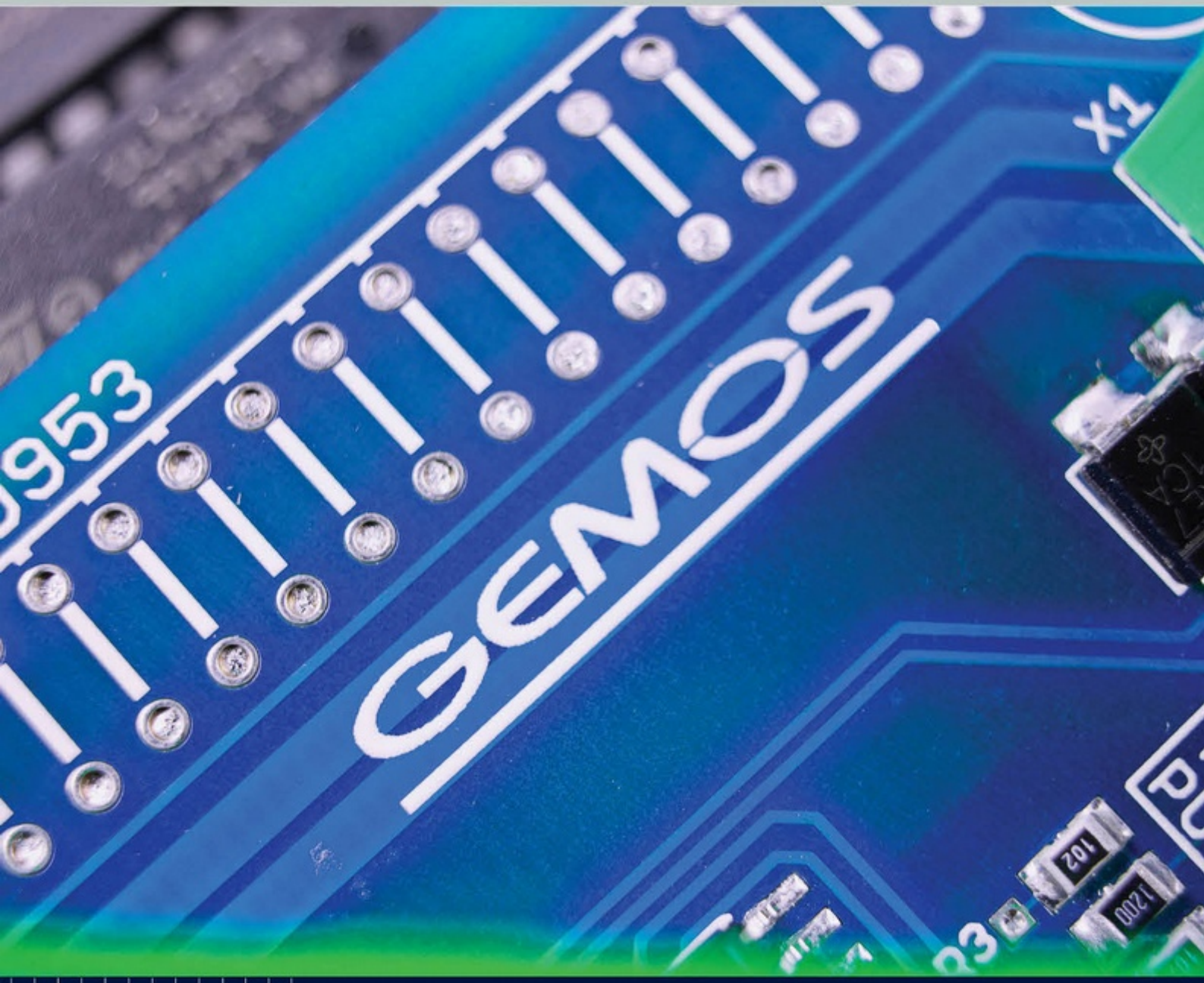
GRETSCH-UNITAS



Technical documentation

ela soft

Installation information GEMOS4

Securing technology for you

ela-soft GmbH
Breitenbachstraße 10
13509 Berlin
Germany
Tel.: +49 30 891003-0
Fax: +49 30 891003-22

© 2016 ela-soft GmbH (ela-soft)

This text, figures and device data has been prepared with the greatest of care. Nevertheless, no liability can be accepted for any remaining incorrect information and the consequences thereof.

