# **Music Scheduling with AircastDB**

This article applies to Aircast 5.x and 6.x. For Aircast 4, see the old version of this tutorial.

In this article, we will show you how to import your audio files into AircastDB and set up the "Mini Scheduler" music scheduling for 24/7 automated operation (or live assist, or mixed).

We assume that the AircastDB connection has already been set up as described here:

- <u>SQLite backend setup</u> (local mode)
- <u>PostgreSQL backend setup</u> (networked)

You should be able to run the AircastDB application ("database window") from the Windows Start Menu (Aircast (Version)  $\rightarrow$  Database).

## **Step 1: Add Audio Folders as Storages**

AircastDB keeps a list of your audio files in its Library, so the first step is to tell AircastDB where your audio files are. We do this by registering one or more Windows folders (on your local hard driver or a network share) as **storages**. (In future versions, it might be possible to use other locations, e.g. servers in the cloud etc. - that's why the term "storages" is used instead of "folders").

So go to Administration  $\rightarrow$  Configuration  $\rightarrow$  Storages and add one or more folders.

Do not add individual subfolders of another storage! AircastDB will automatically scan all subfolders!

Database C	onfiguration				×
Storages	Stations Sub-Playlists	Mini Scheduler	Standard Attributes	Playlist Attribu	tes
ID	Name	De	fault Location	[	Items
1	music		(music\eigene		811
2	Jingles	F:	\eldoradio \jingles		111
4	Werbung	W	CLUBHOUSE\data\mp3	stuff\Werb	14
6	C:\temp	C	:\temp		0
7	Test-Storage	D	\data\Test-Storage		1
Ad	d Remo	ve	Edit	ОК	Cancel

You will be able to enter a name and description for each storage that will later appear in the menus - by default, the name is just the folder name.

When you're done, click OK - you will be prompted to restart AircastDB.

## **Step 2: Synchronize Storages**

Now we are ready to scan your hard drive (the registered storages) for audio files. Click the *Synchronize* button, select the desired storage (if you have registered more than one), and the Synchronize dialog will appear:

New Files	Missing Files
G\Gluedfer\(Gluedfer) Tender Is The Savage\01 (Gluedfer) I Got A War G\Gluedfer\(Gluedfer) Tender Is The Savage\02 (Gluedfer) Chewin' Fin G\Gluedfer\(Gluedfer) Tender Is The Savage\03 (Gluedfer) Ducktail He G\Gluedfer\(Gluedfer) Tender Is The Savage\05 (Gluedfer) Red Noses, G\Gluedfer\(Gluedfer) Tender Is The Savage\05 (Gluedfer) Drunk And G\Gluedfer\(Gluedfer) Tender Is The Savage\05 (Gluedfer) Dog Day, D G\Gluedfer\(Gluedfer) Tender Is The Savage\09 (Gluedfer) Sputnik Mo G\Gluedfer\(Gluedfer) Tender Is The Savage\09 (Gluedfer) Sputnik Mo G\Gluedfer\(Gluedfer) Tender Is The Savage\00 (Gluedfer) Sputnik Mo G\Gluedfer\(Gluedfer) Tender Is The Savage\00 (Gluedfer) Sputnik Mo G\Gluedfer\(Gluedfer) Tender Is The Savage\10 (Gluedfer) Exit At Gat kurz.mp3	
Select all	Select all
Import Selected Files	Delete Selected Items
Import Options	Fix Renamed File In the lists above, select the old and new file names of a moved/renamed file, then dick the button below:
Add to folder: 📔 Unsorted 👻	

When the scan is complete, the list of new files (not yet part of the Library) is displayed on the left hand side. By default, all new items are selected, but if you don't want to import everything at this time, you can select individual items or a range of items with the mouse (hold down Ctrl or Shift and click).

It's a good idea to set the type of these files to "Music" (or whatever it is) at this point, in the Import Options section. You can also specify the virtual folder that the items should go into - as we haven't set up any folders yet, it's simply the Unsorted folder.

When ready, click *Import Selected Files*, and AircastDB will open each file, analyze it (read tags, perform Auto Cue etc.), and add it to the Library.

When you add more files to your audio folder, you can return to the Synchronize dialog at any time and repeat the steps. If you happened to delete files, they will appear in the right-hand side list, and you have the option to remove them from the Library.

