand and incoming actions on the other hand.

The outgoing actions are performed when playing an Audio file. The recent history shows when and which actions were performed in the near past.

Acties									-	- ×
Uitgaande acties	Radio ID 1 - Rad									
	AudioID	Titel	Artiest	Actietijd	Voor stop				Nonstop	Jingle
Audiobestanden	JINGLE20	Cool fm - van kust tot kust	- Jingle - C	00:00.0		Onbekend	-			
Recente historie	TOP FORMAT - 10F	10plan.nl	- Commerci	i 00:00.0		Onbekend				
Streamtitle	TOP FORMAT - BLA	Blaupunkt	- Commerci	i 00:00.0		Onbekend				
	TOP FORMAT - DE	De Harense Smid	- Commerci	i 00:00.0		Onbekend				
	TOP FORMAT - DIR	Directa	- Commerci	i 00:00.0		Onbekend				
	TOP FORMAT - KRL		- Commerci	i 00:00.7		Onbekend				
	TOP FORMAT - KYC		- Commerci	i 00:00.0		Onbekend				
	TOP FORMAT - SUZ		- Commerci	i 00:00.0		Onbekend				
	TOP FORMAT - VAk	VakantieXperts	- Commerci	i 00:00.0		Onbekend				
	JINSSI 10	S&SI - goeienacht	- Jingle - St	0.00 ا	₹	Time shift l		₹	1	
	NIEUWS	Nieuws %d		00:00.0		Time shift p		₹	1	1
	NIEUWS	Nieuws %d		03:00.0	₹	Time shift l		₹	1	
	JINSSI23		- Jingle - S	00:00.0 ا		Onbekend				
	JINGLE28	Cool fm - meer van het bes	- Jingle - C	00:00.0		Onbekend				
	JINGLE29	Cool fm - van kust tot kust	- Jingle - C	00:00.0		Onbekend				
	JINGLE23	Cool fm - meer van het bes	- Jingle - C	00:00.0		Onbekend				
	JINGLE20	Cool fm - van kust tot kust	- Jingle - C	00:00.0		Onbekend				
Uitgaande acties										
Inkomende acties	$+$ $+$ $ \vee$ \times \sim	•								×

25.1 Outgoing actions

Outgoing actions are performed by playing an audio file. An action can be added with the small buttons at the bottom of the list. Another and more simple way is to drag and drop an audio file to the outgoing actions window. This can be done for example from *Database browser*, *Playlist*, *Jingle players* or from Windows Explorer, as long as that audio folder is part of the local search paths. The AudioID, title and artist are filled in automatically. The other fields are described in more detail below.

25.1.1 Action time

This is the time relative to the actual beginning of the audio file on which the action is performed. This time is not equal to the time after the start of the audio file. For example, the action time is 5 seconds and the Audio file starts at second 2. This means that the action is performed 3 seconds after the Audio file starts.

25.1.2 Before stop

This indicates that the action should also be performed if the action time has not yet been reached when the audio file has already stopped playing. This applies, for example, if the presenter / DJ uses a bed while reading traffic information. The bed is usually quite long and in principle always ends earlier than the actual duration of the bed. As soon as the bed is stopped, the RDS TA function should also be deactivated. If *For stop* is ticked, the action is immediately performed when the bed is stopped and the RDS TA function is deactivated.

Checking *For stop* also applies to files of varying length. Think for example of the news, traffic information and agenda messages.

25.1.3 Action

The action to be performed is set here. If an Audio file requires multiple actions to be performed, this Audio file should be added to the list multiple times, each time with the same Audio ID.

Actions supported

Breaking down external audio

This is used in edition systems where disconnected programmes or commercial breaks are broadcast. As soon as this action is received from another AerOn Studio system, the external audio is cut off and this AerOn Studio continues with its own playlist. For example, an own, local and disconnected commercial block.

Pause / resume time shift

For programs recorded with *Time Shifter* for later re-broadcasting, it is possible to temporarily interrupt the recording during commercial breaks. This makes it possible to work with other commercial breaks during the rebroadcast of the recorded programme.

Outgoing action 1 / 2 ACM/CIM

To control one of the outputs on the ACM or CIM

RDS TA on / off

To enable or disable the RDS TA (Traffic Announcement) function in Radix.

RDS Region broadcasts on / off

To enable or disable regional broadcasts with Radix.

For the RDS actions, a request is made to Radix to perform the action in question. In the end it is Radix who will decide if the action will be executed.

Regional playback

This is used in editing systems that broadcast disconnected jingles, news or other items. As soon as this action is received from another AerOn Studio system, the local jingle or news is started.

Command

For the execution of scripts, urls, etc...

25.1.4 Live, Nonstop and Jingle

This indicates from where an action should be performed: from *Jingle players*, during *Live assist* playback or during nonstop.

25.2 Incoming actions

Incoming actions are actions coming from another AerOn Studio system on another computer in the network. The actions communicate via the Postgres database server. Logical consequence is that in incoming actions the AerOn Studio Postgres database server has to be set from where the actions originate.

Recent history shows when and which actions were received in the near past.

26 Manage

Management can be accessed via the Tools Management \rightarrow menu.

With *Manage* you can manage (unnecessary) files or database records. For each tab you get the data presented in a clear way.

As soon as you press the *Apply* button, all selected files or records are deleted. After that it is impossible to retrieve them. If you go to another tab, AerOn Studio will first find out which items are eligible for deletion. This only happens once, but may take some time.

📊 Beheer					- 0	×
Radio ID 1 - Radio 1		•				
👃 Historie 📑 Playlist 💉 Voic	e track 🛛 🎝 Aud	dio 📑 Kopieën 吕	Databank 🛛 <table-cell-rows> 😥 Artie</table-cell-rows>	st 😽 Golfvo	rm	
Bestand Laatst gewijzigd	AudioID	Titel	Artiest	Verwijderen	Compr Bitrate Duur	•
D:\Audio\MP2\Mpeg3\; 31-7-2008 23:00:	0 XC7866	El Mundo Bailando	Belle Perez			
Z:\Audio\MP2\Mpeg3\} 31-7-2008 23:00:	0 XC7866	El Mundo Bailando	Belle Perez	×		
D:\Audio\MP2\Mpeg3\; 29-8-2008 14:46:	1 XC7877	Miss you	Ellen Ten Damme			
Z:\Audio\MP2\Mpeg3\} 29-8-2008 14:46:	1 XC7877	Miss you	Ellen Ten Damme			
D:\Audio\MP2\Mpeg3\ 3-12-2000 09:05:	3 XC7878	Morning has broken	Cat Stevens			
Z:\Audio\MP2\Mpeg3\ 3-12-2000 09:05:	3 XC7878	Morning has broken	Cat Stevens	✓		
D:\Audio\MP2\Mpeg3\ 31-7-2008 23:00:	0 XC7879	Hella Good	No Doubt			
Z:\Audio\MP2\Mpeg3\} 31-7-2008 23:00:	0 XC7879	Hella Good	No Doubt	₹		
D:\Audio\MP2\Mpeg3\ 28-11-2000 03:17	: XC7881	The chinese wall	Philip Bailey			
Z:\Audio\MP2\Mpeg3\ 28-11-2000 03:17	: XC7881	The chinese wall	Philip Bailey	₹		
D:\Audio\MP2\Mpeg3\ 5-12-2000 08:23:	3 XC7883	Like a rolling stone	Rolling Stones			
Z:\Audio\MP2\Mpeg3\ 5-12-2000 08:23:	3 XC7883	Like a rolling stone	Rolling Stones	₹		
D:\Audio\MP2\Mpeg3\ 29-8-2008 14:46:	4 XC7885		Lasgo			
Z:\Audio\MP2\Mpeg3\} 29-8-2008 14:46:	4 XC7885		Lasgo	₹		
D:\Audio\MP2\Mpeg3\ 4-12-2000 12:21:	0 XC7886	Everything changes	Take That			
Z:\Audio\MP2\Mpeg3\} 4-12-2000 12:21:	0 XC7886	Everything changes	Take That	₹		
D:\Audio\MP2\Mpeg3\ 31-7-2008 23:00:	0 XC7889		Divided			
Z:\Audio\MP2\Mpeg3\} 31-7-2008 23:00:	0 XC7889		Divided	₹		
D:\Audio\MP2\Mpeg3\ 5-12-2000 12:52:	2 XC7898		Bobby Brown			
Z:\Audio\MP2\Mpeg3\ 5-12-2000 12:52:	2 XC7898		Bobby Brown	₹		
D:\Audio\MP2\Mpeq3\ 29-8-2008 14:46:	1 XC7902	More than a woman	Aaliyah			
23.981				12.047		•
				Aft	Toepasse	in

In the screenshot you can see the number of items in the lower left corner. In the *Delete* column you will see the items that are marked for deletion and at the bottom of the number. You can mark items individually, but you can also first make a selection with mouse or keyboard and mark them all at once with the *CTRL+M* hotkey. You can also select all items at once with the *CTRL+A* hotkey or mark *all from* the Activate *all* menu.



<u>History</u>

Here you can see from which day history is present in the database. You choose a certain date, *Management* will delete the history from before that date. AerOn Studio uses the history to create a Buma or SABAMreport. Do not delete the history until you have created the report.

<u>Playlist</u>

Contrary to the history you want to look back on later, keeping old playlists is of little use. AerOn Studio shows in a similar way from and to what date there are playlists. If you have exported to a distant date in the future with *Commercialplanner*, you can delete these playlists here. Furthermore, AerOn Studio offers the possibility to save playlists with an alternative name. These name playlists are visible separately.

Voice track

AerOn Studio automatically determines which voicetracks can be removed. For this purpose, all playlists are scrolled through first because they contain an entry for the voicetracks. It may therefore take some time before the voicetracks are visible. *Management* automatically marks the voicetracks that are no longer used in a playlist.

<u>Audio</u>

The delete function 'Audio' searches for all audio files that are in the local audio folders but do not appear in the music database.

The preview function (the speaker in the top toolbar) can be used as a check before you permanently remove them.

Copies

On systems with multiple audio folders and workstations with different settings, it may happen that certain (frequently used) items, for example news flashes, are re-recorded in a different folder. Normally, you do not have a direct view of this. When playing back an item, AerOn Studio searches for the file in the folders specified in *Global* \rightarrow *Audio Local Settings*. These folders are searched from top to bottom in the order you specified. The file found first will play AerOn Studio. It is also possible that you have re-recorded an old item with the extension .mp3 and saved it as .wav. In that case, you will have the same filename on the system twice, but with a different extension.

When you go to the 'Copies' tab, AerOn Studio searches all folders for duplicate files, in different folders or with a different extension. Management will automatically mark the files that will not normally be played by AerOn Studio for deletion.

You can use the preview function to check before you permanently remove them. After you have selected the files to be deleted, you can click 'Apply' to delete the hard disk copies.

Database

In the 'Database' tab, AerOn Studio investigates which tracks in the music database do not have an audio file in the local audio folders. For those items where no hard disk audio is present, AerOn Studio shows AudioID, title and artist. This is an efficient way to clean up the music database.

Attention! Please note that audio folders in *Global* \rightarrow *Audio Settings* are filled in correctly \rightarrow *locally.* If folders are missing, you may see a large number of tracks that should not actually be deleted.

<u>Artist</u>

Over time, it may happen that tracks of certain artists are removed from the system or that a spelling error in the name of an artist is corrected. This artist or misspelled name remains visible in the database (e.g. in *Databank editor* on the 'Track' tab). This function checks which artists are still in the database but of which no track is present anymore. On this tab there are also two buttons available to check and correct for erroneous artists in the artist database.

<u>Waveform</u>

On this tab you have the possibility to check all audio files at once and calculate the waveform. On PC's with a multicore processor all cores will be used.

When a track is opened in *Database Editor* or in another module, AerOn Studio will automatically calculate the waveform. If you add multiple tracks at once, it can be useful to have all waveforms calculated here at once in *Manage*.

27 Settings

Settings can be accessed via the Tools Settings menu \rightarrow .

AerOn Studio knows various settings such as the search paths for the harddisk audio or the criteria you fill in in *Database Editor for* the tracks. In this chapter we describe per category the settings you can make. Keep in mind that some changes can have major consequences. We therefore recommend that only one person (and one substitute) at the radio station has access to them.

The settings are divided into the categories '*Global*' (settings for all PCs in the network), '*Automation*' (settings that only apply to the automation and the OnAir PC on which you are viewing them), '*Local*' (settings that only apply to the PC on which you are viewing them) and '*User*' (settings that only apply to the logged in user).

At the bottom of the window you will see the 'Control' button. This button allows you to check your settings. Especially the folders you specify for harddisk audio and for example HTML templates will be checked for their existence.

🔅 Instellingen					×
Globaal			Naamgeving		
	Radionaam				
3					
_ <u>→</u>					
Algemeen	Huidige verbinding	PostgreSQL@127.0.0.1	:5434 - aeron_john_db		
	Nieuwe verbinding				
T II					
Criteria		65.65.70			V
12		206.0.0			V
	Voice track (detail)	dWhite			
Audio lokaal	Voice track (tegel)	102.102.102			v
	Track uit Verkenner (detail)	dWhite			▼ ····
	Track uit Verkenner (tegel)	102.102.102			v
Scan rechten	Golfvorm links	55.164.203			V
	Golfvorm rechts	16.108.145			▼
		Aut	eursrechten rapportag		
Radio	Auteursrechten vereniging	Buma Nederland			
	Organisatie				
	Soort rubriek				
	Rubriek Buma				
	Zendercode				
		Madilu		-	
	Gecomprimeera (zip)	Culture Data Dur			
		C: VAeron Data (Bum			
		EQ 4D	Databank editor		
	Start level	-50 UD			
	Linu level				
	Ungetal artiest				
	Publiceren	Artiest - Titel			
	Reschikhaar planner			×	
	Reachildear cobruiker			- -	
		Dulludia \#Oppomore			
	Opname formaat	vrii instelbaar			
	Opname bitrate				
	Opname samplerate	vrii instelbaar			
			Voice track		
	Opname formaat	vrii instelbaar			
	Opname bitrate				
	Opname samplerate	vrij instelbaar			
	Afbeelding			vt	
	Marge semi-vaste items				
Globaal	Standaard afbeelding			Arco	
	Monitor commercialafbeelding			C	
	Playlist automatisch volgen na				
Сокаа			Aeron installatie		
a colonitore					
Gebruiker			Controle	UK UK	Annueren

27.1 Global

The global settings apply to each PC and are applied when a PC logs on to the database. These settings can only be edited on a PC where in *Scan permissions* the location is set to *'Studio'*. Homeworkers usually work on a PC where the location in *Scan permissions* is set to *'Remote'*. They cannot edit these global settings.

27.1.1 General

In the general settings, which apply to all PCs in the network, you will find the following.

<u>Name</u>

Radioname Enter the name of the radio station here.

Location Fill in the place name of the radio station.

These fields are used in reports.

Database connection

Here you can see the database connection currently in use. You can choose another connection by selecting it from the list. Use the (...) button to select a new connection. After you have changed the connection, you must exit AerOn Studio. The new database connection will become active the next time you start AerOn Studio.

<u>Colours</u>

Background	Background color of among others <i>Playlist</i> and <i>Database browser</i> .
Active item	Active item in Playlist and Live assist.
Voice track (detail)	Colour of voicetracks in playlist in detail view.
Voice track (tile)	Colour of voicetracks when tiled. A darker colour for voicetracks is often desired in tile rendering.
Track from Explorer (detail)	Color of track dragged from Windows explorer. A track that is not in <i>Database browser</i> . Playlist in detail view.
Track from Explorer (tile)	Color of track dragged from Windows explorer. A track that is not in <i>Database browser</i> . Playlist in tile view.
Waveform left	Color of the left audio channel.
Waveform right	Color of the right audio channel.

Copyright reporting

In the Netherlands, radio stations are obliged to report the music played, jingles, etc. to Buma. Sabam is Buma's counterpart in Belgium. The fields under *Copyright reporting relate to* this. What you have to fill in in the first four fields is determined by Buma/Sabam.

Copyright Association	Buma Netherlands, Gramo Norway.
Organisation	Buma/Stemra/Sena/Sabam allocates a code for each temporary employment agency so that it is clear to Buma/Stemra/Sabam and Sena who the supplier of these data is. This code is unique per transmitter and is composed of 3 or 4 letters and/or numbers.

- *Type of heading* All monies received by Buma/Stemra/Sabam are matched by a code. By default, R (radio) or T (television) is assigned by Buma/Stemra/Sabam.
- Heading Buma Within the species section, Buma/Stemra/Sabam makes a subdivision for different sub-headings consisting of 2 letters. For example EN (Ether National), LT (Local Television) or NC (Non-national Commercial Radio). On the basis of this code Buma/Stemra/Sabam can inform the rightholder from which subgroup the music data originates. In combination with the station code, the data provided by you will be made unique.
- *Transmitter code* Because several channels (stations) may apply within a broadcasting organisation, there is a possibility to assign a unique designation per station, for example NPO station code: NL1, NL2, NL3.
- Period The period over which reporting takes place may vary from one week to one year. Buma/Sabam specifies this period. Most local radio stations are obliged to report one week per year.
- *Compressed* Buma reporting creates large files that usually do not fit on a floppy disk. By checking this option, a further processing step takes place after the report, compressing the file with the same name into the ZIP format.
- *Export folder* This will specify the folder where the report is to be placed.

Database editor

Number

rate

samplerate

- Start level AerOn Studio automatically determines the 'fade-in start' point for new tracks based on the level in the file. Enter the desired level here.
- *End level* AerOn Studio automatically determines the 'next' point for new tracks based on the level in the file. Enter the desired level here.
- PublishNew tracks in the database will be published as you set here. Use
the <#Publication> tag in your template.
- Available New tracks in the database become available for Formatplanner.
- planner
 Available user New tracks in the database will become available in Database browser and visible to all users.
- *Hourly track* New tracks in the database get this number.
- *Artist Hourly* New artists in the database get this hour.
- *Recording* You can set the recording format to 'freely selectable' or indicate in which file format new recordings should be made.
- *Recording bit* If the recording format is set, you can also set the bit rate.
- *Recording* The samplerate is 'freely adjustable', 44100 Hz or 48000 Hz.

Voice track

Recording format	You can set the recording format to 'freely selectable' or indicate in which file format voice tracks should be recorded.
Recording bit rate	If the recording format is set, you can also set the bit rate.
Recording samplerate	The samplerate is 'freely adjustable', 44100 Hz or 48000 Hz.
Image	Picture for tile display in the playlist.

<u>Extra</u>

Audio level Here you set the general audio reference level on which Automation, Database editor, Mix editor and Jingle players play. For each track a correction gain is applied so that all tracks play at the set level reference.

By default it is set to RMS -18 dB.

In case you offer the output of AerOn Studio directly on Orban soundproccesing, -9 dB Peak is recommended.

<u>Tip:</u> When this setting is set to peak, the human ear perceives the difference in volume between the tracks.

Margin semifixed items Here you enter a time in minutes and seconds, which indicates how much earlier a semi-fixed item may start than the set time. This allows the news, for example, to start a maximum of 1 minute before the whole hour.

Standard image If there are no images in the database for a track, the playlist (in tile view) and the monitor screen will show this default image.

Commercial Here you set which image for commercials will be shown on the monitor screen.

Skin Here you can change the AerOn Studio-skin. Disable this option for classic Windows playback.

Playlist follow
automatically
afterWith this time-out value you set after how much time (in hours and
minutes) the playlist follows the active item of the automation. If you
do not work in the playlist for longer than the set timeout, the active
item is tracked at every track change. If you set this timeout to
00:00, the active item is never tracked.

Importmap Here you can specify in which folder the audio files will be placed when importing tracks. If you leave this option empty, the user can set a folder in the import window.

AerOn installation	on
Software folder	This is the folder where AerOn Studio is installed. With the button 'Explorer' you can open this folder.
Data folder	This is the folder where AerOn Studio's data is stored. With the button 'Explorer' you can open this folder.
Logs folder	This is the folder where AerOn Studio stores the log files. You can open this folder with the "Explorer" button.
	The Logs folder is configurable in the local settings.
	Preferences \rightarrow Local \rightarrow General \rightarrow Logs folder.
Dalet	
Database connection	Enter the connection to Dalet's database here.
Radio ID	The Radio ID is important when exporting playlists to Dalet's database.
Visual Radio	
Active	Activate the link with the Visual Radio server
Host	Host name or IP address
Port	Standard port is 8082
Folder with images	The folder in which AerOn Studio places images that can then be used by the Visual Radio system.
Video playout	This is where you set the brand: - Multicam - 1080dots
<u>Automix</u>	
Duck level	The level at which it is induced. By default this is -6 db.
Position	The position where the automix is placed. - Na outro - Start track - Against intro
Duck speed	This determines the duckspeed (fade duration) of the automix. This is standard at 3s / 10 db.

27.1.2 Criteria

You can fill in the criteria for *Formatplanner* on this tab. By default, the settings are filled in by Broadcast Partners according to a system that is used by many radio stations. This allows each radio station to use Broadcast Partners' music database, which is constantly being expanded by various AerOn Studio users. Although you are completely free to use the criteria, we recommend that you maintain the default settings and extend them if necessary.

In the category 'Language' you will find only 6 languages. You can easily specify a number of additional languages that are not listed in the list. However, you should realise that most radio stations in *Formatplanner* will never make a selection on, for example, the language Polish. Tracks that are given excessive criteria are less likely to be selected by *Formatplanner*.

🔅 Instellingen				×
Globaal		Inste	elling criterium	
Algemeen	₩ Soort	幹 幹 Extra 2 Extra 3 E	🕈 🌱 📬 xtra 4 Extra 5 Taal	
*	Naam <mark>Soort</mark>	Crit	erium Soort	
Criteria	Weergave	1 Tip 2 Hit	14 Tijdsein 15 Info	
1	 Standaard 	3 Current	16 Effect	
Audio lokaal	Tegel	4 Recurrent	17 Nieuws	
	*	5 Golden Oldie 6 Oldie	18	
Scan rechten	Kleur	7 Antiek	20	
.		8 Redame	21	
Radio		9 Promo	22	
		11 Pingel	24	
		12 FX / Bedje	25	
		13 Neuwstune		
Globaal				
Automatisering				
Lokaal				
👰 Gebruiker			Controle Toepassen OK A	nnuleren

You can enter and modify the names of criteria yourself. With the first criterion (Song type) you also have the possibility to set a color for all 25 species. AerOn Studio uses this color in the playlist for the title and artist, so you can quickly see the song type of a track.

Song type	<u>Extra</u>	Target group	Language
Tip	Рор	15 - 25 years	Dutch
Hit	Dance	25 - 30 years	English
Current	Rock	31 - 40 years	German
Recurrent	Hard Rock	41 - 55 years	French
Golden Oldie	House	56 - 99 years	Romanesque
Oldie	Classic		Instrumental
Antiques	Dance Classics		
Advertising	Rhythm & Blues		
Promo	Reggae	A-rotation	
Jingle	Love Song	B-rotation	
Pingel / Leader	Soft Classic	C rotation	
FX / Cot	Song of life	D-rotation	
Nieuwstune	Country		
Tijdsin	Christmas		
	Carnival		
	Soft / Easy		
	Rock 'n' Roll		

27.1.3 Audio local

🍄 Instellingen		×
Globaal	Lokale audio mappen	
	Мар	Aantal
3	🕌 D:\Audio	11.847
Algemeen	🗼 Z: \Audio	16.563
Criteria		
Nudio lokaal		
Scan rechten		
Radio		
		28.410
	+ +	Þ
		Zoektijd: 4,0 sec
🥖 Globaal	Map voice tracks C:\project\PC-Radio\VT	
Automatisering		
Lokaal		
Gebruiker	Controle	Toepassen OK Annuleren

Local audio folders Here you specify in which folders AerOn Studio should search for the audio files you use in automation. Subfolders will be searched automatically, you do not need to set them here. The maximum number of folders you can specify is 99. AerOn Studio searches the folders from top to bottom. So the top audio folder has the highest priority. You can use the blue arrow keys to move folders up or down. These folders must be set on every PC.

<u>Tip:</u> By dragging and dropping audio folders from Windows Explorer, you can quickly and easily set up the local audio folders.

Map voiceThis is the folder where the recorded voice tracks are stored bytracksAerOn Studio.

At search time you can see how quickly AerOn Studio can find all audio files. While searching for all audio files in all local audio folders, AerOn Studio checks each file if it is an audio file and puts the location of each audio file in the file



cache. The total time required for this is displayed in search time. A normal value is \pm 10,000 files per second if files are on a local HDD.

