

[ PRODUCT SHEET ]

Product: NIS ROAD

Segment: Traffic



## NIS ROAD SAFETY WITHOUT COMPROMISE.

Achieving the maximum of safety with a minimum of personal resources. Robust safety concepts are essential, especially when it comes to the construction of new motorways and carriageways or renovations and improvements to existing networks. With NIS Road, safety means integrated emergency call, monitoring and safety systems for motorways, dual carriageways, tunnels and galleries. Ascom designs, plans and installs comprehensive and co-ordinated components, and optimises existing safety facilities in the case of upgrades and retrofits.

NIS Road connects workstations, emergency call stations and subscribers in public networks with one another. **Third-party systems** such as video systems, fire extinguishers, emergency exits, etc., are all easily activated and monitored from the operations centres. NIS Road implements voice and data services on a **single communication network**, and does so cost-effectively since the acquisition, operation and maintenance are limited to a single network. NIS Road is networked using the following technologies: ISDN S0, ISDN UK0, GSM (triband), GSM-R, analogue a/b and VoIP (copper or fibre optic). The equipment can be powered remotely and several call stations connected to one line. This means it is possible to install call stations that are up to 8 km away from a mains connection.

**ComNode** is the core of NIS Road. It can be connected via an IP network and adapts to both small systems and large-scale installations. NIS Road also supports Ascom system operating terminals as well as commercially available phones. With outside call stations, motorists always have a contact possibility. (See diagram page 3.)

### **Alarms when it counts**

NIS Road is configured using digital inputs and triggers alarms whenever a change of state occurs. With the telecontrol module both the visualisation and operation can be effected using the graphical user interface of the NIS Road operating terminal or signalled to a control system. The control systems are connected via an OPC-DA interface; customer-specific interfaces can also be integrated without difficulty.

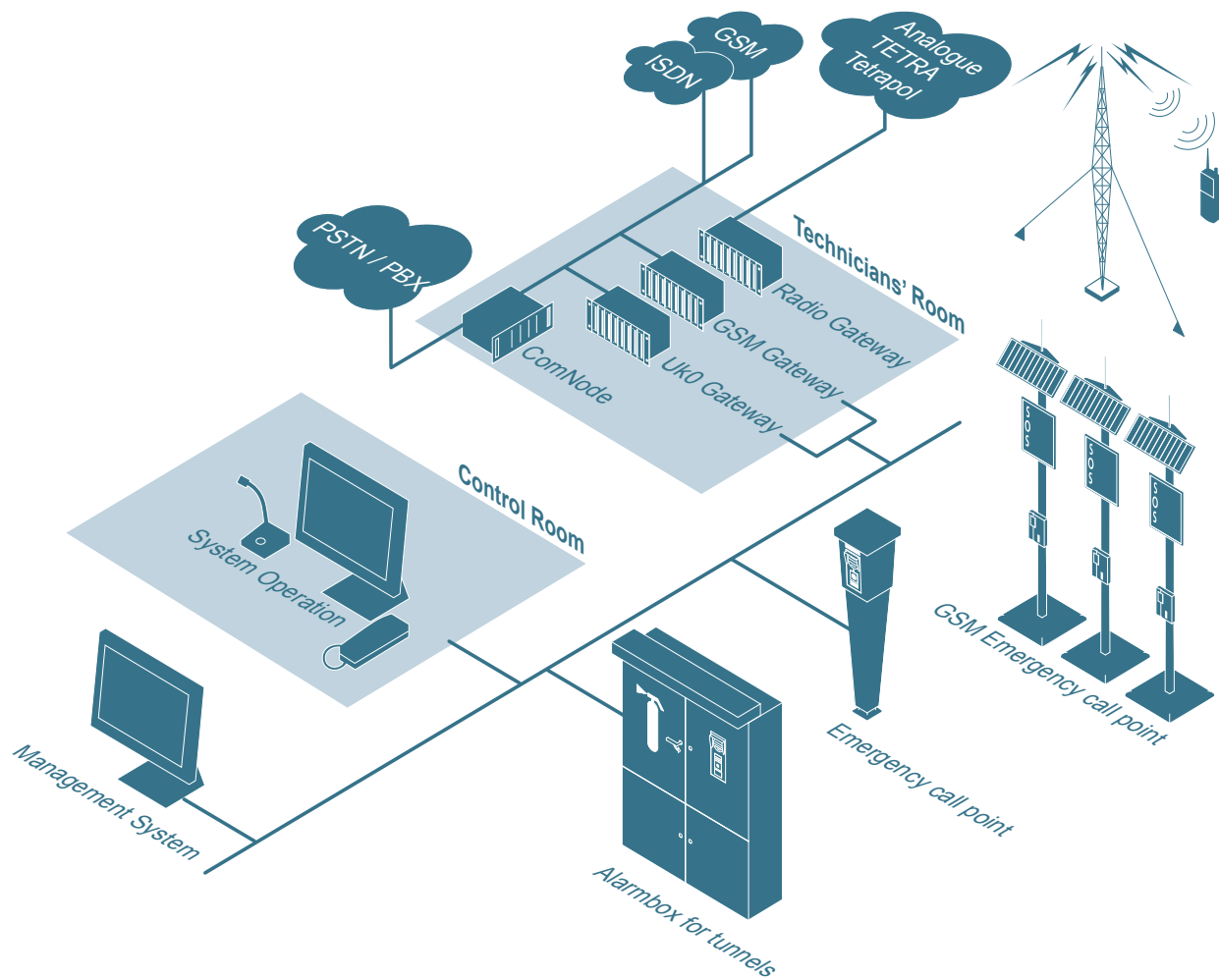
### **Radio dispatching**

The radio dispatching module (TETRA, Tetrapol) expands NIS Road's capability to a fully fledged radio dispatcher workstation. Connected phones or radio sets are able to communicate with one another. Media-specific properties such as push-to-talk are also supported, as is functional addressing.

### **Well managed**

NIS Road is handled by a central management system. Commissioning and maintenance are made all the more efficient by the remote configuration and software distribution. For road works, call stations can be remote-deactivated where necessary. The constant monitoring of the ComNodes, transmission paths and terminals means that quick intervention is possible if and when a fault occurs. Integrated test modules provide a complete functional check of the entire audio path from the operating terminal to the call stations, including their loudspeaker and microphone. As it generates automatic messages to a control system or maintenance centre, NIS Road can be seamlessly integrated into a higher-order management system.

The basic element of the NIS Road solution



**NIS is modular in structure. The various functional components can be compiled as required and adapted precisely to suit customer requirements.**

#### NIS FUNCTIONS

Graphical user interface

Personal profiles

Local operation, remote operation, parallel operation

Functional addressing, roles

Authentication and location autonomy

Online busy indicator

Priority calls (emergency / information calls)

Logical destination dialling

Queue

Meet Me

Phone Book

Analogue radio (PTT)

Digital radio integration (TETRA, Tetrapol)

Telecontrol (monitoring and controlling data points)

End-to-end system monitoring (Fekon)

Control system / third-party system link-up via OPC

CCTV connection / control

Call recording

Call playback (last 100 calls per user)

SMS – Short Message Service

Voice Mail

Integration and gateway function, private or public networks (primary or basic rate accesses), ISDN or analogue telephony, VoIP (SIP based)

System can be implemented with a redundant configuration

Management / maintenance components