SIGMA - New and						
Home Disconnect	ave to K	Save to Signa	Aarms			Today
lanning 🗰 🔳	Day	Week Mc	o Display the work	week O Display the e	ntire week	
Calendar	• *	New -	<	13 - 17 Octobr	e 👘 📏	Comm
M T W T F S S				circuit 01		
29 30 1 2 3 4 5	_	Monday 13 (Oct)	Tuesday 14	Wednesday 15	Thursday 16	Friday 17
15 (4 15 16 17 18 19 20 21 22 23 24 25 26	7.00					
27 28 29 30 31 1 2	8.00	20 (5 4)	08-30 (5 +)	08:30 (5 s.)	08:30 (5 s.)	08:30 (5 s.)
3 4 5 6 7 8 9	9.00					
Groups						
Zone	10:00	-90 (5+)	10-30 (5 =)	10-30 (5 +)	10:30 (5 +)	(10:20 (5 c)
Circuit a	11:00		1 10100 (0 51)	10:30 (3 5.)	20130 (3 5.)	10:30 (3 5.)
01 scircuit 0t						
× 03 retrout 02	12:00					
	13:00					
	14.00 14	k00 (5 s.)	14:00 (5 s.)	14:00 (5 s.)	14:00 (5 s.)	14:00 (5 s.)
Vacations and public holidays	15:00					
copy of the planning						
Configuration	16.00		and the second se			
The Utilization	17:00	(3.5.)	16:30 (5 s.)	16:30 (5 s.)	16:30 (5 s.)	15:30 (5 c)
- ormation						
Planning	18.00					
	10.00					
# Broadcast	12.00					

Sigma Software

USER MANUAL





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Ref. 607752F

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INTRODUCTION

This manual has been designed to optimise the use of Sigma software.

Together, the chapters Foreword and Overview tell you how Sigma software works.

The chapter *Operation* gives a more detailed description of the scope and functions of Sigma software. It provides explanations of screens and procedures and gives examples of some functions. By following these procedures, users will be able to set the system up, simply but effectively, in order to organise the time distribution or plan audio broadcasting.

The chapter *Troubleshooting* will help you maintain your system effectively and solve any problems you might encounter while using the software.



General information

products), some functions will not be available.

Depending on your installation, you will not necessarily have access to all software options. This will depend on whether or not you have a master clock and what model it is. If there is no master clock, or depending on which model you have, the configuration of your installation will be restricted to the **IP Device** menu only (see page 20). This manual describes all software options. However, depending on your configuration (master clock and other Bodet

BODET uses MPEG Layer-3 audio encoding technology, licensed by Fraunhofer IIS and Thomson.

Compatible Windows: Windows XP (except audio broadcast), Windows Seven (7), Windows 8.

1. Introduction to the system

With Sigma software, you can:

- configure a Sigma H, Sigma P, Sigma C or Sigma Mod master clock to organise time distribution or plan the broadcasting of bells and melodies using Melodys or Harmonys sounders,
- make adjustments to a group of clocks or a bell system on an Ethernet network,
- broadcast to Harmonys sounders sound live, or a playlist launched from the control computer,
- broadcast to Harmonys sounders general calls from the microphone,
- broadcast messages manually from the Control Box to Harmonys sounders.

2. Architecture and configuration



Sigma software is installed on a computer that is dedicated to configuring the devices found on the network.

The PC and master clock communicate with one another over the network.

The master clock and the devices may communicate in either of two ways:

- Over the Ethernet network (clocks and Harmonys),
- In DHF, wireless time distribution (clocks and Harmonys).

1. Overall operation

With Sigma software, you can configure a Bodet master clock. It will then manage the time distribution (DHF, Ethernet network, AFNOR, Impulsion, ASCII) of the Bodet clock range (Style, Profil, Cristalys, Opalys), plan the audio broadcasting of Bodet sounder systems (Harmonys, Melodys) and manage relays operation.

4 key software functions are available, depending on the master clock model:

Software menus	SIGMA H	SIGMA P	SIGMA C	SIGMA Mod
Master clock configuration	v	~	~	~
Operation of IP devices	x	x	~	~
Planning bells and melodies broadcasting (programming)	x	USB	USB or IP	USB or IP
Live audio broadcasting from the computer to Harmonys sounders	x	x	~	~

2. Starting up the software

When the software starts up, the welcome screen may be used to:

- Load a backup configuration of a Sigma (H, P, C or Mod) r from a USB flash drive (.sig file),
- Connect to a Sigma (C or Mod) over the Ethernet network.
- Choice of language.
- Set up an installation without a master clock.



2.1 Loading from a USB flash drive

If you have a configuration and you want to apply it to your master clock, you must:

- 1/ Click on the diagram under USB FLASH DRIVE (see above).
- 2/ Select the .sig file to be loaded onto the master clock:



With a Sigma H master clock, the following window appears (configuration screen > time outputs):

SIGMA - New.si	g Options Help				
Home	Disconnect	Save to PC	Save to Sigma	lei Aarms	
Sigma		Time outp	outs		
Option card		Main car	NTP Server		
Sounders and relays External inputs IP devices Time source		D1D	2	Ŭ	
Time outputs		Impulse	duration (s): 6	5	
Customisation Marms		01 :	24V pulse output	ıt 🕕	
		Type:	Minute 👻	Impulse duration (sec): 1,2	
		02 :	AFNOR ouput	Ŭ	
		03 :	DHF output	C	
Configura	ation	Power	: 25mW 🔻	Channel 1 •	
Utilisatio	n				
Planning					
Broadcast					

In the case of a Sigma P or C or Mod master clock, the following window appears (planning screen):

IGMA File Test Of	ptions Help							
#	1	6	1	1				
Home	Disconnect	Save to PC	Save to Sigma	Aarms		-		10
Planning	E	Day	Week Mo	oth 💿 Display	the working week	O Display the entire week	Today	
↓ January M T W T 29 30 31 1 5 6 7 8 12 13 14 19 19 20 21 22 2 3 4 5 Group Zoner Clocult	2015 F S S 2 3 4 9 10 11 11 12 12 24 25 30 31 1 6 7 8 5 6 6 7 6 7 7 8 7 7 7 7 7 7 7 7 8 7 8 8 7 8 8 8 8 8 8 8 8 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 <th< th=""><th></th><th>New -</th><th><</th><th>12 - 16</th><th>5 January</th><th>></th><th>Comme</th></th<>		New -	<	12 - 16	5 January	>	Comme
Vacations and Copy planning	public holidays							
Utilisation								
Planning								
A Broadcast		11112						

2.2 Connection from the Ethernet network

1/ Click the picture under ETHERNET NETWORK.

The software will detect the master clock(s) installed on your site:



To connect to the master clock found on the Ethernet network, you must:

- 2/ Select the master clock found on your network.
- If several master clocks are found on the network, it is possible to select the desired Sigma by checking the box in the **LOC** column (the master clock's LCD screen will blink as long as the box is checked).

opens a pop-up stating that since the software cannot find the IP address of a Sigma placed behind a router automatically, the IP address must be enter manually using the "Add manually" button. During the next searches the manually added SIGMAs will also be automatically tested.

Port 5666 must be open on routers and the IP address of the gateway must be entered into the PC's network configuration.

- Update may be used to refresh the list of master clocks found on the network.
- Add manually may be used to add a master clock manually by typing in its IP address.
- Connect and transfer to PC may be used to connect the computer to the selected master clock and download the master clock data onto the computer (recommended).
- **Connect** may be used to connect the computer to the master clock without downloading its parameters.
- **Cancel** closes the window and may be used to return to the software start up screen.

Having established the connection with the master clock, the following window appears on the screen:



Clicking on the Soutton refreshes the list of devices on the network. This list is automatically refreshed after 10 minutes. A counter under the inventory button indicates the time before inventory: the button turns red one minute before automatic inventory.

Automatic inventory is executed as soon as the counter is at zero and no windows are open. This makes it possible to: Identify sounders unseen during the initial inventory (DHCP search) and avoid restarting sounders that were not yet configured.

Network modifies the device name and its network parameters:

8		Х
Network confi	guration	
Product name	BODET	
	Epable DHCP	
IP Address		
Subnet Mask		
Gateway		
DNS		
	Validate 🗙 Canc	el

Web browser access connects to the web server giving access to all the parameters to be configured.

- Save config. saves the device's configuration settings in the .MEL format
- Load config. uploads a saved configuration (.MEL format)
- Update updates the device's firmware.

Export exports the list of devices on the network and the parameters displayed on the screen in PDF or Excel format.

Adjust volume changes the device volume (also available from within the web server).

the change zone changes the device zone (also available from within the web server). It is possible to change the zone of several devices at the same time (without copying parameters).

+ Add manually add a device to the network manually. It is possible to add a device either using its IP address or else by scanning a range of IP addresses.

SOFTWARE OPERATION

1. Introduction to the software menus

1.1 Sigma Menu

With the Sigma menu, you can access the different options related to the master clock.



Home may be used to return to the software start up screen.

Disconnect may be used to disconnect the master clock from the software. A confirmation pop-up opens to validate the selection:

	EX
?	Do you really want to disconnect?
	Ves X No

- **Save to PC** may be used to save the configuration done from the master clock to the Sigma software.
- Save to Sigma may be used to save the configuration set up from the software to the master clock.
- Alarms may be used to open a window listing the master clock alarms:

Туре	Output No.	Date	Time	State	2	Update
Synchro failure	1	22/09/	15:49:00	Acknowledged	THE OWNER WATCHING	
	~	articles	12.49.00	- Aniomogou		Actioned

In this window:

0

- Update may be used to refresh the list of alarms.
- Acknowledge may be used to validate the alarm (the alarm light on the master clock goes off).
- Configuration may be used to access alarm settings (see <u>Alarms I Configuration of the alarms list</u> page 24).

1.2 **File Menu**

With the File menu, you can access the different options concerning the .sig file generated by the Sigma software. A .sig extension is the format of the configuration file created by the software and saved in a storage space (USB flash drive, computer hard drive, etc.).



Open may be used to open and load a file. When you select this option, an information window opens:



After validation, if a backup is already open, a second information window opens:



When you validate this information, Windows Explorer opens a window, which may be used for locating and then loading the .sig file:

Select a backup file		
Software S	Sigma	✓ Rechercher dans : Software Sig
Organiser 🔻 Nouveau	dossier	#≡ ▼ 🗖 🔞
Documents	Nom Config_1.sig	Mo 14/
Vidéos		
i ♥ Ordinateur		Aucun aperçu n'est disponible.
🗣 Réseau		
Nom	au ticniër : Config_1.sig	Ouvrir Annuler

Save may be used to back up and overwrite the last configuration on the already open .sig file.

Save as may be used to select the configuration file storage location.

Print may be used to print the master clock programming and setting. A window with a drop-down menu containing the printers on the network opens:

Select printer
TOSHIBA e-STUDIO2330 TF
Validate X Cancel

Before printing, a preview window appears on screen:

Print Preview		- • •
50 50 50 50 50 50 50 50 50 50 50 50 50 5		
PDF		
Search:	Previous Next Whole word Match case	
All and a second	Control in the contr	-
27	- Learn table Barthits Restore American Stream American Strea	

1.3 Test Menu

The **Test** menu may be used to test devices found on the network (circuits/relays and sounders). The purpose is to check whether the devices are actually connected to the installation (presence of a power supply, good electrical operation, etc.). The menu may also be used to import melodies loaded into sounders found on the network and to load default melodies.