Search time

27.1.4 Scan rights

As described in the chapter '*Present scanning*', it is important for AerOn Studio to know whether the audio file of each item in the database is actually present. This is recorded (invisibly) and automatically in the music database. Because not all computers always have access to all audio files, it is important for AerOn Studio to know which computers have rescan rights. This is necessary to keep a correct record of the invisible field *Presence*. Computers in the studio network need scan rights.

For example, *Formatplanner* may only plan music tracks that are present on the On Air computer. *Database browser* also only displays the files present by default.

Computers connected to the local network of the radio station therefore have direct access to all audio folders in the local network. These computers must have *Scan rights*. For these computers, *Location* must be set to '*Studio*'.

Computers of homeworkers are not directly connected to the local network of the radio station, because they are connected to the radio network via VPN over the Internet. Normally, these computers do not receive *Scan rights*. With these computers, *Location* must be set to '*Remote*'.

Suppose a home computer with *Scan permissions* does not have access to all audio files. After the Home *Scan* perform and refresh *Database browser*, only those tracks will be displayed whose audio files are *present* on disk at home. This would cause confusion if the *Database browser* is then opened in the studio. Therefore, home computers should only have the *Scan rights* if all audio files of the tracks present in the database are locally (at home) on the hard disk. Laptop computers are also not always connected to the local network of the radio station and therefore do not always or not have access to all audio folders.

<u>Tip:</u> If suddenly tracks in the studio are 'Gone' in the database browser, perform a *scan* and then refresh the *database browser*.

On a computer without Scan permissions, newly added database entries will not immediately be visible in *Database browser*, unless the audio files have been uploaded to the studio via the *Synchronization audio files* module.

Settings

Manual AerOn Studio



Computer name	The name of the computer to set Scan permissions for.
Key	Key number of the inserted USB dongle.
Hardwareid	The Hardware ID of the computer in question.
Location	Indicate where this computer is located. In the studio (do <i>scan rights</i>) or remote (at home, no <i>scan rights</i>).
Last entry	Here is shown when the computer last logged in to the database.
Description	A random description of the computer. This is useful if the computer name does not clearly indicate which computer it is.

Every computer that connects to the database will automatically be added to the scan permissions list with location '*Remote*' without *Scan permissions*. The AerOn Studio system administrator will then need to assign the *Scan permissions* and set the *location to* '*Studio*'.

When installing a new computer on the local network, the Scan must be reset straight away.

See also chapter 'Present scanning'.

27.1.5 Radio

Multiple automations can run simultaneously on one database, each with its own unique playlist per Radio ID. You can add, set and name the Radio IDs here.

In the local settings, you can then assign a PC to a specific Radio ID. After restarting AerOn Studio, that Radio ID will be loaded into AerOn Studio.

27.2 Automation

The settings on this tab relate to the operation of the automation. These settings can only be adjusted on a PC with a playout license, AerOn *Playout*, AerOn *Slave studio*, AerOn *Event* or *AerOn Web*. These settings are, with a few exceptions, unique per broadcast PC.

External audio playback on this PC

This option is intended for a configuration with more than one OnAir PC. A number of external sources, such as audio cards, are linked to a physical PC. In a master/slave configuration, the nonstop server is supposed to play all external sources. On the nonstop server you check this option so that 'this' PC plays the external sources. On the other OnAir PC's in each studio, usually with *Slave studio* license, the external sources are not configurable. External sources are only adjustable on an OnAir PC. Internet streams can be played and previewed on all PC's.

Time settings

Fade moment for floating items for fixed start or filled out block

This option sets the moment when AerOn Studio starts fading out the active unplayable item or the external audio just before the start of a filled out block or item with semi-fixed or fixed start time. Use this setting in combination with the following setting for the fadeout duration.

Fade out duration floating items at start of fixed start or filled out block

With this setting you specify the duration of the fadeout of the active item or the external audio for the start of a filled out block or item with fixed start time. Use this setting in combination with the previous setting.
Settings

Manual AerOn Studio

斡 Instellingen			×
Automatisering	Bij configuraties met meerdere OnAir systemen verzorgt één PC het afspelen van extern audio		
	Extern audio afspelen op deze PC Extern audio wordt afgespeeld op: TNZ016-001 (Deze compute		
3	Tijd instellingen		
Algemeen	HD Extern		
	Fade moment bij glijdende items voor vast begin of uitvullend blok 00:02.0		
Export HTML / XML /	Fadeout duur glijdende items bij start van vast begin of uitvullend blok 00:05.0		
TEKSL	Opties		
6	Automatisering starten bij opstarten AerOn Activeer de Automationlog		
RDS	Live assist automatisch uitschakelen bij het starten van een uitvulblok of vast item		
:000	Nonstop altiid spelen in Cart A	dSSIST	
802	Uitvulblok altijd spelen in Cart A		
Extern audio DirectSound	🗹 Functietoetsen F1 t/m F4 voor Live assist gebruiken		
	Toon labels Semi-Vast margetijd		
111	Update fadecurve in playlist bij eerder stoppen in Live assist		
Extern audio ASIO	Extern audio		
111	Geforceerd item Flex FM Stream		
Extern audio stream	Activeren bij stoppen automatisering Studio 1		
	Extern audio maximaal verlengen 0		
	Export streamtitle		
RME Extern & matrix	URL	Actief	A
🧖 Globaal	http://172.16.101.26:5025/rc.cgi?E=StreamTitle='<#Publication>	₹.	
	http://172.16.101.26:8005/admin.cgi?pass=changeme&mode=updinfo&song=<#Publication>	⊻	
Automatisering	http://172.16.101.26:8007/admin.cgi?pass=testing&mode=updinfo&song=<#Publication>	≤	
	http://user:pass@172.16.101.26:8000/admin/metadata.xsl?mount=%2FAeronlive&mode=updinfo&charset	=UT 🗹	
Lokaal	http://source:hackme@172.16.101.26:8002/admin/metadata.xsl?mount=%2FAeronlive&mode=updinfo&cha	irse 🗹	
	http://Aeron:welkom123@172.16.17.61:8002/admin/metadata.xsl?mount=%2FJohnTNZ016&mode=updinfo	&d 🗹	
🚪 Gebruiker	Controle Toepassen OK	Annulere	n

Options

Starting automation at startup AerOn If you check this option, automation will start automatically as soon as you start AerOn Studio. After an unexpected power outage, this ensures that the automation will start up again as soon as possible without anyone intervening.

Automatically disable live assist when starting an unfill block or fixed item	It sometimes happens that the DJ / presenter forgets to turn off <i>Live assist</i> at the start of the drop-down block. If there is no live broadcast after the turn of the hour and the DJ / presenter is no longer present, it becomes unexpectedly silent on air. This option prevents this. The DJ / presenter must then reactivate the <i>Live Assist</i> function in the advertising block after the hour change.
Studio release on automatic disabling of Live assist	This option is applicable in a master/slave configuration. The completed commercial block is automatically started on the non- stop server after automatically disabling <i>Live assist</i> (if ticked) and automatically releasing the studio. This option applies to all broadcast PC's
Nonstop always play in Cart A	By default this option is turned on and after the transition from live to nonstop the automation will switch back to Cart A as soon as possible. If this option is unchecked, the automation can continue

Fill out block If this option is activated, automation will always start the fill block in Cart A, even if it iscued in Cart B.

to play on Cart B if that was the last active cart.

Function keys F1 to F4 for Using live assist	Allows you to use the function keys F1 to F4 to control <i>Live assist</i> . This option can be particularly useful for laptop users. F1 = Stop Cart A; F2 = Start Cart A; F3 = Stop Cart B; F4 = Start Cart B.
Show labels Semi-Fixed	Indicators of the Semi-fixed margin time and of the calculated start time of <i>Filled out</i> or <i>Semi-fixed</i> are displayed below the clocks.
margin time	By default, <i>Semi-fixed</i> is recalculated when starting a track. The label that displays the calculated time always shows the new start time of the filled out block or <i>Semi-fixed</i> .
	The Semi-fixed margin time is the earliest time at which the filled out block or Semi-fixed can start. This is the whole hour minus the margin Semi-fixed and if present also minus the length of the filled out block.
	<u>Tip</u> : By starting an item shortly after the <i>Semi-fixed margin time has been</i> exceeded, you can start a filled out block or Semi-fixed earlier if necessary.
Update fade curve in playlist when quitting earlier in Live assist	If this option is checked then the fade curve of the track is stored in the playlist as it was played in <i>Live assist</i> . When previewing or later listening back to the mix, the track will be played the way it was played. The part at the end of the track that hasn't been played unearthly is not audible in the mix afterwards.
Activate the Automationlog	The Automationlog can be activated with this option. There is then extensive logging of what the automation performs.
Autostart Fixed or Semi-Fixed in Live assist	If necessary, this logging can be used by Broadcast Partners to identify problems. The log files are stored by default in the Data folder in a subfolder Logs \ Computer name. The folder in which log files are stored can be set in the local settings. If you check this option, a Fixed or Semi-fixed track in Live assist will be started automatically when the start time is reached. The previous track is automatically faded out.
External audio Forced item	Clicking the 'Add External Audio' menu option in the <i>Automation menu</i> will add the external source set here to the playlist after the currently unplayable item.
Activate when automation stops	The external audio source set here is switched on when you stop the automation.
Extend external audio maximum	This option is only relevant for radios working with editions. On the edit-slave stations you indicate with this setting how many minutes of external audio can be extended while waiting for a pulse to start a commercial block. As soon as the start time of a commercial block is exceeded, this option is activated. In the extension, the clock will count down again, but with yellow digits instead of green. As soon as a pulse is received, the commercial block will start.

Export streamtitle (Publish to Icecast and SHOUTcast, among others)

During a track change, information from the track that has not been started can be included in an audio stream. A typical application to transmit this information is to a Barix Instreamer, Icecast server or SHOUTcast server. A maximum of 10 export urls can be entered. You can activate these individually up to a maximum of all 10 at the same time. In each URL you can include the tags for Artist, Title and Publish.

Example Barix Instreamer:

http://[BARIX_INSTREAMER_URL]/rc.cgi?E=StreamTitle='<#Publication>

Example SHOUTcast version 1.x:

http://[SHOUTCAST_V1_URL]/admin.cgi?pass=[YOUR_PASSWORD]&mode=updinfo &song=<#Publication>

Example SHOUTcast version 2.x:

http://[SHOUTCAST_V2_URL]/admin.cgi?sid=[S_ID]&pass=[YOUR_PASSWORD]&mo de=updinfo&song=Now%20OnAir:%20<#Artist> %20-%20<#Title>

Example Icecast:

http://%20-%20T<#Title>[YOUR_USERNAME]:[YOUR_PASSWORD]@[ICE_CAST_URL]/admin/ metadata?mount=%2F[MOUNT_POINT_NAME]&mode=updinfo&song=<#Artist

Example TuneIn:

http://air.radiotime.com/Playing.ashx?partnerId=[YOUR_ID]&partnerKey=[YOUR_KEY] &id=[YOUR_STATION_ID]&title=<#Title>&artist=<#Artist>

Replace the block brackets including the text in between with the correct data.

27.2.1 Export HTML / XML / Text

On this tab you can set the templates for publishing artist and title information to HTML, XML and text files.

🍄 Instellingen						×
Automatisering						
		2	ijablone	n		
I II I II I II III III III III III II	Bronsjabloon			Doelbestand	Act	ief 🔺
Algemeen		nl.txt		%DATA%\Export\Target\Broadcast Partners.xm		1
	%DATA%\Export\Source\St	reamMetadataNew.txt		%DATA%\Export\Target\Web\StreamMetadata	vev 🔳	
4						
Export HTML / XML /		mpleXML.txt		%DATA%\Export\Target\SimpleXML.xml		
TEKSL						
3 3	%DATA%\Export\Source\Bi	g <mark>Picture.txt</mark>		%DATA%\Export\Target\BigPicture.htm		
RDS	%DATA%\Export\Source\Ne					
	%DATA%\Export\Source\Co			%DATA%\Export\Target\Compact.htm		
111		mple.txt		%DATA%\Export\Target\Simple.htm		
Extern audio		deArtist.txt		%DATA%\Export\Target\TitleArtist.htm		
DirectSound	%DATA%\Export\Source\We	ewStyle3.txt		%DATA%\Export\Target\NewStyle3.htm		b .
111						
808	%DATA%\Export\Source\Pla	aylistVandaag.txt		%DATA%\Export\Target\PlaylistVandaag.htm		
Extern audio ASIO	%DATA%\Export\Source\O	banOpticodec.txt		%DATA%\Export\Target\OrbanOpticodec.txt) .
111 🗸	%DATA%\Export\Source\O	rbanOpticodecXml.txt		%DATA%\Export\Target\OrbanOpticodec.xml		
	%DATA%\Export\Source\Pu	iblication.txt		%DATA%\Export\Target\Publication.txt		•
🧖 Globaal	++- <					
				Verkenner Be <u>kij</u> ken	Bewe	
Automatisering					1	
– 1	Uitvoeren bij actief sjabloon	"%DATA%\Export\Source\Upload.b	at"			
Lokaal		%DATA%\HTML\Default.jpg				
Gebruiker			C	ontrole Toepassen OK	Annule	eren

- Source template This is the basic template used for export. The sample templates and associated files are in the Html directory.
- *Target file* Here you specify the full filename of the file to be generated.
- Active If this option is active, AerOn Studio automatically refreshes the target file when a new track starts.
- *Execute with active template* Here you specify a command line for a script that AerOn Studio will always run after an update of the export. This only works for templates that are marked as active (see option above). For example, you can start an ftp command using a script.
- Standard image When using images in the templates, it is advisable to specify a standard image. This will be displayed if there is no image of track, disc or artist in the database.

The buttons are used for the following actions:

- *Explorer* Opens the source directory of the template in Windows explorer. A submenu can also be used to open the target folder.
- *View* Opens the template in Internet Explorer so you can see the result.
- *Edit* Opens the template in Notepad to edit the source code.

How to create the export templates and use them for publication can be read in the relevant chapter (Chapter 24: Export HTML, XML and text).

27.2.2	RDS	
	On this tab yo	ou configure the communication with the Radix RDS software.
	🌣 Instellingen	×
	Automatisering	Server
		Actuele RDS server Niet verbonden
	Algemeen	Host 127,0,0,1
	_ <mark>≤h</mark>	Poort 8331
	Export HTML / XML / Tekst	✔ Actief
	3	On air
	RDS	Program service
	111	Radio text
	Extern audio	Traffic Program
	DirectSound	Traffic Announcement
	111	

Fill in 'Host' and 'Gate' and set the connection to 'Active'. After you press 'Apply', the connection will be established. In the lower part of the tab under *On air* you will then see the most relevant data. The Radix RDS server must first be started before you can activate the RDS client in AerOn Studio.

Tip: The Radix RDS Program Service text is visible in the status bar of AerOn Studio.

27.2.3 External audio

111

111

Automatise

ebruike

The external sources you configure here can be programmed in the daily formats of *Formatplanner* or manually added to a playlist. You can then choose from a list with all the names that are set here. Broadcast Partners recommends the RME audio cards for the transmission of external sources. RME audio cards have a matrix mixer that allows you to set a separate mixer for each output.

External audio via DirectSound

Prerequisite for proper functioning is that input and output are connected and set to the same audio card. There is a delay of about 700 msec between input and output. Do not use this for RME brand audio cards. For RME audio cards, use the option *External audio via RME mixer*. This form of *External audio* offers silence detection. Silent detection can be deactivated by entering 00:00. The threshold for silence detection is -30 dB.



External audio via ASIO

Prerequisite for proper functioning is that the set input and output are connected and set on the same audio card. This option can be used with ASIO compatible audio cards.

External audio via stream

You can pass various types of http (internet) streams. AerOn Studio supports AAC, mp3 and OggVorbis. Some streams are made available with a listen.pls or .asx file. It depends on the provider whether you can use them. With these external sources, you depend on the quality of your own network and the Internet for uninterrupted broadcasting. On Thesyscon's website (http://www.thesycon.de/eng/free_download.shtml) you will find documentation about network delays and a program to check them.

Per stream there is a silence detection with adjustable time-out. If you set the time-out to 00:00, the silence detection will be disabled for that particular stream. The threshold for silence detection is -30 dB.

External audio via RME mixer

With this form of *External Audio*, an audio card of the brand RME must be installed. Prerequisite for proper functioning is that the set input and output are both connected and set on the same RME audio card. RME audio cards with their built-in matrix mixer support routing and fading of audio inputs to one or more outputs. The external audio or external feed program can thus be passed directly to an output, eliminating the need for an additional fader channel on the mixer.

Driver ASIO Fire	face US	8								
			Ext	ern audio v	ia RME mixer					
Ingang		Uitgang		Naam	Publiceren	Afbeelding	Gain	(dB)	Test	Test
AESL (1)		AES L (1)		STUDIO 1		2				Out
Analog 3 (1)		AESL (1)		STUDIO 2						Out
Analog 5 (1)		AESL (1)		Radio L1						Out
Analog 7 (1)		AES L (1)		Lokatie set		Ent				Out
(Geen >		Geena	7	1	1		0		In	Out

RME Matrix mixer (Studio Switch)

You can use the RME Matrix mixer for:

- Switching your mixer off-line.
- Switching studios to a nonstop server.

	RME Matrix mixer			
Functie	Fader	Bron	Gain	(dB)
Cart-A	Analog 1 (1)	Afspeelkanaal		
Cart-B	Analog 3 (1)	Afspeelkanaal		÷
Studio 1	AES L (1)	Ingang		÷
Studio 2	Analog 3 (1)	Ingang		
Studio 3	Analog 5 (1)	Ingang		٢
Uitgang	AES L (1)			~

Off-line switching of your mixer

You have to do the following: connect the PGM output of the mixer to one of the available inputs of the RME audio card. Connect an output of the RME audio card to the transmitting line. Configure the *RME Matrix mixer* as shown in the example.

The circuit is operated when activating/deactivating *Live assist*. When *Live assist* is deactivated (non-stop), the mixer is switched off-line.

Switching studios to a non-stop server

You have to do the following: Connect the PGM output of the mixer in each studio to one of the available inputs of the RME audio card. AerOn Studio can connect up to three studios. Connect one output of the RME audio card to the broadcast line. Configure the *RME Matrix mixer* as shown in the example.

When a studio is requested, the nonstop server switches that studio online. When a studio is released, the nonstop server switches itself on and takes over the broadcast.

External audio via D&R Axum

For this form of external audio you need a D&R Axum digital mixer.

	Ex	tern audio via D&	R Axum	
Ingang	Naam	Publiceren	Afbeelding	Stilte Det Test Test
1				01:00 🗘 In Out
2				01:00 🗘 In Out
3				01:00 🗘 In Out
4				01:00 🗘 In Out

27.3 Local

Here you will find settings that you specify separately for each PC in the network. These settings are unique for each PC.

27.3.1 General

斡 Instellingen			×
Lokaal		Algemeen	
	Radio ID		-
⇒	Studio		-
Alcomoon	Aeron full screen	×	
Algemeen	Jingles full screen		
	- Automonitor full screen		
Audio	Plavlist full screen		
Hadio	Interne web browser		
<u></u>		ShuttlePro	
Audio logger	Status	aanwezig	
Addio logger		Tipro toetsenbord	
=	Status	aanwezig: Tipro MID Keyboard	
Airence		D&R MambaNet	
Allence	Status	OK (Address = 00000027)	
_	Driver versie	MambaNet Library V1.9 - Dec 6 2010 (14:46:17) - Broadcast Partners	
Airlite (Webstation	Aeron UI adres		
Ainite / Webstauon		Externe audio editor	
5	Gebruik	opgegeven audio editor	
Chudan	Audio editor	C:\Program Files (x86)\Audacity\audacity.exe	•••
Studer	Commando		
DHD		Voice track	
	VST	C:\Aeron PostgreSQL\Vst\Classic Compressor.dll	
DHD		PostgreSQL	
	Map met hulpprogramma's	C:\Program Files\PostgreSQL\12\bin	
<i>(</i>	pg_dump parameters	-F c -O -T automation	
Globaal		Log bestanden	
	Logs map	C:\Aeron Data - PostgreSQL\Logs\TNZ016-001	
Automatisering			
B			
Lokaal			
🤱 Gebruiker		Controle Toepassen OK	Annuleren

<u>General</u> Radio ID	In configurations with several radio stations on one database, enter the Radio ID. When AerOn Studio starts it will log on to this Radio ID.
Studio	For configurations with multiple OnAir PCs, enter the studio number per PC. 0 = non-stop server; 1 = studio 1; 2 = studio 2; 3 = studio 3.
AerOn Studio full screen	With this option active, the top bar of the application will be made invisible and AerOn Studio will go over the Windows taskbar at the bottom. This gives you more space to display the windows in AerOn Studio.
Jingles full screen	This option can be used in a configuration with two or more monitors. If the Windows desktop has been extended to multiple screens, you can put <i>Jingle players</i> on the second or third screen by activating it.

Auto monitor full screen	This option allows you to put the monitor on a second or third screen in the same way as for <i>Jingle players</i> .
Playlist full screen	This option makes it possible to put the playlist on a second or third screen in the same way as for <i>Jingle players</i> .
Internal web browser	The result of the 'Internet Search' button and the HTML export of the playlist will be displayed in a browser window in AerOn Studio instead of the web browser installed in Windows.
ShuttlePro Status	The ShuttlePro control console is connected to a free USB port on the PC. Here you can see the status of the ShuttlePro. Read chapter 14.1 for more information about the ShuttlePro.
Tipro keyboard Status	For <i>Jingle players</i> a keyboard is available for direct access to the jingles. First you need to connect the keyboard to a free USB connection. Then you need to install the drivers. Read chapter 13.2 for more information about the Tipro keyboard.
D&R MambaNet Status	To use the D&R AXUM or AXITE mixer with AerOn Studio, install WinPCap and a DLL for communication. The status of the connection is shown here.
Driver version	Version of the driver for communication with the D&R AXUM or AXITE.
Aeron UI address	Broadcast Partners has developed a special control module for the D&R AXUM mixer. Here you can see if a module is present or set the address of the module you are using.
External audio editor	From the <i>Edit menu</i> and various menus, an external editor can be used to edit audio files.
Use	Here you set in which application you want to start. Setting options:
	 According to extension file type Specified audio editor
	This allows you to determine whether to launch an application linked to the file extension in Windows or to open the specified audio editor.
Audio editor Command	Enter the full path to the .exe file. Depending on the editor used, sometimes a command is needed. The two characters %1 are replaced by the name of the corresponding audio file when calling the external audio editor. Usually the command "%1" (including the double quotes) suffices.
Voice track VST	A VST plugin can be set here. The VST plugin can be configured in <i>Mix editor</i> via the green/red button in the voicetrack track.

PostgreSQL	In order to backup the database, AerOn Studio needs to know where to find the PostgreSQL tools.						
Folder with tools	The path to the "Bin" folder of Postgres containing the Postgres tools to back up your database.						
	For a PostgreSQL version 10 installation this is C:\Program Files\PostgreSQL\10\bin.						
	If you also want to be able to make a database backup on a workstation, you must also install the PostgreSQL tools there. This can be done using the PostgreSQL installer where you can indicate that you only want to install the command-line tools.						
Pg_dump parameters	 By default, this is filled in as follows: -F c -O -T automation -f i.c.m. C determines the format of export -O stipulates that the owner data will not be exported. -T ensures in this case that the table automation is excluded from export. 						
Logs folder	These parameters can be adjusted as needed. Here you can set the folder in which log files of the Automationlog and the error log Aeron.el are saved.						
	The folder you set therein is automatically created by AerOn, a folder with the computer name in which the log files are placed. For users with multiple systems, this offers the possibility to store log files in a central environment.						

27.3.2 Audio

On this tab you specify the settings for inputs and outputs of sound cards.

Output Routing

The 'Output Routing' setting depends on the number of channels at your disposal. AerOn Studio supports up to 32 stereo channels. For each function you specify to which channel (device) the audio should be routed.

Live A / Car	The channel you assign to this will be used during live broadcasts for the <i>Live assist</i> Cart-A player. AerOn Studio also uses this output during non-stop broadcasts.
Live B	The channel you assign to this is used during live broadcasts for the <i>Live assist</i> Cart-B player. Depending on the automation settings, AerOn Studio also uses this output during non-stop broadcasts.
Commercials	If you assign this channel, the commercials on this channel will be played. If you do not enter anything here, the commercials will be played on the Live A and B channels on a regular basis. This option is intended for edition systems.
	The Condension along the Condension we to the enderted shares of

Jingle A... D The jingles you play in a jingle player go to the selected channel.

