

Supporting traffic safety

In road-, motorway-, as well as tunnel traffic the IP-based emergency call system GXmS provides the road operator with maximum flexibility in the organization of the emergency call control room and in choosing the system components.

VoIP terminal GXmS MET

- Durable robust industry quality
- Space-saving and modular construction enables installation in any emergency call case, even in small niches
- Fast and easy installation through top hat rail system
- Easy integration into existing infrastructure
- Easy maintenance of terminals and modules by exchange of physical components (modularity)
- Peripheral third party devices like cameras, loudspeakers, sensors, and traffic information systems can be connected to MET through an input/output interface
- Interfaces to existing analogue and digital systems
- Connections possible through GSM and WLAN networks, glass fiber, copper leads, and radio
- Power supply on an individual basis

Central GXmS Emergency Console (GXmS-EC)

- Scalable and extendable system
- Application on commercial computers as well as on high-end computer systems (availability)
- Various redundancy stages possible
- Simple installation, systematic configuration, and easy handling facilitate first steps and training

- Higher security through Linux technology; Protection against breakdown and external attacks
- Open for future technologies
- Homogeneous, ergonomically beneficial and demanding user interface
- Links to traffic-influencing devices are possible (traffic-, safety information at sudden, predefined, or situation-related call for action)
- Global storage system: centralized and decentralized databases on several locations
- Statistic analysis and detailed recording of data via user-specific templates
- Single and multi site functionality: Terminals of the emergency call control room hand over and/or merge user hierarchy and user rights via user profile (multi user login)
- Saving data by integrated as well as conventional methods and media
- Multilingual

Support

- Technical conception, realization, adaptation, and support by a professional team
- 24-hour-service, shortest possible reaction time, and express error correction
- Remote support, regular software update

Cooperate Design

- The customers' corporate design can be used by the software



Global X - emergency System™ The voice over IP security solution

Communication and Traffic in Changing Times

Communication working for road safety has always played a major part. In 1910 traffic was already regulated through Earnest Sirtine's electrical traffic signal, in March 1924 the first emergency telephone was established in Berlin and in 1937 the first standardized emergency number was established in Great Britain.

In the 21st century the volume of traffic is high as never before. Not only cars but also pedestrians must be transported to their goal in train stations, underground stations or in huge office buildings by applying information and communication technologies efficiently, save, and customer friendly.

A great amount of different systems, technologies and components of different producers challenge technology providers and developers because these systems are very often incompatible. Frequently, their communication is restricted, so that new solutions only work if the infrastructure is laid out in a two-tracked or even multi-tracked way.

With **Global X-emergency System™** IT-technology has found an integrated solution and thus sets a standard by which various traffic safety and infrastructure components communicate through a common platform in an economical and cost saving way. By this, **GXmS** provides a valuable contribution for general security.



Modularity



Connectivity



Communication



Extended tasks



The System

Global X - mergency System™ (GXmS) is a flexible and modular platform for emergency call, information, and safety systems with control and coverage tasks. The integrated system of GXmS provides a multifunctional, globally applicable system technology for various task areas. GXmS is based on the Internet Protocol and is able to transmit data and language through existing interfaces into analogue and digital worlds.

Manifold Application

GXmS can be applied and adapted to the respective demands wherever language connection (full-duplex), acoustic irradiation, and exchange of information is at stake.

Compatibility

Through the units **GXmS AETI** (analogue/digital) and **GXmS MET** (digital) different I/Os can be integrated, controlled, and applied.

Analogue: Common emergency call facilities and functional elements, connected to copper trends, are lead up to the GXmS control room through the GXmS VoIP module/interface (Gateway Analogue VoIP). Data of connected monitoring- information-and security-relevant facilities can also be lead to, recorded, traced, processed and, if necessary, transferred to higher systems (processor control system).

Digital: If there is a direct link between the GXmS control room and the peripheral GXmS component MET (Multifunctional Emergency Terminal), connections to devices that are linked to MET are established through a MET I/O interface.

Terminals

The hardware-infrastructure around the terminal consists of a local server and the according interfaces. The operation of the infrastructure, adapted to the respective requirement, is executed by means of the GXmS Emergency Console (GXmS-EC) software package.

Software

Apart from versatile features, the GXmS-EC software package distinguishes itself by full scalability and a lucid user interface, allowing to display current processes in a transparent way and to grasp unexpected events, so as to immediately react and set appropriate actions.

All events, actions, and data are taken down, recorded, and saved in detail and are available for later evaluation. Additionally, GXmS-EC contains elements of a geographical information system. Apart from data related to position any operation-relevant data can be visualized.

The GXmS-EC starter kit is based on Linux and is, depending on the system characteristics, especially adapted and adjusted to the task-connected functions.

Global Networking

Through a flexible architecture and intelligent authorization profiles GXmS can be used flexibly, centralized, or decentralized. Apart from connections between two points (e.g. emergency telephones to a control room) also complex hierarchies are possible.

Geographically apart yet connected, multiple control rooms or even control rooms of overriding importance are possible. On demand, functions of other control rooms can be taken care of. This is enabled by flexible authorization profiles and advanced system architecture.

In its core GXmS consists of basic hardware and software components and is offered, depending on the demands of the according area of application, tailor-made and function oriented.