## **Step 3: Set up Virtual Folders**

Your audio files have now been imported into the Library, but they are still in the Unsorted folder.

Now it's time to create a couple of library folders and sort your audio files into them. Library folders are purly **virtual** - they only exist in the database and are independet of your actual windows folders. You may or may not use the same folder structure as on your disk.

The virtual folders will later serve as music categories (or rotations).

So go to the *Library* tab and use the *New Folder* button in order to create one or more folders, then go to the *Unsorted* folder and move the audio files to the respective folder using the mouse (drag them from the list to the folder node in the tree on the left).

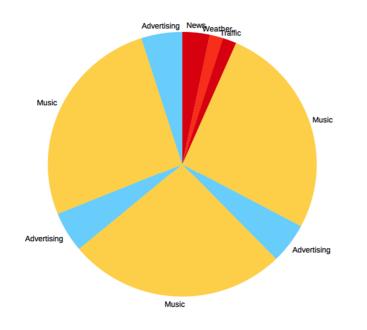
atabase View Administration Help				
Eibrary 🖗 Playlist		5		
New Folder	Delete Item	Synchronize Export		
tem	ID Ext.	ID Title V	Artist	T
- 👰 Database	965	Year Of The Flood	Runrig	
🖨 🔞 Folders	378	Together Alone	TV Smith	
🛅 Abstellgleis	969	The Ocean Road	Runrig	
😥 🛅 Jingles	971	The Engine Room	Runrig	
🛅 neu	344	Take the Long Way Home	Supertramp	
🖃 🛅 Rotationen	966	Pride Of The Summer	Runrig	
🛅 Superduper	398	Nur ein Wort	Wir sind Helden	
🛅 XL	667	Never Let Me Down Again	Depeche Mode	
🛅 XXL	632	It's A Sin	Pet Shop Boys	
🛅 Streams	964	Intro Music	Runrig	
😥 🛅 Test	973	In Scandinavia	Runrig	
🛅 Werbung	972	Every River	Runrig	
- 🛅 Unsorted	974	Clash Of The Ash	Runrig	
😥 🔮 Artists	977	Abhainn An T-Sluaigh	Runrig	
û — 🚰 Types û → ☆ Attributes û - 🔄 Storages	232	14 Years	Guns N <sup>r</sup> Roses	
iearch:				4
15 items				

Hint: If you are going to resemble the folder structure from Windows, it's a good idea to sort the item list by *Filename* (click the header), and then select a range files from the same Windows folder with the mouse while holding down Shift.

## **Step 4: Create Hour Templates**

Music scheduling in AircastDB works in an hourly grid, so we will be generating playlists worth 60 minutes each.

An *Hour Template* defines the structure on an hourly playlist, also called a **clock**. Clocks are often visualized in pie charts – here's an example we will work with:



There are four "fixed" blocks in this hour:

- The news block (news, weather, traffic) at the top of the hour.
- The first advertising block (at around xx:20)
- The second advertising block (at around xx:40)
- The third advertising block, right before the top of the hour.

In between these blocks, there is just music. Note that, on the clock/hour template level, we don't really care about the music, what categories/folder to use etc. – this will be defined in the Music Templates later (see step 5 below).

### Create an hour template

Go to Administration  $\rightarrow$  Manage Templates, stay on the first tab (Hour Templates), and click New. The hour template editor will appear – on the first tab General, enter a useful name, then switch to the second tab Items:

landon iten fron folder		Time	Oursten	Type	Folder/Itam/Block	Filter
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Not (me song) Naic block						
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tori of hour marker						
ub-playfet as cantainer		> 00-00-00	00:00:00	78 with random items	Unorted	
ext from sub playlet						
i fan sub-playlet						
egion Confisiner						
dvertising						
cremeny.						
	,		00-08-00	End of hour marker		

The new hour template will initially have three items in it:

- The start of the hour marker (with a fixed time of 00:00:00)
- The end of the hour marker (with a fixed time of 01:00:00)
- In between, a "fill with random items" block.

You can add more items by dragging them from the list on the left-hand side into the template, move the items around with the mouse (grab then in the first column), and edit their properties. In the next section, we will discuss the available template item types.