All rights reserved. No part of this manual is allowed to be reproduced in any form by photocopying, microfilming or any other process without the written permission of ela-soft, neither may any part be translated or transferred into any language that can be utilized by machine, in particular data processing systems.

Names used in the text such as IBM, Microsoft, Windows, Novell etc. are registered trademarks and the property of their particular owners, and are not specifically indicated as such below.

Table of contents

1. System requirements ..... page 4

2. Automatic installation (setup programme) ..... page 5

3. Manual installation ..... page 6

3.1 Installing a new empty system ..... page 6
3.2 Installing a new system with demo data ..... page 6
3.3 Updating an existing GEMOS4 system ..... page 6
3.4 Upgrading an existing GEMOS3 system ..... page 6
3.4.1 Necessary rework processes regarding the master data during a GEMOS3 upgrade. page 6

4. Compatibility information ..... page 8

4.1 Web browser ..... page 8
4.1.1 Internet Explorer 11 and later ..... page 8
4.1.2 Internet Explorer 9, 10 ..... page 8
4.1.3 Internet Explorer 8 and earlier ..... page 8
4.1.4 Firefox version 38 and later ..... page 8
4.1.5 Firefox versions 10-37 ..... page 8
4.1.6 Google Chrome ..... page 8
4.1.7 Other browsers ..... page 9

1. System requirements

	GEMOS server	GEMOS operator panel	Interface computer
Hardware	· 2 GB RAM, 10 GB of free disk space. · A CPU with at least two cores is recommended.	· Sufficient performance for the operation of a modern web browser. · Sound card for the sounding of alarms. · Dual-screen system recommended.	The requirements for system performance and equipment depend on the interface. Please refer to the respective interface documentation.
Software	· Database server Firebird version 2.5 or later (32 or 64 bit depending on the respective operating system). · Reliably functioning name resolution (DNS) for all computers involved in the GEMOS system.		The system software requirements depend on the interface. Please refer to the respective interface documentation.
Additional software Windows	Windows Server 2008 or later.	· Windows 7 (Windows 8 is currently **not** approved!) · Internet Explorer version 10 or later	Windows Embedded Compact Note: Due to their high system requirements, desktop and server versions of Windows are not recommended here!
Additional software Linux	· Kernel V2.6 or later. · libc (from V2.5), libdl, libpthread, libstdc++, libm, libgcc, libjpeg62, libosmesa · Additionally for the long-term representation of measurement values: librrd, rrdtool · Additionally for the printing of maps: wkhtmltopdf, pdftops, CUPS · Additionally for sending e-mails: sendmail or equivalent (e.g. postfix). ***ATTENTION:*** Where a 64-bit kernel is used, the stated libraries as well as the Firebird client library (libfbclient) must be installed in a 32-bit version!	· any Linux version. · Browser Firefox version 24 or later	· Kernel V2.6 or later. · libc (from V2.5), libdl, libpthread, libstdc++, libm, libgcc ***ATTENTION:*** Where a 64-bit kernel is used, the stated libraries must be installed in a 32-bit version!

2. Automatic installation (setup programme)

Currently not available.

3. Manual installation

3.1 Installing a new empty system

1. Ensure that a sufficiently up-to-date Firebird version (2.5 or later) is installed.
2. Copy the directory structure supplied with the installation medium to the local hard disk.
3. Rename the subdirectories sample_config and sample_webroot "config" and "webroot”
4. Obtain a license file and store it in config.
5. Start the Pro02srv.
6. Call up the service page (http://localhost:12080/!pro02srv/).
7. Select “Module” and install all modules.
8. Select “User management” and grant the administrator the necessary user rights.
9. As a precaution, quit and restart again the pro02srv.

3.2 Installing a new system with demo data

Where demo data are available, the installation is executed as above with the following additional steps:

3a. Additionally, copy the directory "sample_data" to "dat".