VT 1 ... 4 The audio from *Mix editor* comes on the channel you select here. These VT 1 through 4 each correspond to a track in *Mix Editor*. The audio from that track will be played on the channel you select here. Normally you will set the same channel for each track. This option is meant for recording voicetracks by fader registration via the Axum. If you don't fill in one or more of the VT-channels, AerOn Studio will use the channels that PFL 1 ... 2.

PFL 1 ... 2The audio from Database Editor and Pre-Listening will be on the
channel you select here. The audio is played over PFL 1 by default.
The audio is played on the PFL 2 channel if the PFL 1 channel is in
use in, for example, Live Assist with a corresponding device setting.

🔅 Instellingen						×	
Lokaal		Output routering		Output volume			
~	Naam	Apparaat		Apparaat	Volume	▲	
	Live A / Auto	1: Livewire Out 01 (AXIA IP-Driver (WDM)		Livewire Out 01 (AXIA IP-Driver (WDM))			
Audio	Live B	2: Livewire Out 02 (AXIA IP-Driver (WDM)		Livewire Out 02 (AXIA IP-Driver (WDM))			
	Commercials	Standaard via Live A, B of Auto		Livewire Out 03 (AXIA IP-Driver (WDM))			
<u></u>	Jingle A / E	3: Livewire Out 03 (AXIA IP-Driver (WDM)		Livewire Out 04 (AXIA IP-Driver (WDM))			
Audio logger	Jingle B / F	4: Livewire Out 04 (AXIA IP-Driver (WDM)		Livewire Out 05 (AXIA IP-Driver (WDM))			
Audio loggel	Jingle C / G	5: Livewire Out 05 (AXIA IP-Driver (WDM)		Livewire Out 06 (AXIA IP-Driver (WDM))			
_	Jingle D / H	6: Livewire Out 06 (AXIA IP-Driver (WDM)		Livewire Out 07 (AXIA IP-Driver (WDM))			
_		7: Livewire Out 07 (AXIA IP-Driver (WDM)		Livewire Out 08 (AXIA IP-Driver (WDM))			
Airence		7: Livewire Out 07 (AXIA IP-Driver (WDM)		Livewire Out 09 (AXIA IP-Driver (WDM))			
		7: Livewire Out 07 (AXIA IP-Driver (WDM)		Livewire Out 10 (AXIA IP-Driver (WDM))			
		7: Livewire Out 07 (AXIA IP-Driver (WDM)		Livewire Out 11 (AXIA IP-Driver (WDM))			
Airlite	PFL 1	7: Livewire Out 07 (AXIA IP-Driver (WDM)		Livewire Out 12 (AXIA IP-Driver (WDM))			
	PFL 2			Livewire Out 13 (AXIA IP-Driver (WDM))			
	Jingle B / F 4: Livewire Out 04 (AXIA IP-Driver (WDM)) Livewire Out 05 (AXIA IP-Driver (WDM)) 0 Jingle C / G 5: Livewire Out 05 (AXIA IP-Driver (WDM)) Livewire Out 06 (AXIA IP-Driver (WDM)) 0 Jingle D / H 6: Livewire Out 06 (AXIA IP-Driver (WDM)) Livewire Out 07 (AXIA IP-Driver (WDM)) 0 Jingle D / H 6: Livewire Out 07 (AXIA IP-Driver (WDM)) Livewire Out 07 (AXIA IP-Driver (WDM)) 0 VT 1 7: Livewire Out 07 (AXIA IP-Driver (WDM)) Livewire Out 09 (AXIA IP-Driver (WDM)) 0 VT 2 7: Livewire Out 07 (AXIA IP-Driver (WDM)) Livewire Out 10 (AXIA IP-Driver (WDM)) 0 VT 4 7: Livewire Out 07 (AXIA IP-Driver (WDM)) Livewire Out 13 (AXIA IP-Driver (WDM)) 0 VT 4 7: Livewire Out 07 (AXIA IP-Driver (WDM)) Livewire Out 13 (AXIA IP-Driver (WDM)) 0 PHD PHC 1 7: Livewire Out 07 (AXIA IP-Driver (WDM)) 0 0 0 Livewire In 01 (AXIA IP-Driver (WDM)) Livewire Out 13 (AXIA IP-Driver (WDM)) 0						
Studer	Input alias en gain Apparaat Alias Gain						
	Apparaat		Alias		Gain	1	
DHD	Livewire In 01	(AXIA IP-Driver (WDM))					
DHD	Livewire In 02	(AXIA IP-Driver (WDM))					
	Livewire In 03	(AXIA IP-Driver (WDM))					
ΔR	Livewire In 04	(AXIA IP-Driver (WDM))					
GatesAir	Livewire In 05	(AXIA IP-Driver (WDM))					
Guteshi	Livewire In 06	(AXIA IP-Driver (WDM))					
	Livewire In 07	(AXIA IP-Driver (WDM))					
🧖 Globaal	Livewire In 08	(AXIA IP-Driver (WDM))					
	Livewire In 09	(AXIA IP-Driver (WDM))					
N	Livewire In 10	(AXIA IP-Driver (WDM))					
Automatisering	Livewire In 11	(AXIA IP-Driver (WDM))					
-	Livewire In 12	(AXIA IP-Driver (WDM))					
Lokaal	Livewire In 13	(AXIA TP-Driver (WDM))					
Gebruiker			(Controle Toepassen OK	Annulerer	n	

Input alias and gain

At *Input alias* you can give a clear name to the recording channels you have at your disposal in AerOn Studio. Gain only works with Digigram cards. With other audio cards, the gain must be set in the control panel of the sound card.

27.3.3 Audio logger

With *Audio logger* you can have your radio broadcasts recorded automatically. For more information about *Audio logger* itself, please refer to chapter 15. In order for *Audio logger* to function correctly, it is important in the first place that settings are adjusted properly. That is why the various settings are described in detail below.

ё Instellingen			×
Lokaal		Algemeen	
.	Bewaar pad F:\Aeron Au	dioLogger	
Algemeen	Formaat 44100 Hz St	ereo MP3 256 kbps	
۲	Audio ingang 8: Livewire I	n 08 (2- AXIA IP-Driver (WDM))	
Audio	Bewaar termijn 1 Maand		
<u></u>		per bewaartermijn. 246,6 GB beschikbaar	
Audio logger		Tijdslots	
Airence	0 1 2 3 4	5 6 7 8 9 0 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 3	
	dinsdag		
Airlite / Webstation	donderdag vrijdag		
Studer	zondag		
DHD DHD 🗸	18,0 GB Vereiste schijfruimte	per week. Historie info	
🧖 Clobaal		FTP Upload	
	Host		
Automatisering	Gebruikersnaam Wachtwoord		
Lokaal	Map op ftp		
🧖 Gebruiker		Controle Toepassen OK Ann	uleren

Save path Here you specify the folders where AerOn Studio should store the recorded audio files. It is possible to specify multiple folders, which you must then separate with semicolons. Use the button to the right of the input field to enter the folders. Format Use this setting to specify the quality of recordings. Usually you can leave it at '44100 Hz Stereo MP3 128 kbps', this quality is sufficient for re-listening to a broadcast. The higher the quality of the recording, the more disk space you need. Audio input On systems with more than one recording channel, you can specify on which channel you offer the audio. Here you specify how long the audio files must be saved before Storage period AerOn Studio is allowed to delete them. The period can vary from 1 week to 1 year. As with recording quality, the longer the storage period, the more storage capacity you need. Time slots Here you specify for each day of the week and for each hour of the day whether or not there should be automatic audio logging. AerOn Studio cannot make recordings if there is insufficient storage History info capacity or if no valid storage folder has been filled in. With this button you get an overview of the status. FTP Upload Check 'Active' to activate Audiologger FTP upload and fill in the necessary ftp data. Host, Username, Password and a folder on ftp.

27.3.4 D&R Airence

AerOn Studio has direct support for the D&R Airence mixing consoles. After connecting the D&R Airence to the PC it is automatically recognized in AerOn Studio. AerOn Studio needs a continuous contact for start/stop.

The 4 USB channels can be assigned to control *Live Assist* and *Jingle players*. The routing of the audio channels on the Airence needs to be set separately in *Settings Local* \rightarrow *Audio* \rightarrow > *Output Routing*.

With the 16 buttons on the right side you control Jingle players

The other 8 buttons can be given a function at 'User button'. In the picture below you can see an example of a possible configuration.

	Verbinding
Status	niet aanwezig
Firmware	
	Fader
Fader 1	Live A
Fader 2	Live B
Fader 3	Jingle A
Fader 4	Jingle B
	User button
User button 1	Live assist (de)activeren
User button 2	<geen></geen>
User button 3	<geen></geen>
User button 4	<geen></geen>
User button 5	<geen></geen>
User button 6	Play
User button 7	Stop
User button 8	Record

27.3.5 D&R Airlite / Webstation

To use the D&R Airlite or D&R Webstation the file 'airlite.dll' must be in the folder where Aeron is installed. This file is required for communication with the Airlite Contol application.

Enter the correct host and port data to connect. Usually the Airlite or Webstation will be connected to its own PC and enter '127.0.0.1' at host. The values at 'Receive port' and 'Send port' are the default values and usually do not need to be changed.

For Live A to Jingle D you have to dial the number of the fader channel.

AerOn Studio needs a continuous contact for start/stop.

	Verbinding
Host	
Receive port	
Send port	
Status	Gesloten
Driver	Airlite Library v1.1.133.0 - 2017-06-12 (13:03:05) - D&R
Firmware	
	Live assist
Live A	
Live B	5
	Jingle machine
Jingle A	6
Jingle B	
Jingle C	0
Jingle D	0

Use the 16 buttons on the D&R Airlite (on the right) to start or stop the jingles in the Jingle *player.*

The routing of the audio channels on the Airlite must be set separately in *Settings* $Local \rightarrow Audio \rightarrow > Output Routing.$

27.3.6 Student

	Verbinding
Port	
Status	Gesloten
Live A	
Live B	
Start	ChannelOnAir
Jingle A	
Jingle B	
Jingle C	
Jingle D	
Start	ChannelOnAir
User button 1	<geen></geen>
User button 2	
User button 3	
User button 4	

In the 'Studer' tab you configure the interface for the Studer OnAir 3000 and 1500 mixing desks. This interface uses the Emberprotocol. After setting up the correct host and port, the status will show if the connection is successful.

For *Live assist* and *Jingle players* you indicate the inputs on the mixer, the names of the inputs are visible as soon as a connection is made to the mixer.

By default you control *Live assist* and *Jingle players* with the 'ChannelOnAir' start function (button ON). It is also possible to use the TB-button (freely adjustable button), then choose 'UserButton' and 'TA on/off'. The TB-button has a wildcard function which in that case you have to set in the Studer configuration as userbutton.

The OnAir 3000 mixer has the possibility to define up to 20 (maximum 6 for model 1500) so called 'user buttons'. These can then be linked to a number of functions in AerOn Studio, such as the (de)activation of *Live assist*.

27.3.7 DHD

	Verbinding
Host	
Port	2008
Status	Gesloten
	Live assist
Live A	
Live B	
	Jingle machine
Jingle A	
Jingle B	
Jingle C	
Jingle D	
	Studio switch
Virtual mixer	
Cart-A	
Cart-B	
Studio 1	0

In the tab 'DHD' you configure the interface for the DHD SX mixing consoles. After setting up the correct host and port, the status will show whether the connection was successful.

For *Live assist, Jingle players and Studio switch, enter* the channel numbers on the mixer. AerOn Studio needs a continuous contact for start/stop.

27.3.8 GatesAir

The configuration for the GatesAir Oasis mixer is similar to that of the mixers described above. As an option, the GatesAir Oasis has 4 built-in USB channels that you can configure under 'Audio'. In addition, you control *Live assist* or *Jingle players* with the buttons under the faders of the respective module.

🔅 Instellingen						×
Lokaal						
^	Host					
	Port					
Audio	Status	Gesloten				
Piddio	Serienummer					
<u></u>						
Audia lagaar	Fader 1	Live A				
Audio logger	Fader 2	Live B				
=	Fader 3	Jingle A				
	Fader 4	Jingle B				
Airence						
Airlite / Webstation						
Studer						
DHD						
1 TR						
GatesAir 🗸						
🧭 Globaal						
Automatisering						
<u> </u>						
Lokaal						
👰 Gebruiker			Controle	Toepassen	ОК	Annuleren

27.3.9 Ember plus

To configure Ember plus get started with 'Ember+ Viewer'. You navigate through the tree structure to the objects you have configured for GPIO at the Ember plus GPIO Output Signals. You copy the full path to each GPIO state and paste it into AerOn Studio on the corresponding line in the Ember plus settings.

For start/stop AerOn Studio needs a continuous contact, i.e. the state must be continuously 'True' when you open a fader (faderstart) and/or activate a channel with ON (buttonstart) and with the fader closed continuously 'False'.



To connect to the Ember Plus provider in your equipment, enter the IP address and port in AerOn Studio in the Ember plus settings.

After you have finished configuring your mixer and setting it up in AerOn Studio it may be necessary to reboot the engine of your mixer before the communication with AerOn Studio as a whole works.

🔅 Instellingen			×				
Lokaal		Verbinding					
	Actief						
	Host	172.16.111.245					
Audio	Port						
Addio	Status	Connected 172.16.111.245:9001					
-							
	Live assist						
Airence	Play						
	Stop						
	Record						
Airlite							
	Live A	Crystal/GPIOs/Aeron_GPIO/Output Signals/CartA/State					
	Live B	Crystal/GPIOs/Aeron_GPIO/Output Signals/CartB/State					
Studer		Jingle machine					
	Jingle A	Crystal/GPIOs/Aeron_GPIO/Output Signals/JingleA/State					
	Jingle B	Crystal/GPIOs/Aeron_GPIO/Output Signals/JingleB/State					
DHD	Jingle C	Crystal/GPIOs/Aeron_GPIO/Output Signals/JingleC/State					
A N	Jingle D	Crystal/GPIOs/Aeron_GPIO/Output Signals/JingleD/State					
AB	Jingle E						
GatesAir	Jingle F						
	Jingle G						
	Jingle H						
Ember Plus							
	23-8-2018 13:58	3:18 Crystal/GPIOs/Aeron GPIO/Output Register 1					
Globaal	23-8-2018 13:58	3:18 Crystal/GPIOs/Aeron_GPIO/Input Register 0					
	23-8-2018 13:58	8: 18 Crystal/GPIOs/Aeron_GPIO/Output Levels String 380380380380380380380380 8: 18 Crystal/GPIOs/Aeron_GPIO/Innut Levels String					
Automatisering	23-8-2018 13:58	8: 18 Crystal/GPIOs/Aeron_GPIO/Output Signals/CartA/State True					
	23-8-2018 13:58	8:18 Crystal/GPIOs/Aeron_GPIO/Output Signals/CartB/State False					
Lokaal	23-8-2018 13:58	s: to Crystal/GPIOs/Aeron_GPIO/Output signals/JingleA/state False 3:18 Crystal/GPIOs/Aeron_GPIO/Output Signals/JingleB/State False					
🧟 Gebruiker	ingen Verbinding Verbinding Acted Verbinding Verbinding Acted Verbinding A						

27.3.10 AXIA Livewire

With AXIA Livewire, GPIO commands in the protocol are sent over the network. To configure remotestarts for Aeron Studio, you need to set this in the AXIA IP-Audio driver. The GPIO must be assigned the channels on which Cart-A, Cart-B, etc... play. In addition, a .gpiovk file must be loaded containing the profile for remotestarts.

_ So	urces (Sei	nd to Network)				De	stinations (Receive from N	etwork)		I GF	90
#	Enable	Name	Channel (1-32767)	Mode			Channel (1-32767)		Туре		Channel (1-32767)
1	◄	CART-A	201	STEREO	-	1	21	Browse	From Source 🔹	1	201
2	\checkmark	CART-B	202	STEREO	-	2	25	Browse	From Source 🔹	2	202
3	◄	Jingle-A	203	STEREO	-	3		Browse	From Source 🔹	3	203
4	\checkmark	Jingle-B	204	STEREO	-	4		Browse	From Source 💌	4	204
5	◄	Jingle-C	205	STEREO	-	5		Browse	From Source 💌	5	205
6	◄	Jingle-D	206	STEREO	-	6		Browse	From Source 🔹	6	206
7	v	Aeron-PFL	207	STEREO	•	7		Browse	From Source 💌	7	



Contents gpiovk profile for Aeron remote starts

WINCLASS=Aeron

DEV0.3 MSG=0x40D WPARAM=0x1107 LPARAM=-1
DEV0.4 MSG=0x40D WPARAM=0x1106 LPARAM=-1
DEV1.3 MSG=0x40D WPARAM=0x1207 LPARAM=-1
DEV1.4 MSG=0x40D WPARAM=0x1206 LPARAM=-1
DEV2.3 MSG=0x40D WPARAM=0x2107 LPARAM=-1
DEV2.4 MSG=0x40D WPARAM=0x2108 LPARAM=-1
DEV3.3 MSG=0x40D WPARAM=0x2207 LPARAM=-1
DEV3.4 MSG=0x40D WPARAM=0x2208 LPARAM=-1
DEV4.3 MSG=0x40D WPARAM=0x2307 LPARAM=-1
DEV4.4 MSG=0x40D WPARAM=0x2308 LPARAM=-1
DEV5.3 MSG=0x40D WPARAM=0x2407 LPARAM=-1
DEV5.4 MSG=0x40D WPARAM=0x2408 LPARAM=-1

27.3.11 D&R MambaNet (AXUM / AXITE)

In order to connect AerOn Studio to D&R MambaNet and a D&R AXUM or AXITE mixer, the following must be installed:

- WinPcap. <u>https://www.winpcap.org</u> (required for MambaNet)
- Mbn.dll. This dll needs to be placed in the AerOn Studio installation folder.

AerOn Studio connects to MambaNet over Ethernet. In the D&R AXUM or AXITE the Ethernet protocol must be activated in the IP-config. An IP address is not required for communication over Ethernet. It is sufficient that the PC, on which AerOn Studio runs, is in the same subnet as the D&R AXUM or AXITE.

As soon as AerOn Studio connects to the D&R AXUM or AXITE, the status is displayed in Settings \rightarrow Local \rightarrow General \rightarrow D&R MambaNet.

	D&R MambaNet	
Status	OK (Address = 00000027)	
Driver versie	MambaNet Library V1.9 - Dec 6 2010 (14:46:17) - Broadcast Partners	
Aeron UI adres	000000A	-

Status OK indicates there is communication. In the event of a malfunction, a message from MambaNet is displayed here.

The first time AerOn Studio connects to the D&R AXUM or AXITE a unique node is created based on the AerOn Studio license. Per AerOn Studio license a node will be present. In this node the configuration for e.g. remotestarts can be set. There are also features for Studio Switch, External Sources, Voice Track, Pre-Listing and User login profiles.

The Aeron UI address allows you to set the hardware node address of an AerOn control module installed in the D&R AXUM control panel. With this hardware module you can control various options in AerOn Studio.

AerOn node in the D&R AXUM surface configuration

Axum	» Console 1-4 configuratio	n » <u>Su</u>	rface con	nfiguration » Node 'Aeron [45728]'		
				Object configura	tion for Aeron [4	5728]
					Lat	el
Ne	Description	Tuno	Dofault	Eunstion	Local	Dofault
	Description	Type	Delault	Tunction	Local	Delduit
1024	Live A start	S + A	0	Cart-A: Module fader and on active	Cart-A start	Module active
1025	Live A cue	S + A		Cart-A: Module fader and on inactive	Cart-A stop	Module inactive
1026	Live B start	S + A	0	Cart-B: Module fader and on active	Cart-B start	Module active
1027	Live B cue	S + A	0	Cart-B: Module fader and on inactive	Cart-B stop	Module inactive
1028	Jingle A start/cue	S + A	0	Jingle-A: Start/stop	none	Start
1029	Jingle B start/cue	S + A	0	Jingle-B: Start/stop	none	Start
1030	Jingle C start/cue	S + A		Jingle-C: Start/stop	none	Start
1031	Jingle D start/cue	S + A		Jingle-D: Start/stop	none	Start
1032	Nonstop A level	S + A	<u>0</u>	Module 29: Module level	none	Level
1033	Nonstop B level	S + A	<u>0</u>	Module 30: Module level	Non-Stop B	Level
1034	Studio 1 level	S + A		Module 31: Module level	Studio 1	Level
1035	Studio 2 level	S + A		Module 32: Module level	<u>Studio 2</u>	Level
1036	Extern 1 level	S + A		Module 28: Module level	Raamprogramma	Level
1037	Extern 2 level	S + A	<u>0</u>	not configured	none	
1038	Extern 3 level	S + A	<u>0</u>	not configured	none	
1039	Extern 4 level	S + A	<u>0</u>	not configured	none	
1040	Output left dB	А	<u>-50</u>	AXUM Out: Audio level left	none	Left
1041	Output right dB	А	<u>-50</u>	AXUM Out: Audio level right	none	Right
1042	Extern audio insert	А		not configured	none	
1043	Extern audio stop	А		not configured	none	
1044	Voice track on 1	S		Voice 1: Module fader off	none	Fader off
1045	Voice track on 2	S		Console preset: VT ON	none	Preset 1
1046	Voice track on 3	S		not configured	none	
1047	Voice track on 4	S		not configured	none	
1048	Voice track on 5	S		not configured	none	
1049	Voice track on 6	S		not configured	none	
1050	Voice track on 7	S		Voice 1: Module Dump A on	none	Buss7/8 on
1051	Voice track on 8	S		Voice 1: Module fader on	none	Fader on
1052	Voice track off 1	S		Voice 1: Module fader off	none	Fader off
1053	Voice track off 2	S		not configured	none	
1054	Voice track off 3	S		not configured	none	
1055	Voice track off 4	S		Console preset: VT OFF	none	Preset 2
1056	Voice track off 5	S		not configured	none	
1057	Voice track off 6	S		not configured	none	
1058	Voice track off 7	S		not configured	none	
1059	Voice track off 8	S		Voice 1: Module Dump A off	none	Buss7/8 off
1060	VT fader 1 start	S + A		VT1: Start	VT 1 Start	Start
1061	VT fader 1 stop	S + A		VT1: Stop	VT 1 Stop	Stop
1062	VT fader 1 level	S + A		Module 2: Module level	none	Level
1063	VT fader 2 start	S + A		Voice 1: Start	VT 2 Start	Start
1064	VT fader 2 stop	S + A		Voice 1: Stop	VT 2 Stop	Stop
1065	VT fader 2 level	S + A		Module 1: Module level	none	Level
1066	VT fader 3 start	S + A		VT3: Start	VT 3 Start	Start
1067	VT fader 3 stop	S + A	0	VT3: Stop	VT 3 Stop	Stop
1068	VT fader 3 level	S + A	0	Module 3: Module level	none	Level
1069	VT fader 4 start	S + A	0	VT4: Start	VT4 Start	Start
1070	VT fader 4 ston	S + A		VT4: Stop	VT 4 Stop	Stop
1071	VT fader 4 level	S + A	0	Module 4: Module level	none	Level
1072	PEL on	S		CRM: Ext 2 on	PCR PFL On	Ext2 on
1073	PFL off	S		CRM: Ext 2 off	PCR PFL Off	Ext2 off
1074	Chipcard username/password	S + A		Console 1: Console username/password	Aanmelden	No Jabel
1075	Chipcard write	S	_	Console 1: Console write chincard user/pass	Schriiven	No label

27.4 User

Each user who logs on to AerOn Studio has a number of personal settings at his/her disposal.