### Available template items

### Random item from folder

This will insert exactly one item from the specified folder (and optionally its subfolders). The scheduler will automatically pick the "best" items with regards to last use, track/title/artist separation etc. You can specify an optional attribute filter.

### Fill with random items

Insert as many items from the specified folder to fill up the time until the following fixed-time item.

### Specific item

Insert the item with the specified ID from the Library.

### Music (one song)

Insert the next song from the specified music block. (Music blocks are discussed in step 5 below.)

#### **Music block**

Insert the entire music block (or the remaining items from that block if you have used "one song" before).

#### Fill with music

Insert songs from the specified music block to fill up the time until the following fixed-time item.

#### Dummy

Insert a Dummy item - you can specify artist, title, color and item type as required.

#### Start of hour marker

The "start of the hour" marker (turns into a Dummy item in the final playlist).

#### End of hour marker

The "end of the hour" marker (turns into a Dummy item in the final playlist).

The end of hour marker serves as a dummy item to ensure proper backtiming at the end of the hour, before the next hour is eventually loaded/appended to the playlist. If you adjust the timing settings of the "start of the hour" marker, you must adjust the timing settings of the "end of the hour" marker accordingly!

#### Sub-playlist as container

Sub-playlists allow you to manage more than playlist per hour, e.g. to keep advertising in a separate playlist. You can set them up in *Administration*  $\rightarrow$  *Configuration*  $\rightarrow$  *Sub-Playlists*.

This template item will make the scheduler take the entire content of the specified sub-playlist, wrap it into a container, and insert it into the playlist.

### Next from sub-playlist

Inserts only one item from the specified sub-playlist (the next in queue).

### All from sub-playlist

Inserts the entire sub-playlist, but without a container.

#### **Region container**

Inserts multiple sub-playlists, wrapped into a Region Container item.

### Advertising

Inserts the specified advertising block. See <u>Advertising Tutorial</u>.

### **Template item settings**

In the respective *Properties* dialog, there is a couple of settings that most template items have in common.

### Duration

Enter the estimated duration of this template item (or the playlist items it will generate).

Infinite/fill means that this template item fills the entire time between the surrounding items.

Overflow by instructs the scheduler to add additional songs to create an artificial/explicit overflow. It can only be used with *Fill with Random Items* and *Fill with Music*, and only when *inifinite/fill* is checked.

For most template items, duration entered here is solely for template design purposes in the template item editor. Generally, the duration of the generated playlist items will be unknown at the time you design the template (The "specific item" template item is an exception).

*Fill with Random Items* and *Fill with Music* are an exception: If you enter an explicit duration here, the scheduler will create a block of that specific duration. On the other hand, if you check *infinite/fill*, the scheduler will fill the gap until the next fixed time items (plus an optional "overflow by" duration).

### Timing

The following Timing options are available:

- **Normal**: Item starts when the preceding item has finished (or reaches Start Next or Fade Out marker, whatever comes first).
- Hard fixed time: Item is started at exactly the specified time.
- Soft fixed time: Item is started at or after the specified time, when the current item has finished.
- **Backtimed**: To be used directly before a *hard* or *soft* item; will propagate the fixed time further up the list, so that this item **finishes** at the fixed time. You can schedule multiple *backtimed* items in a row to build a "backtiming chain".
- Excluded from backtiming: Item is ignored by the backtiming algorithm.

For *hard* and *soft* timing, enter the fixed time as required. Please note that fixed times in hour templates are always **relative to the top of the scheduled hour**. For example, a fixed time of 00:05:00 will be turned into 07:05:00 when the scheduler uses the template to generate a 07:00:00 hour.

The option *Before top of the hour* lets you use "negative" fixed times, e.g. move the start of the hour to xx:55:00 in the preceding hour (- 00:05:00).

The setting *Time frame*, when used together with *soft* timing, lets you limit the playback duration of the current item. For example, with a *soft* fixed time of 00:30:00, and a time frame of 60 seconds, the item will be started when the current item has finished, but not later than 00:31:00.

### Options

• Create a container if more than one item: Only applies to template items which can result in more than one playlist item being added to the playlist (e.g. *Music block* or *Fill with random item*): Wrap the playlist items into a container if two or more items were added.

