Installation instructions GEMOS4

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Contents

1 System requirements....4

2 Automatic installation (setup program)....5

3 Manual installation....6

3.1 Installation of a new empty system....6

3.2 Installation of a new system with demo data....6

3.3 Updating an existing GEMOS4 system....6

3.4 Upgrade of an existing GEMOS3 system....6

3.4.2 Necessary extra work to be carried out on the master data as part of a GEMOS3 upgrade....6

3.5 Known installation problems....7

4 Notes regarding compatibility....8

4.1 Web browser....8

4.1.1 Internet Explorer 10....8

4.1.2 Internet Explorer 9....8

4.1.3 Internet Explorer 8 and earlier....8

4.1.4 Firefox Version 24....8

4.1.5 Firefox Versions 10-23....8

4.1.6 Google Chrome....8

4.1.7 Other browsers....8

1 System requirements

	GEMOS Server	GEMOS operator station	Interface computer
Hardware	• 2GB RAM, 10GB free hard disk space. • A CPU with at least two cores is recommended.	• Sufficient power for operation of a modern web browser. • Sound card for playback of alarms. • Dual-screen system recommended.	The requirements are depending on the interface program to be run. Please consult the relevant interface documentation.
Software	• Firebird database server version 2.5 or higher (32 or 64 bit depending on the operating system). • Reliably functioning name resolution (DNS) for all computers involved in GEMOS system.		The requirements are depending on the interface program to be run. Please consult the relevant interface documentation.
additional Windows software	• Windows Server 2008 or higher.	• Windows 7 • Internet Explorer Version 11	•Windows Embedded Compact Note: Desktop and Server versions of Windows are not recommended at present as they place higher demands on the system!
additional Linux software	• Kernel V2.6 or higher. • libc (V2.5 or higher), libdl, libpthread, libstdc++, libm, libgcc, libjpeg62, libosmesa6 • For long-term recording of measured values additionally: librrd, rrdtool • For printing of location plans additionally: wkhtmltopdf, pdftops, CUPS • For sending of e-mails additionally: sendmail or equivalent (e.g. postfix).	• any version. • Firefox browser Version 24 or higher	• Kernel V2.6 or higher. • libc (V2.5 or higher), libdl, libpthread, libstdc++, libm, libgcc

2 Automatic installation (setup program)

Currently not available.

3 Manual installation

3.1 Installation of a new empty system

1. Make sure that a sufficiently up-to-date version of Firebird (2.5 or higher) is installed.
2. Copy the directory structure supplied on the installation medium to the local hard drive.
3. Rename the sample_config and sample_webroot subdirectories in "config" and "webroot".
4. Obtain a license file and store in config.
5. Start Pro02srv.
6. Call up service page (http://localhost:12080/!pro02srv/).
7. Go to "Modules" and install all modules.
8. Go to "User administration" and assign the necessary user rights to the administrator.
9. Exit the pro02srv as a precaution and restart.

3.2 Installation of a new system with demo data

If demo data is available, follow the same installation procedure as before, with the following additional steps:

3a. Also copy the "sample_data" directory to "data".

3.3 Updating an existing GEMOS4 system

1. **Create backup!**
2. Exit old pro02srv.
3. Make sure that a suitably up-to-date version of Firebird (2.5 or higher) is installed.
4. Copy the directory structure supplied with the installation medium over the installed GEMOS.
5. Start new pro02srv.
6. Call up service page (http://localhost/!pro02srv/).
   From this page, go to "Modules" and install all modules.
7. Exit the pro02srv as a precaution and restart.

3.4 Upgrade of an existing GEMOS3 system

The installation is basically carried out as described under "Fehler: Referenz nicht gefunden", with the following additional steps:

4a. Edit the pro02srv.cfg file in the config directory and make sure that the "modules" line contains the two modules "gmsui" and "stammdb".

4b. Remove all executables delivered in the "bin" subdirectory, in particular the "pro02srv.exe", from the main directory.

7a. Carry out the extra work described in the following chapter.

3.4.1 Necessary extra work to be carried out on the master data as part of a GEMOS3 upgrade

At present, the following extra work must be carried out manually.

1. Due to a modified rights structure, all operator group rights are lost during the installation and must be reassigned. For a start, although the MASTER may also process master data, this person may not open control panels or process alarms!
2. All location plans with buttons must be called up once in the layout editor and stored again before they function correctly in the operator control view.
3. A number of scripts are from dynamic layout elements and must be modified as the script syntaxes of GEMOS3 and GEMOS4 are slightly different. This particularly applies when using the following functions:
   - MpItem()
   - MpCall()
4. With dynamic layout elements containing HTML text, the requirement for the HTML to be syntactically correct and for open tags to be closed again already existed in GEMOS3. Although incorrect HTML was tacitly accepted, in GEMOS4 problems occurred due to the more stringent HTML5 syntax check. In particular, it may no longer be possible to select elements behind a faulty element in the layout editor.

4 Notes regarding compatibility

4.1 Web browser

Only the versions listed below have been officially certified.

Newer versions than those listed should work. However, it is not possible to predict when or if browser manufacturers will make incompatible changes. The current GEMOS4 version will be adapted to any changes of this kind as quickly as possible, older GEMOS versions will however not be modified. If you intend to use an older version of GEMOS on a permanent basis, it may be necessary to avoid updating the browser.

4.1.1 Internet Explorer 11

Fully supported.

4.1.2 Internet Explorer 9,10

These versions are outdated but should still work without restrictions. If you encounter problems, please update to the current browser version, whenever possible, before reporting an error.

4.1.3 Internet Explorer 8 and earlier

These versions are **no longer supported**.

4.1.4 Firefox Version 38 or newer

This is supported with minor restrictions:

- Live video streams can only be displayed with the VLC plug-in installed and only as far as its range of functions permits (http and rtsp streaming in MPEG video formats). Camera types with proprietary data formats and access to video recording systems may not work.
- The current SVG implementation of Firefox is still very sluggish and can only be used for simple graphics.
- When using the "Firebug" plug-in, memory leaks occur that slow down the browser and bring it to a standstill following operation for an extended period. The plug-in must not be activated in production environments!
- Due to the rate at which the successive versions of Firefox are produced, it is not possible to comprehensively test each version in conjunction with GEMOS. We therefore recommend to use only Firefox versions with long-term support ("ESR"). This is currently (at 03/2016) version ESR38.x.

4.1.5 Firefox Versions 10-37

These versions are outdated but should still work. If you encounter problems, please update to the current browser version, whenever possible, before reporting an error.

4.1.6 Google Chrome

This browser is used by a number of users and appears to work perfectly (apart from the video display). ***However, as the browser is not tested regularly by ela soft, you use it at your own risk!***

4.1.7 Other browsers

Other browsers should in principle work, providing they are compatible with HTML5, CSS3 and Javascript. Use of these browsers is at your own risk.