Circuits may be used to test the circuits/relays found in the installation. When you click this button, the following window opens:



In this window:

- The drop-down menu may be used to select the product family: Circuit or IP Relay.
- Send may be used to send a command to test whether the product is working correctly.
- \circ \quad Update may be used to refresh the list of products found on the network.
- Sounders may be used to test whether the installation sounders are working correctly. When you click this button, the following window opens:

Zones / groups	Name	Melody	Volume		
Zone 1	hal	1 💌	4	-	
Zone 2	corridor	1	4	-	In a lo
Zone 3	room 1	1	4		_
Zone 4	room 2	1	4		Sto

To test the sounders found in a zone, you must:

1/ Use the checkbox to select the sounder zone to be tested.

- 2/ Select a melody using the drop-down menu in the "Melody" column.
- 3/ Set the melody volume using the drop-down menu in the "Volume" column.

In this window:

- **Once**: to play the melody once.
- In a loop: to play the melody continuously. When the test is done in a loop, it stops after 20 minutes.
 The test stops automatically when the user exits the test window.
- **Stop**: to stop at anytime the melody being played.

Get melodies: to import melodies stored in sounders found on the network.



In this window:

0

- Import: to test (listen) locally on the computer melodies stored in a sounder.
- $\circ \qquad \textbf{Close: to exit this window.}$
- Default melodies: to load default melodies:



1.4 Options Menu

With the **Options** menu, you can access the software configuration assistant, the MIB files (Management Information Base) and the languages available for the Sigma software.



Setup wizard: to access the steps in master clock configuration:

SIGMA - New.sig				
SIGMA File Test Option	ns Help			
* -111		0		
Setup wizard	MIB files	Language	nede	
Sigina	A	locating option o	ai us	
Option card		Card No.	Type	A Unlock
sounders and relays		4		
External inputs		5	Not allocated	
Time bare		6	Not allocated	
Time outputs		7	Not allocated	
Customization		8	Not allocated	
Alarms		9	Not allocated	
		10	Not allocated	
		11	Not allocated	
Previous	Next			0 0 0
Utilization Planning Broadcast				

The configuration assistant's first step is to allocate options cards (see Allocation of option cards page 15).

To continue onto the next steps, click the button

To go back to a previous step, click the button

MIB files: to recover the files needed for network management. A MIB (Management Information Base) is a database of objects which may be managed on a network, most often associated with SNMP. The managed objects, or variables, may be defined and read using network peripherals and interfaces.

To back up MIB files, you must:

1/ Click MIB Files.

2/ Select the file storage location.

Select a folder	×
MIB files will be copied to the selected directory.	
🖻 👝 Disque amovible (E:)	^
Lecteur DVD RW (X:)	
Þ 🙀 Réseau	
FormationHarmonysAssistantes	
MIB files	E
🍺 Software Sigma	
	-
Dogsier : MIB files	
Créer un nouveau dossier OK Annuler	

3/ Preview of the folder containing the files:

MIB files		✓ ↓ Recherch	er dans : MIB files	<u>×</u> = د
Organiser Inclure dans la bibliothèque	Partager avec ▼ Graver N	ouveau dossier		
🔶 Favoris	Nom	Modifié le	Туре	Taille
🧮 Bureau	BODET.mib	01/09/2010 16:57	Fichier MIB	
📃 Emplacements récents	SNMPv2-SMI.mib	14/08/2003 00:19	Fichier MIB	
〕 Téléchargements	SNMPv2-TC.mib	14/08/2003 00:19	Fichier MIB	З
词 Bibliothèques				
Documents				
🔚 Images				
J Musique				
Vidéos				
🔍 Ordinateur				
SYSTEM (C:)				
DATA (D:)				
Disque amovible (E:)				
🗣 Réseau				
*				
🍌 MIB files				
	•	III		
3 élément(s)				

1.5 Help Menu

The Help menu may be used to display information on the Sigma software.



Info: to display the Bodet website, the software version and its date of creation:



2. Master clock configuration



After each configuration has been done, validate the settings by going to the **SIGMA** menu and then clicking on **Save to Sigma**. The master clock starts with the new configuration.

On the other hand if configuration is done directly from the master clock, (see the corresponding master clock instructions), it is possible to load the settings onto the computer by clicking **Save to PC**.

The Configuration menu concerns all settings associated with the master clock according to the installation.

Access to the Configuration menu

To access the Configuration menu, you must:

1/ Click on Configuration in the navigation bar (which turns yellow when selected).

2.1 Allocation of options cards

Allocation of an options card enables you to expand the capacity of the master clock. The physical installation of the cards must done only when the master clock is switched off for the Sigma H, P or C. On a Sigma Mod the cards can be installed with the power on. See the corresponding master clock instructions. Once the master clock is switched back on (or when cards have been installed correctly), the options cards will be detected automatically. In the software, by default, options card allocation is locked.

N.B.: depending on the Sigma master clock version (H, P, C or Mod), several types of options cards may be available (see the corresponding master clock instructions).

Adding an options card 1/ Click Unlock.



2/ Add an options card by clicking the drop-down menu.



2.2 Sounders and relays I Creation of zones and/or groups

This menu may be used to:

- Configure the relays of the master clock's main card (Circuit, D1/D2 or Alarm).
- Set the solstices for configuring sunrise and sunset. This may, for example, be used to plan lighting only according to the amount of light in the establishment.
- Choice of installation environment: Ethernet network (IP) or DHF (See <u>3. Installation in a DHF environment</u> page 24 or <u>4. Installation in an IP environment</u> page 33).

Configuration of relays 1-2 and 3

1/ Click the drop-down menus for each relay or relay group:

ounders and relays		Sounders and relays	
Main card circuits		Main card circuits	
Circuit 1 and 2: Circuit Circuit Circuit D1D2	Circuit 3 : Circuit 🔻	Circuit 1 and 2 : Circuit	Circuit 3 : Circuit Circuit Aarm

Circuit enables the relays to carry out a direct command.

D1/D2 enables the relays to control a D1/D2 time distribution (see the corresponding master clock instructions). **Alarm** enables the relay to feedback alarms detected by the master clock to the software.

Configuration of the solstices

1/ Click Settings.

Solstices	
입다 Settings	Setting solstices applies only when setting "Astronomical" event types.

A configuration window opens.

2/ Enter the sunrise and sunset times by summer/winter period. This parameter will have an impact on astronomic planning (see <u>3.2 Planning an audio or relay event</u> page 25).

Sunrise	Sugar	
	Sunset	
05:45	22:00	
08:40	17:00	
	05:45 08:40	05:45 22:00 08:40 17:00

3/ Validate or cancel the configuration.

Choice of environment

Depending on your installation, see chapter <u>3. Installation in a DHF environment</u> page 24, or <u>4. Installation in an IP environment</u> page 33.

This menu may be used to enable or disable the use of external input of the master clock used to manually activate or deactivate a circuit. For example, this option may be used to set off an evacuation siren manually from the IP 4-Button Control Box.

Activation/deactivation and mode

1/ Enable external input by clicking @. The button then turns green: @.

2/ Select the mode using the drop-down menu:

Sigma			
(U)	Mode :	ON/OFF	
		PROG	
		ON	
		ONLOFE	

PROG mode may be used to toggle the programming status of circuits selected: an "on" circuit becomes an "off" circuit and vice versa). Relay circuits are selected one-by-one and no zone or group selection is possible (only all sounders).

ON mode: relays activate the selected circuits for a given time (0 seconds to 23:59:59). The selected sounders (zones or groups) emit the programmed melody.

ON/OFF mode: when first pressed, the relays activate the selected circuits and the selected sounders (zones or groups) emit the programmed melody either once or in a loop. When pressed again, the relays deactivate the circuits and the sounders stop playing the melody.

MUTE mode (available only in an IP environment): as long as the MUTE mode is enabled the selected relay circuits are switched OFF even when the external input is active and no sounders play melodies, only calls from the Microphone are authorised to be broadcasted.

Selection of circuits, zones and groups

*	Selection 01 : circuit 01 1901 : iprelais 1 2011 : hall 2012	
*	Selection 01 : circuit 01 IP01 : ip relais 1 201 : hal 202 : corridor	
•	201 : room 1 204 : room 2	
ly •	1 0 🖓 vol 5 0	
	dy	dy 1 2 00 vot 5

Depending on the circuits, zones and groups created, 3 selection modes are possible:

Everything: to select all circuits, zones and groups.

The entire selection: to select the circuits, zones and groups added in the selection.

Everything but the selection: to select all circuits, zones and groups except those added in the selection.

lo add circuits, zones and groups one-by-one.

to add all circuits, zones and groups.

to remove all circuits, zones and groups from the selection.

to remove circuits, zones and groups one-by-one.

The Alarm checkbox may be used to enable the feedback of alarms:

- using circuit 03 (see <u>Configuration of relays 1-2 and 3</u> page 16). The activation duration of the selected circuits is only available in **ON** mode (see above).
- sending e-mail and trap (see Alarms I Configuration of the alarms list, page 25)

It is possible to select a melody (or a sequence using the drop-down menu), the type of melody, the number of times it is going to be played, its volume and listening from the PC's audio.

This menu may be used to set the master clock date and time manually. The function may also be used to enter the master clock's method of synchronisation and the time zone for time distribution.

Changing the date and time

- 1/ Click 🚻.
- 2/ Enter the date from the drop-down menu (calendar).
- 3/ Enter the time manually.



Time synchronisation

1/ Click the drop-down menu to select the master clock mode of synchronisation (only if a master clock (time distribution) is present on the installation).

Date and time		
³⁰ Å ³ 01/12/100017:19:	16 989	
Time synchronisation		
Type of synchronisation	FI/DCF RADIO	1
Time zone	NONE GPS FI/DCF RADIO	

For time distribution, different synchronisation types may be used to define the mode of communication between the master clock and receiving clocks.

AUTO mode may be used to prioritise synchronisation: NTP then AFNOR then GPS and FI/DCF (AFNOR mode requires an options card and is available only on Sigma P and Sigma Mod master clocks).

NTP mode may be used to define the master clock as a NTP client. By selecting this option, it is possible to select the time signal transmission mode (these different modes may be accumulated if necessary):

P client			
		Definition	of authentication keys
Broadcast:	Key No.		
Multicast:	Address	Key n°	
Unicast:	Addresses	Poll (s)	+ Add
			\$↓\$ Modify
			Delete
		1	
Force synchronisat	ion of the master clock with the serv	er when starting :	191

Broadcast: the master clock receives the time emitted, identical to all network products. **Multicast**: the master clock receives the time emitted only by the address on which the server emits. **Unicast**: the master clock (client) queries one (or more) server(s) which transmit(s) the time via NTP. If several servers are entered, the first will take priority.

It is possible to add the number of server keys to secure the broadcast. The option "On start up, force the master clock time setting to that of the server" will command the master clock to connect to the server address and take the time on start up.

