Release Notes Praesideo V2.0

Praesideo

DIGITAL PUBLIC ADDRESS AND
EMERGENCY SOUND SYSTEM

Revision History

Date:	Version:	Comments:
27-11-2003	1.0	Initial document version at release date

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1 Introduction

1.1 Scope

These release notes give an overview of new functionality in the V2.0 Praesideo software release. It also describes the known limitations. Whenever a workaround for one of these problems is available it will be provided in this document.

1.2 Definitions, acronyms and abbreviations

AEX	Analogue Audio Expander
CST	Call Station
CST-kit	Call Station Kit
BGM	Back Ground Music
CCA	Configuration Conversion Application
CS	Configuration Software
FIN	Fibre Interface
FTA	File Transfer Application
KPD	Call Station Keypad
KPD-kit	Call Station Keypad Kit
NCO	Network Controller
PAM	Power Amplifier
PCB	Printed Circuit Board
PTT	Press-to-talk

2 Hardware/Software information

2.1 Supported platforms

The Praesideo software requires one of the following operating systems:

- ✓ Microsoft© Windows© NT 4 with Service Pack 6
- ✓ Microsoft© Windows© 2000 with Service Pack 2
- ✓ Microsoft© Windows© XP

Using the Praesideo software on one of the following operating systems is not guaranteed:

- ✓ Microsoft© Windows© 95
- ✓ Microsoft© Windows© 98
- ✓ Microsoft© Windows© ME

2.2 Hardware requirements

The following hardware is required to install the Praesideo software on your PC

- ✓ Processor: Pentium or higher
- ✓ Physical memory: 64MB or higher
- ✓ Screen resolution: 800 x 600 pixels or higher
- ✓ Free disk space: 70MB (typical setup)

2.3 Software requirements

The following software is required while running the Configuration Software (CS).

- ✓ Microsoft© Internet Explorer v6.0 or higher
- ✓ Java™ 2 Runtime Environment Standard Edition v1.4.1 (available on installation disk)
- ✓ Adobe© SVG Viewer v3.0 (available on installation disk)

No additional software is required for running the File Transfer Application (FTA).

3 New functions in this release and previous releases

3.1 Added Functionality V2.0

- Support for LBB4428/00, 8x60W power amplifier
- Open Interface via TCP/IP, to create a custom PC call station
  - Make/modify/abort/stop calls
  - Resource occupation
  - Set time/date
- Better sorting of diagnostic events (last on top)
- Faster software installation (upgrade all)
- No configuration file conversion needed from 1.1, 1.2 or 1.3 to 2.0
- Configurable priority-based blocking of calls when the system is backup powered (not fixed to emergency calls anymore)
- Both mains and backup power can be enabled/disabled per power amplifier (absence of mains is not an automatic fault)
- Calls started from a contact input are partial (e.g. for emergency)
- AVC on power amplifier can be active on BGM too
- Improved (sensible) default names for input and outputs
- Improved diagnostics descriptions
- Improved configuration file checking on the NCO
- Presence of flash card is configurable (32MB delivered standard)
- Real time settings can also be configured off-line
- Spare amplifier can have a superset of the line supervision boards that the main amplifiers have (no need for identical setup)
- Configurable pilot tones on NCO and AEX outputs
- The system can be (remotely) restarted from the configuration PC (no NCO off/on required anymore)
- Call station can do multiple calls via call activation buttons, just like call station kit
- Checking on call station kit backup power availability is now configurable
- Clock synchronization by contact input
- Improved pilot tone calibration process
- Contact input to contact output ‘call’ can be made
- External logging program improved and accepts 32 NCOs
- Priority status indication extended to priority 0, to indicate BGM presence in zones

3.2 Added Functionality V1.3

- Business calls are allowed during back-up operation. In release V1.10 and V1.20 it was only possible to have emergency calls (priority 224-255) into the system while it was working on 48 Vdc battery back-up in order to save battery capacity. Now it will be possible to choose the minimum priority level (0-255) at which calls, or even BGM, will be allowed during operation on back-up power.
- Selection of 48Vdc as the primary power supply. Absence of the mains power supply will no longer generate an error message if this mode of operation is selected.
- Calls started by a call activation key, either on a call station (kit) keypad key or a control input, can now be stopped immediately. This can be any chime, alarm tone or running message, and will enable the user to interrupt continuous alarm tones. The signal of the call will cease as soon as the call is stopped. Calls started by a PTT-key will operate as before.

3.3 Added Functionality V1.2

- Local AVC – Automatic Volume Control has been added to the Power amplifiers. An ambient sensing microphone, connected to microphone input 2 of the power

amplifier, senses the ambient noise level and the amplifier channels, enabled for AVC, will adjust the level of the call, if necessary.

- A 20kHz pilot tone can be added to the outputs of the NCO and AEX for supervision of analog connections to subsequent audio devices, like the Intellivox active loudspeakers.

