# GEMOS software

GEMOS advanced PSIM (Physical Security Information Management)


**Two GEMOS work stations each equipped with two monitors.**

Building management, security management, risk management or facility management are by far not all terms to describe the functions and services of GEMOS advanced PSIM (**P**hysical **S**ecurity **I**nformation **M**anagement).

The Building Management and Organisation System (**GE**bäude-**M**anagement- and **O**rganisations-**S**ystem) GEMOS is a set of products consisting software, hardware, accessories and services.

Being a software-based graphical management platform, GEMOS advanced PSIM supports cross-system interactions and logical linking of all types of technical facilities.

In doing so, the process of adapting the GEMOS advanced PSIM to the needs of the client begins with the analysis of the individual risks for the companies and institutions.

Safety is a management issue, but in daily operation, the instruments must be made available for the consequent implementation by responsible employees and therefore be simple, logical and intuitive to operate.

This ensures GEMOS's cross-system interactions, logical links and intuitive interface, especially when complex safety systems such as fire alarm systems, burglar alarm systems, video surveillance systems, escape door systems, access control systems and intercoms are controlled.

## Features

- With more than 750 proprietary interfaces and more than 1,000 installed systems, GEMOS is the market-leading manufacturer-neutral PSIM-system in Germany.
- GEMOS is manufacturer-neutral means that systems from different manufacturers have been integrated and will be integrated.
- The web-based interface allows to create requirement-related and individual operating concepts.
- The graphical user interface can be adapted to customer requirements. A wide range of graphical elements and tools can be used for this purpose.
- By using various redundancy concepts (network, server, database, etc.) maximum availability and functional reliability is achieved.
- Special industry solutions are available for multifunctional sports arenas, penal facilities, logistics companies and computer centres.
- Building floor plans with data points are inserted directly as CAD graphics. Not every desired object (data point, sensor, actuator, floorplan, etc.) from the architects and work drawings has to be taken over individually. file conversion. Plans usually do not need to be converted.
- Highly scalable due to a flexible licensing model, which is divided into three edition: light, standard and professional.
- Modular system architecture of software, hardware and licenses.


**GEMOS work station equipped with two monitors.**

**Selection of available function modules**
(in some cases, a license must be purchased)

- **Symbol library:** the module contains extensive symbol libraries for the display of data points via specific symbols and colors, which depend on the type of data point and the displayed states.
- **Persons contacts management:** the module collects and manages addresses and contact data. This data can be used in GEMOS advanced PSIM system-wide. The contact data can be used directly as targets of actions in action plans. The module can manage the data of the operators of the alarm processing, the users of the access control as well as the persons contacts for processing alarms and faults. The module can control phones.
- **Visitor information:** in the outdoors or entrance areas of buildings and properties, visitors are provided with information via entrances to the buildings. Building data and how to reach persons are presented on information columns. Sub-systems from communication and video technologies are supported.
- **Guard patrol:** the GEMOS software module guard patrol can be used to plan, carried out and managed guard patrol rounds. The routes can be watched and their compliance with the can be monitored. Any detectors (e.g. card reader of the access control system) in the GEMOS can be used as control points for the guard patrol rounds. Incoming messages from the devices and data points will be evaluated and an alarm is triggered if the specified times have been exceeded or fallen short of or guardian diviates from the planned route.
- **Text to Speech:** software module for information output of message texts and speech message via loudspeaker. Speech output to a suitable telephone is also possible as an option. Any text can be generated dynamically as speech output via the software, the storing and reuse of the speech outputs generated as sound files is also possible without problem. No pre-defined speech file has to be generated and played-back.
- **Fire brigade routing cards:** the module can import and manage fire brigade routing cards (e.g. created with AutoCAD), generates pdf-files which will print directly for the fire brigade in case of an alarm in GEMOS. Intelligent combinations of individual frames allow a highly efficient collection, management and maintenance of the routing cards.
- **SMS Secure:** the GEMOS SMS function module SMS Secure permits the automatic safe transfer of SMS messages from GEMOS to a mobile telephone. The


software allows the received SMS to be checked as (per setting option), the person receiving the received SMS must acknowledge this (simple transfer of an empty response). If no confirmation of reception occurs or it is not carried out in the preset time, the SMS transfer is repeated or the message is sent to an alternative recipient. It is still possible to switch pre-defined outputs of the GEMOS Clients per SMS from a (registered) mobile telephone. For safety reasons, a ticket is generated for this purpose by GEMOS that has a limited time that is then used for the switching instructions.

