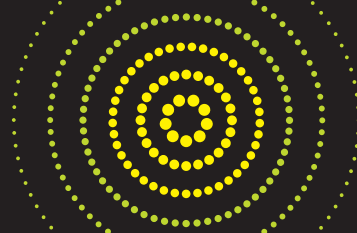




# An all-in-one audio solution

Synchronise • Alert • Communicate

## Harmonys Multisite software



**Bodet**  
www.bodet-time.com

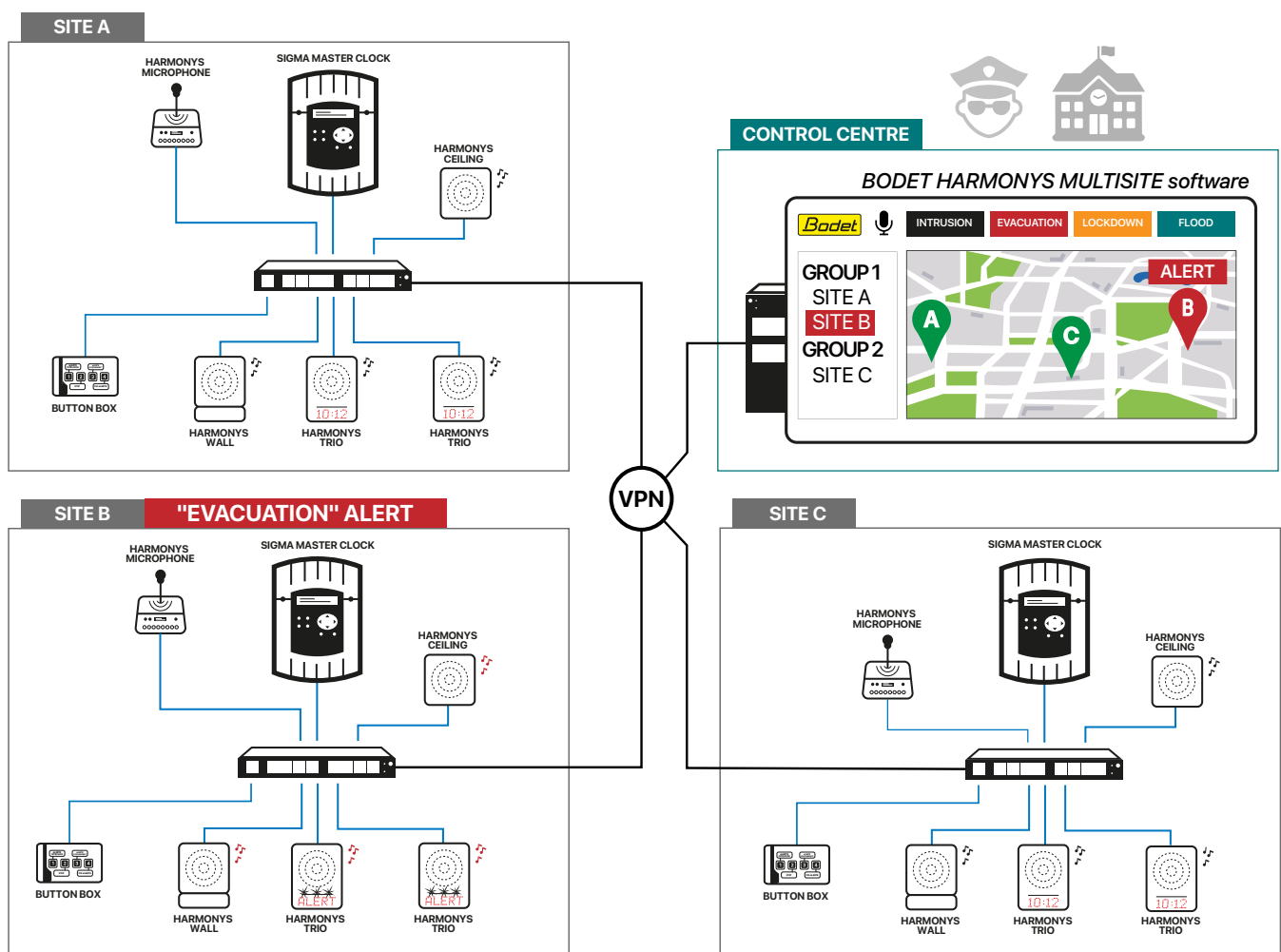
MADE IN FRANCE

### DESCRIPTION

- The Harmonys Multisite software allows supervision of information relating to alert triggering (intrusion, lockdown...) within sites (schools, sports halls, museums...) equipped with a BODET Harmonys audio ecosystem.
- In addition to supervision, it is possible to remotely trigger or stop alerts as well as to make microphone calls to these sites.
- This software is particularly adapted to the needs of supervisory bodies, such as urban protection centres.
- Available languages: French, English, Spanish, German.



### OVERVIEW DIAGRAM



### MAIN FEATURES

The Harmonys Multisite software allows a control centre:

- To supervise all sites equipped with a BODET Harmonys audio ecosystem at all times by displaying alerts triggered locally (for example: by pressing one of the button box buttons on site).
- To remotely trigger and stop alerts on sites (including those triggered locally). This software ensures that the command has been successfully executed on site.
- To make microphone calls to these sites. The announcement will be broadcast on all speakers of a site. When triggered on site, the alert is stopped while the microphone call is being made and then reactivated (only if the alert is programmed as a loop).

Harmonys Multisite software also provides APIs for retrieving information on the status of supervised sites, and for triggering alerts.