ё Instellingen		×
Gebruiker	Algemeen	
	Einde afluisteren	20 s
	Afbeelding weergeven bij slepen	weergeven bij geopende Mix editor 🛛 💌
Persoonliik	Voice track	
r ei booninge	Duck level	-3 dB
	Start level	-18 dB
	Start offset	0 ms
	End level	-18 dB
	End offset	0 ms
	Auto gain	⊻
	Position	Begin track
	Duck snelheid	1 s / 10 dB
	Slot open / dicht bij laden andere mix	dicht
	Autozoom outrotrack links	15 sec
	Autozoom introtrack rechts	35 sec
	Shuttle Pro achtergrondkleur	156.91.3 🔹 🚥
	Live assist	
	Laad volgende track in beide carts	
	Bij stoppen van kortspelende track meteen de volgende inladen	
	Jingles	
	Tipro achtergrond kleuren	×
~	Plavlist	
🧭 Globaal	Fadecurve herstellen bij droppen, verplaatsen en verwijderen	×
	Open plavlist-wijzigen-venster bij dubbelklik	×
Automatisering	File browser	
-	Zoek Rom en Initial Key in ID3Tag tekst velden	~
Lokaal	Manage subsection with subsection	
	Mappen automatisch uitvouwen	
Gebruiker	Controle	or OK Annuleren

<u>General</u>

Oeneral	
End of eavesdropping	With the preview button it is possible to listen to the end of the tracks. This indicates how many seconds you want to hear from the end.
Display image when dragging	When dragging items (e.g. from <i>Database browser</i> to playlist) AerOn Studio will display the image or waveform. If this is not desired, you can turn it off or leave it on only when <i>Mix editor</i> is open.
Voice tracks	
Duck level	Here you set the maximum difference in audio level between the voice track and the tracks with which it mixes. The outro and intro that is below the voice track is autromatically dipped to the maximum value specified here.
	Tracks with a loud outro or intro will more often apply the maximum duck level.
Start level	<i>Mix editor</i> does silence detection at the beginning of the voice track. Here you specify the value of the level at which the voice track is

	"cut" at the beginning of the fade curve. Anything lower than the level set here is cut at the beginning.
Offset start	In addition to the adjustable silence detection, you have the option to extend the voice track slightly at the beginning.
	This is applicable, for example, if a part of the G of "Good morning" just disappears.
	You specify the offset in milliseconds.
End level	Silence detection at the end of the voice track. Here you specify the value of the from level at which the voice track is "cut" to the end with the fade curve.
End offset	Offset from the cutting end of the voice track.
	You specify the offset in milliseconds.
Auto gain	By default, this option is on.
	<i>Mix editor</i> the gain of the voicetrack as an offset to the <i>Audio level reference</i> . The gain is effectively applied up to a maximum level of peak 0dB.
Position (mode	The position is applied when recording voice tracks dry.
1)	Here you specify the preference for placement.
	After outro: start of voice track = start of outro
	Start track: start of voice track = start of intro
	Against intro: end of voice track = end of intro
	At position "After outro" the voice track overlaps the beginning outro until the end of the intro. At position "Start track" the voice track overlaps the beginning of the intro until the end of the intro. If you record longer than the intro length, the voice track will overlap the outro. At position "Against intro" the voice track overlaps from end intro to start outro. If the voice track is longer than outro + intro, the tracks will slide apart.
Duck speed Lock open /	This option determines the steepness of the fade curve when ducking. The higher this value, the longer the fadeout duration. This option determines the reaction of the lock when scrolling in <i>Mix</i>
close to drawers	editor. Adjustable to Close and Automatic.
other mix	When the lock is opened, the track in the third track can be slid loose. The underlying tracks will then remain in their positions.
Autozoom	Here you can set how a mix is placed while browsing in the Mix
outrotrack left	editor. The number of seconds of Autozoom outrotrack left and Autozoom introtrack right added together determines how many
Autozoom introtrack right	seconds of a mix is displayed in the Mix editor window, this determines the zoom factor. If you increase the number of seconds
and out of the second	at Autozoom outrotrack left, more of the outrotrack will be visible. If you increase the number of seconds with Autozoom introtrack on the right, more of the subsequent tracks will be visible.
Shuttle Pro background color	Background color of <i>Mix editor</i> if a Shuttle Pro is connected or present.

Live assist

Load next track in both carts	When this option is enabled, the next active item will appear in both carts if nothing is playing. The convenience for the DJ / presenter is that it doesn't matter which fader he opens to start the next track.
When stopping a short playing track,	With this option, when stopped, regardless of the playing time, the current track is always automatically removed from the cart and the next track is loaded.
immediately load the next one	By default, this option is off and a track is considered played after 1 minute of onair play when the track is stopped. A track shorter than 1 minute must complete to be considered played.

<u>Jingles</u>

Tipro background colors

If a Tipro jingle pad is connected, this option determines whether the color pallet is displayed in *Jingle players*.

<u>Playlist</u>

Restore fade curve when dropping, moving and removing	By default, this option is on. When dropping, moving or deleting a track in the playlist, a fade curve is restored according to the default mix times of the track in the database and any duckings are also undone.
Open Playlist Edit window by doubleclick	When this option is disabled, a custom fade curve is left unchanged when you drop, move, or delete. A fade curve adjusted with Mix editor, of the tracks between which the dragged track is placed, is then retained. This also gives a small performance gain when visually updating the playlist. This option is enabled by default. When double clicking in the playlist, the <i>Edit Playlist</i> window opens.

File browser

Find Bpm and Initial Key in ID3Tag text	When loading ID3 tags, also searches the Bpm and Key values in the text fields present in the ID3tag if the default values in the ID3tag have not been entered.
fields Expand folders	Automatically expand folders so that subfolders and files are
automatically	immediately displayed when clicking a folder.

28 **Print templates**

Print templates can be accessed via the Tools \rightarrow Print Templates menu.

At several places in AerOn Studio you have the possibility to make a print. What that printout looks like (layout, font, header and footer) is recorded in a print template. For each printout a separate standard template is included with AerOn Studio. AerOn Studio also offers the possibility to customize the templates as you wish. For example, you can add your own logo and address information to the templates or set a different font. Please note that changing the data fields may render the templates unusable. Therefore, always make a copy of the original files in advance.

To open a print template in the *Designer*, go to *Tools Print Templates from* \rightarrow the menus and select one of the following templates:

Campaign.fr3	Commercialplanner. overview of all planned campaigns.
CampaignOverview.fr3	Commercialplanner: overview of one planned campaign.
Customer.fr3	Commercialplanner. overview of all customers.
Dayview.fr3	Commercial planner: day overview.
FormDay.fr3	Format planner. day format.
FormHour.fr3	Format planner. hour format.
FormInfo.fr3	Format planner. info window.
History.fr3	History.
Playlist.fr3	Playlist.

If you open the desired template (in example: *History.fr3*), you will get the following window:

Print templates



The reports are built up by means of a number of bands. These are the rectangular, grey areas in the example. On these bands components can be placed which are then printed. The report templates use the following bands, each with a function.

ReportTitle	This tape appears on the first page of the report.
PageHeader	This band appears at the top of every page.
MasterData	This tape contains the data that will be printed.
Footer	This band comes at the end of the data and contains, for example totals.
PageFooter	This band appears at the bottom of each page.

Various *tagged* elements (e.g. [REPORTTITLE]) are placed on the bands themselves, which are filled in during printing. The tags recognizable by the straight hooks may not be changed, font and size can be adjusted.

On the left side the toolbar 'Objects' is visible.

Select an object. The *Object inspector* (*F11*) allows you to change various settings of the object.

T₁ Insert text area. A text area is placed on one of the bands described above. For example, you can enter the name, address and telephone number of the broadcaster as text.

Insert tape.

4

⇒-2

Insert image. For example, you can have the broadcaster's logo printed on the band *ReportTitle*.

The *Designer* offers very advanced possibilities for designing a template. The functions described here are the most commonly used. For specific questions about template design please contact Broadcast Partners.

29 Window

In the menu 'Window' you have several possibilities to adjust the view of AerOn Studio to your preference.

When unsubscribing from AerOn Studio, the window positions, size and font size are saved per user. If you log out again, the windows will be reloaded as they were when you last logged out.

With the function key F6 you can arrange the windows automatically.

29.1 Window preferences (*Database browser Xtra*)

In AerOn Studio you can perform various actions such as: create a live program, record voicetracks, process database data. Each action requires its own window(s), with corresponding window positions on the AerOn Studio desktop.

If you have set the window positions and font size (see Chapter 29.2) to your preference, you can save these positions and open windows to a preset window with $Save \rightarrow Preferences \rightarrow window$ and then give it a name of your choice such as Live, Voice Tracks, etc... If you have entered a number of preferences, you can now quickly recall them from the *Preferences* $\rightarrow Window \rightarrow Select$ *Preset* menu without having to manually open and drag each window to the desired position each time. The font size of each window is also maintained. Because each user has its own preferences regarding font size and window positions, these window preference presets are kept and saved for each user. If you also have the option *Integration digital mixer*, these window presets can also be loaded on a number of mixers using the button controls on the mixer.

Desktop screen resolution

AerOn Studio can be started and used simultaneously on several computers in a network. Because a PC may have a different desktop screen resolution compared to another PC that a user also logs on to, for example if one PC has multiple monitors connected. Therefore, the window preferences are also tracked per screen resolution and stored in a different preset for exactly that screen resolution. The window layout for voice tracking on a PC with one monitor or on a PC with two monitors will of course look different.

<u>In summary:</u> the window preferences (presets) are stored by AerOn Studio per user and also per desktop screen resolution a preset is maintained and stored. This keeps track of which windows are open, where they are located on the screen and also the font size of each window. With this option every user on every desktop can create their own window presets and reload them.

29.2 Font size

In the main AerOn Studio windows, which support the adjustable size of the font used, you can change the font size in the *Window* and Font *Size* menu.

The font size is applied in the activated window, the window that has the focus, and is also tracked and saved per user. This allows each user to set their own compromise between large letters and the amount of screen information.

<u>Tip:</u> You can also change the font size with the mouse wheel while holding down the CTRL key.

30 Configuration and installation of AerOn Studio

Configuring and installing an AerOn Studio system requires some planning. In this chapter we describe what you need to pay attention to and what you need to do for a successful installation.

30.1 AerOn NexusDB users

AerOn NexusDB users have installed NexusDB 4 as a database server. After installing AerOn Studio for the first time, perform a database conversion. This will be described later in this chapter.

30.2 Configuration network

To configure an AerOn Studio system, we distinguish three different basic configurations, which we describe below using a number of drawings. In addition to these basic configurations, various custom configurations are possible, for example in a master/slave multi-studio system.

With an existing system, you will recognize your own configuration by one of the descriptions. If you are working with AerOn Studio for the first time, you will use these descriptions to choose how to configure AerOn Studio for your broadcaster.

Although it is easy to go from one configuration to another, it is advisable to plan the desired configuration carefully. This prevents unnecessary work afterwards.

AerOn Studio uses a so-called Client/Server database architecture. This means that a *server* application for the databases is running on a single PC with which all AerOn Studio OnAir and Production machines connect as *clients*.

The configuration of the PostgreSQL database server requires minimal PC and network knowledge and will be described later in this chapter.

30.2.1 Configuration 1, stand-alone

In this configuration you have one PC (or laptop) with which you do everything. You use this OnAir playout PC for broadcasting, planning playlists, commercials, and so on.



In the installation program, select AerOn Studio software, PostgreSQL database server and InOutBox

PostgreSQL database server

The installer for the PostgreSQL database server can be downloaded from the download button in the AerOn Studio installer. For installing the PostgreSQL database server we have a PowerShell script available on request.

30.2.2 Configuration 2, network without stand-alone server



Most broadcasters opt for a configuration in which two or more PC's are connected in a network. The central PC (OnAir) has a large hard disk on which the audio files are stored and also runs the external PostgreSQL database server on this machine. The three PCs shown as examples in the image above are connected to the database server as a client.

You can choose this configuration if you have "only" one (OnAir) PC, but plan to expand the system in the near future with one or more production stations or one or more studios. You can also choose this configuration if, for example, you install AerOn at home and want to produce standalone and export the playlists and audio to an external disk, USB stick or cloud (eg Dropbox) to be able to import them into the studio database. In that case you also need your own database locally.

When configuring the OnAir PC, we recommend to use at least two SSD hard disks. On the first disk with a size of about 256 GB install the operating system and database server. On the second big disk shared in the network (for example drive letter P:) install the AerOn Studio data and put the audio files. If necessary, you can create an additional disk for system administration.

In the installation program, when installing

OnAir playout: AerOn Studio software, PostgreSQL database server and InOutBox Production: AerOn Studio software At home: AerOn Studio software

PostgreSQL database server

The installer for the PostgreSQL database server can be downloaded from the download button in the AerOn Studio installer. For installing the PostgreSQL database server we have a PowerShell script available on request.

30.2.3 Configuration 3, network with stand-alone server



This configuration is very similar to the previous one, but is mainly chosen by broadcasters who want the highest possible reliability. In this configuration an extra PC has been added to the network that only functions as a server in order to be able to store the audio files more securely. Usually a Windows Server OS will be installed on this PC. A Windows 10 as a "server" can make a limited number of 20 connections. As a rule, if you use five or more Windows clients at the same time, take a Windows Server OS.

To configure the server in this example, the same recommendation applies as for the OnAir PC in the previous configuration. Install the external database server on the first disk. The second, shared partition is used for the audio files.

In the installation program, when installing

Server:	PostgreSQL database server and InOutBox
OnAir playout:	AerOn Studio software
Production:	AerOn Studio software
At home:	AerOn Studio software

PostgreSQL database server

The installer for the PostgreSQL database server can be downloaded from the download button in the AerOn Studio installer. For installing the PostgreSQL database server we have a PowerShell script available on request.

30.3 Installation AerOn Studio

Broadcast Partners generally makes the AerOn Studio software available on the website or via ftp. The program Setup.exe installs the software and all necessary additional components (except the drivers for the audio card). You can check which version of the Setup.exe program you have by requesting the version information (in the Windows Explorer right mouse button on Setup.exe, option *Properties*, tab *Version*).

Close the AerOn Studio applications on all PCs and stop the NexusDB database server service before starting the Setup.exe program. The Setup.exe program checks that AerOn Studio is still active in memory. Furthermore, the resolution of the display must be set to at least 1280 by 1024 points and you need 'administrator' rights for the installation of the AerOn Studio software.

If you double-click on Setup.exe you can choose to install in English or Dutch. With this choice you also determine the language of the software to be installed. This means: if you choose 'English' here, the AerOn Studio software will be installed in English! However, should you later decide to change the language, this is possible 'on the fly' via the menu *Tools*→ *Set Language*. To

Taalkeuz	e voor Setup	$^{\times}$	
1	Selecteer de taal welke Setup gebruikt tijdens de installatie:		
	Nederlands	/	
	OK Annuleren		

activate the language change, you need to close all windows in AerOn Studio beforehand.

You will then be guided through the installation via a number of clear screens.

🛃 Setup - AerOn Studio	-
Ľ	Welkom bij het installatieprogramma van AerOn Studio.
Q	Hiermee wordt AerOn Studio 1.12.10.28 geïnstalleerd op deze computer. U wordt aanbevolen alle actieve programma's af te sluiten voordst u verder gaat.
Aer	Klik op Volgende om verder te gaan of op Annuleren om Setup af te sluiten.
	Volgende > Annuleren

With the *Next* button you always go to the next window, sometimes you can go back to a previous window with the *Previous* button.

30.3.1 Licence agreement

You must read and accept the license agreement before you can continue with the installation.

🔂 Setup - AerOn Studio	_		×
Licentieovereenkomst Lees de volgende belangrijke informatie voordat u verder gaat.			A
Lees de volgende licentieovereenkomst. Gebruik de schuifbalk of d Down om de rest van de overeenkomst te zien.	lruk op de	knop Pag	ge
BELANGRIJK: ZORGVULDIG LEZEN! Deze Broadcast P User License Agreement ("EULA") is een rechtsgeldige ov tussen u (een individu of een andere rechtspersoon) en Bro Technologv & Development BV ("BROADCAST PARTNE	artners E ereenkon adcast RS'') met	nd- / 1st	
betrekking tot de toegang tot en het gebruik van de Broadc software product geïdentificeerd als AERON, waarin ook b zijn software van Broadcast Partners, inhoud en verwante o en informatie (samen het "SOFTWARE PRODUCT"). Het S PRODUCT omvat expliciet niet de inhoud van de database	ast Partn egrepen l locument OFTWA of de daa	ers kan tatie RE umee	Ŷ
Ik accepteer de licentieovereenkomst Ik accepteer de licentieovereenkomst niet			
Broadcast Partners			
< Vorige Volg	ende >	Annı	uleren

30.3.2 Information

This window shows important information that may not (yet) be included in the manual and should be highlighted here.

🔀 Setup - AerOn Studio — 🗌	×
Informatie Lees de volgende belangrijke informatie voordat u verder gaat.	A
Klik op Volgende als u gereed bent om verder te gaan met Setup.	
ET OP, LEES ONDERSTAANDE INFORMATIE AANDACHTIG!!!	^
Deze versie van Aeron Studio maakt gebruik van de PostgreSQL database server. Aeron Studio werkt samen met PostgreSQL 9.6 of hogere versies.	
Alle gebruikers van PC-Radio, PC-Radio Express en Aeron moeten de NexusDB database converteren naar PostgreSQL. Dit geldt voor de gebruikers van Aeron- versies 1.3.x.x en ouder.	
De databank conversie tool vindt u na installatie van de Aeron software in het menu van Windows: Start -> Programma's -> Broadcast Partners -> Aeron -> Aeron databank conversie	
RELEASE NOTES - WIJZIGINGEN IN DEZE RELEASE:	
Part of the test of	*
Broadcast Partners	
< Vorige Volgende > An	nuleren

30.3.3 Choose configuration



Earlier in this chapter the different configurations have been described. If you don't know what choice to make here, it's best to browse back and see the examples.

AerOn Studio software

The installation program copies and installs all programs and files needed for AerOn Studio.

InOutBox

You can use this tool to copy news and other items that you refresh regularly.

Depending on the option selected here and other circumstances, some of the following screens will appear.

30.3.4 Choose the target folder

🔀 Setup - AerOn Studio	_		×
Kies de doelmap Waar moet AerOn Studio geïnstalleerd worden?			A
Setup zal AerOn Studio in de volgende map installeren.			
Klik op Volgende om door te gaan. Klik op Bladeren om een andere m	ap te kie	ezen.	
C:\Program Files (x86)\Broadcast Partners\AeronPostgres	Bla	deren	
Er is ten minste 18,5 MB vrije schijfruimte vereist.			
< Vorige Volgen	de >	Annul	leren

The default folder is C:\Program Files (x86)\Broadcast Partners\AerOnPostgres as shown in the screenshot.

30.3.5 Choose the data folder

The data folder is a folder that contains a number of common files, i.e. files that must be accessible to all PCs in the network. On the OnAir PC or the server PC, we recommend that you create a network share P: and use the folder 'P:\AerOn Studio Data' for the data.

If you install the software on a standalone PC or laptop, you can keep the folder in the example shown.

If a network location is not accessible to the installer, the solution can be found on the webpage below.

Some Programs Cannot Access Network Locations When UAC Is Enabled. <u>https://technet.microsoft.com/en-us/library/ee844140(v=ws.10).aspx</u>

🛃 Setup - AerOn Studio	_			×
Kies de datamap In welke map moeten de AerOn Studio databestanden geïnstalleer	d word	len?		A
Data bestanden worden opgeslagen in de volgende map. Klik op Volgende om door te gaan. Klik op 'Bladeren' om een andere	map t	e kie:	zen.	
Ci \Aeron Data		Blade	eren	
Broadcast Partners				
< Vorige Volge	ende >	•	Annu	leren

In the window above, C:\Aeron Data has been used as a data folder. This can be selected by clicking on Browse.

30.3.6 Download the PostgreSQL installation

😴 Setup - AerOn Studio			_		×
PostgreSQL database server					
Moet PostgreSQL geïnstalleerd	worden?				7
De PostgreSQL database server functioneert. Meestal is dat de f Minimaal vereist is PostgreSQL v	r is vereist OnAir play versie 9.6.	op een PC die als o out PC of een Nons	latabase serve Stop server.	r	
De PostgreSQL tools zijn ook ve database wenst te kunnen mak	reist op ee en.	en computer waaroj	p u een backup	van de	
Gebruikers die thuis AerOn Stud nemen, hebben de PostgreSQL Zij hoeven AerOn Studio enkel t	lio installer database e verbinde	en, bvb om remote server niet nodig. en met de database	voice tracks op server in de st	o te tudio.	
AerOn Studio ondersteunt enke	l PostgreS	QL 9.6 of hogere v	ersies!		
Open PostgreSQL downloadpa	igina				
Geïnstalleerd: PostgreSQL 10 (1	.0.10-2)				
oadcast Partners					
		< Vorige	Volgende >	Annu	leren

PostgreSQL must be installed to use AerOn Studio on the server/OnAir machine. The PC that serves as database server, or else on the On-Air PC. An installed version of PostgreSQL is also required if you want to make a database backup.

Users who use AerOn Studio at home for remote voicetracking, for example, do not need to install PostgreSQL, these users connect via VPN to the AerOn Studio database of the PostgreSQL server in the studio network.

When you click on the *Open PostgreSQL download page* button, you can download the latest version of PostgreSQL. Via the web page, you choose the correct version for the correct operating system. AerOn supports PostgreSQL version 9.6 to 12.

At the time of writing PostgreSQL 10.14 and 12.4 are the latest builds. Currently, PostgeSQL 12 is the highest major version. PostgreSQL 12 would give a slightly better performance. We advise to always install the latest minor version of the PostgreSQL version installed on your system. We have a PowerShell script available to make the installation and configuration of PostgreSQL easier. Please contact our support department, you can also do this by sending an email to support@broadcastpartners.nl.

You can download PostgreSQL community major version 10 or 12 via this link. <u>https://www.enterprisedb.com/downloads/postgres-postgresql-downloads</u>. The installation file of postgres looks like this: *postgresql-12.4-1-windows-x64.exe*. Depending on which version you download of course.

Important: AerOn Studio requires at least PostgreSQL version 9.6.

30.3.7 Preparing the installation is ready

The setup program has gathered all the necessary information. Press *Next* to go to the last window for the installation. You can still go back here to check the entered data.
Se	etup - AerOn Studio	-		×
н	et voorbereiden van de installatie is gereed Setup is nu gereed om te beginnen met het installeren van AerOn computer.	Studio op	deze	A
	Klik op Installeren om verder te gaan met installeren, of klik op Vor wilt terugzien of veranderen.	ige als u i	nstellinger	1
	AerOn Studio software Doelmap: C:\Program Files (x86)\Broadcast Partners\AeronPostgres		^	
	Datamap: C:\Aeron Data			
	Datamap: C: \Aeron Data InOutBox C: \Program Files (x86) \Broadcast Partners\AeronPostgres			
	Datamap: C: \Aeron Data InOutBox C: \Program Files (x86)\Broadcast Partners\AeronPostgres			

When everything is entered correctly, press *Next* and the installation of the software begins. This installation takes some time. Wait until the next window appears.

👸 Setup - AerOn Studio	- 🗆 ×
Ĉ	Setup heeft het installeren van AerOn Studio op deze computer voltooid.
0	Setup heeft het installeren van AerOn Studio op deze computer voltooid. U kunt het programma uitvoeren met de geïnstalleerde snelkoppelingen.
er	Klik op Voltooien om Setup te beëindigen. ☑ Bekijk release notes (pdf)
Ŭ	
	Voltooien

Press Finish to exit the program.

30.3.8 Install PostgreSQL

If you downloaded PostgreSQL in the previous step, it must be installed on the server machine. Open the PostgreSQL installation file you downloaded in the previous step.

Default values used for installation AerOn Studio

Installation folder:C:\Program Files\PostgreSQL\10 (or 12)Data folder:C:\Aeron Database\PostgreSQL\10\DatabaseBackup folder:C:\Aeron Database\PostgreSQL\10\BackupHostname:127.0.0.1Port:5432Database name:aeron_prod_dbUser:aeron_dbaPassword:aeron_dba

At PostgreSQL 12 we use port 5412.

Installing postgres database server

You can download the installer of PostgreSQL via <u>https://www.enterprisedb.com/downloads/postgres-postgresql-downloads</u>.

Make sure you choose the correct version of the number of bits of your operating system. Often this is 64-bit. When you have downloaded this you start the setup.

The PostgreSQL documentation can be found via these links if necessary. <u>https://www.postgresql.org/docs/</u> <u>https://www.postgresql.org/docs/12/index.html</u> <u>https://www.postgresql.org/docs/10/index.html</u>

Updating to a higher minor PostgreSQL version is easy to do by just running the installer. Configuring PostgreSQL is then no longer necessary because it was already done during the initial installation. You must take out and close AerOn Studio everywhere in advance.

Start the PostgreSQL installer.

<table-of-contents> Setup</table-of-contents>		-		\times
Packaged by:	Setup - PostgreSQL			
POSTGRES	Welcome to the PostgreSQL Setup Wizard.			
PostgreSQL				
(J)				
	< Back	Next >	Car	icel

Click Next to go to the next window.

Manual AerOn Studio

📑 Setup	_		\times
Existing data directory			\Rightarrow
An existing data directory has been found at C:\Aeron Database\PostgreSQL\1 directory and its configuration will be used for this installation.	.0\Database set to u	se port 543	2. This
Tortallauilder			
< Back	Next >	Car	ncel

If PostgreSQL has been installed before, this window will be displayed. The settings of the previous installation will be taken over automatically. Some of the windows later in this chapter will then no longer be shown.