- **Server-redundancy HA-Agent:** GEMOS can operate redundant to achieve the highest possible availability and functional reliability. When using the GEMOS HA-Agent, several GEMOS systems on different servers are connected with each other in a network. In online mode, the servers exchange all data, messages and current working statuses over the network. While the data is being transmitted, the data integrity is checked at any time so because the main server submits the current working statuses to the redundancy server. It is also technically possible to create a GEMOS system with several redundancy servers. The redundancy servers also receive the messages and data from the subsystems so that it can be recognized whether the main server is working correctly. In locally networked GEMOS systems the connected facilities and workstations can be connected to different servers, so that a local instance (island operation) still works when the main server fails or a critical connection is interrupted. Multi-stage redundancy concepts can also be implemented with this configuration.
- **Switching and control programs** using macros in clear text programming (IF...THEN rule)
- **Graphic user interface** with layout editor for integrating any graphic formats via the Windows clipboard
- **Calendar control**
- **Video manager** with integrated video control for routing matrixes (activation is only carried out in combination with a video interface)
- **GEMOS SIP communication module**: integration of various telecommunication devices based on SIP protocol via asterisk communication node.
- **Video client**: implementation of various VMS functionalities via GEMOS advanced PSIM performing as separate work station.
- **GEMOS drone**: advanced module providing autonomous security drone operating with direct interactions to other security systems like FAS, ACS, VMS, PPT, etc.
- **GEMOS system analyzer (GSA)**: real time reports with all relevant parameters including subsystem analysis.
- more modules available on request.

## Editions

| GEMOS edition | GEMOS smart | GEMOS light | GEMOS standard | GEMOS professional |
|---|---|---|---|---|
| Multi-user capability included | no | yes | yes | yes |
| Number of simultaneous active workstations<br>- included<br>- feature upgrade available | <br>1<br>1 | <br>2<br>2 | <br>2<br>on inquiry | <br>2<br>on inquiry |
| Number of interfaces<br>- included<br>- feature upgrade available | <br>0<br>1 | <br>1<br>yes, up to 2 | <br>0<br>yes, up to 10 | <br>0<br>unlimited* |
| Number of data points<br>- included<br>- feature upgrade available | <br>0<br>yes, up to 900 | <br>1,000<br>yes, up to 2,000 | <br>2,000<br>yes, up to 10,000 | <br>2,000<br>unlimited* |
| Number of action plans<br>- included<br>- feature upgrade available | <br>20<br>90 | <br>100<br>1,000 | <br>100<br>2,000 | <br>100<br>unlimited* |
| Number of layouts<br>- included<br>- feature upgrade available | <br>20<br>90 | <br>100<br>1,000 | <br>100<br>2,000 | <br>100<br>unlimited* |
| Multi-monitor capability included | yes | yes | yes | yes |
| Interface drivers for connecting ela-soft products (e.g. I/O, GEMOS access®) and GU/BKS-poducts (e.g. BKS.Net, FT-NT) is included and free of charge. | yes** | yes** | yes** | yes** |
| Server redundancy available (not incl.) | no | no | option | option |

* The hardware and software must be provided according to the capacity required.
** Free licenses that are used do not reduce the maximum number of interfaces of a licensed product.

## Specifications and features

| Product | GEMOS |
|---|---|
| Supported operating systems | Windows 7, Windows 10, Windows Server 2008/RS2, Windows Server 2012, Windows Server 2016, Linux |
| Technische requirements | min. 2 GB RAM, min. 100 GB hard disk memory, Ethernet network card 100/1000 MBit |
| Target audience | Owner, installer |
| Definition for use | GEMOS is a graphical multimedia security management system for connecting all types of technical systems, which are equipped with suitable interfaces, for small to large buildings as well as networked building and plant complexes. |
| Part numbers | GEMOS light: 11009, GEMOS standard: 11011, GEMOS professional: 11012 |