N.B.: NTP cannot be used to synchronise if the difference between the client and the server is greater than 15 minutes.

Time zone

1/ Click the drop-down menu to select the time zone.

e source		
Date and time		
³⁰ Δ ⁴⁰ 01/14/	10:36:19	
Time synchronisat	tion	
Type of synch	nronisation FI/DCF RADIO	×
Time zone		
		Time changeovers :
Lime 2016	PARIS (UTC +01:00) ▼ HAWAI (UTC -10:00) L.ANGELES (UTC -08:00) DENVER (UTC -07:00) CHICAGO (UTC -06:00) NEW YORK (UTC -05:00) SANTIAGO (UTC -04:00) ACORES (UTC -01:00) PROG. LONDRES (UTC +00:00) PARIS (UTC +01:00) PARIS (UTC +01:00) MOSCOU (UTC +04:00) ABU DHABI (UTC +04:00) ABU DHABI (UTC +04:00) SINGAPOUR (UTC +08:00) TOKYO (UTC +09:00) ADELAIDE (UTC +09:00) ADELAIDE (UTC +09:30) SYDHEY (UTC +10:00) NOUMEA (UTC +11:00) FORT-DE-FRANCE (UTC +4:00) FORT-DE-FRANCE (UTC +4:00)	- Junner cine : last Sunday in October at 03:00
	CAYENNE (UTC -3:00) SAINT-DENIS (UTC +3:00)	Wedneeday 14 Jan (apr. 2002 10-36

If **PROG** mode is selected, a sub-menu appears for setting the day light saving time.

Time zone	PROG.	•	UTC offset	+ 🔻 00 h 00 m
Time changeovers				
Activation of	the time changeove	rs		
Activation of Summer time :	the time changeove	▼ Sunday	March	▼ at 02 h
Activation of Summer time :	the time changeove	▼ Sunday	▼ March	▼ at 02 h

2.5 Time outputs I Setting up the communication mode

N.B.: the master clock associated with the Sigma software may be used for time distribution on Bodet clocks by means of two communication modes: DHF or Ethernet network.

Parameter settings in DHF

1/ Select the Main card tab.

2/ Configure the power level and the broadcasting channel using the drop-down menus.

3/ Enable the DHF communication mode by clicking the icon

When the communication is enabled, the icon changes to The next stage of DHF configuration is detailed in Chapter <u>3. Installation in a DHF environment</u> page 24.

Parameter settings in the Ethernet network

1/ Select the NTP Server tab.

2/ Click Add to create a multicast address.

3/ Enter the master clock's (emission) multicast address.

U,	
Cr	eation Address, polling and TTL
	Address 239 . 192 . 54 . 1 Sending period (s) 64 (Poll = 6) •
	TTL index 0 (TTL = 1) ▼ Key No.
	V OK X Cancel

4/ Using the drop-down menu, enter the emission period in seconds. This period is the time between each data frame sent by the master clock.

	
Creation Address, po	olling and TTL
Address 239	192 . 54 . 1
Sending period (s)	64 (Poll = 6) ▼
TTL index 0 (TTL = 1)	10 (FOR = 4) 32 (Poll = 5) 64 (Poll = 6) 128 (Poll = 7) 256 (Poll = 9)
	256 (Poll = 8) OK X Cancel

5/ Using the drop-down menu, enter the TTL index (recommended value: 64).

This setting indicates the maximum number of routers/switches that the information sent by the master clock will have to go through.

ù.		
reation Ac	ldress, polling	g and TTL
Address	239 . 192	. 54 . 1
Sending per	riod (s) 64	(Poll = 6)
TTL index	0 (TTL = 1)	Key No.
	1 (TTL = 32) 2 (TTL = 64) 3 (TTL = 96)	V OK X Cancel
	4 (TTL = 128) 5 (TTL = 160)	
	6 (TTL = 192) 7 (TTL = 224)	

6/ Key No. must be a number, identical for the master clock and the product, for establishing communication.



By customising the master clock you can access the clock type and the name given by the user. It may be changed anytime to ease the installation (if there are several master clocks).

Master clock language

1/ Click the drop-down menu to change the master clock language.

ıp		
Master clock menus in	Français	
Master clock configuration :	Français English	
Time format in idle mode:	Español Deutsch	
Backlight in idle mode :	Dutch Portugues	
User access Code :	Norsk Dansk	
	Suomi	

Master clock configuration

Master: to configure the master clock as a "primary" master clock.

Backup: to configure the master clock as a "secondary" master clock. For this configuration, the installation must already have a primary master clock and a Sigma Switch module (Sigma Switch 110-240VAC ref.: 907482, Sigma Switch 24VDC ref.: 907483, Sigma Switch 36-72VDC ref.: 907485).



Time format in idle mode

24h: to define the 24-hour clock (the day begins at midnight and is divided into 24 hours).

12h: to define the 12-hour clock (the day is divided into two periods of twelve hours each, one ending at midday and the other beginning at that time and ending at midnight).

ľ	Time format in idle mode:	O 24h	O 12h

Master clock LCD screen lighting

The master clock LCD screen backlighting (when idle) may be set according to two options: low or off.



User access code

The access code may be used to protect your configurations.



• Activating and entering a password

1/ Check Enabled in the User access code line (see above).

2/ Click Access management.



3/ Select the access codes.

Sigma access codes may be used to add a password to the master clock when you want to access its menus. Viewing the master clock LCD screen (if the central access code is active):



This code must be entered using the navigation arrows on the master clock keypad (see the corresponding master clock instructions).

IP access code may be used to add a password to the software connection on the master clock (Ethernet network mode only).

This password will be requested when you connect to the master clock computer (presence of a padlock to the right of the configuration record):

	How do you wish to progra	m your Sigma:	
USB KEY		ETHERNET NETWO	RK
F	OR GMA locked		
4 1 (:: === 0 History	Access code	: == (*)	
C:\Users\formation\Desktop\Sof\Con E:\Software Sigma\Configuration_SigmaC.sig E:\Logiciel SIGMA\Configuration_SigmaC.sig E:\Configuration_SigmaC.sig	20/08/2014 11/08/2014 07/08/2014	t Antoine	۵
		•	No Bodet master clock

4/ Click Change personal access code to add or change an access code.

New access of the second se	:ode		×
6	Access code Confirmation	••••]
	→	Send X	Cancel

5/ Click Send to validate.

$\circ \quad \text{Access history} \quad$

Access history may be used to view the type of access (IP access = software access, Tech menu access = master clock menu access), the date and time of the connection and the access code used.

Туре	Date a	ind time	Access code	
IP access	10/14/	15:01:35	1111	
IP access	10/14/	15:21:09	None	
P access	10/14/	14:20:03	None	
P access	10/14/	14:17:46	None	
P access	10/14/	14:16:08	None	
P access	10/14/	13:56:16	None	
P access	10/14/	13:56:01	None	
P access	09/25/	10:49:17	None	
Fechnician menu access	09/25/	10:48:44	standard	
P access	09/22/	17:00:37	None	
Technician menu access	09/22/	13:54:04	standard	
P access	09/22/	12:05:14	None	
P access	09/18/	08:26:43	None	
P access	09/17/	10:41:56	None	
Fechnician menu access	09/17/	09:47:52	standard	
Jser menu access	09/17/	09:47:38	None	
Toobaician monu accore	00/17/	00-24-54	standard	

This menu may be used to display the list of alarms fed back to the software by the master clock:

Email SNMP Traps V Alarms	displayed on the master clock
Туре	Configuration
System failure	Enabled + Alarm relay / Mail / SNMP
User code failure	Enabled + Alarm relay / Mail / SNMP
Technician code failure	Enabled + Alarm relay / Mail / SNMP
Battery failure	Enabled + Alarm relay / Mail / SNMP
24V bat. failure	Enabled + Alarm relay / Mail / SNMP
Master failure	Enabled + Alarm relay / Mail / SNMP
Synchro failure	Enabled + Alarm relay / Mail / SNMP
24V overload	Enabled + Alarm relay / Mail / SNMP
24V pulse failure	Enabled + Alarm relay / Mail / SNMP
AFNOR failure	Enabled + Alarm relay / Mail / SNMP
ASCII failure	Enabled + Alarm relay / Mail / SNMP
DHF failure	Enabled + Alarm relay / Mail / SNMP
Serial pulse failure	Enabled + Alarm relay / Mail / SNMP
Short-circuit serial pulse	Enabled + Alarm relay / Mail / SNMP
Open circuit serial pulse	Enabled + Alarm relay / Mail / SNMP
Circuit failure	Enabled + Alarm relay / Mail / SNMP
AFNOR sync. failure	Enabled + Alarm relay / Mail / SNMP
Synch. wired failure	Enabled + Alarm relay / Mail / SNMP
SOUND failure	Enabled + Alarm relay / Mail / SNMP
External input failure	Enabled + Alarm relay / Mail / SNMP
Alert triggered	Enabled + Aarm relay / Mail / SNMP

- The checkbox **Alarms displayed on the master clock** may be used to display alarms listed by master clock. The alarm type is displayed on the LCD screen and the red **Alarm** light on the master clock flashes.
- Email... enable the alarm messages which will be sent to several end users by e-mail. To set up e-mail sending, you must:
- 1/ Click Email...

2/ Enter the e-mail server IP address (e.g.: the IP address of your Exchange server). As a general rule, the default port number is 25.

3/ Enter the sending e-mail address. The alarm e-mail will be sent automatically with this sending address.

4/ Enter the end users' e-mail addresses.

k a		×
Email alarm config.		
 Enable email alarm 		
IP address of mail server :		Port: 25
Sender's address :	******@bodet.com	(Sigma@mail.com)
Recipients' address :	************0bodet.com	(john.smith@mail.com)
Recipients' address :	************0bodet.com	
Recipients' address :	*************0bodet.com]
	N	/alidate 🗙 Cancel

SNMP traps may be used to enter the IP address of the SNMP server. Alarms may then be uploaded directly into your supervision software for viewing. To set the parameter for e-mailing SNMP messages to your SNMP server manager, you must:

1/ Click SNMP traps.

2/ Enter the IP address of the SNMP server found on the installation (if there is one).

مالك			-
Enable SNMP trap	[
IP address of SNMP manager :		Validate	 Cancel

3.1 Choice of DHF environment

1/ Select the "DHF environment" communication mode by clicking the drop-down menu (**Configuration > Sounders and relays**).

	DHE environment	-
	None	
łF	DHF environment	
	IP environment	

DHF environment enables the master clock to control devices through high frequency radio.

Creation of DHF circuit

In this space, the user and/or installer will create the Melodys sounders circuits/zones and relays. The creation of zones enables identical control (same command sent) of several sounders present from the circuit.

• Creating a DHF circuit

	\sim			
1/	1.1	1012	~ ~	~
1/	U	IUN.	nu	u.

IF circuit		
DHF circuit	circuit 60 - circuit 60	-
Name	circuit 60	
Configuratio	Not allocated	•
	1 Mellidate V Consol	_

- 3/ Select the group using the drop-down menu
- 4/ Give the circuit and configuration (relays or melody) a name5/ Validate.