🍯 Setup			_		×
Installation Directo	יזי				
Please specify the dire	ctory where PostgreSQL will be installed.				
Installation Directory	C:\Program Files\PostgreSQL\10	~			
InstallBuilder					
		< Back	Next >	Cance	I

Here you can specify the location where postgres can be installed. This location is by default *C:\Program Files\PostgreSQL\10*.

📑 Setup		-		\times
Select Components			i	Þ
Select the components you want to install; clear the compor ready to continue.	nents you do not want	to install. Click	Next when	you are
PostgreSQL Server	Click on a compone	nt to get a detail	ed descripti	on
Stack Builder				
Command Line Tools				
InstallBuilder				
	< Back	Next >	Ca	ancel

In this window you can choose the components you want to install.

Important: PostgreSQL Server and the Command Line Tools are essential to make AerOn work. With pgAdmin you can manage the PostgreSQL database. It can also be downloaded separately from the PostgreSQL site. Stack Builder is a component with which you can integrate optional plugins and modules into PostgreSQL.

📲 Setup		_		×
Data Directory				
Please select a directory under which to store your data. Data Directory \Program Files\PostgreSQL\10\data	19			
InstallBuilder	< Back	Next >	Can	cel

Default location for the PostgreSQL database cluster is C:\Program Files\PostgreSQL\10\data. It is important to place the database cluster in a shielded location so that users cannot access it from a network.

For AerOn Studio we place the PostgreSQL database cluster in C:\Aeron Database\PostgreSQL\10\Database.

📑 Setup	_	
Password		-
Please provide a password for the database superuser (postgres). Password Retype password		
InstallBuilder	ack Next >	Cancel

Here you enter a password for your super user (administrator) of postgres.

📲 Setup		_		×
Password				
Please provide the password for service account (postgres). Password Retype password				
InstallBuilder	< Back	Next >	Can	cel

Here you enter a password for the postgres service account.

Setup			_		×
Port					
Please select the port number the server sh Port 5432	ould listen on.				
InstallBuilder					
11 Julii Duiluei		< Back	Next >	Can	cel

The default port for postgres is 5432. If you need another port, you can fill it out here. In order to access Postgres from a network it may be necessary to set up a firewall rule in Windows

📲 Setup		_		\times
Advanced Options				
Select the locale to be used by the new database cluster. Locale [Default locale]				
InstallBuilder	< Back	Next >	Ca	ncel

You can leave the Locale at [Default locale]. The installer then takes the locale from Windows.

📲 Setup	-		\times
Pre Installation Summary			\Rightarrow
The following settings will be used for the installation::			
Installation Directory: C:\Program Files\PostgreSQL\10 Server Installation Directory: C:\Program Files\PostgreSQL\10 Data Directory: C:\Aeron Database\PostgreSQL\10\Database Database Port: 5432 Database Superuser: postgres Operating System Account: postgres Database Service: postgresql-10:x64-aeron Command Line Tools Installation Directory: C:\Program Files\PostgreSQL\10 pgAdmin4 Installation Directory: C:\Program Files\PostgreSQL\10 Stack Builder Installation Directory: C:\Program Files\PostgreSQL\10			< >
InstallBuilder Kack	ext >	Car	ncel

Overview of settings that will be used for the installation.

📑 Setup		_		×
Ready to Install				
Setup is now ready to begin installing PostgreSQL on your com	nputer.			
InstallBuilder	< Back	Nexts	Can	al
	< DOLK	WEAT >	Cano	

Press Next to start the installation

1	Setup	-	□ ×
Installing			-
Please wait while Setup	installs PostgreSQL on your computer.		
	Installing		
Unpacking C:\Program [[]ostgresql\html\catalog-pg-foreign-server.html		
Testal Duilder			
TI IS CONDUNICE	< Back Nex	dt >	Cancel
	S ANNO THE	L	

Postgres is now being installed... After this, the installation was successful.

30.3.9 Configuration PostgreSQL server

You can create and configure a database in PostgreSQL using the pgAdmin tool. In this example we use pgAdmin4. PgAdmin is installed with PostgreSQL by default. With the Query tool in pgAdmin you can execute SQL commands.

When you open pgAdmin, a web browser starts. The pgAdmin tool is a web-based tool.

Via the browser on the left you can browse to your database. When you want to connect to the server for the first time, the root password of the PostgreSQL server will be requested. By default this password is postgres.



When you are connected you can see all your databases and statistics from the database server.

You can create a new database in PostgreSQL by rightclicking on databases.

 ✓ ♣ Login/Group Roles (12) ▲ aero Create > Login/Group Role 	First we need to create a user who will be the owner of the database.
A aero Refresh	Click Create →Login/Group role to create a new user.
🐣 Login Role - aeron_dba 🛛 🗙	
General Definition Privileges Membership Parameters Security	Create user via SQL
Can login?YesSuperuserNoCreate roles?NoCreate databases?NoUpdate catalog?No	CREATE USER aeron_dba WITH LOGIN NOSUPERUSER INHERIT NOCREATEDB NOCREATEROLE NOREPLICATION PASSWORD 'xxxxxx';
Inherit rights from the parent roles? Yes	
Can initiate streaming replication and backups?	
Image: Save Image: Save	

Creating a database in PostgreSQL goes as follows. You click Create Database.→



Database

The desired name of the database.

<u>Owner</u>

The owner of the database, when using the AerOn Studio database installation procedure choose owner aeron_dba.

Comment

Here you have the possibility to add comments.

Creating Databases via SQL

CREATE DATABASE aeron_live_db WITH OWNER = aeron_dba ENCODING = 'UTF8 CONNECTION LIMIT = -1;

🥃 Create - Databa	se ×
General Definition	n Security Parameters SQL
Database	aeron_live_db
Owner	🔺 aeron_dba 🔹
Comment	
i ?	🗶 Cancel 🗳 Reset 🖪 Save

When this information is filled in you can click on **Save**. The database will now be created and will appear in the database list. After that you can create another schedule 'aeron', but that is not necessarily necessary. If you perform the installation using the PowerShell script, the schematic 'aeron' will be created.

SQL to create a schematic 'aeron'.

CREATE SCHEMA aeron AUTHORIZATION aeron_dba; ALTER DATABASE aeron_prod_db SET search_path = "\$user", aeron, public; REVOKE CONNECT ON DATABASE aeron_prod_db FROM public;

Once the database has been created, we also need a user with whom external voicetrackes can log in to the database. We are going to create these now. The users can be found under Login Role.

Click Create \rightarrow Login/Group role to create a new usage for the PostgreSQL database.



We can now create other users.

Configuration and installation of AerOn Studio

	🔬 Create	e - Login/Gr	oup Role				×
	General	Definition	Privileges	Membership	Parameters	Security	SQL
	Name		aeron_vt_us	er			
<u>Name</u> Desired username	Comments		Gebruiker vo	oor Remote Voic	eTrackers		
<u>Comments</u> Comments which can be added if necessary.							.1
When this information is filled in we go to the tablet Definition .							
	i	?		X Ca	incel 🚺 🕄 Re	eset	Save
	🙈 Create	- Login/Gro	oup Role				×
Password	General	Definition	Privileges	Membership	Parameters	Security	SQL
The desired password	Password	I (
	Account e	expires	YYYY-MM-D	D HH:mm:ss Z			Ê
Account expires	Connectio	on limit	-1				
Delete automatically							
When this information is filled in, we go to the Privileges tab							
	i 1	•		× Ca	ncel 🙆 R	eset 🖪	Save

In this tablet it is important that **Can Login** is on **Yes.** Otherwise the user will not be able to login.

When this step has succeeded We create the user by clicking on **Save**.

Create user via SQL

CREATE USER aeron_vt_user WITH LOGIN NOSUPERUSER NOCREATEDB NOCREATEROLE INHERIT NOREPLICATION CONNECTION LIMIT -1 PASSWORD 'xxxxxx';

🙈 Create	e - Login/Gro	oup Role				×
General	Definition	Privileges	Membership	Parameters	Security	SQL
Can logir	1?				Yes	
Superuse	er					No
Create ro	les?					No
Create da	atabases?					lo
Update c	atalog?					10
Inherit riç	ghts from the	parent roles	?		Yes	
Can initia	ate streaming	replication a	ind backups?			No
i	?		🗙 Ca	incel 🚺 🗘 Re	eset	Save

The user must then be given the necessary rights to edit the database. We do this using the following SQL. The SQL has to be executed after the first start of Aeron so that the database tables are present.

GRANT USAGE ON SCHEMA aeron TO aeron_vt_user; GRANT ALL ON ALL TABLES IN SCHEMA aeron TO aeron_vt_user;

If no schema 'aeron' has been created, run this SQL for the standard schema public: GRANT USAGE ON SCHEMA public TO aeron_vt_user; GRANT ALL ON ALL TABLES IN SCHEMA public TO aeron_vt_user;

30.3.10 pg_hba configuration

The pg_hba.conf config file is used by PostgreSQL to allow or deny IP addresss/work machines to use the PostgreSQL database/server.

If you want to grant everyone except superuser postgres access from the network, add the following rules.

Hostall	postgres	127.0.0.1/32	•	md5
Hostall	aeron_dba	0.0.0.0/0		md5
Hostaeron_prod_dbaeron	_vt_user	0.0.0/0	md5	

Host = Means a connection over TCP/IP to grant clients access.
All = You may connect to all databases
aeron_dba = username that may connect
IP-Address = 0.0.0.0/0 stands for allowing all ip addresses to connect.
MD5 = Connect based on username and password using md5 encryption.

Detailed information can be found on the PostgreSQL website. https://www.postgresql.org/docs/10/static/auth-pg-hba-conf.html

<u>Tip:</u> For installing AerOn and PostgreSQL we have a PowerShell script available. If you are looking for a custom solution regarding this configuration, please contact our support department.

30.3.11 postgresql configuration

The postgresql.conf config file is used by PostgreSQL to load the various settings.

Some settings are listed below.

max_connections (default = 100)

This setting determines the number of connections allowed by PostgreSQL server. AerOn Studio establishes multiple connections to the database so that multiple data can be processed in parallel. AerOn Studio makes an average of 40 connections. By default we set this setting to 500.

Memory parameters

shared_buffers Set this value to 512MB

work_mem Set this value to 8MB at 8GB memory.

maintenance_work_mem = 128MB Set this value to 128MB at 8GB memory.

effective_cache_size Set this value to 2GB at 8GB memory.

Worker parameters

max_worker_processes Set this value to the number of available cpu cores

max_parallel_workers_per_gather This parameter is specific for very large databases with millions of records. For AerOn Studio it is best to set this value to 0.

max_parallel_workers Set this value to the number of available cpu cores

random_page_cost Set this value to 2.0 if the PostgreSQL database cluster is on an SSD.

Detailed information can be found on the PostgreSQL website. <u>https://www.postgresql.org/docs/10/runtime-config.html</u>

<u>Tip:</u> For installing AerOn and PostgreSQL we have a PowerShell script available. If you are looking for a custom solution regarding this configuration, please contact our support department.

30.4 AerOn NexusDB users

Users migrating from AerOn NexusDB to AerOn Postgres need to convert their database.

The required conversion program can be accessed through the menus of Windows: Start Programs \rightarrow (for Windows 10: All apps) Broadcast Partners $\rightarrow \rightarrow$ AerOn Studio Aeron \rightarrow database conversion. Start the program.

Press the left 'Change' button to select the NexusDB database or a folder containing .nx1 files. Press the right 'Change' button to enter the data from the PostgreSQL database server.

Aeron NexusDB database to Aeron PostgreSQL database conversion					
Source Aeron NexusDB database		Destination Aeron PostgreSQL database			
Server		Server			
Database		Database			
-					
	<u>C</u> hange	C <u>h</u> ange			
		Overwrite database Start			
· ·		· _			
Aeron NexusDB database to A	Aeron PostgreSC	QL database conversion 🛛 🗙			
Source Aeron NexusDB database		Destination Aeron PostgreSOL database			
Server: NexusDB@172.16.17.23	PostgreSQL da	atabase verbinding 🛛 🗙			
Database: Aeron					
ок	Server	172.16.17.40			
	Poort	5432			
	Database	aeron_prod_db			
	Gebruikersnaam	aeron_dba			
	Wachtwoord	*****			
•		Test OK Annuleren			

When all data has been entered correctly, press 'Start'.

30.5 PC-Radio, Carmen, Mouse Music, Airwave and Dalet users

A database conversion is required if you switch from PC-Radio 6, Carmen, Mouse Music, Airwave or Dalet to AerOn Studio. These users can convert their database to NexusDB. This conversion is a one-time action.

On the AerOn Studio OnAir PC you will find *Broadcast Partners* \rightarrow *AerOn Studio Other* \rightarrow *databases conversion* via the menus of Windows: *Start Programs* \rightarrow (for Windows 10: *All apps*). Start the program.

Broadcast Partners - Aeron database conversie	×
NexusDB	
Server: -	Wiizigen
Database:	
PC-Radio <u>4</u> PC-Radio 5/ <u>6</u> <u>C</u> armen <u>C</u> armen SQL Server <u>M</u> ouse Music <u>A</u> irwave	<u>D</u> alet
Gebruikers van PC-Radio 5 of 6 kiezen deze optie voor het converteren van de databank naar de nieuwste versie van Aeron.	Start
· · · ·	

<u>Tip:</u> Once this conversion is complete, you can convert the NexusDB database to a PostgreSQL database using the conversion program in Chapter 30.4.

<u>NexusDB</u>

Here we fill in where the databases of your old system will be converted to. With the *Modify* button you can specify an empty folder (Internal server) or an IP server and database (External server). PC-Radio 5/6 users set up the database to be converted here.

PC-Radio 5 / 6

Users of PC-Radio 5 and PC-Radio 6 must set up a folder with the .nx1 files or their NexusDB database under NexusDB.

<u>Carmen</u>

At *Source location* you fill in the folder where the Carmen databases digital.mdb and jingles.mdb are located. The conversion program will actively search for these files and will try to fill in the folder for you. In the situation of Carmen on SQL Server, you have to fill in the connection files yourself to be able to connect to the Carmen database.

When converting from Carmen to AerOn Studio, it is useful to start AerOn Studio first, before performing the conversion. In the criteria in the settings you can enter the genres from Carmen. The program will then convert genres to the correct criteria in AerOn Studio.

Carmen SQL server

With SQL Server, enter the name of the server. In addition, Port, Database, Username and Password must be filled in.

Mouse Music

At *Source location,* enter the folder where the Mouse Music database Mmusic.mdb is located.

When converting from Mouse Music to AerOn Studio, the settings for *Language* are taken over, *Target Group* is transferred to Extra3 and *Geographical origin* to Extra5.

<u>Airwave</u>

At Source Location, enter the folder where Airwave's mdb database is located.

<u>Dalet</u>

Place the conversion program on the PC where the dalet database is saved. Configure a folder under NexusDB. Then all you need to do is press the 'Start'-button to convert the database.

When all data has been entered correctly, press 'Start'. If you have different criteria that have not yet been processed in the conversion program or another database, please contact support@broadcastpartners.nl.

30.6 Installation USB dongle

Installing a USB license dongle is only relevant for broadcast stations and workstations that still use a USB license dongle.

The drivers for a USB dongle are automatically installed during the installation of AerOn Studio. The first time you connect the dongle to a USB port, it will be recognized by Windows that wants to install the driver. Windows detects that the necessary driver is present and installs it. The LED on the dongle will blink. Do not interrupt the installation of the dongel driver, otherwise AerOn Studio will not recognize this dongel later on. After the successful installation of the driver, the LED on the dongle will light continuously. In the unlikely event that the dongle remained on the USB port during the installation of AerOn Studio and the key error 6043-0000-0000 is displayed in the System Info window, solve the problem as follows:

- 1. Remove the dongle from the USB port.
- 2. Go to *Device Manager* (**B**+R and the command: *devmgmt.msc*)
- 3. Open *USB controllers* and select *Feitian ROCKEY4*. In the menu under the right mouse button, choose the option *Undo Installation*.
- 4. Place the dongle on the USB port.

Windows indicates that new hardware has been found, initializes the USB-dongel and indicates that it can be used. The LED on the dongle should now light continuously.

If this method does not help, you should first uninstall the driver and then reinstall it as follows:

- 1. Remove the dongle from the USB port.
- 2. Search in the folder where AerOn Studio is installed for the program *AzRockey.exe* and uninstall the driver.
- 3. Reboot the PC.
- 4. Start *AzRockey.exe* and follow the installation of the driver.
- 5. Place the dongle on the USB port.

On systems with an AMD chipset (and AMD processor) an audio usb filter may be installed, which will still cause the 6043 error message after the above operations. Use the procedure below to solve this problem.

- Open the registry and go to: HKLM\System\CCS\Control\Class\{36FC9E6 0-C465-11CF-8056-444553540000}
 and remove use filter from UpperFilter
- and remove usb filter from UpperFilter.
- 2. Open the registry and delete key: HKLM\System\CCS\Services\usbfilter
- 3. Go to the folder *C:\Windows\System32\drivers* and delete file: *usb filter.sys*
- 4. Reboot the PC.

30.7 First start AerOn Studio

30.7.1 **PostgreSQL Database connection**

As soon as AerOn Studio is started for the first time and the database with which you want to connect has not yet been specified, the following window will appear:

	tabase verbinding 💦 🖇 🖇	3
Server		
Server		
Poort		
Database		
Gebruikersnaam		
Wachtwoord	•	
	<u>T</u> est <u>O</u> K Annuleren	

In order to start AerOn Studio, a connection to a PostgreSQL database is required. Through this window we can connect AerOn Studio to a PostgresSQL database.

The IP address of the machine the PostgreSQL server is running on. Preferably do not use the computer name or localhost here.
By default, the port on which the server is running is port 5432.
Here you enter the name of the database you want to connect to.
The username you want to use to login to the database. This user account must have rights to this database.
The password that accompanies this username to login to the database server. Through the check mark on the right side of the password box you can make the password visible.

Test button Via the test button you can test the connection to the PostgreSQL server.

When using the PowerShell script

If you use the PowerShell script to install AerOn Studio with the PostgreSQL server, these are the default login details for the database.

Database nameaeron_prod_dbUsernameaeron_dbaPasswordaeron_dba

30.7.2 Wizard

After selecting the database connection, the Wizard below appears, which searches for audio files present on the PC or network.

This wizard only appears if you have done a new installation of AerOn Studio.

A	Aeron wizard						
	Audiobestanden zoeken op:						
		Station	Туре	<u>^</u>			
	X		Lokaal vaste schijf				
	Ń		Lokaal vaste schijf				
			Verwisselbare media				
			Verwisselbare media				
			Verwisselbare media				
			Verwisselbare media				
			Verwisselbare media				
			Verwisselbare media				
			Netwerkstation				
			Netwerkstation				
			Netwerkstation				
				•			
	Select	eer de statio	ons om te doorzoeken naar audiobestanden	Skuiten			
				olditen			

The local hard drives are checked. You can check the network drives yourself if you know that desired audio files are located on them. The more drives you check, the longer the wizard will run. To avoid problems, do not tick removable media. After all, it is obvious that the audio files on them will not always be available.

Press the *Next* button to let the wizard search for audio files on the desired stations. The search for audio files may take several minutes. You can cancel this action at any time by pressing the *Stop button*.

8	Ae	ron wizard	- 5	×
		Мар	Aantal	
		D: \Audio \Audio logger		
	V	D: \Audio \Commercials		
		D:\Audio\Gebruiker\Bert		
	¥.	D:\Audio\MP2\Jingles		
	X	D:\Audio\MP2\Misc		
	\checkmark	D:\Audio\MP2\Mpeg1		
	\checkmark	D:\Audio\MP2\Mpeg2	1874	
	V	D: \Audio \MP2 \Mpeg3		
	V	D: \Audio \MP2 \Mpeg4		
	\checkmark	D: \Audio \MP2 \Mpeg5	1925	
	\checkmark	D: \Audio \MP2 \Mpeg6		
	\checkmark	D:\Audio\mp3\2011		
		D:\Audio\mp3\2012		
		D:\Audio\mp3\2013		
		D:\Audio\mp3\2014		
		D:\Audio\mp3\2015		
	\checkmark	D: \Audio \PCM		
		130	13.63	
	4 ge	selecteerde mappen met 12808 audiobestanden.		
		× < <u>T</u> erug <u>V</u> olgende>	<u>S</u> luiten	

In this window, the wizard shows the folders in which audio files were found and the number. AerOn Studio allows you to specify up to 99 audio folders. If there are more than 99 folders containing audio files, the wizard will uncheck the folders containing the fewest audio files. These will then not be included in AerOn Studio's standard search paths. Of course, you can make changes to the selection of desired search paths yourself. Underlying folders will be read automatically.

If you press *Next*, the found audio files are recorded in the database. Tagged audio files (e.g. mp3 ID3v2) will have their title and artist included in the database.

🖪 Aeron wizard				- = ×
Audiobestanden toevoegen aan de muziek databank				
	12 %			
Aanmaken playlists				
	0 %			
 Automatisering starten na aanmaken playlists 				
		< <u>T</u> erug	<u>V</u> olgende>	<u>S</u> top

After the wizard has filled the database, 7 random playlists are created (one for each day of the week) and automation starts. A few minutes after installation of AerOn Studio you are on air!

30.7.3 Control configuration

Once the automation has started, you can check the configuration of the system.

Choose $Help \rightarrow System$ info from the menus for a complete overview of the configuration. The information in this window is logically divided into a number of blocks.

Systeeminfo Aeron 1.12.1.23					×
Actieve licentie			PostgreSQL		
Type Software lice					
Licentie geldig t/m 🗧 31-7-20		Verlengen	Database	aeron_dba@localhost:5432 - aero	n_prod_db
Software onderhoud t/m 📒 31-3-20			Systeemstart		
Licentie informatie		_			
▼ USB Dongel					
			Harddisk audio		
 Software licentie 			Driver: Bass 2 4 13		
Organisatie	1052-AF14-46A3-5620-5E99-05	5D7-0039-317t	 Weergave kanalen; 		
			Opname kanalen: 1		
	1052-AF14-46A3-5620-5E99-29				
Geldig t/m					
Software onderhoud t/m	<u>31</u> -3-2019				
Actieve software modules					
🔻 📃 OnAir Studio					
Database browser Xtra					
Item browser					
Live players Xtra					
🔜 Jingle players Xtra					
🔜 Voice tracking Xtra					
Formatplanner					
Playlist semi vast					
Plan checker					
Commercialplanner Xtra					Actie 👻 OK
					L

License information

The data shown here depends on the connected license key or Hardware ID. Each license key has a unique number. Key error states00-0000 if everything is OK or an error code if it is not. A description of the most common error codes is given. If you have any questions about the error code, please have the complete error code ready when you call your supplier.

The 'Extend' button next to 'License valid until' starts the program for extending the license. At 'Software maintenance up to' starts an input window for the renewal of the software maintenance. Ten days before the license expires, an alarm clock will appear next to the main AerOn Studio clock. There is a separate chapter dedicated to license renewal and software maintenance.

PostgreSQL

Here you can see the version of the database server and which server you are connected to.

Active software modules

Here you can find out which AerOn Studio software components are active.

Hard disk audio

Here you can see which hard disk audio support you have. You can see the version of the installed driver and the available playback and recording channels.

30.7.4 Virus scanners

Sometimes it happens that a virus scanner sounds an alarm because of the software security in Aeron Studio and InOutBox. If this happens to you, it is recommended to set an exclusion setting in your virus scanner software. Depending on the options in your virusscan software, you can set exclusions based on folders or processes. This often has a positive influence on the overall performance.

Exclude folders

"C:\Program Files (x86)\Broadcast Partners\Aeron" (Softwaremap) "C:\Users\Public\Documents\Broadcast Partners\Aeron" (Datamap) "C:\Program Files\PostgreSQL" (PostgreSQL directory)

Exclude processes

Aeron.exe InOutBox.exe Postgres.exe

31 Audio cards

Users have unlimited possibilities when it comes to the choice of audio card. The onboard audio from the PC or laptop is sufficient to start. After a short period of time, however, it will turn out that the audio quality is not sufficient and people start looking for affordable alternatives. In this chapter we present a number of audio cards with which Broadcast Partners has had good experiences.