3.3 Updating an existing GEMOS4 system

1. **Create a backup!**
2. Quit the old pro02srv.
3. Ensure that a sufficiently up-to-date Firebird version (2.5 or later) is installed.
4. Copy the directory structure provided on the installation medium over the installed GEMOS.
5. Start the new pro02srv.
6. Call up the service page (http://localhost/!pro02srv/). Then, select “Module” and install all modules.
7. As a precaution, quit and restart again the pro02srv.

3.4 Upgrading an existing GEMOS3 system

Principally, the installation is executed as described under “Updating an existing GEMOS4 system” with the following additional steps:

4a. Edit the file pro02srv.cfg in the config directory and ensure that the line "modules" includes the two modules "gmsui" and "stammdb".

4b. Delete all executables supplied in the subdirectory “bin” from the main directory. This applies in particular to “pro02srv.exe”.

7a. Conduct the rework processes as described in the chapter below.

3.4.1 Necessary rework processes regarding the master data during a GEMOS3 upgrade

Currently, the following rework processes have to be conducted manually.

1. Due to changes in the rights structure, all user group rights are lost during installation and need to be reassigned. Initially, the MASTER may still edit master data but may not open any operator panels or edit alarms.
2. All maps with buttons must be called up in the layout editor once and stored again in order to function correctly in the operating view.
3. Some scripts of dynamic layout elements must be adapted due to minor differences in the

script syntax between GEMOS3 and GEMOS4. This particularly applies to the implementation of the following functions:

- MpItem()
- MpCall()

4. For dynamic layout elements containing HTML text, GEMOS3 had also required the HTML to be syntactically correct and opened tags to be closed again. While incorrect HTML has previously been silently accepted to some extent, it will now lead to malfunctions in GEMOS4 due to the more stringent syntax check of HTML5. In particular, elements located behind any incorrect element may perhaps no longer be selectable in the layout editor.

4. Compatibility information

4.1 Web browser

Only the versions stated below are officially approved.

Versions later than those indicated should generally function. It is, however, not foreseeable if and when browser providers will introduce any changes that will render them incompatible. The current GEMOS4 version will be adapted to such changes as soon as possible, but this does not apply to earlier GEMOS versions. When intending to use an earlier GEMOS version on a permanent basis, omission of browser updates may be required.

4.1.1 Internet Explorer 11 and later

Fully supported.

4.1.2 Internet Explorer 9, 10

Though these versions are obsolete, they should still principally function without any restrictions. In case you observe any problems, please update to the current browser version first, if possible, before reporting a fault.

4.1.3 Internet Explorer 8 and earlier

Those versions are no longer supported.

4.1.4 Firefox version 38 and later

Supported with minor restrictions:

- Displaying live video streams is only possible if a VLC plug-in has been installed and then only according to its scope of functions (http and rtsp streaming in MPEG video formats). The functioning of camera types with proprietary data formats as well as the access to video recording systems may be impaired.
- Currently, the SVG implementation of Firefox is still very slow and only usable for simple graphics.
- The use of the “Firebug” plug-in causes memory leaks slowing the browser down to complete standstill after extended periods of operation. This plug-in shall not be enabled in productive environments!
- Due to the rapid succession of versions in Firefox, it is not possible to test each version thoroughly in combination with GEMOS. Since Firefox developers frequently incorporate experimental functions into the floating versions, it is recommended for productive environments to use only Firefox versions with long-term support (“ESR”). Currently (as of 3/2016), this means version ESR38.x.

4.1.5 Firefox versions 10-37

Although those versions are obsolete, they should still principally function. In case you observe any problems, please update to the current browser version first, if possible, before reporting a fault.

Operation with Firefox earlier than version 10 is not possible due to its insufficient HTML5 support.

4.1.6 Google Chrome

This browser is used by some users and seems to function faultlessly (apart from the fundamental problem with displaying videos, see Firefox). Currently, however, ela-soft does not conduct regular testing, therefore, application is at one’s own risk.

4.1.7 Other browsers

Other browsers should principally function provided they are compatible with HTML5, CSS3 and jQuery. They are used at one's own risk.