• Renaming a circuit

1/ Click **Rename** or double click the circuit name.

e and location	Configuration		
	comparation		Add
circuit 60	Relay 🔻	616	Rename
circuit 61	Melody	191	Rename
		_	Delete
	circuit 61	circuit 60 Relay Circuit 61 Melody	circuit 60 Relay V circuit 61 Melody

- Deleting a circuit
- 1/ Select the circuit to delete.

2/ Click Delete.

N.B.: there is no delete confirmation window for this action. As soon as you click Delete the zone is deleted.

3.2 Planning a broadcast

The **Planning** menu may be used to create audio events.

Access to the Planning menu

1/ Click Planning in the navigation bar (it turns yellow when selected).

3.2.1 Handling the calendar

Before starting the configuration of an audio or relay event, a few steps need to be taken in planning the broadcast of bells.

1/ Click on a date in the date navigator (mini-calendar which you will find at the top left of the taskbar):

		Cale	enda	r			3
∢		Octo	ber			•	
М	т	w	т	F	s	s	
29	30	1	2	3	4	5	
6	7	8	9	10	11	12	
					18	19	
20	21	22	23	24	25	26	
27	28	29	30	31	1	2	
3	4	5	6	7	8	9	

2/ Select a group or zone or circuit for displaying the schedule.

Once the calendar appears, you can use the buttons found at the top of the window to navigate the calendar and display or hide details:

SIGMA - New.sig			
SIGMA File Test Options Help			
		3	56
Planning	Day Week Month O Disp	play the working week O Display the entire week	Today 149
Calendar 🏹		12 14 1	
January	New Y	12 - 16 January	Comment
MTWTFSS			
29 30 31 1 2 3 4	9	4	
5 6 7 8 9 10 11			
12 13 14 15 16 17 18	-		
19 20 21 22 23 24 25			
26 27 28 29 30 31 1			
2 3 4 5 6 7 8			

- 1 Click 🗰 to display the scheduling in calendar mode or 📕 for a display in list mode.
- 2 Click Day, Week or Month to go from one view to another quickly.
- 3 These buttons may be used to display or hide days or details according to the view selected.
- 4 < "date" > may be used to move around the calendar quickly.
- **5** Today may be used to quickly return to "day D" no matter which day you are on in the calendar.
- 6 Set up scheduling using ^[11]:

lanning parameter:	5		
Time precision :			
 Minute 	c	Second	
Working wook			
working week			
First day of the week:		Monday	-
Number of working days		5	
Working day			
Start:	08:00 🔻	End:	18:00 🔻
Weekly rest day		Sunday	•
		Validate	× Cancel

7 Display the scheduling legend using the **Legend** button:

	Comment
	Type of step
	Weekly
	Holidays
	Special
	Public Holiday
	Periodic
	Astronomical
	Additional
	Leirs of a group
	Partial execution
8 Create a new audio or relay event using th	e 🐠 New or the 🛹 New butt

Now that your calendar is displayed on screen, you can start your planning. To plan the broadcasting of an audio or relay event, you must:

1/ Select the week from which you want to start planning.

2/ Select the group and/or zone and/or circuit you want to program.

3/ Click **New** (or double click an empty space in the scheduling timescale, in calendar mode only). The following window opens (depending on the type of event):

groupe 1 🗾	circuit 01
Action Melody Volume 5 \$	Action Duration v Duration (s) 5
When Hour 11:00 Mo Tu We Th Fr Sa Su Days V V V V Holidays Special Public Holiday Additional step Astronomical Recurring Holidays Additional step Astronomical Recurring Date range Start 01/01/2015 V Interval From 11:00 to 16:00 Interval 01:00:00	When Hour Left Days No Tu We Th Fr Sa Su Type Weekly Holidays Special Public Holiday Additional step Astronomical Recurring

It is possible to rename your zone/group or relay by right clicking the scheduling timescale (calendar mode), clicking **Modify** (list mode) or clicking the solution.

3/ In the Action zone, using the drop-down menu:

- Audio event: select the type of audio source followed by its number (see <u>Appendix</u> page 55), the number of times it will be repeated and its volume. Listen to the melody or sequence locally by clicking the button.
- Relay event: select the type of action:
 - **ON**: may be used to activate the circuit over the timescale programmed.
 - **OFF**: may be used to deactivate the circuit over the timescale programmed.
 - Duration: may be used to activate the circuit for a given duration in seconds over the timescale programmed.

N.B.: to create a sequence, refer to page 38. To set a circuit, refer to page 16.

4/ In the When zone, select the broadcast start time, days and type of frequency:

- Weekly: enables the steps of all weeks on the days and at the times selected, over X years.
- Holiday: enables the steps only if they are included in the calendar. Weekly mode takes priority.
- **Special**: enables the steps only if they are included in the special days calendar. Weekly and Holiday modes take priority.
- Public holidays: Enables the steps only if they are included in the public holidays calendar. Sunday
 programming takes priority.
- Additional step: broadcasting takes place every week, according to the selected days, over a defined period (Date period).
- Astronomical: may be used to programme the circuit activation/deactivation timescale according to solstice settings (see *Configuration of the solstices*).
 e.g.: switching a light on or off according to sunrise and sunset.
- **Periodic**: may be used to add an additional step (see above) over a timescale defined with intervals (repetition) in hours/minutes/seconds.

5/ Click Validate. The planned slot appears in your calendar in a colour corresponding to your configuration.

6/ In the case of a new relay event, enable/disable the circuit using the -1 or -1 buttons.

In Calendar mode, right clicking the planned slot may be used to:

- Add an audio event.
- Modify the created event.
- Delete the created event (or left click + Del).
- Rename the zone or group allocated to the planning.

Priority during event creation

When creating an event:

- If a single schedule is open, adding a new event is effective in the selected schedule.
- If several schedules are open:
 - Click the schedule timescale to which you want to add a new event (otherwise, by default, creation will be effective in the schedule furthest to the right of the screen).
 - It is possible to create several events in a single slot (and it is possible to add one or more exceptional days).

To set up vacations and holidays, you must:

1/ Click Vacations and Holidays.

2/ Select Vacations or Special or Holidays by click on the appropriate tabs.

Tabs Vacation and Special (are displayed in the same way).



In Weekly mode, holiday periods take priority.

In Vacation and Weekly mode, periods with special days take priority.



New may be used to create a new vacation period or period with special days. **Modify** may be used to modify a vacation period or period with special days. **Delete** may be used to delete a vacation period or period with special days. **Calendar** opens a window for viewing part of the current year's calendar:

October P F 01 Wed 0 0 01 Wod 0 0 0 02 Thu. 0 0 0 03 Fri. 0 0 0 04 Sat. 0 0 0 0 05 Sun 0 10 11 12 13 13 12 13 13 13 13 13 13 14 10 15 14 10 15 16 Thu. 15 16 10 15 16 10	S November P 01 Sst. 02 Ssn. 02 Ssn. 03 Mon. 04 Tue 05 Wed. 05 Wed. 05 Tr. 05 Ssn. 05 Ssn. 09 Ssn. 10 Mon. 11 Tue 12 Wed. 13 Wed. 12 Wed. 13 Wed. 13 Wed. 13 Tuu 14 Fr. 15 Sst.	H S December 01 Mon. 02 Tue. 03 Wed. 04 Thu. 05 Fri. 06 Sat. 07 Sun. 09 Tue. 10 Wed. 11 Thu. 12 Fri. 13 Sat. 14 Sun.	P H	S January 01 Thu. 02 Fn. 02 Sat. 03 Sat. 04 Sun 05 Mon. 05 Mon. 06 Tue. 07 Wed. 08 Thu. 09 Fn. 10 Sat. 11 Sun. 11 Sun. 12 Mon. 13 Tue.	S February 01 Sun. 02 Mon. 03 Tue. 04 Wed. 04 Wed. 05 Thu. 06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed. 12 Thu. 12 Thu.	P H	S	March 01 Sun. 02 Mon. 03 Tue. 04 Wed. 05 Thu. 06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed.		H :
October P F 01 Wed. 02 Thu. 03 Fri. 03 Fri. 04 Sat. 06 Sun. 06 Swin. 06 Swin. 07 Tue. 08 Wed. 00 Thu. 10 Fri. 11 Sat. 11 Sat. 12 Sun. 13 Mon. 14 Tue. 15 Wed.	I S November P 01 Sat. 02 Sun. 02 Sun. 03 Sat. 03 Mon. 04 Tue. 05 Wed. 06 Thu. 07 Fri. 08 Sun. 10 Mon. 10 Sun. 10 Mon. 11 Tue. 12 Wed. 13 Thu. 14 Fri. 15 Sat. 15 Sat. 15 Sat.	H S December 01 Mon. 02 Tue. 03 Wed. 04 Tru. 05 Fri. 06 Sat. 07 Sun. 08 Mon. 09 Tue. 10 Wed. 11 Thu. 12 Fri. 13 Sat. 14 Sun.	PH	S January 01 Thu. 0 02 Fri. 03 Sat. 04 Sun. 05 Mon. 05 Tote. 07 Wed. 08 Thu. 09 Fri. 10 Sat. 11 Sun. 12 Mon. 13 Tue.	S February 01 Sun. 02 Mon. 02 Mon. 03 Tue. 04 Wed. 05 Thu. 05 Thu. 06 Fn. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed. 12 Thu.	PH	S	March 01 Sun. 02 Mon. 03 Tue. 04 Wed. 05 Thu. 06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed.	PI	H :
01 Wed. 02 Thu. 02 Thu. 03 Fit. 04 Sat. 05 Sun. 05 Mon. 06 Mon. 06 Mon. 06 Wed. 09 Thu. 10 Fit. 11 Sat. 12 Sun. 13 Mon. 14 Tue. 15 Wed. 15 Thu.	01 Sat. 02 Sun. 03 Mon. 04 Tue. 05 Wed. 06 Thu. 07 Fri. 08 Sat. 08 Sat. 10 Mon. 11 Tue. 12 Wed. 13 Thu. 14 Fri. 15 Sat.	011 Mon. 02 Tue. 03 Wed. 04 Thu. 05 Fri. 06 Sat. 07 Sun. 08 Mon. 09 Tue. 10 Wed. 111 Thu. 12 Fri. 13 Sat. 14 Sun.		01 Thu. 02 Fn. 03 Sat. 04 Sun. 05 Mon. 05 Tue. 07 Wed. 08 Thu. 09 Fri. 10 Sat. 11 Sun. 13 Tue.	01 Sun. 02 Mon. 03 Tue. 04 Wed. 05 Thu. 06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed. 12 Thu.			01 Sun. 02 Mon. 03 Tue. 04 Wed. 05 Thu. 06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed.		
22 Thu	02 Sun 03 Mon. 04 Tue 05 Wed. 06 Thu. 07 Fri. 09 Sun. 10 Mon. 11 Tue. 12 Wed. 13 Thu. 14 Fri. 15 Sat	02 Tue. 03 Wed. 04 Thu. 05 Fri. 06 Sat. 07 Sun. 08 Mon. 09 Tue. 10 Wed. 11 Thu. 12 Fri. 13 Sat. 14 Sun.		02 Fri. 03 Sat. 04 Sun, 05 Mon. 06 Tue, 07 Wed. 08 Thu, 09 Fri. 10 Sat. 11 Sun. 12 Mon. 13 Tue.	02 Mon. 03 Tue. 04 Wed. 05 Thu. 06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed. 12 Thu.			02 Mon. 03 Tue. 04 Wed. 05 Thu. 06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed.		
03 Fri. 04 Sat. 05 Sun. 06 Morn. 07 Tue. 08 Wed. 09 Thu. 10 Fri. 11 Sat. 12 Sun. 11 Sat. 13 Morn. 14 Tue. 15 Wed. 15 Wed. 15 Tue. 15 T	03 Mon. 04 Tue 05 Wed. 05 Wed. 07 Fri. 08 Sat. 09 Sun. 10 Mon. 11 Tue 12 Wed. 13 Thu. 14 Fri. 15 Sat.	03 Wed. 04 Thu. 05 Fri, 06 Sat. 07 Sun. 08 Mon. 09 Tue. 10 Wed. 11 Thu. 12 Fri. 13 Sat. 14 Sun.		03 Sat. 04 Sun, 05 Mon. 06 Tue. 07 Wed. 08 Thu. 09 Fit. 10 Sat. 11 Sun. 12 Mon. 13 Tue.	03 Tue. 04 Wed. 05 Thu. 06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed. 12 Thu.			03 Tue. 04 Wed. 05 Thu. 06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed.		
04 Sat. 05 Sun. 05 Sun. 07 Tue. 08 Wed. 09 Thu. 10 Fri. 11 Sat. 12 Sun. 13 Mon. 14 Tue. 15 Wed. 15 Thu.	04 Tue 05 Wed. 05 Thu. 07 Fri. 08 Sat. 08 San. 10 Mon. 11 Tue 12 Wed. 13 Thu. 14 Fri. 15 Sat	04 Thu. 06 Sat. 07 Sun. 08 Mon. 09 Tue. 10 Wed. 11 Thu. 12 Fit. 13 Sat. 14 Sun.		04 Sun. 05 Mon. 06 Tue. 07 Wed. 08 Thu. 09 Fri. 10 Sat. 11 Sun. 12 Mon. 13 Tue.	04 Wed. 05 Thu. 06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed. 12 Thu.			04 Wed. 05 Thu. 06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed.		
05 Sun. 06 Mon. 07 Tue. 08 Wed. 09 Thu. 10 Fit. 11 Sat. 12 Sun. 13 Mon. 14 Tue. 15 Wed. 16 Thu.	05 Wed. 06 Thu. 07 Fri. 08 Sat. 09 Sun. 10 Mon. 11 Tue. 12 Wed. 13 Thu. 14 Fri. 15 Sat	05 Fri. 06 Sat. 07 Sun. 08 Mon. 09 Tue. 10 Wed. 11 Thu. 12 Fri. 13 Sat. 14 Sun.		05 Mon. 06 Tue. 07 Wed. 08 Thu. 09 Fri. 10 Sat. 11 Sun. 12 Mon. 13 Tue.	05 Thu. 06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed. 12 Thu.			05 Thu. 06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed.		
06 Mon. 07 Tue. 09 Thu. 09 Thu. 10 Fn. 11 Sat. 11 Sat. 12 Sun. 13 Mon. 14 Tue. 15 Wed. 16 Thu.	06 Thu, 07 Fit. 08 Sat. 09 Sun. 10 Mon. 11 Tue. 12 Wed. 13 Thu, 14 Fit. 15 Sat	06 Sat. 07 Sun. 08 Mon. 09 Tue. 10 Wed. 11 Thu. 12 Fri. 13 Sat. 14 Sun.		06 Tue. 07 Wed. 08 Thu. 09 Frl. 10 Sat. 11 Sun. 12 Mon. 13 Tue.	06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed. 12 Thu.			06 Fri. 07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed.		
07 Tue. 08 Wed. 09 Thu. 10 Fin. 11 Sat. 12 Sun. 13 Mon. 14 Tue. 15 Wed. 16 Thu.	07 Fri. 08 Sat. 09 Sun. 10 Mon. 11 Tue. 12 Wed. 13 Thu. 14 Fri. 15 Sat	07 Sun. 08 Mon. 09 Tue. 10 Wed. 11 Thu. 12 Fri. 13 Sat. 14 Sun.		07 Wed. 08 Thu. 09 Frl. 10 Sat. 11 Sun. 12 Mon. 13 Tue.	07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed. 12 Thu.			07 Sat. 08 Sun. 09 Mon. 10 Tue. 11 Wed.		
08 Wed. 09 Thu. 10 Fri. 11 Sat. 12 Sun. 13 Mon. 14 Tue. 15 Wed. 16 Thu.	08 Sat. 09 Sun. 10 Mon. 11 Tue. 12 Wed. 13 Thu. 14 Fri. 15 Sat	08 Mon. 09 Tue. 10 Wed. 11 Thu. 12 Fri. 13 Sat. 14 Sun.		08 Thu. 09 Fri. 10 Sat. 11 Sun. 12 Mon. 13 Tue.	08 Sun. 09 Mon. 10 Tue. 11 Wed. 12 Thu.			08 Sun. 09 Mon. 10 Tue. 11 Wed.		
09 Thu. 10 Fri. 11 Sat. 12 Sun. 13 Mon. 14 Tue. 15 Wed. 16 Thu.	09 Sun. 10 Mon. 11 Tue. 12 Wed. 13 Thu. 14 Fri. 15 Sat	09 Tue. 10 Wed. 11 Thu. 12 Fil. 13 Sat. 14 Sun.		09 Fri. 10 Sat. 11 Sun. 12 Mon. 13 Tue.	09 Mon. 10 Tue. 11 Wed. 12 Thu.			09 Mon. 10 Tue. 11 Wed.		
10 Fri. 11 Sat. 12 Sun. 13 Mon. 14 Tue. 15 Wed. 16 Thu.	10 Mon. 11 Tue. 12 Wed. 13 Thu. 14 Fri. 15 Sat	10 Wed. 11 Thu. 12 Fri. 13 Sat. 14 Sun.		10 Sat. 11 Sun. 12 Mon. 13 Tue.	10 Tue. 11 Wed. 12 Thu.			10 Tue. 11 Wed.		
11 Sat. 12 Sun. 13 Mon. 14 Tue. 15 Wed. 16 Thu.	11 Tue. 12 Wed. 13 Thu. 14 Fri. 15 Sat	11 Thu. 12 Fri. 13 Sat. 14 Sun.		11 Sun. 12 Mon. 13 Tue.	11 Wed. 12 Thu.			11 Wed.		
12 Sun. 13 Mon. 14 Tue. 15 Wed. 16 Thu.	12 Wed. 13 Thu. 14 Fri. 15 Sat	12 Fri. 13 Sat. 14 Sun.		12 Mon. 13 Tue.	12 Thu.					
13 Mon. 14 Tue. 15 Wed. 16 Thu.	13 Thu. 14 Fri. 15 Sat	13 Sat. 14 Sun.		13 Tue.				12 Thu.		
14 Tue. 15 Wed. 16 Thu.	14 Fri. 15 Sat.	14 Sun.			13 Fri.			13 Fri.		
15 Wed. 16 Thu.	15 Sat			14 Wed.	14 Sat.			14 Sat.		
16 Thu.		15 Mon.		15 Thu.	15 Sun.			15 Sun.		
	16 Sun.	16 Tue.		16 Fri.	16 Mon.			16 Mon.		
17 Fri.	17 Mon.	17 Wed.		17 Sat.	17 Tue.			17 Tue.		
18 Sat.	18 Tue.	18 Thu.		18 Sun.	18 Wed.			18 Wed.		
19 Sun.	19 Wed.	19 Fri.		19 Mon.	19 Thu.			19 Thu.		
20 Mon.	20 Thu.	20 Sat.		20 Tue.	20 Fri.			20 Fri.		
21 Tue.	21 Fri.	21 Sun.		21 Wed.	21 Sat.			21 Sat.		
22 Wed.	22 Sat.	22 Mon.		22 Thu.	22 Sun.			22 Sun.		
23 Thu.	23 Sun.	23 Tue.		23 Fri.	23 Mon.			23 Mon.		
24 Fri.	24 Mon.	24 Wed.		24 Sat.	24 Tue.			24 Tue.		
25 Sat.	25 Tue.	25 Thu.		25 Sun.	25 Wed.			25 Wed.		
26 Sun.	26 Wed.	26 Fri.		26 Mon.	26 Thu.			26 Thu.		
27 Mon.	27 Thu.	27 Sat.		27 Tue.	27 Fri.			27 Fri.		
28 Tue.	28 Fri.	28 Sun.		28 Wed.	28 Sat.			28 Sat.		
29 Wed.	29 Sat.	29 Mon.		29 Thu.				29 Sun.		
30 Thu.	30 Sun.	30 Tue.		30 Fri.				30 Mon.		
31 Fri.		31 Wed.		31 Sat.				31 Tue.		

Holidays tab

scacions special	noudays	_				
		✓	Enable the public ho	lidays	_	
Name		Definition		State		Load publ
Nouvel An	01	January, recurring		~		holidays
Lundi Pâques	Ea	ster + 1 day, recurring		~		
Fête du Travail	01	May, recurring		✓	+	New
Victoire 1945	08	May, recurring		✓		
Ascension	As	cension day, recurring		 Image: A state of the state of	ៃ	Modify
Lundi Pentecote	Pe	ntecost + 1 day, recurring		×		Delete
rete Nationale	14	July, recurring		×		Derete
Assomption	15	August, recurring		×	i i i i i i i i i i i i i i i i i i i	Calendar
Armistico	11	November, recurring		•	ALA	0.11
Annistice	25	December, recurring		•	ĬŶĬ	Options

The list of public holidays is defined by country. The **State** checkboxes indicate that public holidays are active in the programming.

To amend the list of public holidays, click Load public holidays:

oad the public he	lidays of a country
Belgique België Danmark Deutschland España France Italia Norge Österreich Portugal Suisse Schwetz Suomi Suerige	Validate Cancel

New may be used to create a new holiday period or period with special days.

Modify may be used to modify a holiday period or period with special days.

Delete may be used to delete a holiday period or period with special days.

Calendar opens a window for viewing part of the current year's calendar (see the previous page). **Options** opens a window for listing public holidays which fall on a weekend or on a Monday.

<u>_</u>		— ×
	Substitute day	
		V OK X Cancel

To copy programming, you must:

- 1/ Click Copy planning.
- 2/ Select the circuit containing the source of the programming to be copied using the drop-down menu.
- $\ensuremath{\mathsf{3}}\xspace$ Select the event to be copied.
- 4/ Select the destination circuit on which the programming will be replaced or added.

PP)	ying a progra	am								
ou	rce Z01 : hall			•						
/en	t to be copied				Desti	ination				
~	Туре	DAy	Action	•		No.Zone	Name	Number of steps	+	Replace
~	Hebdo	LMMJV	Mélodie 1		~	Z02	corridor	3		Add
						Z03	room 1	0		Auu
						Z04	room 2	0		
	4]	Þ							
_										

4. Installation in an IP environment

4.1 Choice of IP environment

- Communication mode.
- o Multicast address setting (master clock emission address).

