

Detecting and addressing danger reliably

From technical integration to consistent operation

The more complex the requirements concerning building technology are, the higher the number of different individual systems applied. This includes fire control panels, intrusion detection systems, access control systems, biometric systems, video solutions, alarming systems and communication systems. Automation technology for buildings and production may also be added. The GMA-Manager integrates such systems in one overall solution in order to be able to monitor all relevant functions together and control them consistently. In this, true integration means actual harmonization and combination of different detection data to high quality information with which decisions can be made. The different disciplines are operated in the same way and optimized staff assignment is sufficient to monitor larger sites.

A complete overview right from the beginning

The safety concept works only when the operator in the control center becomes able to control the flood of information from the integrated systems, to qualify and assess it in order to act correctly in danger situations.

The user interface of the GMA-Manager quickly and clearly presents all relevant information and functions to the user. The user can concentrate on the danger situation and the trouble-free course of the triggered countermeasures.

From a single workstation to location-relevant solution

Different event notifications come together as texts and images at the user's workstation. Even a basic version of the GMA-Manager offers an efficient introduction to a reliable danger management system which can be scaled without restrictions and is therefore open for a company's future changes. A complete one-stop-shop system which has been covering the entire product range from detector to BOS* management system for many years and will continue to do so in the future.

More success – with a reliable technology partner by your side

A comprehensive safety concept begins with intense consultation by competent experts – and goes beyond commissioning of the tailor-made danger management system. Therefore, Siemens offers comprehensive service in every phase of the project. Today, you can plan realistically and be sure that Siemens will continue to be your reliable partner in the future.

* BOS = authorities and organizations with safety tasks

Highlights

- Open and adaptable integration of safety and security systems
- Intuitive operation in every situation
- Fast danger detection thanks to efficient, structured information processing
- Initiating and coordinating appropriate countermeasures



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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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Answers for infrastructure.

Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly

growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.

"We are the preferred partner for energy-efficient, safe and secure buildings and infrastructure."

www.siemens.com/gma-manager

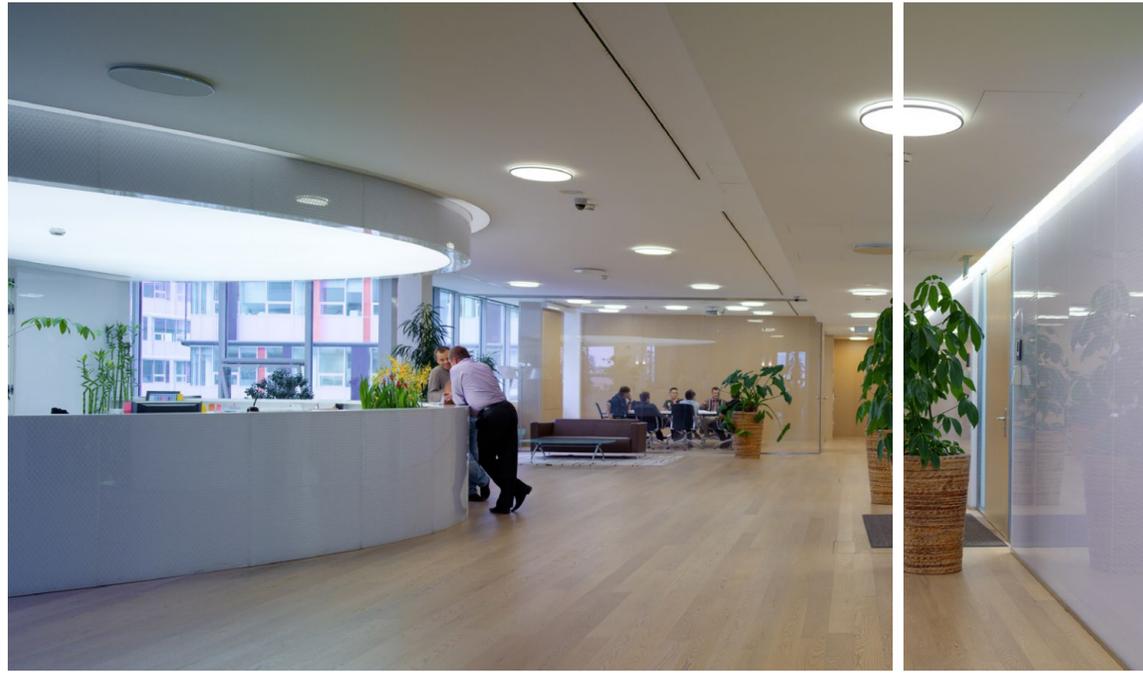
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Mastering risks – with the danger management system GMA-Manager

Confidently keep the overview to have danger situations and operations under control at all times

Answers for infrastructure and cities.



Protecting business continuity and investment

In every company there are risks which can be a danger to people, assets and processes. All companies are different, and so are the risks which must be prevented or minimized to protect human life and maintain and increase business and supply continuity, a positive company image and competitiveness.