Model	Implement	<u>Analogu</u>	<u>Analogu</u>	Digital	Digital
	<u>ation</u>	<u>e</u>	<u>e</u>	<u>at</u>	<u>from</u>
		In	<u>From</u>		
RME Fireface 802	USB &	4	6	1 AES /	1 AES /
	Firewire			EBU	EBU
	19 inches			8 ADAT	8 ADAT
RME Fireface UC	USB	4	4	1 S/PDIF	1 S/PDIF
	19 inches				
RME HDSPe AES	PCle	-	-	8 AES /	8 AES /
				EBU	EBU
PreSonus Studio 1824	USB	4	4	1 S/PDIF	1 S/PDIF
				8 ADAT	8 ADAT
Roland UA-1010	USB	4	4	1 S/PDIF	1 S/PDIF
Braring UMC1820	USB	4	5	1 S/PDIF	1 S/PDIF
	19 inches			ADAT	ADAT
Braring FCA1616	USB &	4	4	1 S/PDIF	1 S/PDIF
	Firewire			ADAT	ADAT
	19 inches				
Braring FCA610	USB &	2	4	1 S/PDIF	1 S/PDIF
	Firewire				
ESI Maya44 XTe	PCle	2	2	-	-
ESI Maya44 USB+	USB	2	2	-	-
ESI Gigaport HD+	USB	-	4	-	-
Lynx Studio Technology	PCle	-	-	8 AES /	8 AES /
AES16e				EBU	EBU
Axia IP-Audio (Livewire)	WDM			16	16
Dante Virtual Soundcard	WDM			16	16
LAWO R3LAY VSC	WDM			8	8

Tip: The number of inputs and outputs is indicated here in stereo.

The models below are no longer available, but are suitable for use with AerOn Studio. Some models do not have drivers for Windows 10.

RME Hammerfall DSP Multiface II (Windows 10)	PCIe & box	4 Jack	4 Jack	1 S/PDIF	1 S/PDIF
M-Audio Delta 1010 (Windows 7)	PCI & 19"	4 Jack	4 Jack	1 S/PDIF	1 S/PDIF
M-Audio Delta 1010LT (Windows 7)	PCI & Cable	4 RCA	4 RCA	1 S/PDIF	1 S/PDIF
M-Audio FireWire 410 (Windows 7)	FireWire	1 XLR / Jack	4 Jack	1 S/PDIF	1 S/PDIF

Manual AerOn Studio

Marian Trace D4 SRC (Windows 7)	PCI & Cable	-	-	4 AES / EBU	4 AES / EBU
Terratec Phase 88 Rack (Windows 7)	PCI / FireWire & 19"	4 Jack	4 Jack	1 S/PDIF	1 S/PDIF
Terratec Phase 88 (Windows 7)	PCI & 5.25 " box	4 RCA	4 RCA	1 S/PDIF	1 S/PDIF
Echo AudioFire 12 (Windows 8)	FireWire	6 Jack	6 Jack	-	-
ESI ESP1010e (Windows 10)	PCIe & Cable	8 Jack	8 Jack	1 S/PDIF	1 S/PDIF

RME Hammerfall DSP Multiface II







RME Fireface 802



RME Fireface UC + RM19



Roland UA-1010 Octa Capture



PreSonus Studio 1824



Behringer UMC-1820



Behringer FCA1616



ESI Maya44 XTe



ESI Maya44 USB



ESI Gigaport HD+



Lynx StudioTechnology AES16e



SoundCraft Ui24R (Te gebruiken als mixer)



Axia IP-Audio (Livewire)



RME Hammerfall DSP Multiface II and AES-32

Users of an RME Multiface are advised to install driver 3.38 or higher.

M-Audio Delta

Users of an M-Audio Delta audio card are advised to install driver 6.0.8, this is audio card compatible up to Windows 7.

Lynx StudioTechnology AES16e

Turn off \rightarrow SyncStart \rightarrow in the mixer using the Settings Advanced menus.

RME Fireface 400

In the Fireface Settings, disable the following 4 options in the top right corner of the window:

Check Input, SyncAlign, TMS, Interleaved.

Echo AudioFire 12

In the *AudioFire Console,* turn on the *Locked* option and select a sampling frequency. Then switch the AudioFire *off* and *on* again.

W AudioFire12 Cor	isole					
ANALOG 1-2 OUT	ANALOG 3-4 OUT	ANALOG 5-6 OUT	ANALOG 7-8 OUT	ANALOG 9-10 OUT	ANALOG 11-12 OUT	SETTINGS
	S S S S S S S S S S S S S S S S S S S	ample rate	00 Clock	source ernal. Word		

We recommend installing driver 5.8. This is audio card is suitable up to Windows 8.

ESI ESP1010e

In the *Control Panel under Sound the* audio card must be configured to 7.1 channels to be able to use 4 stereo outputs, otherwise only one stereo pair is available.

31.1 Configuration

As the default device for sound playback, it is best to set the pre-listening channel. This prevents the audio you play in, for example, Windows Media Player or WinAmp from being directly OnAir audible.

۲			Geluid			×			
Afspelen	Opnemen	Geluiden	Communicatie			_			
Selecteer hieronder een afspeelapparaat waarvan de instellingen moeten worden aangepast:									
	Livewire Out 15 AXIA IP-Driver (WDM) Gereed								
	AXIA IP Gereed	e Out 16 -Driver (W	DM)						
	Luidspo High D Standa	r ekers efinition / ardappara	Audio-apparaat aat						
	Hoofdt High D Niet aa	e lefoon efinition / ngesloter	Audio-apparaat 1		- 1				
	Digitale audio (5/PDIF) High Definition Audio-apparaat Gereed								
Configureren Als standaard instellen 🔻 Eigenschappen									
OK Annuleren Toepassen									

The order in which the audio devices are initialized in Windows determines the device order of playback and recording channels in AerOn Studio. See AerOn Studio system info window.

The output routing must be set so that the desired function arrives at the correct audio output. See menu *Tools Settings* \rightarrow *Local* \rightarrow *Audio* \rightarrow .

As the default sound recording device, set input 1. This is then reserved for recording (voicetrack / *database editor*). The other inputs can be used, for example, for transmitting external audio.

۲			Geluid			×		
Afspelen	Opnemen	Geluiden	Communicatie					
Selecteer hieronder een opnameapparaat waarvan de instellingen moeten worden aangepast:								
Livewire In 01 AXIA IP-Driver (WDM) Standaardapparaat								
	Livewir AXIA IP Gereed	r e In 02 I-Driver (W	'DM)					
	Livewir AXIA IP Gereed	r e In 03 '-Driver (W	'DM)					
	Livewin AXIA IP Gereeo	r e In 04 '-Driver (W	'DM)					
Livewire In 05 AXIA IP-Driver (WDM) Gereed						~		
Configureren Als standaard instellen 🔽 Eigenschappen								
			ОК	Annuleren	Toepass	sen		

32 Compact Interface Module

For radio stations that want to connect their fader/button-starts to the radio automation Broadcast Partners has the Compact Interface Module (CIM) in the delivery program. This module is designed to be compatible with all types of mixing consoles, unlike commercially available amateur electronics kits. Each input is equipped with multiple customization options. This concerns pull-up and pull-down resistors and a high/low impedance selection. This prevents problems with connecting the mixer and the fader start signal will be processed by the automation in an instant.



The CIM is a ready-to-use interface. It is available as a plug-in card for the computer or in an external 1HE 19" housing. The result is a professional looking and working combination of your hardware with AerOn Studio.



	Inputs	Outputs	Interface
CIM 6/2 (*)	6	2	Serial
CIM 8/4 Serial	8	4	Serial
CIM 8/4 USB	8	4	USB
CIM 8/4 LAN(**)	8	4	Network
CIM 16/8 Serial	16	8	Serial
CIM 16/8 USB	16	8	USB
CIM 16/8 LAN(**)	16	8	Network

(*) No longer available since 2009

(*) GPS module for time clock optional

(**) Available in 19" housing

Both the USB and the LAN interface work towards AerOn Studio via software over a virtual COM port.

In Windows, the virtual COM port for USB is automatically recognized and installed via Windows update.

For the CIM with LAN interface, drivers must always be installed which can also be found on the website <u>www.broadcastpartners.nl</u>.

The latest drivers can be found on the website of the USB chip manufacturer: <u>http://www.ftdichip.com/Drivers/D2XX.htm.</u>

32.1.1 Remote inputs

All inputs have a selectable high or low impedance pull up or pull down circuit. This is selected with the jumpers on the board. With the row of jumpers on the left side the pull up or pull down circuit can be activated. With the row of switches on the right side the impedance can be determined (47k or 4k7).

32.1.2 Remote outputs

The remote outputs switch between 0 and 5 V.

32.1.3 GPS time reference

The time base for the automation is determined with the Global Positioning System (GPS). This system works with 24 satellites in space that can be received at any place on earth. This system is primarily used for positioning, but at the same time has a very accurate UTC time. The effective accuracy for automation is 50 ms. Because satellites are used, it is important that the antenna has a reasonably clear view of the sky. In most cases a position in front of a window is sufficient for the GPS to have good reception (3 satellites or more).

Broadcast Partners supplies an active antenna with the GPS clock. The use of passive antennas can damage the GPS clock in the Compact Interface Module.

32.2 Technical details

General	
Vmains:	12 V
Dimensions:	PCI format plug-in card
Pmax:	40 W max
Remote inputs	
Vmax:	5 V
Vmin:	0 V
Vhigh:	>4.2 V
Vlow:	<1.0 V
Rpull:	pull up or pull down, 47k or 4k7, jumper selectable
Remote outputs	
Vhigh:	5 V
Vlow:	0 V
Imax,out:	25 mA
Power output Imax:	5 mA

32.3 Hardware installation

To connect the mixer (fader start) to AerOn Studio you can use the Compact Interface Module, or CIM for short, as described on the previous pages. The CIM can easily be placed in a free PCI slot.

32.3.1 CIM Serial

There are two connectors on the back of the CIM. The small connector (COM) must be connected to a COM port on the computer. The CIM Serial needs to be powered externally.

32.3.2 CIM USB



Connection USB cable to the CIM



The included cable is connected between a USB connector on the motherboard in the computer and the 5-pin connector on the top right of the CIM. In the picture above, the cable is connected to a (blue) USB connector on the motherboard. Usually 2 USB devices can be connected to 1 connector on the motherboard. Consequently, one can choose between the top pins (on the picture 4 pins) or the bottom pins (on the picture 5) of the USB connector on the motherboard.

CAUTION: If the connector is connected incorrectly, the mainboard or the CIM can be irreparably damaged! Look carefully at the text print on the CIM and the motherboard or in the instruction booklet. In the instruction booklet of the motherboard you can find which connectors on the motherboard can be used for USB connections and where the 5V for the red wire is located.

32.3.3 CIM LAN

The CIM Lan needs to be powered externally and is connected to a hub, router or switch of the network using a standard RJ-45 network cable.

32.3.4 IO-Interface

The large connector(s) (IO interface) serves to connect the fader starts (mixer) and external sources. For the pin-out see the table below. The CIM does not route audio.

A CIM 6/2 and CIM 8/4 each have 1 large Sub D25 connector. The CIM 16/8 has 2 large Sub D25 connectors. In the table below an overview of the connection to the Sub-D connectors.

Depending on the type, the CIM has 6 to 16 remote inputs (D1-D6; D1-D8 or D1-D16) and 2 to 8 remote outputs. Per remote input one fader start can be connected. One contact of the faderstart circuit is connected to a remote input. The other contact is usually connected to the GND. The functions of the remote inputs can be defined within AerOn Studio. Per remote output a maximum of 1 external source can be connected.

A CD or Solid state audio player converted for fader start can be used as an external source. The play/pause or pause button must be connected to the remote interface of the player. The audio output is usually connected directly to the mixer.

On the CIM is a row of jumpers and a dipswitch. With the jumpers the reaction of the remote inputs is determined. Setting options are *up* (pull up) and *down* (pull down). For most mixing desks the jumper setting *up is* sufficient.

With the dipswitch the impedance is determined. Adjustment possibilities are *high* (47k Ω) and *low* (4k7 Ω). In most cases an impedance of 47k Ω is sufficient. For signal lines longer than 15 meters, an impedance of 4k7 Ω may be needed. Use well shielded cables to avoid interference.

Pin	CIM 8/4 CIM 8/16	CIM 8/16	Туре	AerOn Studio	AerOn Studio
18	Input 1	Input 9	Entrance	D1	A1
19	Input 2	Input 10	Entrance	D2	A2
20	Input 3	Entrance 11	Entrance	D3	A3
21	Input 4	Input 12	Entrance	D4	A4
5	Input 5	Entrance 13	Entrance	D5	A5
6	Input 6	Entrance 14	Entrance	D6	A6
7	Input 7	Entrance 15	Entrance	D7	A7
8	Input 8	Entrance 16	Entrance	D8	A8
	Outputs 1 to 4	Outputs 5 to 8		From 1 - 4	From 5 - 8
12	Output 1	Output 5	Exit	D1	D5
13	Output 2	Output 6	Exit	D2	D6
22	Output 3	Output 7	Exit	D3	D7
23	Output 4	Output 8	Exit	D4	D8
9	+5V	+5V	Food	-	-
24	GND	GND	GND	-	-
25	GND	GND	GND	-	-

The number of inputs and outputs depends on the type of CIM.

MD/CD player	Function	Туре
Usually Jack Tip	Play/Pause	Remote input
Mostly Jack House	GND	GND

On most mixing consoles you can set whether the fader starts a pulsed contact or sends out a continuous contact. For AerOn Studio a continuous contact is needed if you want to receive the start and stop with one and the same input. With a pulsed contact, only one input can be started or stopped. A pulsed fader start requires two inputs: one input for start and one input for stop.

The connections of a number of mixing desks are listed below.

Brand Mixer	Connector on mixer	Pin-out on mixer	Connectio n to CIM	Jumper on CIM
				0
D&R Airmate	Stereojack chassis	tip	GPI input D1 to 8	Pull up
Airmix / Airlab		ring	GND	
Aircom				
D&R Sirius	Sub-D 9 female	1	GPI input D1 to 8	Pull up
		6	GND	
D&R Scorpius	Stereojack chassis	tip	GPI input D1 to 8	Pull up
		ring	GND	
Dateq BCS-50 / 100 / 200	Stereojack chassis	tip	GPI input D1 to 8	Pull up
		house	GND	
Dateq BCS-25	Sub-D 25 female	3 (via circuit)	GPI input D1 to 8	Pull up
		7 (via circuit)	GND	
DHD 52/XS 1330 Multi I/O	Sub-D 15 female	1, 2, 3, 4 or 5	GPI input D1 to 8	Pull up
		8	GND	
Dateq BCS-70	Sub-D 25 female	17 (collector)	GPI input D1 to 8	Pull up
		5 (emitter)	GND	
Eela SBM-90	Sub-D 25 female	22 (button start)	GPI input D1 to 8	Pull up
		23 (button start)	GND	
				
Eela SBM-90	Sub-D 25 female	24 (fader start)	GPI input D1 to 8	Pull up
		25 (fader start)	GND	
Eela SRM	Cinch female	core	GPI input D1 to 8	Pull up
		mass	GND	
Soundcraft SCA200	Sub-D 9 female	1	GND	
		2 cue channel B	GPI input D1 to 8	Pull up
		4 cue channel A	GPI input D1 to 8	Pull up

Alice	Sub-D25 female	22	GPI input	Pull up
		10	GND	
Klotz Xenon	Sub-D37 female	20 (Cathode)	GPI input D1 to 8	Pull up
	16x GPI	1 (Anode)	GND	

The Dateq BCS-25 switches with 15 Volt, therefore a voltage divider circuit must be included in the cable path.



32.4 Installation software drivers

AerOn Studio's software connects to the CIM via a COM port. For the CIM Serial this is a physical connection to the SUB-D9 connector. For the CIM LAN and USB this is done with a virtual COM port.

32.4.1 CIM USB

When connecting the CIM USB, the dialog box indicating that new hardware has been found appears. If the computer is connected to the Internet, the drivers are automatically found and installed. If this is not the case, the drivers can be installed manually. These drivers can be found on the website of the USB chip manufacturer: <u>http://www.ftdichip.com/Drivers/D2XX.htm.</u>

If everything went successfully, a device named "USB Serial Port (COMx)" is listed in the device manager under "Ports (COM & LPT)". Where x is the number of the COM port.

32.4.2 CIM LAN

The CIM LAN uses the XPORT-03 component from the company Lantronix.

The software configuration consists of 2 parts. On the one hand the network configuration of the CIM device itself using Lantronix DeviceInstaller and on the other hand the creation of a virtual COM port that connects the PC and the CIM via the LAN network using the Lantronix Com-Port-Redirector Manager.

32.4.3 CIM LAN Network and serial settings

Setting up the CIM Lan network and serial settings requires some knowledge of networks. If you are not familiar with the terms DHCP server, mac address, fixed-IP, default gateway, subnet mask, you should contact your network administrator before proceeding. Unfortunately, a custom configuration is not possible because this can differ on every network.

The Deviceinstaller allows you to configure the XPORT-03 in terms of LAN and serial settings in the CIM. Our advice is to use a fixed IP address in your network range, but outside the IP range assigned by any DHCP server.

The Serial Settings must be set as follows: Protocol: RS232 Flow Control: CTS/RTS (Hardware) Baud rate: 38400 Data Bits 8 Parity: None Stop Bits: 1

If your network still contains components from the company Lantronix, you can recognize the CIM by the unique Mac address that can be found on the CIM.

At the time of this writing (March 2016) the most current version of the Lantronix DeviceInstaller is 4.4.0.2RC3. The Lantronix Xport works internally on its own firmware (=software). We do not recommend to upgrade because the current version is sufficient. Upgrading the firmware is specialist work and involves risks. If the upgrade is a bit disappointing or fails, the CIM can become unusable!

32.4.4 CIM LAN Lantronix Com-Port-Redirector Manager

The Lantronix Com-Port-Redirector (=CPR) Manager allows you to configure a virtual COM port on the computer on which AerOn Studio uses the CIM somewhere in your network. In the CPR Manager serial ports can be added or removed using the "Add/Remove" button. After a port has been added, you can assign the IP address of the CIM LAN that is already in the network and turned on to the settings of that port in the CPR Manager.

At the time of this writing (March 2016) the most current version of the Lantronix CPR Manager is 4.3.0.3.

If everything went successfully, a device named "Lantronix CPR Port (COMx)" is listed in the device manager under "Ports (COM & LPT)". Where x is the number of the COM port.
33 Compact Interface Module Settings

After connecting the Compact Interface Module to the hardware (usually the mixing desk in the studio) the CIM in AerOn Studio can be set up. Via *Tools* \rightarrow *Compact Interface Module* you reach the window below.

33.1 Modules

On the left side of the window you can navigate between a number of windows.

🚇 Compact Interfa	ace Module					×
Algemeen	Seriële poort	COM4 USB Serial Port (COM4)			🗹 Actief	
	S/N Type 0109 Master	Versie 0904 1-12-2008	IO in -	IO out		
Modules	6000 IO	1200 2-12-2008				
GPS Klok						
Algemene Ingangen						
Studio 1 Ingangen						
Studio 2 Ingangen						
Uitgangen						
Interface modules						
Algemeen			Тоер	assen	Annulerer	۱

The *Modules* window is used to indicate to which COM port of the PC you have connected the CIM. As the CIM connected to USB or LAN (network) is controlled via a virtual COM port, you can also select the relevant virtual COM port here. Check the *Active* option to indicate that a CIM is connected and then press *Apply to establish the* connection. Once the CIM has been recognized, some information about the connected CIM is displayed in the middle part of the window.

33.2 GPS clock

This option is only available on a CIM 6/2 (6x IO in and 2x IO out). If the CIM 6/2 has been extended with a GPS clock, you can view the status of the GPS receiver in this window.

For good reception it is necessary to place the antenna near a window with a clear view to the sky.

Į	📕 Compact Interfa				
	Algemeen	Aanwezig	Nee		
		Aantal satellieten 🗖	0		
	Modules	Tijd gesynchroniseerd 📃	Wachten		
	GPS Klok	UTC tijd GPS	Wachten		
	Algemene Ingangen				
	Studio 1 Ingangen				
	Studio 2 Ingangen				
	L itgangen				
	Interface modules				
	Algemeen			Toepassen	Annuleren

33.3 Inputs

🛄 Compact Interf	ace Module		×
Algemeen	Testmode		
	Functie	Board	Ingang Inv 🔺
000	📃 Live assist HD-A Cue	Compact Interface Module	🔻 D1 💌 🗖
Modules	Live assist HD-A Play	Compact Interface Module	🔻 D1 💌 🗹
	Live assist HD-A Pause		🔻 D1 💌 🗖
\odot	Live assist HD-A Play/Pause		🔻 D1 👻 🗖
GPS Klok	Live assist HD-B Cue	Compact Interface Module	▼ D2 ▼ 🔲
	🔲 Live assist HD-B Play	Compact Interface Module	🔻 D2 💌 🗹
	Live assist HD-B Pause		🔻 D1 👻 🗖 🗖
Algemene Ingangen	Live assist HD-B Play/Pause		🔻 D1 💌 🔲
[7]	🧧 Jingle A Stop	Compact Interface Module	🔻 D3 💌 🔲
[r4]	🔲 Jingle A Play	Compact Interface Module	🝷 D3 👻 🗹
Studio 1 Ingangen	🧧 Jingle B Stop	Compact Interface Module	🔻 D4 💌 🔲
S 1	🔲 Jingle B Play	Compact Interface Module	🔻 D4 👻 🗹
Etudio 2 Togongon	🧧 Jingle C Stop	Compact Interface Module	🔻 D5 💌 🔲
Studio 2 Ingangen	🔲 Jingle C Play	Compact Interface Module	🝷 D5 👻 🗹
	🧮 Jingle D Stop	Compact Interface Module	🔻 D6 💌 🔲
Litoangen	🔲 Jingle D Play	Compact Interface Module	- D6 - 🗹
	Jingle E Stop		🔻 D1 💌 🔳 🖉
→			
Interface modules	Studio 1		Programmeer
Algemeen			Toepaccen
Algemeen			Annuieren

In these windows you indicate which functions in AerOn Studio you want to control and which input of the CIM you use for that purpose. The general inputs are active in both non-stop mode and Live mode. The Studio 1 inputs are active when *Live assist* is activated from the software or with a button in Studio 1. The studio 2 inputs are active when *Live assist* is activated with a button in studio 2.

🛄 Compact Interfa				
Algemeen	Testmode			
	Functie	Board	Ingang	
	📃 Live assist HD-A Cue	Compact Interface Module		
Modules	🔲 Live assist HD-A Play	Compact Interface Module		\checkmark
	Live assist HD-A Pause	Geen		
	Live assist HD-A Play/Pause	Geen		
GPS Klok	🗾 Live assist HD-B Cue	Compact Interface Module	▼ A2 ▼	
F-91	Live assist HD-B Play	Compact Interface Module	▼ A2 ▼	\checkmark
	Live assist HD-B Pause	Geen		
Algemene Ingangen	Live assist HD-B Play/Pause	Geen		
F 31	🧧 Jingle A Stop	Compact Interface Module	▼ A3 ▼	
	🔲 Jingle A Play	Compact Interface Module	▼ A3 ▼	₹.
Studio I Ingangen	🧧 Jingle B Stop	Compact Interface Module	▼ A4 ▼	
51	🔲 Jingle B Play	Compact Interface Module	▼ A4 ▼	2
Studio 2 Ingangen	🧧 Jingle C Stop	Compact Interface Module		
	🔲 Jingle C Play	Compact Interface Module		2
	🧧 Jingle D Stop	Compact Interface Module		
Uitgangen	🔲 Jingle D Play	Compact Interface Module		M
	Jingle E Stop	Geen		•
Interface modules	Studio 2		Progra	mmeer
41			Taapagaa	poularap
Algemeen			A	nndieren

On a mixer that uses continuous fader- or buttonstart, the same input is entered per faderstart function behind the play and stop/cue. After one of the two functions (start or stop/cue) a tick must be placed at Inv. (=Inverted). This is necessary because otherwise it is not possible to switch between play and stop/cue on one and the same input. For example, input D2 is filled in twice at *Live assist* HD-B cue and play. Behind which input D2 (cue of play) this tick should be placed depends on the fader start circuit on the mixer and the jumper setting on the CIM. In practice the jumpers are usually on UP and a tick should be placed behind the lower input D2 (cue of play). The same goes for the other fader start functions and inputs.

- *Testmode* You use this option to test the settings. If this option is checked, the changes you make will not affect AerOn Studio. For example, you can easily test the fader or button start and check whether the green light turns on or off without performing the function in AerOn Studio.
- *Programming* This button switches the CIM to a kind of learning mode. First you select a function, then you press the corresponding button that should activate this function. AerOn Studio registers the input to which the corresponding button is connected and fills it in for you.

The previously shown configuration is for a mixer with continuous fader or button start. For a mixer that uses pulsed fader or button start the following setting applies.