• Always create a container: Wrap the resulting item(s) into a container, regardless of the number of items. Opener and Closer

Specify the ID of an opener and/or closer element to be scheduled before and after the playlist items generated by this template item. Note: This will override any opener and closer set in the folder configuration.

### Restrictions

On this tab, specify the days and hours in which this template item should be used. If you uncheck an hour, the template item will be ignored for that hour. Note: You can click the colum/row headers to toggle multiple cells at one time.

### Example hour template

Here's our sample clock, introduced at the beginning of this chapter, built as an Hour Template in AircastDB:

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Pil with random items		00.000.00	00.08.80	Start of heur marker		
Specific item	1	00-00-00	00:02:00	Specific item	5307: News	
Place (one song)	1	> 00:02:00	00:01:80	Specific item	\$308: Ueather	
PLaic No.k		\$ 00:03:00	00:02:00	Specific item	5309: Treffic	
Pil with music						
Ourses	11.	> 00:04:00	00.16.00	Nutrack	Red 1	
start of hour markey		, ,	00.00.00	THE NEW YORK	1000 L	
Chil of hour marker						
Sub-playlet as cartainer		s 📦 00-20-00	00:02:00	Advertising	1: Ad Block 1	
Next from sub-playlet						
All from sub-playlet						
Region Container	1 7	7 > 00-22-00	00:18:00	North-Mark	Block 2	
Advertising						
		s 👜 so-so-co	00-02-00	Advertising	2: Ad Block 2	
		> 00:42:00	00.16.00	Fill with music	Hock 3	
	×	C 00:50:00	00:02:00	Advertiging	3: Ad Book 3	
				and of hour marker		

## Step 5: Set up Music Templates

Next step is to create a music template.

### About music templates

In the music template, you tell the scheduler how to pick the music for the generated hour playlists. Typically, this involves specifying one or more library folders (acting as categories, or rotations).

Earlier versions of Aircast only had hour templates, no music templates, and the music mix was defined directly inside the hour template. Since the introduction of Aircast 5, it is recommended that you use separate hour and music templates. (You can still use the "random item from folder" template item to mimic the old behavior, but this is not recommended.)

Separate music and hour templates have a couple of advantages:

- Separation of concerns: Define the hour template (clock) without caring about the music, and define the
  music without caring about the structure of the hour.
- Mix'n'match: You can reuse a music template for multiple hour templates, and also use different music templates with the same hour template.

If you are using an external scheduler (e.g. MusicMaster, Powergold, Music1, etc.), use a music template to specify the file names and options for your imported playlists. You can also mix internal and external scheduling (use import playlists for some blocks, and the internal scheduler for the other blocks).

### About music blocks

We assume that music appears in **blocks** between other scheduled content (e.g. news, advertising, ...) within the hour. For instance, in the example hour template we discussed in Step 4 there were three music blocks: First between the news break and the first ad break, the second between the first and second ad break, and the third music block between the second ad break and the ad block at the end of the hour.

Music templates allow you define up to 16 blocks of music per hour, and specify separate rules for each block. However, when the rules are the same for all block, you can simply work with Block 1 only, and reuse it multiple times inside the hour template (depending on the hour template item you use, and the mode for that block – see below).

### Create a music template

Go to Administration  $\rightarrow$  Edit templates, switch to the Music Templates tab, and click Add. The music template editor will appear. Enter a useful name on the General tab, then go to the Block definition tab and observe the block configuration:

Edit Music Template	- ×
General Block Definition Import Settings Transitions	
Block 1 Block 2 Block 3 Block 4 Block 5 Block 6 Block 7 Bk	ck 8 Block 9 Block 10 Block * *
Settings	
Source: Internal scheduler (use Folder Selection)	-
Mode: Use exact order	-
🛞 Add 🕱 Remove 🧪 Configure	
# Folder/Item 1 XL	Filter
2 Base	
3 Base	
4 XL	
5 Base	
6 Base	
Available Folders	
Musik	
inaktiv neu	
Rotationen	E
Base	1
Superduper	
XI, XOL	
Spezialelemente Demo-Dummies	
Streams	
Test errors	-
	OK Cancel

Use the tabs at the top to switch between block 1 through 16. Under *Settings* you can specify the source for this block (internal scheduler or export from file – the latter is discussed below), and the folder selection mode (also discussed below).