1/ Select the communication mode by clicking the drop-down menu (Configuration > Sounders and relays):

Ch	Choice of the environment			
	IP environment 👻 👯	Multicast adress		
	None DHF environment IP environment			

IP Environment enables the master clock to control devices through Ethernet network.

2/ Set the master clock emission address by clicking Multicast Address:

a	×
IP broadcast con	ifiguration
Multicast address	
	✓ Validate × Cancel

N.B.: this multicast address must be identically entered into all web servers of the products found on the network.

Creation of zones and groups for Harmonys and IP relays

In this space, the user and/or installer will create zones and groups of sounders, as well as zones of IP relays.

Zone creation may be used to control (same command sent) several sounders found on the network identically. Group creation may be used to control several sounder zones identically. IP relay zone creation may be used to activate all relays simultaneously.

To allocate a network device to a zone, see the next chapter.

Creating a zone1/ Select the Zone tab.2/ Click Add.

Zone			
20116	Zone Name	zone 5 - zone 5	Ŧ
		Validate	× Cancel

3/ Select the zone using the drop-down menu and give the zone a name. 4/ Validate.

• Renaming a zone

1/ Click Rename or double click the zone name.

Cone Group Relay		
Zones	Name and location	+ Add
1	hall	합하 Rename
3	room 1	- Delete
4	room 2	

o Deleting a zone

- 1/ Select the zone to be deleted.
- 2/ Click Delete.

N.B.: there is no delete confirmation window for this action. As soon as you click Delete the zone is deleted.

- o Creating a group
- 1/ Select the **Group** tab.

2/ Click Add.

Q		- • ×
Group		
Group Name	group 1 - group 1 group 1	T
	Validate	× Cancel

3/ Select the group using the drop-down menu and give the group a name.4/ Validate.

• Renaming a group

1/ Click Rename or double click the group name.

Zone Group Re	lay		
Groups	Name and location	Zones	+ Add
1	school	All	입다. Rename
			- Delete
			이 Select zon

• Select a zone in a group

Select the group whose zones will be associated.
 Click Select zones.

Q		×
Select zones : school		
O All circuits		
All selected circuits		
O All except selected circuits		
Zones		
All None		
Zone 1 - hall Zone 2 - corridor Zone 3 - room 1 Zone 4 - room 2		
	✓ Validate × C	ancel

3/ Select among those previously created the zones to be associated.

- o Deleting a group
- 1/ Select the group to be deleted.
- 2/ Click Delete.

N.B.: there is no delete confirmation window for this action. As soon as you click **Delete** the group is deleted.

a		
IP relay		
IP relay Name	ip relais1 - ip relais 1 ip relais 1	•
	Validate	× Cancel

3/ Select the zone using the drop-down menu and give the IP relay zone a name. 4/ Validate.

• Renaming an IP relay zone

1/ Click Rename or double click the name of the IP relay zone.

Harmonys and IP	relays	
Zone Group Relay		
Relays	Name and location	+ Add
1	ip relais 1	ទុំរ៉ុទ Rename
		- Delete

• Deleting an IP relay zone

1/ Select the IP relay zone to be deleted.

2/ Click Delete.

N.B.: there is no delete confirmation window for this action. As soon as you click Delete the IP relay zone is deleted.

This menu may be used to identify all products found on the network. Devices are sorted by product family: Harmonys, Harmonys Flash, Microphone, Control Box and Relays.

This is the menu in which the devices found on the network will be allocated to a zone: Configuration > IP devices.

Identification of a product on the network

1/ Select the product line to be identified.

2/ Click 🖸

3/ When it is selected (), the product should identify itself (by product type: emission of a sound, LCD screen flashing, product flash, LED flashing).

Configuration of a product on the network

1/ Select the product to be configured from the list.

2/ Click Network.

S Network conf	guration		~	
Product name	BODET-000B840497AC			For security reasons, our network parameters are masked.
IP Address				
Subnet Mask Gateway				
DNS				
	✓ V	alidate	Cancel	

It is possible to modify the device name for simpler identification (ex. : using the device's location). If your arrangement has a DHCP server, we recommend that you tick the box **Activate DHCP**.

Otherwise, enter the addresses to connect the device to your configuration's network: The parameters 'IP address', 'subnet mask', 'gateway' and 'DNS' from the last entry are stored. On the following hardware, when the DHCP box is left unticked, the fields 'IP address', 'subnet mask', 'gateway' and 'DNS' are automatically filled with the saved settings.

3/ Confirm.

The device restarts, emits its identification (according to the product type: refer to the product manual) and the list of devices on the network has been updated.

- Access to a product's imbedded web server
- 1/ Select the product to access its web server in the categorised list.
- 2/ Click Web browser access.
- 3/ Refer to the corresponding product instructions for details on a product's web server.

Change of zone or allocation of buttons

- Harmonys, Harmonys Flash, Relays
- 1/ Select the product you want to assign to a zone.
- 2/ Click Change zone.

e	x
Change zon	e
Zone	1 - hall 🔻
	1 - hall
Va Va	3 - room 1 ose
	4 - room 2

3/ Using the drop-down menu, select from the zones previously created the one into which you want to assign the product.

• Microphone

Select the Microphone whose buttons you want to program from the list of inventoried products.
 Click Assign keys.

Seys assignment		×
1 Z. 1 - hall •	9 Al -	
2 2 2 2 2.1 - hall 2.2 - corridor	10 None 🔻	
3 3 2. 3 - room 1 2. 4 - room 2 Group G. 1 - school	11 None -	
4 Z. 4 - room 2 💌	12 None 🔻	
5 None 💌	13 None 🔻	
6 None 🗸	14 None 🔻	
7 None 🔻	15 None 🔻	
8 None -		
	✓ Validate × Cance	ł

3/ Allocate a zone or group to a microphone button.

When this is selected, message broadcasting is effective for all products in the zone or group.

$\circ \quad \text{Control box} \quad$

- 1/ Select the control box you want to configure.
- 2/ Click Assign config.

<u></u>	
Configuratio	on assigment
Configuration	A v A B
	lata Canad

3/ Select the configuration you want assigned to the control box using the drop-down menu.

Two configurations are possible: A or B.

These may be set from the **Utilisation** menu.

Saving or loading a configuration

To gain access to configuration saving or loading (ensure that the buttons are not greyed out), use the checkbox corresponding to the product.

Save config.: to save the product settings in a storage space. This configuration may then be loaded for another product on the network (for the same product family).

Load config.: to load a previously saved setting.

Update

To gain access to product updating (ensure that the button is not greyed out), use the checkbox corresponding to the product.

Update to import a product update file (.BOD file).

Export the list

Export: to export the list of products found on the network. Export works by product family, according to the tab you are in (Harmonys, Harmonys Flash, Microphone, Control box or Relays).

Two export file formats are proposed:

Export PDF XI Excel
PDF XI EXCEL
PDF X EXCEL

N.B.: So may be used to update the inventory of products found on the network.

The **Utilisation** menu relates to all settings associated with the devices found on the network (Harmonys, Microphone, Control box).

Access to the Utilisation menu

1/ Click Utilisation in the navigation bar (it goes yellow when selected):

In the left-hand side pane of the menu, 3 submenus list the devices found on the network by family:

- Harmonys
- > Microphone
- > Control box

4.3.1 Harmonys

In the **Harmonys** menu, it is possible to manage (add, change, delete, load to a PC, rename, etc.) melodies on one sounder or a zone/group of Harmonys sounders.

Management of melodies on a single Harmonys sounder

1/ Select a Harmonys sounder.

By default, on first use, a list of melodies is saved in the product (see Appendix page 55)

and the test options had								
Home Disconnec		Save to PC		Save to Sigma	E Aarms			
Utilisation	ation 🔊 Harmonys : BODET-000B840497AC							
Harmonys Groups Zones All the zones		Associ	ated	with zone No.	.1 - hall			
Ø 01 : hal Ø 80DET-8CO-000884048E Ø 80DET-MURAL-20m-2	A	A	No.	Aurore mo3		File		
BODET-MURAL-20m-1 BODET-TGA-TEST BODET-TGA-TEST BODET-TGA_3 O 2: corridor 0 03: room 1			8 9 10 11 12	Entree.mp3 Malice.mp3 MESSAGE_00064.MI Produit.mp3 Programme.mp3 Scoppette diectricu	P3			2
	-		14 15	Syntaxe.mp3 Technique.mp3 Vibrato.mp3				1
BODET-0008840491E9			17	Whistle.mp3	-1			
		1	18	MESSAGE 00053 M	P3			
IP Buttons			30	11237475_000301H				

2/ Click - to select the melody to be imported.

3/ Specify the number of the melody using the arrows 🔄 (the number of a new melody must be different to an existing number).

Add: to load a new melody into the Harmonys sounder.

Modify: to change the source of a melody. However, the melody number remains unchanged. **Delete**: to delete a selected melody. A confirmation window opens to validate the selection once and for all:

?	Do you want to delete the selection?
	Ves X No

Rename: to rename the melody.

Save as: to save the melody selected in a storage space (USB key, computer, etc.). Advanced settings restores product configurations (see 2.1.4 IP device I Network and product configuration).

N.B.: melodies are available as downloads from the Bodet website, at the following address: <u>http://www.bodet-time.com/systeme-sonneries/telechargement-melodies.html</u>

Management of melodies in a zone or a group of Harmonys sounders

1/ Select a zone or group of Harmonys sounders (e.g.: "hall" zone selected. Six Harmonys sounders may be found in this zone):

Harmonys Group sending of a melody: Mathematical data and the zones Melody number	
Harmonys Dups nes A the zones Melody number 1 Crillsersiformation/Desktopi/Vibrato.mp3	
Oroup sending of a melody: nes Melody number 1 C:\Users\formation\Desktop\Vibrato.mp3 ••• 01 hail ••• ••• ••• •••	
BODET-BCD-000884048EDA Group sending of melodys:	Send Send
-10 800ET-MURAL-20m-1 -10 800ET-7008840497AC (addr. 19:172.17.11.97)	
BODET-000840497AC Melodys selction Selection of the receiving Harmonys	
BODET-TGA_3 No. File Harmonys Zone IP Address	
02::corridor + 1 Aurore.mp3 + BODET-BCD-000884048EDA 1 172.17.11.87	
03 : room 1 8 Entree.mp3 BODET-MURAL-20m-1 1 172.17.11.32	
Microphone 9 Matice.mp3 BODET-MURAL-20m-2 1 172.17.11.34	
₽ NAVA 10 MESSAGE_00064.MP3 BODET-TGA_3 1 172.17.10.117	
MICRO-MKT I 172.17.10.201	
BODET-0008840491E9	
ID Buttons	
In Grandward V Syntaxe.mp3	
Configuration # 15 Technique.mp3	
The control of the second seco	Copy
	melodies
Concerned groups:	
Utilisation Advanced	
catting.	
sectings	

Grouped sending of a melody

This setting may be used to load a single melody into all Harmonys sounders in a zone or a group.

1/ Indicate the melody number.

2/ Select the melody by clicking

3/ Click Send.

Grouped sending of several melodies

This setting may be used to copy several melodies from a Harmonys sounder to another product in the same zone or in the same group.

