

Release Notes Voice Alarm System 3.01.01R1

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www.boschsecuritysystems.com
12-October 2013
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1 General

Please download the latest Plena Voice Alarm CD at:

<http://www.boschsecurity.com>

Please check your country and language and find the CD under the LBB1990
The CD is in English and can also at this direct link:

<http://products.boschsecurity.co.uk/en/GB/products/bxp/SKU189277581918014401495088011-P2>

Download the CD and burn it on a temporary CD(RW) and install from the CD. Please locate the FW directory and install the latest firmware, if applicable to you. Please read these notes completely first.

2 EN54-16 compliancy of the Plena Voice Alarm System

The following F/W versions have been certified according to EN54-16:

- 2.16.04
- 2.16.05
- 2.16.08 (Current recommended version for hardware 2.x)
- 3.00.01
- 3.00.02
- 3.00.03 (Current recommended version for hardware 3.0)
- 3.01.01 (Current recommended version for hardware 3.1)

To configure the system, the PC software version and firmware version has to match. To be compliant to EN54-16, the firmware of the controller and routers has to be the same. Certified has been:

Unit Type	Description	HW version
LBB1990/00	Controller	2.0 - 3.1
LBB1992/00	Router	2.0 - 3.1
LBB1995/00	Fireman's panel	1.0 - 2.0
LBB1996/00	Remote Control	1.0 - 2.0
LBB1997/00	Remote Control Extension	1.0 - 2.0
LBB1935/20	Plena Power Amplifier 360/240W	2.0 - 3.0
LBB1938/20	Plena Power Amplifier 720/480W	2.0 - 3.0

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PLN-1P1000	Plena Power Amplifier 1000W	2.0 - 3.0
PLN-1LA10	Loop Amplifier	1.0

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2.1 Backward compatibility of the firmware

Firmware compatibility	hw/version	f/w versions allowed		
Units		2.16.08	3.00.03	3.01.01
Controller LBB1990/00	2.0	Yes	Yes	Yes
	3.0	Yes	Yes	Yes(*)
	3.1	Yes	Yes	Yes
Router LBB1992/00	2.0	Yes	Yes	Yes
	3.0	Yes	Yes	Yes(*)
	3.1	Yes	Yes	Yes

*** Please see notes below, not all functions supported**

Yes means you can run the firmware in top row on the hardware version indicated. If you do upgrade or downgrade, the controller will indicate faults, after up or downgrading you must update the configuration. The configuration files are not backward compatible. You must create a new configuration file and make sure you do not mix them up.

Part of EN54-16 compliancy is to have a well documented system. This includes correct naming and storing of configuration files.

Notes

- 2.16.08 is identical to 2.16.05 except the handling of the USB controller IC and bug fixes
- The following versions are on the CD:
2.16.08 (Please upgrade 2.16.xx to this version)
3.00.03 (Please upgrade 3.00.xx to this version)
3.01.01

In general: if not all hardware or firmware is at the same level, it is possible that not all functions and features are available

Call station LBB1956 firmware

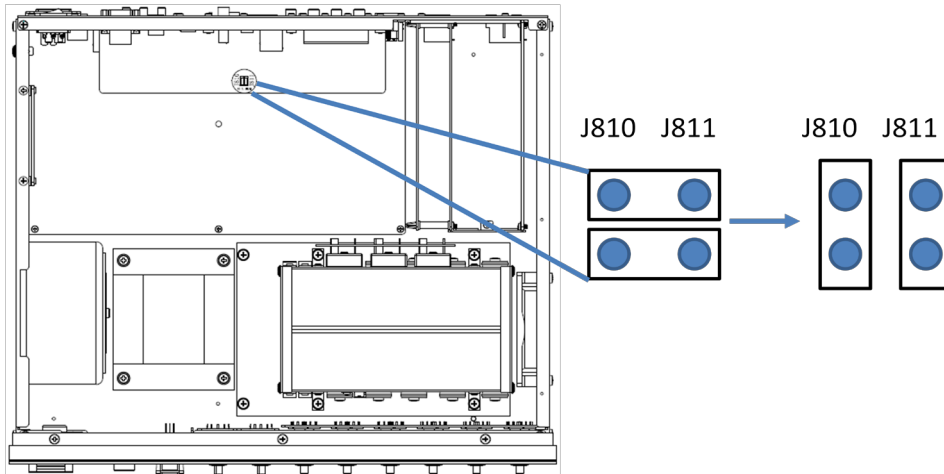
Call stations with older firmware than 3.01.01 will function normally when connected to controller with firmware 3.01.01 except for the new functionality of starting a message from the call station. Call stations with older firmware than 3.01.01 cannot be used to start a message from the call station. The call station firmware is not field upgradable. Call stations manufactured after 1-10-2013 have f/w 3.01.01.