🛄 Compact Interfa	ace Module		×	2
Algemeen	Testmode			
	Functie	Board	Ingang Inv 🔺	
	Live assist HD-A Cue		🔻 D1 💌 🔲	
Modules	Live assist HD-A Play	Compact Interface Module	🔻 D1 💌 🗹	
	Live assist HD-A Pause		🔻 D1 💌 🗖	
\odot	Live assist HD-A Play/Pause	Geen	🔻 D1 💌 🗖	
GPS Klok	Live assist HD-B Cue	Geen	🔻 D2 💌 🗖	
[*]	Live assist HD-B Play	Compact Interface Module	🔻 D2 👻 🗹	
	Live assist HD-B Pause	Geen	🔻 D1 💌 🔲	
Algemene Ingangen	Live assist HD-B Play/Pause	Geen	🔻 D1 💌 🔲	
[7]	Jingle A Stop	Geen	🔻 D3 💌 🔲	
	Jingle A Play	Compact Interface Module	🔻 D3 👻 🗹	
Studio I Ingangen	Jingle B Stop	Geen	🔻 D4 💌 🔲	
5	🔲 Jingle B Play	Compact Interface Module	🔻 D4 👻 🗹	
Studio 2 Ingangen	Jingle C Stop	Geen	🔻 D5 💌 🔲	
Stadio 2 Ingangen	Jingle C Play	Compact Interface Module	🔻 D5 👻 🗹	
	Jingle D Stop	Geen	🔻 D6 💌 🔲	
Uitgangen	🔲 Jingle D Play	Compact Interface Module	🔻 D6 👻 🗹	
	Jingle E Stop	Geen	🔻 D1 💌 🔳 🗸	
Interface modules	Studio 1		Programmeer	
Algemeen			Toepassen Annuleren	

33.4 Outputs

In this window you can configure the available outputs. In the 'Actions' menu (*Tools Actions* \rightarrow) you can link the outgoing actions for the CIM to audio files.

For example, you can control a CD player that has been converted for fader start. Whether there should be a check mark at Inv. (=Inverted) depends on the CD player. The light may not be green all the time, but may only light briefly when the action pulse is outgoing.

📳 Compact Interf	ace Module			×
Algemeen				
	Functie RDS TA Verkeersinformatie	Board	Naam	Uitgang Inv
Modules	Uitgaande actie 1 ACM/CIM	Compact Interface Module	•	D1 - 🗹
\odot	Uitgaande actie 2 ACM/CIM	Geen Compact Interface Module	• •	D1 - D D1 - M
GPS Klok				
•				
Algemene Ingangen				
Studio 1 Ingangen				
Studio 2 Ingangen				
(E) Uitgangen				
Interface modules				
Algemeen				Toepassen Annuleren

33.5 Interface modules

🛄 Compact Interfa	face Module	×
Algemeen	■ Testmode	
Modules	D1 D2 D3 D4 D5 D6 D7 D8 A1 A2 A3 A4 A5 A6 A7 A8 Module 6000 Compact Interface Module	
GPS Klok		
(J) Algemene Ingangen		
Studio 1 Ingangen		
Studio 2 Ingangen		
Uitgangen		
Interface modules		
Algemeen	Toepassen Annu	leren

This window displays the status of all available inputs.

You can use the *Testmode* to check if the hardware is properly connected. To do so, check this option and operate the faders on the mixer (if you have configured it that way in the table). The LEDs will then go out or light up. An assigned action to this input will not be executed in *Testmode*.

34 Studio switch

A studio switch is intended for automatic switching of studios and for switching studios offline so that the mixer can be used for production work.

34.1 Master / Slave studio switch

For broadcasters with multiple studios AerOn Studio offers the possibility to build a multistudio system. A multi-studio system consists of one AerOn Studio Non-Stop server PC and (at the time of writing) a maximum of three AerOn Slave studios. The Non-Stop server PC switches the studios and external sources. The *Non-Stop server* is called Studio 0.

In studio 1, 2 and 3 an AerOn Slave studio will be installed. And depending on the need, an AerOn Event can be installed in one or more studios instead.

Operation of the studio switch

The automation on the *Non-Stop server* must be started before the automation on an *AerOn Slave studio* can be started. Once the automation on an *AerOn Slave studio* is started, additional buttons appear in the toolbar to request and release a studio.

Studio 0 is active. In Studio 1, 2 or 3 click on the button *Request Studio*. (*CTRL+ALT+A*)



Studio 1 is active. The studio can be released. Hotkey (CTRL+ALT+V)



As soon as a studio is requested, the non-stop server immediately switches that studio on and sends a message containing the ID of the next track with which that studio has to start. After a successful request, a studio is immediately switched to the transmission line.

A yellow timer indicates the remaining time of the item still playing on the *Non-Stop server*. This item remains unplayable and can be heard until the end. As soon as the yellow clock has counted down to 0:00, the next item in the studio will automatically start in *Non-Stop*.



When the item on the *Non-Stop server* has finished, the *Non-Stop server enters* hold mode.

Live assist

After a studio has been requested, a DJ can immediately start presenting. If you activate *Live Assist* during the yellow clock countdown, the yellow clock will continue to count down until you start the item in the *Cart-player*. As long as *Live Assist* is activated it is not possible to request the studio in one of the other studios. As soon as Live *assist is* disabled, the studio can be released and can be requested in another studio.

If you turn off *Live Assist*, the automation in the studio will automatically play in *Non-Stop* until you release the studio. The item playing then still runs from the studio until the end. After that, the *Non-Stop server* takes over the broadcast again unless a request has been made in another studio in the meantime. When the item in the *Studio* has finished, the *Studio will* go into hold mode. After that you can stop the automation or leave it on hold for the next program. If a studio is switched offline it can be used as a production studio.

<u>Tip:</u> As soon as a studio is requested, the automation in the studio will receive the ID of the track it is allowed to start and also the time at which it is determined. Do not move or remove this track from the playlist during the yellow clock countdown.

Failover

The *Non-Stop server* can take over a studio again in a number of situations. If the PC should crash in the active studio, the *Non-Stop-server* will take over the broadcast within 30 seconds. Even if playback errors occur on the PC in the studio, e.g. due to interference with the sound card, the *Non-Stop-server* will, as a precaution, switch the studio off-air immediately and take over the broadcast immediately.

Aeron Event

For users who want to record a program in one of the studios using the *Live assist-cart* players or if you want to train DJ's in a test environment, while the *Non-Stop-server* or another studio takes care of the broadcast, there is the possibility to install an AerOn *Event* instead of an *AerOn Slave studio*. An AerOn *Event* can function as an AerOn *Slave studio as well* as a stand-alone playout and can therefore be used in a mobile studio as well as in a multi-studio system. An AerOn Event can run 24/7 as a slave studio. Tailor-made solutions can be offered for setting up such a setup. Please contact us if there is a need for this.

Time synchronization

With a multi-studio system, it is important that the time clock on all PCs runs exactly the same. This is important in order to be able to switch seamlessly on the same time basis. There are several possibilities to easily synchronize with an internal or external ntp server. For example NetTime http://www.timesynctool.com

Sample arrangement RME Studio Switch



RME HDSPe AES sound card connected in series with a Sonifex RD-DSS10 which allows a studio to be switched directly to the transmission line if the Non-Stop server requires maintenance.

See chapter 27.2.3 on setting up the RME Matrix mixer.

34.2 Behringer MX882 as studio switch

For radio stations with a smaller budget that want to be able to route AerOn Studio in non-stop mode outside the mixer/studio, the Behringer MX882 is a very affordable solution.



Block diagram Behringer MX882



34.2.1 Audio routing MX882

Input Main Left = Sound card channel 1 or other channel number used for the left output of the **AerOn Studio** non-stop signal. (setting in AerOn Studio)

Input Main Right = Sound card channel 2 or other channel number used for the left output of the **AerOn Studio** non-stop signal. (setting in AerOn Studio)

Left main output = to left input of a stereo transmitter, STL or cable modulator. Right Main output = to the right input of a stereo transmitter, STL or cable modulator.

Input 1 from the master output of the mixer on the left. = Output 1 =not connected. Input 2 = from the master output of the mixer on the right. Output 2 =not connected. not connected. Input 3 = Output 3 =split of input main left = Sound card > to mixer first AerOn Studio channel on the left. Input 4 not connected. =

- Output 4 = split of input main right = Sound card > to mixer first channel from **AerOn Studio on the** right.
- Input 5 = Output soundblaster left. (with external source faded by **AerOn Studio** via additional sound card)
- Output 5 = possibly to mixer to external source faded by **AerOn Studio** during to be able to listen to the open fader.
- Input 6 = Output soundblaster right (with external source faded by **AerOn Studio** additional sound card)
- Output 6 = possibly to mixer to external source faded by **AerOn Studio** during to be able to listen to the open fader.

Position of the control buttons

Main Link = on at nonstop, off at live. Input 1 & 2 = "split" at nonstop, "mix" at live. Input 3 & 4 = always in "split" position. Input 5 & 6 = always in "mix" mode.

So only the buttons with orange text need to be converted when switching between nonstop and live (three buttons in total).

The balance of inputs 1, 3 & 5 are completely to the left. The balance of inputs 2, 4 & 6 are completely to the right.

Diagram audio routing



35 InOutBox

Many broadcasters use news and other info-items that enter the studio via the internet. The program *InOutBox* makes it possible to make these directly available to AerOn Studio. This program can be found in the AerOn Studio software folder in Windows Explorer.



At 'Inbox' you specify one or more folders in which the new items enter and at 'Outbox' you specify one or more folders where those items should be moved to. In addition, you must also specify the extensions. *InOutBox* only moves files that comply with the set extensions. Waveform files with extension .bpk are always moved and therefore you don't need to set that extension.

As soon as a new audio file is available in one of the inboxes, *InOutBox* tries to move the audio file to all outboxes immediately and logs the time when this happened. Files still in use by Windows Explorer or FTP software during copying, for example because they are still being downloaded, will be monitored and processed and moved as soon as the files are released by Windows Explorer or the download software.

When a connection is set up with the AerOn database, *InOutBox* also updates the times in the database.

The audio files may be moved to any audio folder. As long as that folder is configured as the root folder in AerOn Studio or is a subfolder of one of the root folders. You no longer need to use the familiar In folder as was the case in PC-Radio. The advantage of this is that the configuration in AerOn Studio is a lot easier and that you always have the latest version of the audio file available in the audio folder immediately after downloading. In the InOutBox settings (Tools Preferences \rightarrow), you specify one or more folders for incoming files, one or more folders to which outgoing files are moved, and also the extensions of the files to be processed. For example, here you can choose .flac, .wav, .mp3 (but certainly not .bpk because InOutBox handles them automatically itself) and extensions of other file formats you may use. InOutBox leaves files with a different extension, than the ones that are set, untouched.

If there is an *InOutBox license*, you can also set up a database connection. When the connection to the AerOn Studio database is established, you will see the available *Item browser categories* if available. After selecting the desired Item *browser category, InOutBox* places incoming items in this category and ensures that new content is immediately visible in *Item browser* when this category is open.

When a different category is opened in *Item browser*, the category updated by *InOutBox* will be *highlighted in red* so that it is immediately clear that new items have been placed. For example, if an editorial staff places new files in a folder, the DJ / presenter can immediately use those items and drag and drop them into his *Playlist* or *Jingle players*.

🍄 Preferences	×
🖅 In folders 📄 Out folders 🗐 Extensions 💔 Database 🕴	🔅 Other
Database	
aeron_dba@127.0.0.1:5434 - aeron_john_db	<u>M</u> odify
category	A A
► Gebruiker	
Hits	
Jingle	
► Jingles	
▶ John	
► LO-res	
► Multicam	
► Muziek	
Nieuws en info	
 Voicetrackers 	•
ок	Cancel

On the tablet 'Other' you can adjust the settings below.

- Auto start With this option InOutBox will start immediately when the user is logged in to Windows. For this purpose a shortcut will be placed in 'Startup'. Turning this function on or off only works if you start *InOutBox* with an administrator account. (Run as Administrator)
- *Minimize to tray* With this option, the program minimizes to the system tray and remains visible there as an icon. This option also prevents you from closing *InOutBox* accidentally. If necessary, you can still close *InOutBox* by right-clicking the icon in the tray and selecting *Exit* from the menu.

- Start level AerOn Studio automatically determines the 'fade-in start' point for new tracks based on the level in the file. Enter the desired level here. (Only applicable with InOutBox license)
- *End level* AerOn Studio automatically determines the 'next' point for new tracks based on the level in the file. Enter the desired level here. *(Only applicable with InOutBox license)*
- Auto gain Since not all tracks are equally loud, it is advisable to correct the gain so that the standard playback level reaches -18 dB. You can also turn this option off, for example, if you play classical music and the tracks have already been given the correct level beforehand. *(Only applicable with InOutBox license)*
- PublishNew tracks in the database will be published as you set here. (Only
applicable with InOutBox license)
- Available planner Normally all tracks are available for *Formatplanner* and the user. For tracks that should not be automatically scheduled by *Formatplanner*, you can uncheck 'Available planner'. If 'Available user' is checked, the track can still be manually scheduled by the user via *Database browser*. (Only applicable with InOutBox license)
- Available user You can check this option to place tracks in a particular *Item brower* category while you do not want to make the imported tracks available to all users. If this option is unchecked, the imported tracks will not be visible in *Database browser* (Only applicable with InOutBox license).

Multiple instances of *InOutBox* can be started, each with their own configuration. To create such a configuration, we place a number of shortcuts to *InOutBox.exe* and refer in each shortcut to a unique ini file containing the specific configuration.

In the example configuration below, FTP folders of various users are set as Inbox. When a user uploads a file via ftp, *InOutBox* moves the file to the user's own audio folder and also copies it to an archive folder in the FTP folder. The file data in the *Item browser category* will be refreshed or added if it is a new item. For new audio files, data in the ID3 tag is automatically imported into the database. With a tag editor such as mp3tag, you can edit id3 tags.



To start multiple *InOutBox instances*, we create multiple shortcuts and also multiple ini files.



In each *InOutBox shortcut* we set the full path to the corresponding .ini file in 'Target' as a parameter. E.g. "D:\InOutBox_FTP_Kees.ini".

😰 Eigenschappen van InOutBox_FTP_Kees			×			
Beveiliging Algemeen	Beveiliging Details Vorige versies Algemeen Snelkoppeling Compatibiliteit					
F Ir	nOutBox_FT	P_Kees				
Doeltype:	Toepassir	ng				
Doelmap:	InOutBox					
Doel:	Box.exe"	"D:\InOutBox\InOu	.tBox_FTP_F	Kees.ini"		
Beginnen in: Sneltoets: Uitvoeren:	eginnen in: "C:\Program Files (x86)\Broadcast Partners\Aeror Ineltoets: Geen			rs\Aeror		
Opmerking:	Programm	na Kees in de morge	en			
Bestandslocat	ie openen	Ander pictogram	. Geavar	iceerd		
		OK An	nuleren	Toepassen		

Contents of an InOutBox ini file:

InOutBox_FTP_Kees.ini - Kladblok		_		\times
Bestand Bewerken Opmaak Beel	d Help			
[Item browser]				1
Key=554cd8cc-eba5-4ab4-b62	6-345dcf4	ebd2e		
[General] MinimizeToTray=1 StartLevel=-50 EndLevel=-20 Publish=0 AutoGain=1 ActivePlanner=1 ActiveUser=1 [Database]				
ConnectionString=Provider=	PostgreS0	L:Serve	r=127.	0.(
[InFolders] Folder01=D:\FTP\Users\Kees [OutFolders] Folder01=D:\Audio\Users\Ke Folder02=D:\FTP\Users\Kees [Extoncions]	es \Archive			
[Extensions]				
Fxt02=.mp2				
Ext03=.mp3				
Ext04=.wav				
<				>
	Windows (Ln 1. Co	1 100%	

External headers/applications / Visual Radio

Multicam Systems Visual Radio

AerOn Studio has special links with different applications. For example, for Visual Radio we work together with the Visual Radio system of Multicam Systems.

Pluxbox RadioManager

AerOn Studio works together with RadioManager of Pluxbox. With this system you can create scripts for your radio program. It is also possible to make social media integrations.

E-power Radio & online

Do you use E-power for your advertising campanges? The *Commercialplanner Xtra* in AerOn easily reads the campanges in the E-power supply.

vMix Live Production & streaming software

AerOn Studio collaborates with vMix Live Production & streaming software.





EPOWER

radio&online



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37 AerOn Studio software license

With each AerOn Studio system one or more software licenses are realized by Broadcast Partners. These software licenses are machine bound by a **Hardware ID**. This Hardware ID is unique per machine. The Hardware ID can be found in AerOn Studio under Extend \rightarrow *Help System Info.* \rightarrow

🔁 Licentie registreren	of verlengen	×
Туре	Software licentie	
Sleutelnummer	Niet gevonden	
HardwareID	1052-AF14-46A3-5620-5E99-05D7-0039-317B	
Registratiecode - tekst		
		Registreer
Registratiecode - bestan	d	
		Registreer

The hardware ID of this example machine is indicated above with an arrow. This hardware ID is required per machine to create a license. If you give it to us, we can create a license for you with the modules according to your contract/agreement.

The advantage of a software license is that you are not dependent on a dongel, they are easily scalable and you prevent your automation from shutting down due to a faulty dongel.

Existing AerOn Studio USB dongles are also supported, but can also be converted to a software license. You can then return the dongles.

License codes that you receive by e-mail are pasted in the field *Registration code - text*. This field accepts HardwareID codes and 15-digit dongle codes.

37.1 Licences

The use of AerOn Studio OnAir and production drives is subject to licenses stored in the USB key or AerOn Studio software key. Renewing or extending a USB license key is done with the Renew program found in the AerOn Studio system directory.

Broadcast Partners will send you a timely-email with codes for renewing or changing licenses or software maintenance. Using an example, we will explain what to look out for when renewing licenses.

Here is an example of the codes provided for an AerOn Studio system:

Hardware ID

Copy the text below in its entirety, paste it into the field 'Registration code - text'. Register the license.

Aeron >> Hardware ID: 1055-4E4A-F44D-E5C9-7AD4-0E8B-1081-3C64 (License: 2019-04-02 - Software support: 2019-09-30)

072A28401179E9AA4591B3129F0C5D8B97F24B6BE654FE6C0EC989D30D933670448D852547DA58F 653B4E7A840B467CDD8C8977A6685AE16BB0C01686B9DDCD3ECEDC7878D0284E792183B2DB620 AB42C9CF76BAFBD2FE199D8DB09964FD7B944D2B1FD346A35...

Dongel

The *Date Limit* function indicates that this code is for renewing the license date. In the Serial # column you will see the key number and the RUC (number of codes entered), which you will find later in the Renew program. Each license key is accompanied by a different code, which you will see in the relevant column. If the function shows the text *Change program options*, then this code is intended for changing the license, so that you have more options at your disposal, for example.

There are two ways to renew or change a license:

- In AerOn Studio, select *Help* and *System info from* the menus and then press the license renewal button.
- <u>USB licenses only:</u> Use the *Start* button to select Windows *Programs* (or *All apps* in Windows 10), *Broadcast Partners, AerOn Studio* and *Renew license*.

The program you use to renew a USB license is Renew.exe.

Renew v6.7.3

S Progra	m To Update Key Limits (Renew.exe) 🛛 🗙
(i) Key Sca	n Aeron
Key Informati	on (Eligible)
Product-ID	: Serial Number: Used-Count: Validation:
Aeron	720010 0 3414
Today's Date:	20-3-2015 Сору
Enter Code:	(15 Digits To Enter)
	Cancel Process Code

The *Product ID* (AerOn Studio), *Serial Number* and Used-Count (RUC) shown must match the data in your e-mail. If these data do not match, the code will not work. In that case, please provide the information in this window to Broadcast Partners. The latter can easily be done with the Copy button. In the e-mail, you can then use Paste to copy the data without error.

When renewing or changing a license, you will receive a 15-digit code which you can then enter in the *Enter Code* field. Only the entered code works and also only once. In fact, entering 10 wrong codes makes the key unusable. In that case, only Broadcast Partners can reactivate the key. Only when you have entered 15 digits you can press the *Process Code* button to process the code.

The last window shows a summary. If you have entered an incorrect code, you will see an error message consisting of code and explanation in *Results*.

There may be some error situations when using the license key:

- 1. Error code *6043*: the license key is not present. AerOn Studio does not function at all. As a production system only the basic functionality is present, you can use the music database and create playlists, for example.
- 2. Error code 6075: renew code is invalid. You can get this message if you have entered the code with the outdated version 2.31.006 or if you have entered a code you made up yourself.
- 3. Error code *6143*: the license has expired. The end date on which the software was usable has expired. In this case, you need a code from Broadcast Partners to activate the software.
- 4. Error code *6144*: the date and/or time are set incorrectly. If you reset the date or time, the software will no longer function. AerOn Studio remembers the last moment it was used. Going back in time is not possible even if your license has expired.

If you receive an error code other than one of the above, please contact Broadcast Partners.

37.2 Software maintenance for USB dongle license

When you purchase an AerOn Studio system you will receive free software updates for a certain period of time (as specified in the purchase contract or rental agreement). If you wish to keep up with the latest developments afterwards, you will need to enter into a Service & Support contract (see also section 1.6).

Each new software release made available by Broadcast Partners includes a software maintenance date. Please note this when installing a new release: if the release date is after the end date of the software maintenance, you will not be able to use the software.

In the case of software codes for Hardware ID, the code for software maintenance is already included in the extension code. In the case of USB dongles, the software maintenance must be extended with a separate code. If you have received an e-mail to extend your software maintenance, you will see a similar section as shown below. This is a 10-digit code.

Serial # RUC Renew	v Code
AerOn Studio	
End of software maintenance: 31-12-2016	1412116992

You enter this code on all PCs that are part of your AerOn Studio system (i.e. on the OnAir and all production stations).

You can extend the contract in two ways:

- In AerOn Studio, select *Help* and *System info* from the menus and then press the prolong software maintenance button.
- Use the *Start* button to select Windows *Programs* (or *All Apps* in Windows 10), *Broadcast Partners* and *Extend Software Maintenance*.

If you extend the software maintenance in AerOn Studio you will see the following window:



Enter the ten-digit code and press *OK*. This code can be used for all PCs under the same license.

If you activate the program PC-Key via the menus you will get the following window (with your license number of course):

F	PC-Key ×
Information	
Product	Aeron 🗸
License:	14-7-2015
Software support:	30-6-2015
Serial Number:	720010
Used-Count:	0
Code for software s	upport
10 digit code	
	OK Cancel

After entering the correct code (make sure that AerOn Studio remains selected as the product), the program will indicate the date until which the extended contract runs. Software that appears until that time can then be used on your system.

PC-Key ×					
Information					
Product	Aeron 🗸				
License:	14-7-2015				
Software support:	31-7-2015				
Serial Number:	720010				
Used-Count:	0				
Code for software s	upport				
10 digit code 1243750496					
Result Software support has been updated succesfully.					
	Exit Cancel				

If you receive both license renewal code and software maintenance renewal code, first enter the license renewal code and only then the software maintenance renewal code.

- 1. Error code 6043: the key is not present.
- 2. Error code *6143*: the license has expired. Perform the renewal of the license first and then the renewal of the software maintenance.
- 3. Error code *6144*: the date and/or time are set incorrectly. Check it and re-enter the code.
- 4. "You have not entered a valid extension code. The code you entered is incorrect.
- 5. "You entered an invalid code 10 times. This message appears if you have entered the wrong software maintenance renewal code ten times in a row. The license key is protected and no longer accepts any code. You must send the license key to Broadcast Partners to unlock the security.
- 6. "You entered an old code. This code you entered is old. It is not possible to reset the date for end of software maintenance in time.

Troubleshooting and Summertime/Wintertime

Although the greatest care has been taken to ensure that AerOn Studio functions optimally, problems can still occur. In this chapter we will try to indicate how you can best deal with this. How do you solve a problem, how do you prevent it and how can you minimize its consequences?

Especially if you are a recent user of AerOn Studio, you may not know all the functions yet. We recommend that you read the manual in its entirety after you have had your first introduction to the system. By keeping the manual with your system as a reference, you will be able to solve most issues yourself. This manual has been written by technicians who know the system inside out. As a result, certain things may occasionally be considered familiar, while new users would like to see a more detailed explanation. We ask you to inform us in writing by email at support@broadcastpartners.nl of any ambiguities you encounter in the manual, and we will try to amend the text in a subsequent edition of the manual.