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## USE

The Harmonys Multisite software is accessible from a web server and features a user-friendly interface.

- A control screen allows quick visualisation of the status of the sites through the use of a customisable interactive map and several filters. The appearance of the pointer associated with each site changes when an alert is triggered for immediate analysis of the situation.
- An audible signal and notifications state that an alert has been triggered on site.
- An ergonomic action menu allows quick interaction with the sites for remote triggering or stopping of alerts (modifiable) and making microphone calls. Up to 15 types of alerts can be programmed.
- An event log allows keeping an history of all alerts triggered on sites. It can be exported to an Excel file.
- Sites can be organised into groups for easier supervision and a contact person assigned for each site.
- Different rights to software features can be assigned depending on the type of user.



## PREREQUISITES

For proper operation, the following conditions must be met:

### Sites to be supervised

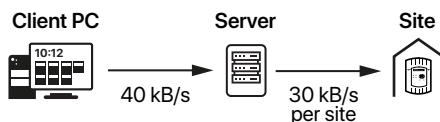
- Each site must be equipped with a Sigma master clock and an up-to-date Harmonys ecosystem available at all times.
- Each ecosystem must be on a dedicated VLAN.
- At least two fixed IP addresses must be available on each site for BODET devices and a Harmonys speaker must be configured in "Multisite repeater" mode.
- The programming of each button box must be strictly identical between all sites and correspond to the one that will be entered in the Harmonys Multisite software.

### PC/Dedicated server

- It is required to set up a PC/dedicated server available 24/7. Possibility to use a virtual machine.
  - Minimum system requirements: CPU 4 cores 2 GHz / 8 GB RAM / 500 MB of available storage.
  - Compatible OS: Windows 10, Windows 11, Windows Server 2019, Windows Server 2022.
  - Throughputs:

When the microphone call function is not used, the required throughputs are minimal.

When using the microphone call function:



For example, when supervising 20 sites, the throughputs required at server level must be the following:

- 40 kB/s with client PCs (only 1 client PC at a time is allowed to send an audio stream to the server),
- 600 kB/s to all sites.

**The required throughputs depend on the number of supervised sites.**

- Availability of network flows:

- The following network ports must be open on the dedicated server:

Software feature	Type	Source Port	Destination Port
Web server access HTTPS	TCP	3000 (https) (port number modifiable)	
Notification of alerts Triggering of alerts	UDP - Unicast	45678	56789
Microphone call	UDP - Unicast	Auto	56789
Buttons	UDP - Unicast	1681	1680
Repeater verification	TCP	Auto	5666
Sigma verification	TCP	Auto	5666
Ping	ICMP	-	-

- The installation of the following additional programs (included in the installation package) on the PC/dedicated server:

- Microsoft Visual C++ 2015-2022 Redistributable - 14.31.31103,
- OpenSSL 3.0.2 Light,
- NodeJS 18.16.0 (version of the program to be kept to ensure the correct operation of the Harmonys Multisite software. The NodeJS program must not be updated).

### Computer security

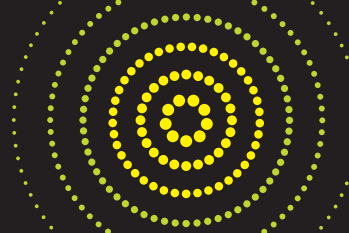
- Using a VPN (Virtual Private Network) or private and secure links is mandatory to secure connections between your server and the sites to be supervised.
- Access to the server on which the Harmonys Multisite software is installed must be hardware and software secure.
- The installation of the appropriate network infrastructure is the sole responsibility of the customer.



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### Internet connection and browsers

- It is required to use an internet connection and the following browsers on client PCs to connect to the web server of the Harmonys Multisite software: Mozilla Firefox, Microsoft Edge, Google Chrome.

### Hardware

- To make calls to supervised sites, it is required to use a microphone (headphones, desk microphone...) not supplied.
- It is recommended to use a full HD screen in 16:9 format for optimum display of the software control screen. The recommended resolution is 1920x1080 (minimum resolution: 1280x720).

### LICENCE AND SOFTWARE PROTECTION

- The Harmonys Multisite software operates with a renewable annual licence (annual subscription) and uses a protection system against illegal use. A virtual protection key with unique user ID is required to operate the software.

### REFERENCE(S)

907 7M5B.....	Harmonys Multisite - Management of 5 sites
907 7M10B.....	Harmonys Multisite - Management of 10 sites
907 7M20B.....	Harmonys Multisite - Management of 20 sites
907 7M30B.....	Harmonys Multisite - Management of 30 sites
907 7M50B.....	Harmonys Multisite - Management of 50 sites
907 7M70B.....	Harmonys Multisite - Management of 70 sites
907 7M100B.....	Harmonys Multisite - Management of 100 sites
907 7M130B.....	Harmonys Multisite - Management of 130 sites
907 7M160B.....	Harmonys Multisite - Management of 160 sites
907 7M200B.....	Harmonys Multisite - Management of 200 sites
907 7M250B.....	Harmonys Multisite - Management of 250 sites
907 7M300B.....	Harmonys Multisite - Management of 300 sites

- These references come with the following mandatory services as part of a roll-out:

MPLANCSI..... (Technical files)	Specific to customer's project.
MFORMCSI..... (Remote set up and training)	Remote assistance for set up of IP systems (via videoconference or Teamviewer) on programming, set up and test : 0,5 day OR training for endusers via videoconference : 0,5 day.