1/ Select the source Harmonys sounder using the drop-down menu (you will find the Harmonys sounders found in your zone or group).

2/ Select the melodies, from the source Harmonys sounder, that you want to copy.

3/ Select the destination Harmonys sounder(s) (you will find all Harmonys sounders found in your zone or group, except the source Harmonys sounder).

4/ Click Copy melodies to start the copy process.

N.B.: it is possible to erase the melodies from the destination Harmonys sounder(s) memory before launching a copy process. To do this, check the box **Delete the melodies in memory before the copying**.



At any time, it is possible to review the allocation of your device to zones or groups by clicking the button **Advanced** settings (see <u>Sounders and relays I Creation of zones and/or groups</u> page 15).

4.3.2 Microphone

In the **Microphone** menu, it is possible to set the parameter of the jingle and to archive the messages.



Setting up the jingle

The jingle is a musical theme which introduces a live or saved audio broadcast. It is possible to:

- Enable or disable the jingle by ticking or unticking the checkbox.
- Configure the volume using the buttons (3 = very loud, 1 = very soft, default value = 5).
- Listen to the jingle locally (on the computer speakers) using the button P.

Modify may be used to load a new jingle into the microphone.

Archiving of messages

Using the checkboxes, it is possible to:

- Archive the messages recorded from the microphone (stored in the product memory).
- Archive the messages broadcasted live from the microphone using the button (see microphone instructions, ref.: 607723).

Save as may be used to save the selected message (.mp3 file) in a storage space (USB key, computer, etc.). **Delete** may be used to delete 1 or more (if several messages are selected) archived messages. A confirmation window opens to validate the selection once and for all:



Send may be used to copy your configuration into the microphone. The update is instantaneous.

4.3.3 Control box

The Control box menu may be used to set up both configurations (A and B) for the IP Control boxes (see page 23).

Home Dis	ter	Save to PC	Save to Sigma	Parms			
tilisation	ø	IP Buttons	- Configuration A				
Microphone		Button 1 Be	utton 2 Button 3 Button	4 Button 5 Button 6 Butto	7 Button 8		Cxtension
ID Buttons							
Configuration A		Mode ON/	OFF -				
Configuration B		Circuits, 2	zones, and groups selec	tion			
- 🛱 800ET-00088404984E		O Everythi	ing re selection	Circuits, zones and group 01 : circuit 01 02 : circuit 02 03 : circuit 03	5	Selection 01 : circuit 01 02 : circuit 02 03 : circuit 03	
		O Everythi	ing but the the selection	P 201 : hall P 202 : corridor P 203 : room 1 P 204 : room 2	8	201 : hall 202 : corridor 203 : room 1 204 : room 2	
		Alarm					
		Relay ciro	uit		Melody cricuit		
Sequences management Activate / Deactivate the s			selected relay circuits	Melody	1 😫 👰 vol	5 2	
A contraction					Repeat over again		

If you have a 4-button control box extension, tick the Extension checkbox.

Modes	Relay circuit	Melody circuit
PROG	Activate/deactivate the program of the selected	-
	relay circuits	
ON	Selection of the duration	Select the number of repetition
ON/OFF	Activate / deactivate the selected relay circuits	Select the number of repetition
OFF	Deactivate the relay circuits manually controlled by this configuration	Stop the melodies manually controlled by this configuration
OFF global	Deactivate the manually controlled relay circuits	Stop the manually controlled melodies

The **Repeat over again** checkbox allows the triggering of the « Lock down » alarm in a loop in an installation without a Sigma master clock (IP button must be configured as Independent in its embedded web server)

4.3.4 Sequences

-

A sequence is an association of several melodies. For a sequence, it is possible to define:

- The melody selection (from those saved in the Harmonys sounders).
- The number of times the melody will be repeated in the sequence.
 - The length of the silence between each melody in seconds.

1/ Click Sequences management.



Sequence creation

1/ Click Add (a new window opens).

- 2/ Add a melody by clicking Add.
- 3/ Enter the melody number (from the 18 melodies saved in the Harmonys sounder, see Appendix page 55).
- 4/ Indicate the number of times it will be repeated.
- 5/ Indicate the duration of the silence in seconds.

Listen to your configuration locally by clicking the button Pa in the line created.

To add other melodies to your sequence, start again from step 2.

Listen to your full sequence by clicking Listen.

😂 Seq	Sequence management						
I	No. 1	•	🖓 Listen				
	Name	From	Silence (sec.)	+ Add			
P	1	4	6	- Delete			
	2	1	60				
	,	-					
			Validate	× Close			

To add other sequences, repeat the 5 steps above.

4.4 Planning a broadcast

The **Planning** menu may be used to create audio events.

Access to the Planning menu

1/ Click Planning in the navigation bar (it turns yellow when selected).

4.4.1 Handling the calendar

Before starting the configuration of an audio or relay event, a few steps need to be taken in planning the broadcast of bells.

1/ Click on a date in the date navigator (mini-calendar which you will find at the top left of the taskbar):



2/ Select a group or zone or circuit for displaying the schedule.

Once the calendar appears, you can use the buttons found at the top of the window to navigate the calendar and display or hide details:

SIGMA - New	.sig				
SIGMA File Tes	t Options Help				
Home		ave to PC Save to Sigma Aarms	3		56
Planning	*	Day Week Month O D	isplay the working week O Display the entire v	veek	Today 11
Ca	lendar 🏾 🌫				
◀ Jar	nuary	New 🔨	K 12 - 16 Jan	uary 🔪	Comment
мти	/ T F S S				
29 30 31	1 2 3 4	9	4		
5 6 7	8 9 10 11				
12 13 14	4 15 16 17 18				
19 20 21	1 22 23 24 25				
26 27 28	3 29 30 31 1				
2 3 4	5 6 7 8				

- 9 Click 🗰 to display the scheduling in calendar mode or 💻 for a display in list mode.
- 10 Click Day, Week or Month to go from one view to another quickly.
- 11 These buttons may be used to display or hide days or details according to the view selected.
- 12 < "date" > may be used to move around the calendar quickly.
- **Today** may be used to quickly return to "day D" no matter which day you are on in the calendar.
- 14 Set up scheduling using ^[11]:

e			X
Planning parameters	;		
Time precision :	c	Second	
Working week			
First day of the week: Number of working days:		Monday 5	•
Working day			
Start:	08:00 🔻	End:	18:00 💌
Weekly rest day		Sunday	-
		Validate	× Cancel

15 Display the scheduling legend using the **Legend** button:

		Comment Type of step Weekly Holidays Special Public Holiday Periodic Astronomical Additional Heirs of a group Partial execution	
16	Enable or disable the programming of the	e zone(s) or group(s) t	using the ^{or} or ^{or} buttons.
17	Create a new audio or relay event using t	he 🎯 New or the 🛛	

Now that your calendar is displayed on screen, you can start your planning. To plan the broadcasting of an audio or relay event, you must:

1/ Select the week from which you want to start planning.

2/ Select the group and/or zone and/or circuit you want to program.

3/ Click **New** (or double click an empty space in the scheduling timescale, in calendar mode only). The following window opens (depending on the type of event):

Addition of a new audio event	Addition of a new relay event
groupe 1 Action Melody Volume Melody Volume Sequence	circuit 01
When Hour 11:00 Mo Tu Mo Tu We th Fr Days V V V Days V V V Days V Holidays Start 01/01/2015 V 0 Additional step Additional step Interval Interval 01:00:00	When Hour Days Type Weekly Oblidays Special Public Holiday Additional step Astronomical Recurring
Validate 🗙 Cancel	Validate X Cancel

It is possible to rename your zone/group or relay by right clicking the scheduling timescale (calendar mode), clicking **Modify** (list mode) or clicking the *scheduling* button.

3/ In the Action zone, using the drop-down menu:

- Audio event: select the type of audio source followed by its number (see <u>Appendix</u> page 55), the number of times it will be repeated and its volume. Listen to the melody or sequence locally by clicking the button.
- Relay event: select the type of action:
 - ON: may be used to activate the circuit over the timescale programmed.
 - **OFF**: may be used to deactivate the circuit over the timescale programmed.
 - Duration: may be used to activate the circuit for a given duration in seconds over the timescale programmed.

N.B.: to create a sequence, refer to page 38. To set a circuit, refer to page 16.

4/ In the When zone, select the broadcast start time, days and type of frequency:

- Weekly: enables the steps of all weeks on the days and at the times selected, over X years.
- **Holiday**: enables the steps only if they are included in the calendar. Weekly mode takes priority.
- **Special**: enables the steps only if they are included in the special days calendar. Weekly and Holiday modes take priority.
- **Public holidays**: Enables the steps only if they are included in the public holidays calendar. Sunday programming takes priority.
- Additional step: broadcasting takes place every week, according to the selected days, over a defined period (Date period).
- Astronomical: may be used to programme the circuit activation/deactivation timescale according to solstice settings.

e.g.: switching a light on or off according to sunrise and sunset.

 Periodic: may be used to add an additional step (see above) over a timescale defined with intervals (repetition) in hours/minutes/seconds.

5/ Click **Validate**. The planned slot appears in your calendar in a colour corresponding to your configuration (see **Legend**).

6/ In the case of a new relay event, enable/disable the circuit using the -1 or -1 buttons.

In Calendar mode, right clicking the planned slot may be used to:

- Add an audio event.
- Modify the created event.
- Delete the created event (or left click + Del).
- Rename the zone or group allocated to the planning.

Priority during event creation

When creating an event:

i

- If a single schedule is open, adding a new event is effective in the selected schedule.
- If several schedules are open:
 - Click the schedule timescale to which you want to add a new event (otherwise, by default, creation will be effective in the schedule furthest to the right of the screen).

It is possible to create several events in a single slot (and it is possible to add one or more exceptional days).

To set up vacations and holidays, you must:

1/ Click Vacations and Holidays.

2/ Select Vacations or Special or Holidays by click on the appropriate tabs.

Tabs Vacation and Special (are displayed in the same way).



In Weekly mode, holiday periods take priority.

In Vacation and Weekly mode, periods with special days take priority.