Then there is the list of folders to be used for this block (initially empty), and the list of available folders from the library – just use the mouse to drag a folder to the list of used folders. You can double-click a folder to set a couple of options: Also use subfolders, opener and closer, and optional type/attribute filters.

### Folder selection modes

In the Mode dropdown, you will find five different modes in which the scheduler can operate for this block:

### Randomly pick from the list of folders/items

Whenever the scheduler needs a music item for this block, it first picks a random folder from the list of folders you specified, then selects a random item from that folder. This is the most simple way to pick music.

Note: This mode does not work with the *Music block* template item.

### Use exact order

The scheduler will walk the list of folders you specified from top to bottom, picking one song from each folder. When the scheduler reaches the end of the folder list, no more music is generated for this block.

### Use exact order, repeat if necessary

Same as above, but when used with *Fill with music*, the scheduler is allowed to restart from the top of the folder list if more music is needed than it got from a single iteration.

### Maintain order, allow random selection

This works similar to *Use exact order*, however, it may skip folders from the **middle** of the list if you specified more folders than required.

To understand the difference, imagine you have specified five folders: A, B, C, D, E. Also assume that there is a *Fill with music* item for this block in the hour template, and the scheduler finds that it only needs three songs to fill up the time, not five:

- With Use exact order, the folders A, B, and C will always be used. D and E will never be used.
- With *Maintain order*, the following folder combinations will be possible: A-B-C, A-B-D, A-B-E, A-C-D, A-C-E, A-D-E.

So the order of the folders will always be maintained, but some folders from the **middle** of this list may be skipped, not only from the end.

### Maintain order, allow random selection, repeat if necessary

Same as above, but allows the scheduler to restart if more music is required.

### About "random" selection

When we say that the scheduler "randomly" picks an item from a folder, this isn't all "random", but of course there is a particular scheme that tries to maintain a rotation-like order of the songs while using as much "randomness" as possible.

If you are interested in the internals of the Mini Scheduler, here's an outline of the algorithm:

- First, all songs of the folder are sorted according to the time they were last scheduled, with those that haven't been used for the longest time at the top of the list. Only full hours are respected, not the position within the hour.
- If you specified any type or attribute filters, only the songs that match the filter will be considered in the following steps.
- For all songs, the overall penalty is calculated according to the title/track/artist separation configuration.
- The song with the minimum penalty will pe picked. If there is more than one song with minumum penalty, the scheduler will pick the first one (with a probability of 1/2), or the second one (with a probability of 1/4), and so on.

### Import from external schedulers

If you are importing music logs from an external music scheduling software, go to the *Import Settings* tab and set up the file type and location of your music logs.

Source				
Import source:	Fle	•	Configure	
File Style and Format				
File format:	Playlist			•
File style:	One file per day			•
Split hour by:	Don't split	-		
Split block by:	Don't split	•		
file Location				
Source folder:				
Filename format:				
Import Tasks for Unkny	wn Files			
Read MMD file     Read XML file tag     Read native file tag     Read native file tag     Process tide inform     Perform Auto Cue     Perform R128 loud     Perform R128 loud	duration ation ress analysis			
Derform normalizati	nn.			

Specify whether you have one file per day or per hour, or even per music block. Some formats can automatically split daily logs into hours automatically. For other formats, you have the option to split by time, title etc.

For the source folder and/our filename format, you can use the date/time logging variables as placeholders.

Don't forget to set the *Source* of all relevant music blocks to *External scheduler*! The third option, *Hybrid*, will try to load the log from the specified file first, and fall back to internal scheduler if that fails.

### **Transitions**

On the *Transitions* tab, you can instruct the scheduler to insert transition jingles between music items. Click *Add* to add a new transition rule:

Configure Transition	×
General	
Number of subsequent music items:	
Rule will be applied when the specified nu	mber of songs are played in a row.
Folder	
Dunsorted	•
Include subfolders	
Item 1 Condition	
Attribute (leave empty to disable):	•
Value (leave empty for any value):	•
Item 2 Condition	
Attribute (leave empty to disable):	•
Value (leave empty for any value):	-
	OK Apply Cancel

Specify the number of songs that should be played in a row before the rule is applied, and also the folder to pick the jingle from, possibly including its subfolders.