3.4 Added Functionality V1.1

- Improved network stability
- The option to enable/disable system redundancy is available at System wide settings in the configuration. The user is now able to define whether the system should generate an error when the redundant network ring is broken
- Activation, acknowledgement and reset of the emergency state are logged in the general events logging
- The 4 x 60W power amplifier is supported in the configuration.
- The Network Controller supports 4 message generators for broadcasting messages. This means 4 messages can be played simultaneously (network controller HW15/00 or higher required)
- The call station kit is provided with contact input supervision for its control inputs (call station kit HW07/00 or higher required) and the PTT-key
- Contact output 4 and 5 of the Network controller are assigned for audible and visual fault indication (network controller HW15/00 or higher required). These contacts are needed for IEC60849 compliancy
- Audio delay function for power amplifier outputs

4 Getting started

4.1 Installation information

The Praesideo Installation and User Instructions for V2.0 are delivered as pdf-file on the CD. Please read carefully the instructions for installation of the software in Section 7 – System Software Installation.

4.2 Configuration conversion

If you are upgrading from a Praesideo version 0.91, 0.92 or 1.0, your old configuration file must be converted to the format that is used by Praesideo version 1.1, 1.2, 1.3 and 2.0 because these file formats are not compatible. Appendix C in the Praesideo Installation and User Instructions for V2.0 describes how you can convert your old Praesideo configuration file.

Note The Praesideo system stores system events on the flash disk. The format of these events differs between version 2.0 and older versions. When events are stored on the flash disk by a previous version and the system is upgraded to 2.0, all stored events are removed from the flash disk. This means no old events can be recalled. As a side effect, the system will log an error for every old event. These errors are stored in the SRAM (so they can be recalled when needed). Due to this, one or more errors that have occurred in the system before the upgrade, can no longer be recalled. The number of errors that can still be recalled depends on the number of stored events, but due to the nature of the events that are being logged (unit connection, call start, etc.), it is likely to happen that no previous errors can be recalled after upgrading to version 2.0 and the only errors available in SRAM are the errors regarding the incorrect format of the events on flash disk.

5 Known Limitations

- **Alarm tone behaviour**
  - A continuous alarm signal started with a PTT-button cannot be stopped
- **Audio Expander**
  - The audio expander does not show the network status on its display.
- **AVC**
  - Changing audio input 2 on the power amplifier from line to microphone and also enable the microphone supervision should be done in 2 steps. (See 5.1, Known Workarounds)
  - When, on an amplifier, the AVC function is disabled and during the calibration process of AVC, the amplifier is disconnected from the system bus causing a “unit missing” error message. This error message can be acknowledged and reset but entries are made to the logging file.
- **Back-Up Power**
  - The setting for back-up power detection of a *spare* power amplifier cannot be switched on or off. Back-up power failure will not be detected for that amplifier. (See 5.1, Known Workarounds)
- **Background Music (BGM)**
  - It is not possible to assign a priority level to a BGM channel. All BGM channels receive the default priority 0.
  - The BGM volume settings and zone assignments are not saved when the system is shut down. After a system reset all settings have to be reconfigured with the appropriate keypad keys.
- **Call Macro**
  - When using call macro’s containing multiple messages, the PTT-key has to be pressed during the complete call to play all messages.
  - Call macro’s programmed with a default input can be selected on units that do not have a default input (for example: NCO, AEX, etc.), this can cause unexpected system behaviour.
  - A call macro started with a call activation key on a call station keypad (kit) or a control input cannot have an end chime.
  - A running message started with a call activation key on a call station keypad (kit) or a control input will not be interrupted before the message is finished when the call is stopped.
- **Call Station**
  - Attaching/detaching a call station to the system may cause other system nodes to reset due to the power dip on the network cable.
  - Non-emergency calls that are made with a contact input or key that is set to toggle keep running when the unit that started it is suddenly disconnected from the system.
- **Call Station Kit**
  - The phantom supply of the call station kit is currently not supported in the configuration. The default setting of the phantom supply is off, which means that only dynamic microphones can be attached.
- **Convert Configuration Application**
  - A configuration that is converted with the Convert Configuration Application will not contain any contact output functionality. This functionality has to be reconfigured at the appropriate place by the installer.
- **Emergency State**
  - Non-emergency calls remain possible in case of an emergency state.
  - The emergency state is cancelled after a system reset.