It may happen that an unexpected error message appears on the screen after you click OK, the message disappears and nothing else is wrong. This category of messages has no consequences for the further operation of the system. Of course we would like to solve this in a next software release. Do you get the same message again if you repeat the operation? In that case we would like you to notify us in writing by email.

Indicate the exact problem, trying to describe as well as possible the actions that are successively needed for reproduction. In addition to a detailed description, it is also useful for us to receive the error log file. Error messages that occur in Aeron are logged in a file Aeron.el. Add this file as an attachment to your email. This file can be found in the Datamap.

The following category will result in AerOn Studio or a part thereof no longer functioning properly after the problem has occurred. In that case, close AerOn Studio . You can then restart AerOn Studio after which everything will function as expected. If stopping and restarting AerOn Studio does not have the desired effect, or if it is even the case that you can no longer shut down AerOn Studio, you will have to restart the system.

In the history playout log, in addition to played items, certain errors are also logged. For example, if automation skips an item because the audio file is not present. Or if playback cannot take place due to an audio card failure. In that case, try to find the cause with the messages in the history playout log. The check function in the playlist menu allows you to check the presence of files.

By following the above procedure, you will often solve the problems in the quickest possible way. It makes little sense to call the support of Broadcast Partners before you have gone through these steps, if you have not done this yet, you will still be asked for it.

In all cases: is the problem reproducible? If yes, please provide the exact version number of the software used and the steps to be followed, as well as the message that appears on the screen. The more accurate you are in your description, the sooner we will be able to find and solve the problem.

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38.1 Backup

Probably you have heard it before: take care of a proper backup of databases and audio files. Often enough arguments are given not to make a backup: a backup system is an extra cost, making a backup is complicated, the equipment is just new so nothing gets faulty. These are all known arguments. Unfortunately it is true that the lifetime of a harddisk can only be estimated. Assuming an average life span of three years it turns out that many harddisks are still running after years and unfortunately it sometimes happens that a three month old harddisk gives the ghost.

Make no mistake: the PC in an average office turns on every morning and off every afternoon, so the hard disk does not run more than 43 hours a week. The harddisk in automation is in continuous operation and runs 168 hours a week. That's about four times as much! So avoid problems and make regular backups!

38.2 Winter and summer time

The transition from winter time to summer time and vice versa has consequences for the automation of AerOn Studio. Below is a description of what should happen in those cases.

Transition from winter time to summer time

For this we advise to make 1 sliding block from 01:00 hrs winter time to 04:00 hrs summer time at night. It is important that there are no fixed or semi-fixed items between these times! These tracks will play the automation normally. A few seconds after the actual winter/summer time transition, the automation will change the start time of all tracks in that block so that all songs still to be played will get the correct, new start time according to daylight saving time. If there are multiple fixed or semi-fixed blocks between 01:00 and 04:00, it is possible that a number of minutes 2 or more songs are played at the same time.

Transition from summer time to winter time

For this we advise to make 1 long sliding block from 02:00 hours summer time to 04:00 hours winter time. It is important that there are no fixed or semi-fixed items between these times! Make sure this block contains at least one extra hour of songs to have enough music or audio in the extra hour for this exceptional day of 25 hours. So at least three hours of music must be programmed.

The music in the block will be played in that order. A few seconds after the actual summer/winter time transition, the automation changes the start time of all songs in that block so that all songs still to be played get the correct new start time (in winter time). If the block that contains the summer/winter time contains too few songs, it will be silent until the end of the block.

39 AerOn Studio at home

AerOn Studio is excellent for use at home (or anywhere in the world). For example, it is possible to consult the studio's database or record voicetracks from home. From home you can access the audio folders and database in the studio using a VPN connection (Virtual Private Network). In this case, you can add database tracks and edit playlists (including recording voicetracks) directly in the studio. With the synchronization module you can easily transport the new audio files and possibly voicetracks to the studio. You can also call up the synchronization module from the playlist. In this way you can easily synchronize audio files and voicetracks with the studio via a selection from your playlist.



To install the software, follow the description in chapter 30. In most cases you have one PC at home that you use to connect to the studio. In the installation program, select the components *AerOn Studio software*.

39.1 Configuration

Before you can get started, a number of things need to be configured, both in the studio and at home. A detailed description of these is beyond the scope of this manual, as it only concerns Windows or your specific hardware. On the internet you will find various descriptions that can be useful when setting up a VPN connection, among other things.

Studio

Configure the VPN server.

If there is no dedicated VPN server in the studio network, you can configure an incoming connection on the OnAir PC that accepts VPN requests.

The Internet router configures for VPN access. Set port forwarding to port 1723 to the IP address of the VPN server in the studio network. Depending on the router, VPN passthrough must also be activated. Often a firewall is also active, in which access to the PostgreSQL database server must be allowed through. Each firewall must have an exception for postgres.exe and/or port 5432.

At home (or anywhere in the world)

First configure a VPNconnection in Windows. In the Windows network center, you must set up a new connection using "establish a connection to a company network". To do this, you will need the external IP address or DNS name of the studio router, including a user name and password.

The speed of data transfer is determined by the slowest factor, i.e. the available upload bandwidth.

After the VPN connection is established, create a network mapping via a disk letter, for example disk V:. The disk letter refers to the AerOn Studio share on the AerOn Studio OnAir PC in the studio, for example AerOn StudioData. The letter V:\ then refers, for example, to AerOn <u>STUDIO-ONAIR\AerOn Studio Data</u>. or, for example, to \\192.168.1.200\AerOn Studio Data.

When starting AerOn Studio for the first time, you need to set up the database connection to the studio. The window below will appear automatically at the first start. If you have previously set up a database connection, you can press the *Shift key* during the start of AerOn Studio to make this window appear. You can also open the window via *Settings Global* \rightarrow *General* \rightarrow > Database *Connection*.

In the *PostgreSQL database connection* window, you must enter the data you received from the system administrator. If you do not know the name or IP address of the server in the studio, you should still contact the network administrator.

If you do not get access to the PostgreSQL database server after entering the correct data, access may be blocked by a firewall.

PostgreSQL database verbinding					
Server	192.168.1.100				
Poort	5432				
Database	aeron_prod_db				
Gebruikersnaam	aeron_vt_user				
Wachtwoord	********				
	Test <u>Q</u> K Annuleren				

When you work from home or another remote location via the internet, the database connection is a lot slower than when you work locally within the network of the radio station itself.

You can see information about the database connection in AerOn Studio by the database icon at the bottom left, and in *System Info.*

PostgreSQL	
Server versie	10.7
Database	aeron_dba@172.16.17.40:5432 - aeron_john_db

aeron_dba@loca	host:5432 -	aero	•_•• ©	od_0		۵	

To make remote working fast, it is nice if the audio files of the radio station are also locally present at home. The best way to do this is to carry the files once (possibly lo-res) on an external USB harddisk, for example. AerOn Studio offers the possibility to easily synchronize files that are added afterwards in the studio with those added at home. After copying the files, the first step is to indicate which folders will be used for the local (home) files and which folders will be used for the remote (in the studio) files. If desired, so-called lo-res files can be used. The configuration of these files is different and can be purchased additionally.

You can also choose to synchronize audio files using the playlist selection, so that a user only needs to synchronize the audio files from the selected hour.

Open the settings screen via the Tools Settings \rightarrow Global \rightarrow menu and fill in the local and remote audio folders.

🔯 Instellingen	×
Globaal	Remote audio mappen
***	Map R:VAudio
Algemeen	
📂 Audio lokaal	
<u>.</u>	
Audio remote	
Scan rechten	
	+ +, -
🍯 Globaal	Remote map voice tracks
Lokaal	R:\VoiceTracks
💂 Gebruiker	Controle Toepassen OK Annuleren

On the *Local Audio* tab, fill in the folders that are on your local hard drive at home. On the *Audio remote* tab you fill in the folders that are on the server in the studio. These folders can only be accessed after making a VPN connection.

39.2 Voicetracks recording

This chapter describes how to proceed when recording voicetracks at home.

The first step in voicetracking from home is to set up a VPN connection between the studio and the home network. After activating the VPN connection, the network connections are not always automatically activated. That is why you must open 'This computer'. If the folders in the studio are linked via, for example, V:\, you must click and open the V: disk. This ensures that the audio folders are activated and can be accessed by AerOn Studio.

If you start AerOn Studio with a local database and the remote audio folders are (temporarily) not accessible, for example because the VPN connection is not activated and the option *Remote audio folders* is accidentally ticked anyway, this can cause problems. For example, AerOn Studio can react less quickly if the software tries to access the V:\ disk at that moment. If the VPN connection is briefly lost while AerOn Studio is connected to the database in the studio, you will need to shut down and restart AerOn Studio to re-establish the database connection. Once the VPN connection is established, you can start recording voicetracks.

At the very first scan of all remote audio files in the synchronization module, the search for remote files can take a long time. Once the scan of all remote files is finished and the list to be processed is loaded in the synchronization window, the remote file list will be saved locally. From the second synchronization onwards, the loading of remote files will then take less time. It is therefore recommended to perform a full scan of all remote files before starting to record voicetracks for the very first time.

You may skip the file list to be processed, if the sole purpose is to build a remote file list. If you apply the file list anyway, copying will be started and all remote files that are not yet locally on your hard disk will be copied to you. Whether you are allowed to synchronize depends on your assigned user rights within AerOn Studio. If applicable, ask the person who manages the user rights for permission.

How to record voicetracks

- 1. Activate the VPN connection.
- 2. Start AerOn Studio.
- 3. Activate the remote audio folders via menu Users.

Remote audio mappen actief

After activating the remotemaps, AerOn Studio starts compiling the remote file list. This list is loaded into the memory. The turnaround time of all remote folders also depends on the internet speed.

4. Close *Mix editor* if open.

Mix editor is always looking for files. If one or more files are not available locally it takes longer to load a playlist and *Mix editor* because all audio folders are then searched.

When audio files are not available locally, it takes longer to navigate through the playlist and mix editor because the audio file is searched in the playlist when the item is clicked and Mix editor always loads the following files as well. To load the files, AerOn Studio searches through all audio folders to find them and eventually finds that a file is not present. It is best to synchronize the audio files before navigating through your hour in the playlist.

5. Open the playlist in which you are going to record voicetracks.

Make sure again that you are logged in to the studio's database. If you start with a local database, the voicetracks will end up there and not in the playlist database of the studio.

6. In the block navigator, select the playlist hour in which you are going to record voicetracks.

7. Synchronize the audio files between the studio (remote) and your PC (local).

In order to record voicetracks, you need the local audio files of the *Playlist block* in which you are going to record. Therefore, you must first bring the audio files to you using the *Synchronization module*. To synchronize the audio files, first select the items in the playlist block. Select the top item of the playlist block into which you want to record the voice tracks, hold down the SHIFT key and click on the bottom item of the playlist block. All items in the hour are then selected. Open the *Playlist popup menu* with the right mouse button and choose *Sync Audio Files*.

2	Synchronisatie	Voice tracks
	Controle	Audiobestanden

The Synchronization window opens, the file list of the selected items in the playlist is loaded. Click *Apply to* copy the (lo-res) audio files to your home.

If you are about to synchronize again, remove all lines from the synchronization window after the synchronization is complete. This will give you a better overview.

When audio files are not available locally, it takes longer to navigate through the playlist and mix editor because the file is searched in the playlist when the item is clicked and mix editor also loads the following files. In order to load the files, AerOn Studio searches all folders to find the file and eventually finds that a file is not present.

8. Open *Mix editor* and record your voicetracks. Don't forget to save your changes. See also chapter Mix editor.

You can adjust your personal voice track settings such as ducking, fading and levels via $Preferences \rightarrow User \rightarrow Personal \rightarrow Voice track$

Tip: You can activate 'Automatic saving' in *Mix Editor.*

9. Synchronize the voicetracks between your PC (local) and the studio (remote). After recording your voicetracks, again select the hour in the playlist in which the voicetracks are recorded. Open the *Playlist popup menu* with the right mouse button and choose *Synchronization Voice* \rightarrow *tracks*.

2	Synchronisatie	Voice tracks
	Controle	Audiobestanden

The synchronization module opens. Click *Apply* to synchronize the voicetracks and copy them to the studio.

- 10. Verify that the voicetracks have been transferred to the *Remote map voice tracks*.
- 11. Exit *Mix Editor*. Next time you log in, *Mix editor* will not open automatically. You will then be able to start synchronizing more quickly.

MIC processing with voicetracks

To ensure that voicetracks can be played loud enough, it is necessary to always speak into a microphone with voice processing behind it so that the Loudness (RMS value) of the audio is increased. Without voice processing (compressor / limiter), there are more peaks of 0 dB and average loudness is lower. Harder than 0 dB is not allowed within AerOn Studio. So even if you increase the gain, a voice track will not play louder once there is a peak 0dB. The higher the RMS of a voice track, the better it will sound over the music, with the result that less ducking of the music is required, so that music-speechmusic transitions will sound better. An RMS value of about -12dB is good. An alternative to a voice processor is to use the VST plugin.

VST plugin (VST voice track plugin)

Mix editor supports VST2 plugins.

AerOn comes standard with some free and trial VST2 plugins.

To complete your VST plugin dll see Preferences \rightarrow General \rightarrow Voicetrack \rightarrow VST

Once a VST plugin has been filled in, you can set the plugin as desired after recording an initial voice track. While playing the voice track, you can listen to the VST plugin effect and voice processing. You have to set the VST plugin once to your own taste. When a subsequent voice track is recorded, the set VST plugin voice processing will automatically be applied and stored in the voice track.

39.3 Sync audio files

After you have taken the audio files from the studio home with you, it is often desirable to keep the files up to date at home. AerOn Studio offers the possibility to synchronize for this purpose. In this case you synchronize all audio files and not only the audio files that are in that one hour with voicetracks. It goes without saying that this will take a bit more time because it will involve many more files.

This option can be found in the menus under *Tools Synchronize* \rightarrow .

Whether you are allowed to synchronize depends on the user rights assigned to you within AerOn Studio. The synchronize option only becomes active if you are allowed to synchronize and if the remote audio folders are also active. Therefore, activate the remote audio folders in AerOn Studio via the *Users* menu.

Remote audio mappen actief

After you have opened the Synchronization module click on *Local & remote scan*. The search for local and remote files is started. When the search is completed, a list of files to be processed is built up in a second step. When the search is finished the list will be loaded. Using the set paths, AerOn Studio provides an overview of the files in the studio that are not yet available at home and vice versa. These can then be easily synchronized. The turnaround time depends on the speed of the internet connection and the number of audio files to be synchronized.

Audio files and voicetracks can only be synchronized if AerOn Studio is connected to the database in the studio.

AerOn Studio at home

🧭 Synchronisatie audiobestanden						×
			Gewijzigd op		Gewijzigd op	
Waiting For Love - Avicii & Martin Garrix feat. Jo						
For A Better Day - Avicii						
The Nights - Avici		D:\Audio LO-res\Avicii - The Nights.mp3				
On My Way - Axwell & Ingrosso						
Sun Is Shining - Axwell & Ingrosso						
Teach Me - Bakermat						
How Deep Is Your Love - Calvin Harris feat. Disc						
Pray To God - Calvin Harris feat. Haim						
I Really Like You - Carly Rae Jepsen						
Teach Me How To Dance With You - Causes						
Marvin Gaye - Charlie Puth feat. Meghan Trainor						
Christine - Christine & The Queens						
Adventure Of A Lifetime - Coldplay						
Everglow - Coldplay						
We Don't Make The Wind Blow - Common Linnets						
You Know You Like It - DJ Snake & Alunageorge						
Lazarus - David Bowie						
What I Did For Love - David Guetta feat. Emeli S						
Hey Mama - David Guetta feat. Nicki Minaj & Afro						
Treur Niet (Ode Aan Het Leven) - Diggy Dex fea						
Holding On - Disclosure feat. Gregory Porter						
Omen - Disclosure feat. Sam Smith						
Holding on - Disclosure ft. Gregory Porter						
Hungry - Dotan						
Let The River In - Dotan						
469						
- 2 - 2						
Lokaal & remote scannen 🔻 1 geselecteerd	bestand. 2,1 MB te kopiëren.			Toepas	sen Sļuiten	

According to the date on which an audio file has been changed, it is compared locally (in your home) and remotely (in the studio) and suggests in which direction an audio file is copied: from local to remote or vice versa. As a user, you can still change the actions before you apply them. You can also manually choose to delete an audio file locally or remotely. Deletion is only done at your own discretion and is never suggested.

Tracks that you have added to the database at home will get the status '*Present*' in the database during synchronization (*to the studio*). If you refresh the *database browser* after synchronizing, these tracks will immediately become visible in the *database browser*.

Verwijderen	Ctrl+Del
Selectie omkeren	
Actie wijzigen	>

The synchronization module remembers the items you have synchronized until you exit AerOn Studio. The items are remembered so that you can check which items you have synchronized before. Through the menu you can delete the items if you synchronize several times in a row.

40 Translate AerOn Studio

By default, AerOn Studio can be used in Dutch or English, but can easily be translated to other desired languages. You install the Language Manager program for this purpose.

The installation of Language Manager is quite simple, as you do not need to change any settings in the installation program. After the installation, you can start the program using the *Start Programs*-> menus (or *All apps* in Windows 10) Language \rightarrow *Manager Language Manager*->.

In the *Help Contents* \rightarrow menus you will find extensive information about how the program works. This chapter provides a brief description of the work involved in translating AerOn Studio into the language of your choice.

The Language Manager translates the software from the 'native' language (Dutch) to any other language. The language files have the extension .Ing and are located in the folder of AerOn Studio.

The Language Manager itself is available in seven languages. To set it in Dutch, go to *Edit Options* \rightarrow in the menus. In the window below you go to the *Language* tab to choose another language.

Options	×
General Repository Colors Libraries Language	
Select interface language	
English V	
English Finnish French (France) German (Germany) Hebrew Hungarian (magyar) Italian (Italy) Latvian	
OK Cancel Help	

In the further description of the program we assume that the language will remain set to English.

Choose *File Open* \rightarrow to open the native language of AerOn Studio. This file has the name Aeron. ntv.lng.

Manual AerOn Studio

Language Manager - C:\Program Files (x86)\Broadcast Partners\Aeron\Aeron.ntv.Ing - 🗆 🗙
File Edit Search Language Repository Libraries H	lelp
🖆 🗅 🚅 🗐 🐇 🛍 💼 📼 🛅 🛞	₽ +
Forms (66)	row Native Language Show: Both
Properties Native / Dutch	^
Formatplanner.cxTabSheetDagFormat.Ca DagFormat	
Formatplanner.cxTabSheetExtra1.Captiol Extra1	
Formatplanner.cxTabSheetExtra2.Captiol Extra2	
Formatplanner.cxTabSheetExtra3.Captiol Extra3	
Formatplanner.cxTabSheetExtra4.Captiol Extra4	
Formatplanner.cxTabSheetExtra5.Captiol Extra5	
Formatplanner.cxTabSheetGeneral.Capti Algemeen	
Formatplanner.cxTabSheetInfo.Caption Info	
Formatplanner.cxTabSheetInstellingen.Ca	Open language(s)
Formatplanner.cxTabSheetLanguage.Cal T	
Formatplanner.cxTabSheetPlanning.Capt P Languages	Open
Formatplanner.cxTabSheetUurBrowser.(U	any)
Formatplanner.cxTabSheetUurFormat.Ca	e) Cancel
Formatplanner.cxTextEditVastItem.Hint S	Help
Formatplanner.cxTimeEditDuur.Hint T	Ticp
Formatplanner.cxTimeEditExternAudioDu T	
Formatplanner.cxTreeList1cxTreeListCol Z	
Formatplanner.cxTreeList1cxTreeListCol S	
Formatplanner.cxTreeList1cxTreeListCol	
Formatplanner.cxTreeList1cxTreeListCol Up	
Formatplanner.cxTreeList1cxTreeListCol Fast	
Formatplanner.dxNavBarGroupAuto.Cap Planning	×
586/2548 DagFormat	RL: 100%

Language Manager has opened the 'native language' and shows the available translations in a window. For most users it will be useful to open the English translation. You can do this by ticking it.

You can now edit the texts in the English translation or add a new language using the $File \rightarrow Create New Language$ menus.

Create new language	×
Based On Language	
Native	~
Language Identifier	
···· isiZulu (Zuid-Afrika)	^
▲ Italiaans	
Italiaans (Italië)	
Italiaans (Zwitserland)	
···· Japans (Japan)	
·····Kannada (India)	
Cambodja)	
English Name	
Italian (Italy)	_
Localized Name	
italiano	
Abbreviation	
ПА	
Always show untranslated as native	
Try to automatically translate via Google	
OK Cancel Help	,

Based On Language For the new translation, the Language Manager copies the texts from an existing language. For most users, English will be the most obvious choice.

Language Identifier

Here you choose the new language. Some languages are spoken in several countries with sometimes different word usage. For Italian you can distinguish between Italy and Switzerland.

You can leave the other options unchanged here. After pressing OK a new language file will be created and you can start translating the application.

The texts in the software are divided over different modules. The most convenient method is to finish the translation per module, so that you keep an overview of the work. Language Manager has a large number of functions that can be useful when translating. These can be found, for example, under the menu of the right mouse button.

After you have translated (part of) the texts, save the file and create a resource DLL with *File Create DLL* \rightarrow . Language Manager then creates a file with the translated texts that can be used by AerOn Studio. You must do this every time you have translated texts.

In the example of an Italian translation, the file Aeron.ITA.Ing contains the texts you have translated into Language Manager. With the command Create DLL it creates the file Aeron.ITA which is then used by AerOn Studio.

With the appearance of updates of AerOn Studio texts are added or changed to the software. The AerOn Studio software (Aeron.exe) and the translations (*.lng) belong together per version and cannot be used interchangeably. If you use them interchangeably, it is quite possible that wrong texts appear everywhere in the software.

To process your translated texts in an update of the software you must send the language files (Aeron. *XXX*.Ing and the standard language Aeron.ntv.Ing) to Broadcast Partners. There it is ensured that the new texts become an integral part of AerOn Studio. Should you subsequently translate or improve more texts, you can always send the language files again.

Manual AerOn Studio

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Α

В

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Translate AerOn Studio

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Adobe Acrobat	
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Airwave	
AudioFire	
Axia	
Axum	

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BCS-25	
bpk	
Buma	
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Carmen	
CIM	9, 109, 216
Compact Interface Module	

D&R	
Dalet	
Dateq	
Delta 1010	
Digigram	
dongel	

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Marian	
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mp2	
mp3	
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PCM wave	
PDF	

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Radix	
RCS Traffic	
RDS	
Renew32	
RME	

Shoutcast		
ShuttlePro		122, 176
software maint	tenance	239
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TeamViewer	
Terratec	
Texture	20
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Traffic 2000	71
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uurgetal	
	V
VPN	
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wma	9
	X
XML	

Opties

AerOn Studio shortcuts

Windows	
Alt+F11	Database editor
F11	Database browser
Ctrl+F11	Item browser
Ctrl+B	File browser
F8	Jingle players
F5	Mix edtior
F12	Live assist players
Ctrl+M	Multi criteria editor

Live assist

- F1 Cue Cart A Play/Pauze Cart A F2
- F3 Cue Cart B
- F4 Play/Pauze Cart B
- Enable/disable live assist F7
- F12 Open window

Programme

Ctrl+F4	Close
Alt+F4	Close
Ctrl+Z	Undo
Ctrl+X	Cut
Ctrl+C	Сору
Ctrl+V	Paste
Ctrl+W	Modify
Ctrl+Ins	Add
Ctrl+Del	Remove
Ctrl+F	Search
Ctrl+P	Start playback (PFL)
Spacebar	Start/Stop playback
Ctrl+S	Stop playing/recording
Ctrl+R	Start recording
Ctrl+Alt+E	External audio editor
Ctrl+Alt+A	Request Studio
Ctrl+Alt+V	Release Studio

Playlist

F9	Playlist today
Sift+F9	Playlist of tomorrow
Ctrl+F9	Playlist of the day after tomorrow
Ctrl+V	Paste with times from playlist
Ctrl+E	Paste with times from database
Ctrl+T	Update times from database
Ctrl+K	Release Blocks
Ctrl+N	Renew
Ctrl+W	Change Item
Ctrl+U	Filling-out Items
Ctrl+L	Sliding items
Ctrl+D	Autostart next item
Ctrl+O	Automix jingle under intro

If you want to use the Live assist hotkeys you need to enable them in the AerOn settings. You can do this via these settings.

- 🗹 Live assist automatisch uitschakelen bij het starten van een uitvulblok o
- 🗹 Nonstop altijd spelen in Cart A
Handleiding AerOn Studio



Gercon studio



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