If you choose to specify **Conditions** for either item 1 or item 2, the rule will only be applied if the attributes of the music items satisfy the particular conditions. For example, you can set up a rule that is only applied for "fast" songs following a "slow" song, with a special set of jingles for this kind of (speed) transition.

Set up as many rules as you like. Rules are processed from top to bottom, and the first matching rule will win, so put more specific rules to the top, and more general rules to the bottom of the list.

## Step 6: Set up Template Assignment

As mentioned earlier, you can easily setup multiple hour templates, each with a different kind of music. The missing piece of the puzzle is to tell AircastDB which template to use on which day of the week and for which hour.

Go to Administration  $\rightarrow$  Configuration  $\rightarrow$  Template Assignments, and the following dialog will show up:

Handay Stundenuly 1 Stundenuly 1	Tuesday Stundenully 1	Viednesday Stundenuly 1	Thursday	Friday	Saturday	Sunday
	Stundenully 1	Standenuly 1	discussion in the second			
Stundenuly 1			Standenahr 1	Stundenuly 1	Stundenuhr 1	Stundenuly 1
	Stundenuly 1	Stundenuhr 1	Standenshr 1	Stundenuty 1	Sundenihr 1	Stundenuty 1
Stundenuhr 1	Stundenuhr 1	Stundenuty 1	Standeruhr 1	Stundenuty 1	Standenuhr 1	Stundenutr 1
Stundenuhr 1	Stundenuhr 1	Stundenuly 1	Standenahr 1	Stundenuly 1	Stundenuhr 1	Stundenuly 1
Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuly 1
Stundenuhr 1	Stundenuly 1	Stundenuhr 1	Standenuhr 1	Stundenuty 1	Sunderuhr 1	Stundenuty 1
Stundenuhr 1	Stundenuhr 1	Stundenuly 1	Stundenuhr 1	Stundenuty 1	Stundenuhr 1	Stundenuty 1
Stundenuhr 1	Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuhr 1	Stundenuly 1
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Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuly 1
Stundenuhr 1	Stundenuty 1	Stundenuty 1	Standenuhr 1	Stundenuty 1	Standenuhr 1	Stundenuty 1
Stundenuhr 1	Stundenuhr 1	Stundenuhr 1	Stundenuhr 1	Stundenuhr 1	Stundenuhr 1	Stundenuty 1
Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuhr 1	Stundenuly 1
Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundensky 1	Stundenuly 1	Stundensky 1	Stundenuly 1
Stundenuhr 1	Stundenuty 1	Stundenuty 1	Standenshr 1	Stundenuty 1	Sundershr 1	Stundenuty 1
Stundenuhr 1	Stundenuty 1	Stundenuly 1	Stundenuhr 1	Stundenuty 1	Stundenuhr 1	Stundenuty 1
Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenuhr 1	Stundenuly 1
Stundenuly 1	Stundenuly 1	Stundenuly 1	Standenahr 1	Stundenuty 1	Standenahr 1	Stundenuty 1
Stundenuhr 1	Stundenuhr 1	Stundenuty 1	Standenuhr 1	Stundenuty 1	Sunderuhr 1	Stundenuty 1
Stundenuly 1	Stundenulty 1	Stundenuly 1	Stundenulty 1	Stundenuly 1	Stundenuhr 1	Stundenuty 1
Stundenuly 1	Stundenuly 1	Stundenuly 1	Stundenally 1	Stundenuly 1	Stundenuly 1	Stundenuly 1
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The 24x7 grid is initially empty - to set an assignment, select a range of hours/days with the mouse (hold down the left mouse button), the right-click and select the desired template. Repeat the steps until a template is assigned to all 24x7 slots.

Then switch to the *Music Template* tab, and repeat the above steps, selecting a music template for each day and hour.

## **Step 7: Generate Playlists**

Ok, we're ready to generate playlists now.

### **Generate a Single Playlist**

To generate a single playlist for a particular date and hour, go to the *Playlist* tab of AircastDB and navigate to the desired hour.

Then click the small arrow next to the *Generate* button in the toolbar, and select the hour template from the list, then the music template from the submenu that pops up. The scheduler will generate a playlist and display it in the playlist editor. Click *Save* to save the playlist to the database.