Supervision of business trigger in H/W 2.0 & 3.0 - F/W 3.01.01

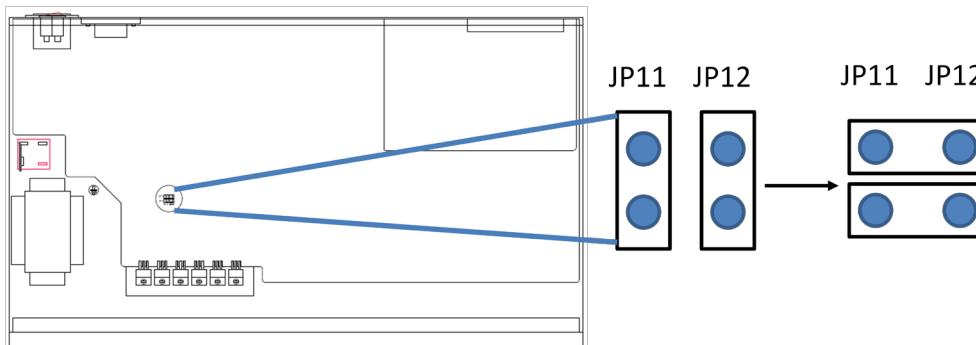
The jumpers J810 & J811 in the controller should be changed from horizontal to vertical.

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The jumpers JP11 & JP12 in the router should be changed from vertical to horizontal.



With these changes, the business trigger inputs will become supervised.

Notes:

- For H/W 2.0, 3.0 and 3.1
 - o To use F/W 3.00.xx or lower:
 the jumpers J810 & J811 in controller need to be placed horizontal.
 the jumpers JP11 & JP12 in router need to be placed vertical
 (there is no supervision of business triggers)
 - o To use F/W 3.01.xx,
 the jumpers J810 & J811 in controller need to be placed vertical
 the jumpers JP11 & JP12 in router need to be placed horizontal
 (Supervision of business triggers is possible)
- The factory default setting for 3.1 hardware. In controller is vertical and in router is horizontal.
- The factory default setting for 3.0 hardware. In controller is horizontal and in the router is vertical.

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2.2 Interoperability of the hardware

Router		Controller		
		2.0	3.0	3.1
	2.0	OK	OK	OK
	3.0	OK	OK	OK
	3.1	OK	OK	OK

Controller/Router		2.0/2.0	2.0/3.x	3.x/2.0	3.x/3.x
Amplifier	2.0	OK	OK	OK	OK
	3.0	OK	OK	OK	OK
LBB1995	2.0	OK	OK	OK	OK
LBB1996	2.0	OK	OK	OK	OK
LBB1997	2.0	OK	OK	OK	OK
LBB1998	2.0	OK	OK	OK	OK
LBB1999	2.0	OK	OK	OK	OK

You may use 2.0 h/w routers on 3.0 controllers with the controller running 3.00.03, as router 1-9 (located in the first 60 zones).

The ID setting of the LBB1997 & LBB1999 H/W v2.0 can only be set as 1~9.

This option is available when expanding systems. We recommend that the same h/w version and same f/w are used in one system.

You can check the firmware version of connected Voice Alarm Components with the PC configuration program. If the firmware version of any of the components is older, you can upgrade the LBB1990/00 and LBB1992/00 if needed.

Checklist

Print and fill in the EN54-16 checklist that is on the CD in the Installation and User Instructions directory and affix the EN54-16 label to the cabinet.

Note:

For more information, check the 3.01.xx CD for manual, manual addenda and release notes.

3 W7 compatibility

Version 3.0 and higher will run on W7 provided that the user has local admin rights and the W7 version is Professional or Ultimate.

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4 F/W 3.01.01

4.1 *Functionality*

4.1.1 Pilot tone modulation

To reduce clicks during impedance measurement, the pilot tone can be turned off before switching channels and turned on after the switch is complete. This prevents switching the pilot tone abruptly, causing an audible click. Only H/W V3.1 can support this click improvement during impedance measurement.