- **File Transfer Application**
  - A new, empty, network controller cannot be accessed using default username (admin) and password (admin), but require username ‘target’ and password ’password’. (See 5.1, Known Workarounds)

- **Logging**
  - A corruption in the configuration file will not be logged in the fault logging.
- **Loudspeaker Line Supervision**
  - In the LBB4428/00 8-channel power amplifier the master PCBs of the LBB4442/00 line supervision sets are mounted very close to each other. Crosstalk between these master PCBs may cause wrong supervision results of the loudspeaker lines. New LBB4442/00 boards with shielded inductors solve this problem; see 5.1, Known Workarounds.
- **Monitoring**
  - The monitoring pad of a power amplifier is not restored after a restart.
- **Network Controller**
  - The network controller does not start up the system when an old configuration file (from a previous software release) is present in its directory structure.
  - An empty Flash card in a network controller will generate a “Flash card data error”. Even if no messages are needed, copy an empty message set to network controller to prevent this error message.
  - After a ‘soft reboot’ of the network controller via Save and Restart after configuration some flash cards are not properly initialised and do not work. A ‘hard reboot’ of the network controller (power off/on) will solve this.
  - The Praesideo system stores system events on the flash disk. The format of these events differs between version 2.0 and older versions. When events are stored on the flash disk by a previous version and the system is upgraded to 2.0, all stored events are removed from the flash disk. This means no old events can be recalled. As a side effect, the system will log an error for every old event. These errors are stored in the SRAM (so they can be recalled when needed). Due to this, one or more errors that have occurred in the system before the upgrade, can no longer be recalled. The number of errors that can still be recalled depends on the number of stored events, but due to the nature of the events that are being logged (unit connection, call start, etc.), it is likely to happen that no previous errors can be recalled after upgrading to version 2.0 and the only errors available in SRAM are the errors regarding the incorrect format of the events on flash disk.
- **Web Interface**
  - The progress indicator in the equipment download page sometimes gets stuck at a given percentage.

5.1 Known Workarounds

- **Alarm tone behaviour**
  - A continuous alarm signal started with a PTT-button cannot be stopped.
    - ➲ Use a call activation key instead.
- **AVC**
  - Changing an audio input on the power amplifier from line to microphone and also enable the microphone supervision has to be done in 2 steps.
    - ➲ First step, select microphone input, submit the web page, save the configuration to the network controller and restart the network controller. Second step, enable supervision for the microphone input, submit the web page, save the configuration to the network controller and restart the network controller.
      Now, the network controller will accept both settings
- **Back-up Power**
  - The setting for back-up power detection of a *spare* power amplifier cannot be switched on or off. Back-up power failure will not be detected for that amplifier.
    - ➲ Change the *spare* power amplifier to *main* in the configuration and then change the setting for back-up power supply. After this is set, change the amplifier back to spare.

- **Call Macro**
  - A call macro started with a call activation key on a call station keypad (kit) or a control input cannot have an end chime.
    - ➲ If you need to have an end chime you can only use the PTT-key of the call station (kit) or a PTT-key of the call station keypad (kit).
  - A running message started with a call activation key on call station keypad (kit) or a control input will not be interrupted before the message is finished when the call is stopped.
    - ➲ Use the PTT-key of the call station (kit)or a PTT-key of the call station keypad (kit) when a running message must be finished after the call is stopped.
- **File Transfer Application**
  - At the first start-up of a new network controller it will not be possible to have access using default username (admin) and password (admin).
    - ➲ Enter the network controller with the username ‘target’ and the password ‘password’.
- **Loudspeaker Line Supervision**
  - In the LBB4428/00 8-channel power amplifier the master PCBs of the LBB4442/00 line supervision sets are mounted very close to each other. Crosstalk between these master PCBs may cause wrong supervision results of the loudspeaker lines.
    - ➲ New Bosch LBB4442/00 boards use shielded inductors to solve this problem, so only use Bosch LBB4442/00 line supervision sets for the LBB4428/00; the previous Philips LBB4442/00 line supervision sets can still be used in other Praesideo power amplifiers.
- **Network Controller**
  - A ‘soft reboot’ of the network controller via Save and Restart after configuration may result in a flash card that is not properly initialised and will not work.
    - ➲ A ‘hard reboot’ of the network controller (power off/on) will solve this.
- **Spare Power Amplifier**
  - When a main power amplifier contains enabled inputs and outputs, these stay selectable in the configuration after the amplifier is switched to spare functionality.
    - ➲ Change the power amplifier from spare to main and disable its inputs and outputs. Now change the amplifier back from main to spare. All entries are removed from the configuration.
- **Web Interface**
  - The progress indicator in the equipment download page sometimes gets stuck at a given percentage.
    - ➲ During this failure the actual download continues. Wait one minute for download to finish and then refresh the page.

6 General Tips

- Only download unit software to the individual Praesideo units after a complete software version upgrade. Only then it is necessary to provide new software to the systems separate units. You will be forced to wait a couple of minutes after a system start-up before you can initiate a download. Please make sure the system is idle while downloading.

- While working with the *Configuration Software*, do not make unnecessary downloads to the separate units in the Praesideo system. Changes that were made to the configuration are stored in the Network Controller and take effect after a system restart. It is not necessary to download unit software to the systems units for configuration changes to take effect.