### **Generate Multiple Playlists**

Usually you wouldn't generate the playlists one by one, but schedule an entire day or week at once. This is where the *Mini Scheduler* dialog comes into play. To open it, click *Generate* in the toolbar.

Mini Scheduler			
First Day	Last Day	Hours	
Montag , 24. Februar 2014 🔻	Montag , 24. Februar 2014 🔻	▼ 0         ▼ 6         ▼ 12           ▼ 1         ▼ 7         ▼ 13           ▼ 2         ▼ 8         ▼ 14	✓ 18 ✓ 19
Today	One Day	✓ 3     ✓ 9     ✓ 15       ✓ 4     ✓ 10     ✓ 16	20         21         22         22         23
Tomorrow		✓ 5 ✓ 11 ✓ 17	☑ 23
Next Monday	One Week	All	None
Progress	,	review	-
	[	# Time Title Artist	Duri
		٠ ١١١	Þ
			Go! Close

In the upper left section, select the start and end date for which you are going to generate playlists. Use the buttons as shortcuts for some common start days and perios.

In the upper right corner, check the hours for which playlists should be generated on the selected dates. Default is all hours (that is, all hours for which a template is assigned, see notes about hour template assignments above).

Then click *Go* and lean back while Mini Schedule does its job. When generation is finished, close the dialog and navigate through the playlists (and possibly edit them) in the playlist editor.

## **Step 8: Access Playlist from Playout Window**

Now that we have playlists prepared for the current hour (and the next hours, days, ...), we can return to the playout window (main window) of Aircast and use them.

### **Database Playlist Browser**

In a Live Assist situation, the presenter will probably want to load the playlist manually shortly before the hour. That's what the *Database Playlist* browser is used for. Click the small arrow next to the *Add* button in the browser section of the playout window, then select *Database Playlist*. The following tab will be added to the browser:



The drop-down box at the top is used to select the database connection, in case you have set up multiple databases - otherwise it is not visible.

Below that you will find the controls to navigate through the hours. The playlist for the selected hour is display instantly as you switch between the hours. To load the list into the playout playlist, click the small "gear" button, and select one of the commands (load/append/...) from the menu.

### Set up an Hourly Event for Automation

In an automated environment, Aircast must load the playlist for the next hour automatically at the top of the hour. This is achieved by adding a (single) event to the Event Scheduler. Click *Events* in the main toolbar, and in the dialog that appears, click *Add* to add a new event.

Event Scheduler			<b>X</b>
New Open Save	Add Edit Delete Run		
Next Execution 🔺	Last Execution	Description	Actions

The event is configured so that it runs each day, each hour at 0 minutes and 0 seconds (see screenshot). In the *Actions* section, add a new *Load and play database playlist* action, and leave all of its settings untouched.

Description	
Next Playlist	
Date	
each day	
🔘 each	Monday Tuesday Wednesday Thursday Friday Saturday Sunday
$\odot$ only once, on	24.02.2014 👻
O user defined:	days: 1-31 months: 1-12 weekdays: 1-7
Time	
each hour, at	0 minutes and 0 seconds
🔘 only once, at	00:00:00
i user defined:	hours: 0-23 minutes: 0 seconds: 0
Expiration	
Event expires at	24.02.2014 👻 16:38:39 💌
Scope	_
Automation	Assist
Actions	
🕀 Add 🔻 🗶	Remove 🥒 Configure  📔 Load 🗖 Save
Load and play data	base playlist
	OK Cancel

That's it - at the top of the hour, Aircast will grab the next playlist from the database and play it. All you have to do is to turn on AUTO mode.

### Alternative Method using Append Database Playlist

Another option is to execute the event a few minutes before the top of the hour, and use the *Append Database Playlist* action instead.

**Important:** Check the *Load playlist of next hour* option in the event settings! (Remember it's still a few minutes before the top of the hour when the event runs.)

If the playlist has a soft or hard fixed time on its first item (which is usually the case), Aircast will automatically fade to that first item at xx:00:00 (hard fixed time), or when the last song has finished (soft fixed time).

The advantage of this method is that you can mix soft and hard fixed times by just changing the playlists in the database accordingly, and you can also schedule multi-hour content by removing the End of Hour marker, and leave the subsequent playlists empty in the database.