During switchover from music channel to call channel, the pilot tone is muted for 300 ms.

4.1.2 Power save mode under battery backup

It is possible to turn off pilot tone when the system goes to backup power. This saves a considerable amount of batteries. The pilot tone is turned back on during impedance check cycle. Please check whether using this feature fits your application before using it.

4.1.3 Priority of front panel buttons configurable

Priority range for business trigger contacts is wider to accommodate customer wishes in countries in APR.

Alert message priority setting from 9~19

Alarm message priority setting from 9~19

EMG Mic priority setting to 9~19

VOX Mic/Line input priority setting to 2~15

EMG Trigger priority setting to 2~15

4.1.4 Trigger action separated for EMG & Business triggers

It is possible to have different action (on open or on close) for the triggers.

Note:

That means that the action for fault contacts is closed is OK, open is NOK

4.1.5 External trigger input to start impedance measurement

The impedance measurement can now be started via the open interface or via Controller business trigger #6.

4.1.6 Message start from call station

All zone selection buttons on call station can be assigned to message playback

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4.1.7 Primary power fault report delay

When primary power is lost, the fault reporting will be suppressed for 10 s. This is a new requirement in some evacuation standards, other standards allow for up to 100s delay in reporting.

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4.2 Bug fixes

4.2.1 Improved ground short detection

To reduce false positives the time base of ground short detection has been increased.

4.2.2 BGM muting

During switchover from music channel to call channel for impedance measurement, the music is muted so that there is no audible click.

5 F/W 3.00.03

Bug fixes:

PC software

- Zone group settings are lost when the configuration is opened on another PC.
- Problem with configuration of more soft triggers than physical triggers
- Configuration files that are made in an older version are not compatible, but were opened without warning message, leading to runtime errors. Now if the setup program reads a wrong version of configuration file, a message will pop up
- Settings in action programming disappears when changed to a different device

Win7 compatible running without Administration rights

Firmware

- There is a risk of a false positive for the network fault indication when a call is made
- Solved a vulnerability in supervision of loudspeaker lines for EOL/impedance

Version 2.16.08 is the version with functionality of 2.16.05 with bug fixes as listed above, if applicable.

6 F/W 3.00.02R2

Release 2 is a change in PC program only. Firmware is not changed.

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For trigger inputs the action can be defined as open/close for business trigger and emergency trigger separately. Because of this fault inputs are always defined to be closed is OK, open is NOK.

Known bug in open interface

There is a bug in that limits the amount of messages triggered from the open interface depending on the amount of configured routers. In the open interface you cannot configure more messages than hardware triggers. This is a bug limited to the open interface. There is a limit of 12 the PC configuration has been updated. It is always present and noticed during programming or commissioning. Next release will address this.

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7 F/W 3.00.xx / H/W 3.0 functionality

- The system allows for 19 routers, instead of 9. Thus the system is capable of 120 Zones. To be able to use this feature, 3.0 hardware routers are needed and 3.00.0x software and firmware. If older routers are used, 2.x or higher, 60 zones can be addressed.
- In the previous versions several steps needed to be made to select for instance the number of routers (pull down box select, scroll in box, select, confirm). These 4 steps have been altered into a field with direct selection radio buttons, reducing time and operations. This change does not affect the operation of the Voice Alarm System
- Version check during upload implemented. Upon uploading the setup to the Plena Voice Alarm Controller, the PC software, and firmware versions of Controller, Router and remote control panels are checked. They must match. If that is not the case, upload will not be done.
- Open interface. The open interface enables communication with the FPA1200 and the FPA5000 fire systems from Bosch, and other devices that have implemented the protocol. The open interface has similar control of the voice alarm system as the hardware remote control panels and trigger inputs:
 - o Starting and stopping of messages
 - o Routing of the audio input to a zone via a call
 - o Entering the alarm state
 - o Acknowledge and reset of faults
 - o Acknowledge and reset of the alarm state
- The open interface gives access to 120 soft triggers. These triggers are programmed in the PC configuration software in the same way as hardware triggers.

Furthermore the open interface sends logging information.

The open interface protocol is defined in open interface documentation v3.11. This open interface is not compatible with older firmware versions

- Mic/Line input can be routed via soft and real triggers
- Changes in PC software, cosmetic changes. More info per page, less steps to complete the configuration.