In order to detect, assess and successfully address dangers such as fire or intrusion in time, different individual systems are often used, in most cases each with its own infrastructure, separate notification systems and particular operation. The GMA-Manager combines numerous systems into one overall concept and consistently covers the tasks of danger management with one system. Visualized uniformly and with innovative operating concepts, the GMA-Manager economically and safely reduces or prevents the specific risks in your company.



Keeping a complete overview at all times

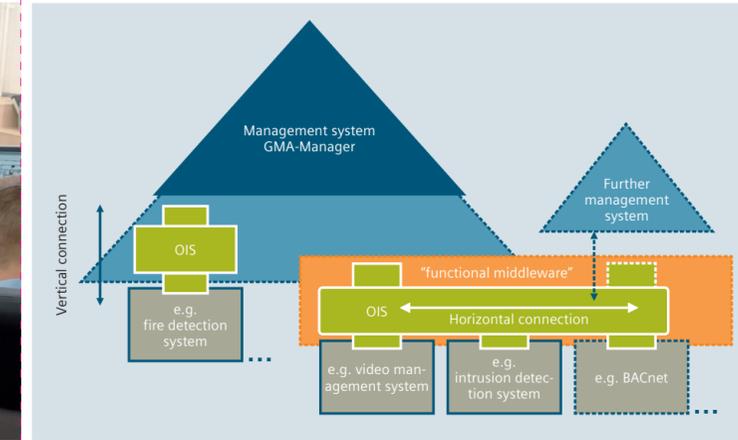
The product family GMA-Manager has been reliably and successfully supporting operators of danger alarm systems for more than 30 years. Consequently enhanced, the platform uniquely closes former gaps between detection systems, security technology and command and control systems.

Integrated danger management
The open and adaptable architecture of the GMA-Manager allows for functionally combining different safety and security systems such as fire detection systems and video surveillance on a single common platform. All subsystems can be operated uniformly and consistently via just one platform and user interface which reduces training efforts to a minimum. The integration of video images for incident verification, in addition to graphic visualization, grants the operator a fast, appropriate and secure response.

Intuitive user interface for a clear overview of the situation at all times
If an incident is detected, the GMA-Manager shows all the information from the incident and relevant location in a scalable overview. Access to the location or building as well as data regarding room and position of the detectors based on geo-referenced building and detector data are provided graphically to help with the decision. The information which is important at that time is presented to the operator in an overview at a glance. Detailed building and floor plans of the

entire object also provide additional information. Beyond these graphical depictions, the operator of the GMA-Manager can use additional orientation tools via situation-synchronous presentation (Tree Controls). These make technical orientation throughout the building structure via the location tree. The different overview lists, which can be filtered (message list, operation list, system list) are another operator tool to concentrate on the relevant information and to always keep the overview of the entire situation. All this helps the operator to reach a rapid and secure decision. It accelerates the ability to respond and reduces risk or damage.

Efficient, structured event processing
The GMA-Manager presents incoming messages in the message list, prestructured, prioritized, filtered and grouped according to events. Compared with conventional presentations, the overview of message lists which are often very long, is improved significantly. This overview and the corresponding transparency of



Open Interface Services (OIS) allow for a simple, logical connection and high performance data exchange between different detection systems and the GMA-Manager. In addition to the direct vertical connection of, for example, a fire detection system to the GMA-Manager, OIS can also be used for a functional connection between the different detection systems which are employed (horizontal connection). In case of a horizontal connection, OIS acts as a "functional middleware" which allows intelligent interaction between the subsystems with and without the "knowledge" of the GMA-Manager or another management system. Alarm systems and other subsystems connected in this way can interact with various other management systems via OIS.

the situation quickly provide the operator with crucial clarity at all times. Furthermore, the operating system makes it possible that all incoming messages (alarms, faults etc.) are summarized in "operations" or processing procedures. The logical as well as automatic allocation, amongst others according to the position in the building (geo-referenced), and the manual summary of messages allow the operator additional concentration and focus without ever neglecting important process steps.

The overview of the entire situation of all connected systems as well as the situation in the individual processing procedures are guaranteed at all times. A clear situational task-sharing between several operators is possible in a safe way.

Safety around the clock
The modular and fault-tolerant software architecture enables the use of failsafe operating environments in hardware and software. In the event of a disaster, a backup control center can take over secure operation. Backup concepts such as operating elements at system level can also continue the operation or take it over automatically. Operation of systems and buildings with a GMA-Manager is therefore guaranteed continuously.

Adaptable to every IT environment used with low maintenance cost
The GMA-Manager offers tailor-made, customer-specific, preinstalled and tested server systems. In addition, the GMA-Manager allows the full functionality in a customer's virtual IT environments. The Zero Administration Client concept, based on state-of-the-art web technology, minimizes costs during installation as well as during operation. The GMA-Manager is a future-proof investment. Upgrade and expansion options sustain functionality and compatibility, independent of the version and over the entire life-cycle of a GMA-Manager.

Highlights

- Uniform, consistent operation and control of different subsystems via a single platform
- Fast graphical help with decisions, thanks to geo-referenced building and detector data
- Highest reliability and availability
- Innovative technology and IT friendly software architecture