New may be used to create a new vacation period or period with special days. **Modify** may be used to modify a vacation period or period with special days. **Delete** may be used to delete a vacation period or period with special days. **Calendar** opens a window for viewing part of the current year's calendar:

rty caterioa	ir -																				
						<	-			-		>									
October	Р	Н	S November	Р	н	S December	Р	н	S	January	Р	Н	S	February	Р	Н	S	March	Р	Н	\$
01 Wed.			01 Sat.			01 Mon.				01 Thu.				01 Sun.				01 Sun.			
02 Thu.			02 Sun.			02 Tue.				02 Fri.				02 Mon.				02 Mon.			
03 Frl.			03 Mon.			03 Wed.				03 Sat.				03 Tue.				03 Tue.			
04 Sat.			04 Tue.			04 Thu.				04 Sun.				04 Wed.				04 Wed.			
05 Sun.			05 Wed.			05 Fri.				05 Mon.				05 Thu.				05 Thu.			
06 Mon.			06 Thu.			06 Sat.				06 Tue.				06 Fri.				06 Fri.			
07 Tue.			07 Fri.			07 Sun.				07 Wed.				07 Sat.				07 Sat.			
08 Wed.			08 Sat.			08 Mon.				08 Thu.				08 Sun.				08 Sun.			
09 Thu.			09 Sun.			09 Tue.				09 Fri.				09 Mon.				09 Mon.			
10 Fri.			10 Mon.			10 Wed.				10 Sat.				10 Tue.				10 Tue.			
11 Sat.			11 Tue.			11 Thu.				11 Sun.				11 Wed.				11 Wed.			
12 Sun.			12 Wed.			12 Fri.				12 Mon.				12 Thu.				12 Thu.			
13 Mon.			13 Thu.			13 Sat.				13 Tue.				13 Fri.				13 Fri.			
14 Tue.			14 Fri.			14 Sun.				14 Wed.				14 Sat.				14 Sat.			
15 Wed.			15 Sat.			15 Mon.				15 Thu.				15 Sun.				15 Sun.			
16 Thu.			16 Sun.			16 Tue.				16 Fri.				16 Mon.				16 Mon.			
17 Fri.			17 Mon.			17 Wed.				17 Sat.				17 Tue.				17 Tue.			
18 Sat.			18 Tue.			18 Thu.				18 Sun.				18 Wed.				18 Wed.			
19 Sun.			19 Wed.			19 Fri.				19 Mon.				19 Thu.				19 Thu.			
20 Mon.			20 Thu.			20 Sat.				20 Tue.				20 Fri.				20 Fri.			
21 Tue.			21 Fri.			21 Sun.				21 Wed.				21 Sat.				21 Sat.			
22 Wed.			22 Sat.			22 Mon.				22 Thu.				22 Sun.				22 Sun.			
23 Thu.			23 Sun.			23 Tue.				23 Fri.				23 Mon.				23 Mon.			
24 Fri.			24 Mon.			24 Wed.				24 Sat.				24 Tue.				24 Tue.			
25 Sat.			25 Tue.			25 Thu.				25 Sun.				25 Wed.				25 Wed.			
26 Sun.			26 Wed.			26 Fri.				26 Mon.				26 Thu.				26 Thu.			
27 Mon.			27 Thu.			27 Sat.				27 Tue.				27 Fri.				27 Fri.			
28 Tue.			28 Fri.			28 Sun.				28 Wed.				28 Sat.				28 Sat.			
29 Wed.			29 Sat.			29 Mon.				29 Thu.								29 Sun.			
30 Thu.			30 Sun.			30 Tue.				30 Fri.								30 Mon.			
31 Fri.						31 Wed.				31 Sat.								31 Tue.			
		ale.			D . D.	hie helidau		u . u	lalida		-										

Holidays tab

cations	Special	Holidays				
			Enable t	the public holidays		
	Nar	ne	Definition	State		l oad publi
Nouvel An			01 January , recurring	 Image: A second s		holidays
Lundi Pâqu	Jes		Easter + 1 day, recurring	×		
Fête du Tr	avail		01 May , recurring	✓		New
Victoire 1	945		08 May , recurring	✓		
Ascension			Ascension day, recurring	~	141	Modify
Lundi Pent	tecote		Pentecost + 1 day, recurring	 Image: A start of the start of		Delete
Fête Natio	onale		14 July, recurring	×		Delete
Assomptio	n		15 August , recurring	✓		Calendar
Toussaint			01 November , recurring	✓		
Armistice			25 December , recurring	v	1¢1	Options

The list of public holidays is defined by country. The **Status** checkboxes indicate that public holidays are active in the programming.

To amend the list of public holidays, click Load public holidays:

Load the public holidays of a country Beigique ✓ Validate X Cancel Beigique ✓ Validate X Cancel Beigique Validate X Cancel Beigique Validate X Cancel Deutschand España Vacations France Vacations vacations Itatia Nederland vacations vacations Osterreich Varuit vacations vacations Suurit Vacations vacations Vortugal vacations vacations vacations Suuritian vacations vacations Viscalinge vacations vacations vacations <td< th=""><th><u></u></th><th>X</th></td<>	<u></u>	X
Validate Cancel Belgique You will be able to modify this Dammark parameter later on in: Deutschland >Palening España >Pacations France Italia Norge Osterreich Portugal Suisse Schweiz Suomi Sverige Journal	Load the public holidays of a o	country
United Kingdom	▼ Betgique Betgiq Damark Deutschland España France Italia Norge Österreich Portugal Suisse Schweiz Suomi Verige	Validate Cancel You will be able to modify this parameter later on in: >Plenning >Yotactions >public Holidays

New may be used to create a new holiday period or period with special days. **Modify** may be used to modify a holiday period or period with special days.

Delete may be used to delete a holiday period or period with special days.

Calendar opens a window for viewing part of the current year's calendar (see the previous page). **Options** opens a window for listing public holidays which fall on a weekend or on a Monday.

8		
	Substitute day	
		V OK Cancel

To copy programming, you must:

1/ Click Copy planning.

- 2/ Select the circuit containing the source of the programming to be copied using the drop-down menu.
- 3/ Select the event to be copied.
- 4/ Select the destination circuit on which the programming will be replaced or added.

	rce Z01 : hall			•						
ver	nt to be copied				Dest	ination				
•	Туре	DAy	Action	÷		No.Zone	Name	Number of steps	+	Replace
~	Hebdo	LMMJV	Mélodie 1		~	Z02	corridor	3	+	Add
						Z03	room 1	0		nuu
						Z04	room 2	0		

4.5 Live broadcast management

The Broadcast menu may be used to broadcast, live, audio from the computer to sounders found in a zone or group.

This menu is only available for the following operating systems: Windows Vista, Windows 7 and Windows 8.

Access to the Broadcast menu

1/ Click Broadcast in the navigation bar (it turns yellow when selected):

Broadcasting a sound to a zone or group

1/ In the menu on the left, select the zone and/or group of sounders to broadcast audio from the computer live.

Zones	
hall	~
corridor	
room 1	
room 2	
Groups	
Configuration	
Configuration	
Configuration	

2/, Play the audio track of the computer that you want to broadcast on the sounders. Player types: VLC, Windows Media Player.

e.g.:



3/ Click to play the audio track. To stop playing, click the Stop button on the computer's player or in the software.

4/ The volume may be adjusted directly from your computer's player or from the pages of each product's web server (see the corresponding product instructions).

The sound level is symbolised by a VUmeter (outlined in red):



5/ Set the live broadcast priority by clicking the drop-down menu (priority applied in the case of several PCs broadcasting audio over the network):

9	
Parameter	
Broadcast priority	High Madium
 Image: A set of the set of the	Low

If broadcasting is enabled in the software but no audio track is played from the computer, the following information window opens:

A period of inactivity has been detected. Broadcast was ended automatically.
ОК

N.B.: methods are available and may be downloaded from the Bodet website, at the following address: <u>http://www.bodet-time.com/systeme-sonneries/telechargement-melodies.html</u>

Click on	វេត	Settings	to open the fo	lowing window:
				Broadcast priority Medium
				2 Broadcast quality Average C Automatic deactivation after a period with no audio
				Validate X Cancel
1	Choos	se the level	of priority to be	applied when the sounder has several audio streams incoming from different PCs
		- High:	the incoming s	tream with high priority will continue to be played regardless of the other

- High: the incoming stream with high priority will continue to be played regardless of the other incoming streams.

- Average: the incoming stream with average priority will continue to be played if another stream with low priority is incoming but will be cut and replaced by an incoming high-priority stream.

- Low: The incoming stream with low priority will continue to be played if another low priority steam is incoming (chronological order of priority: the first stream to come in will be played).

N.B. If two streams with the same priority level are received by a sounder, the first of the two will be played.

2 Choose the broadcast quality: Normal or High (this mode can only be used on sites without a Harmonys repeater or on a local Multicast address).

Broadcast status

Broadcasting enabled and in progress.

Broadcasting enabled but no audio detected on the computer.

Broadcasting disabled.

5. Regular backup

The configuration files must be backed up regularly. The backup is done to a storage space (PC or external medium). We recommend backing up every week and checking regularly whether the backup has been done, in order to prevent unpleasant surprises.

1. Broadcasting does not work... Check that...

1/ The multicast address is identical in the Sigma software and the products found on the network.

Remainder: in the software, the multicast address can be changed:

- **No master clock mode**: from the "Broadcast" screen using the **Multicast Address** button.
 - **Ethernet or USB** mode: from the screen "Configuration > Sounders and relays" using the **Multicast Address** button.

For sounders, the multicast address may only be changed using the web server:

From the screen "Configuration > IP Device" using the Web server access button.

2/ An audio element must be in the process of being broadcasted, and the volume must not be set to "mute".

If the problem persists, check for presence of several players.

To access it from your computer:

- Right click the loud speaker icon next to the clock, followed by "Playback devices".



- Disable the peripheral(s) which do not broadcast audio.

In the example below, the sound is emitted on "Loud speakers/Headphones". The obsolete element, "Communication headphones" must therefore be disabled. (Right click the element, and "Disable").



3/ Restart the application: audio broadcasting will work.

2. Sigma is not on my network

1/ Check that the Sigma master clock is in DHCP mode (see the Technician menu in the corresponding master clock instructions).

If the Sigma has a fixed IP address, it is possible that its address does not correspond to your network.

3. Error when starting up the software

When the software starts up, depending on your administration rights, it is possible that an error window will be displayed on screen.

1/ Right click on the executable, then "Run as administrator".



2/ Check for the presence of the file < ChilkatAx-9.5.0-win32.dll> in the installation directory.

3/ Open a DOS command prompt in administrator mode and type the following commands:

- a. > cd C:\Program Files\BODET\Sigma
- b. > regsvr32 ChilkatAx-9.5.0-win32.dll
- 4/ If you obtain:



Restart the SIGMA software; the problem is solved.

If you obtain:



It is necessary to install <<u>Microsoft Visual C++ 2008 Redistributable Package (x86)</u>>. After installation, restart the SIGMA software; the problem is solved.

1. Melody names

Here is a list of the names of the melodies delivered with your Harmonys sounder:

1	Aurore.mp3
2	Bottle.mp3
3	Carillon fin.mp3
4	Carillon musicale.mp3
5	Carillon rapide.mp3
6	Congas.mp3
7	Enbois.mp3
8	Entree.mp3
9	Malice.mp3
10	Plaine.mp3
11	Produit.mp3
12	Programme.mp3
13	Sonnette électrique école.mp3
14	Syntaxe.mp3
15	Technique.mp3
16	Vibrato.mp3
17	Whistle.mp3
18	Xylophone aigu.mp3

Other melodies are available and may be downloaded from the Bodet website, at the following address: <u>http://www.bodet-time.com/systeme-sonneries/telechargement-melodies.html</u>

CONCLUSION

We hope that this guide will help you make the most of your Sigma operating software.

If there is a problem, check that it is caused by the Sigma software and is not an internal computer problem, a cabling problem, etc. and that it cannot be solved using this manual.

If you have any questions which are not covered by this manual, please write to us at the following address: <u>commercial.tsi@bodet.com</u>

If you have any comments on use of the software or the services we provide, please write to us at the following address: <u>marketing.industrie@bodet.com</u>