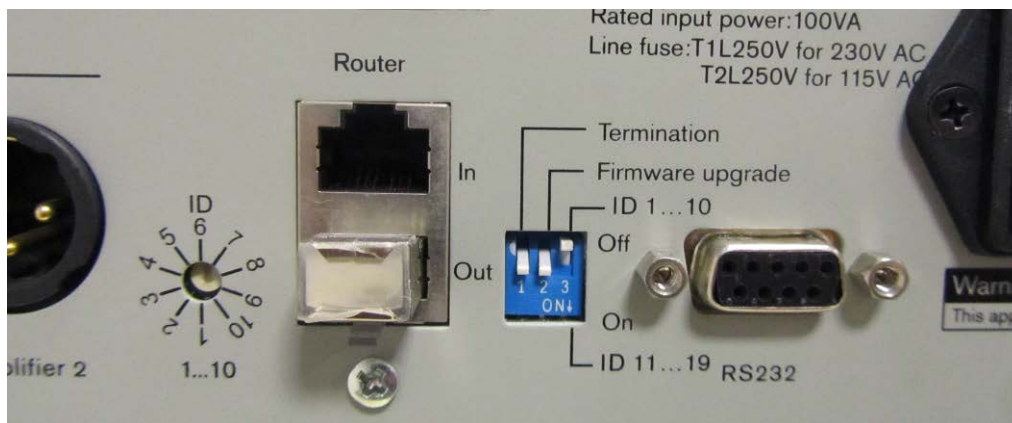
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- The supervision detection reporting time for connection between Controller and Router is now 90 seconds. This reduces false positives. The detection reporting time for the loss of connection between Controller and RCP is 8 seconds
- The RS232 supervision was always on when RS232 was selected. Now it is dependent on the "Network Supervision" check box in the PC configuration software (as well as the RS232 open interface protocol command)
- Starting Impedance measurement trigger is assigned to reserved output TRG1
- The default password for both PC setup and hardware is 12345678
- A program called "Virtual Panel" has been added to test all remote accessible triggers (the demo tool does not include network supervision).
- It is possible to set a delay for the EMG message and configure the action open or close separately for the message and fault triggers.

8 Hardware 3.0

- The address of the router is set with the rotary switch 17 in combination with the dipswitch labeled ID. The dipswitch has 3 switches. The third (right) determines whether the router has address 0x (1 to 10) or 1x (11 to 19).



8.1 LBB1990/00, LBB1992/00, LBB193x/20

The 24V backup power input is redesigned so that when the primary power is below lower limit. A relay switches to back up power. Earlier versions add both power sources together via a diode.

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9 New in 2.16.xx PC s/w

9.1 *New tick boxes:*

“Messages is stopped when the trigger is released”

In some regions the preference was that messages are completed when a trigger is released, in others the preference was that messages are broken off.

9.2 *New radio buttons*

“Override of soft triggers from front panel”

“External device is master, soft triggers cannot be overridden from front panel”

System behavior when RS232 connection is lost was made configurable:

- When connection is lost the system becomes autonomous. The system can be reset from the Voice Alarm side, or
- The unit that is connected to the Voice Alarm System is the master, manual manipulation of the EM state follows chapter 8.3 of the EN54-16, fault in the connection is reported and manual manipulation on the Voice Alarm side is not possible

When the RS232 is enabled the following pop up is displayed:

Warning:

When using the open interface, there are two options for if the RS232 connection is lost:

1. Manual override shall be possible. The messages can be reset from the front panel. In this case the CIE (external device) has to be configured to retrigger the message when the connection is re-established

2. CIE (external device) is always master: on lost connection the soft triggers can only be reset by turning the system off and on.

Note

A lost connection is signaled as a network fault.

(RS232 supervision should be enabled via open interface)

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9.3 Action programming window

A tab is added to configure the soft triggers

New check box in controller front panel tab

“After EMG trigger release the system remains in EMG state”

— The system can be configured to remain in the EMG state when an Emergency trigger is released or to drop out of EMG state on release of the trigger

This must be deselected if connected to a FPA -> otherwise a Plena fault occur on the FPA panel

9.4 Download messages and configuration window

— It is now possible to download the messages from the controller. The message names are not stored in the controller. When downloading (from controller to computer) the wav files are stored as wav1, wav 2, etc. The installer should store a file with all used messages and configuration. This feature is intended as a last resort only.