



Available even in disaster situations

Our solution is independent, simple and reliable.
It guarantees self-reliant alerting and communication.

You can communicate even in a disaster situation

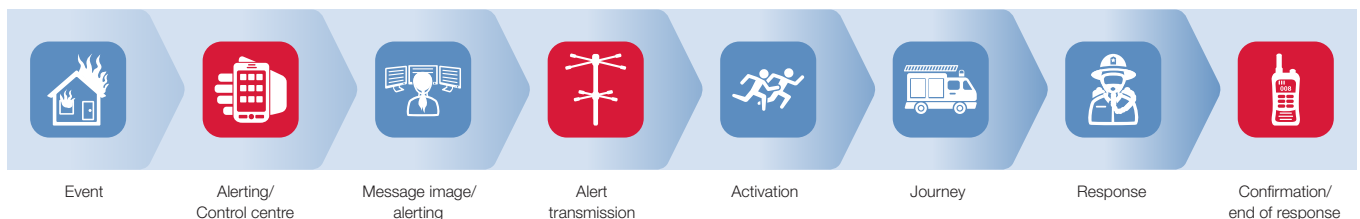
Our solution is independent, simple and reliable. It guarantees self-reliant alerting and communication with your relief forces, even when the public networks and infrastructures are unavailable.

A rock fall that cuts off a village and takes out its power poles, a storm that uncovers roofs and damages power lines: The exact timing or severity of a natural disaster cannot be predicted in advance. Disturbances due to other causes can also severely endanger the lifestyles we are used to. If the power stays out, we also gradually lose our traffic lights, lighting systems, transport systems, heating systems, cooling systems, fuel pumps and water supplies. We cannot get to work, our healthcare system is pushed to its limits and our food supplies fall apart.

Even the Internet, telephone connections and mobile communications infrastructure stop being available.

Repairing the damages becomes the main priority. But how can relief forces and their colleagues, who are desperately needed, be informed or coordinated if the public networks have stopped working? And how can an accident victim call for help – from the control centre for example – when the public infrastructures have broken down?

The most complex challenge in the alerting process has to do with transmission networks:



Our solution provides self-reliant alerting and communication

In the case of a disaster, it is important that a person who needs help can request help and that information is passed on from doctors to the relevant control centre. However, crisis unit members also need to be able to communicate with each other and their relief forces. Reachability and communication are crucial, and our self-reliant alerting and communication system guarantees both.

How the control centre reaches the relief forces

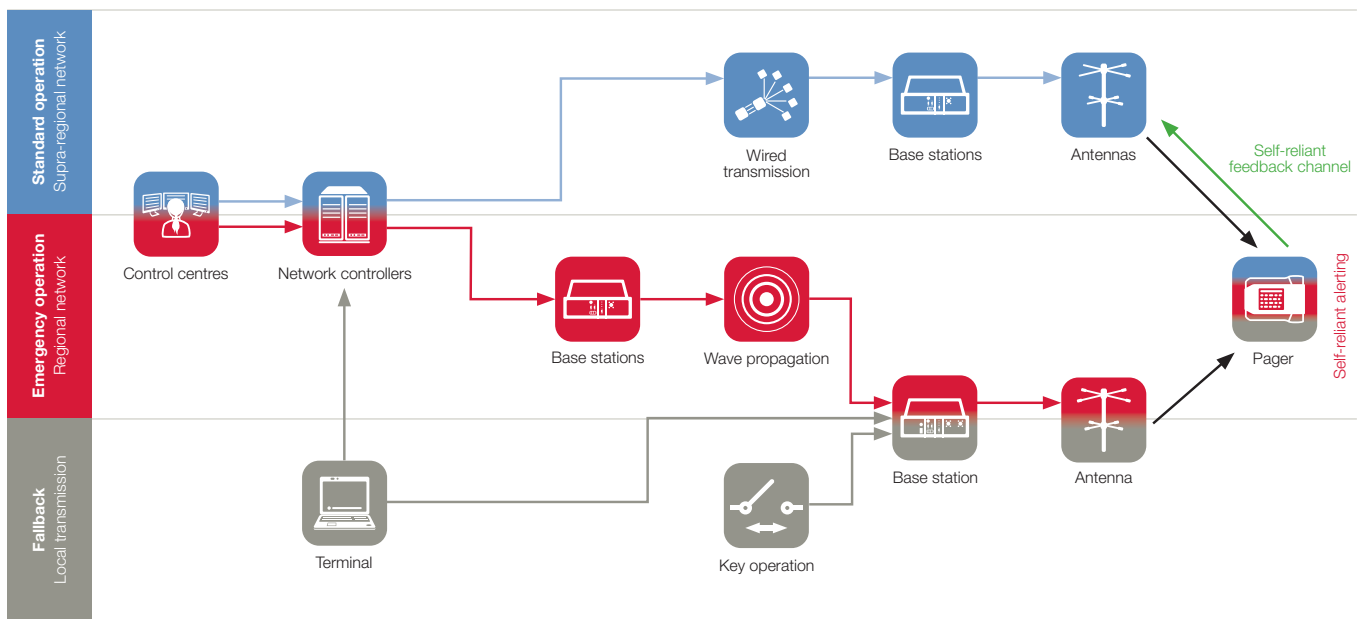
In the case of a power failure, the control centre is able to communicate with its relief forces using the self-reliant alerting solution. This includes a network controller and a certain number of base stations determined by the size of the alert area. These base stations are connected to the dispatch system which is used by the control centre and is equipped with an emergency power supply. Network controllers and base stations are also supplied with emergency power in this case. The dispatcher in the control centre no longer sends the alert message to the e.g. Swiss national TELEPAGE® network, but rather to the self-reliant paging system, which in turn forwards the message to the pagers of the relief forces.

How the local headquarters reach the control centre

The firefighters on the scene need more units. The person in charge sends a message to the control centre in order to request the extra units required. He or she enters the message into a terminal that has been installed for exactly this type of situation. The message is sent from the terminal to one of the base stations and from there to the control centre via the network. This in turn alerts the suitable units, by their pagers, via the self-reliant paging network. This intelligent addition of decentralised entry points to the radio network enables multipath alerting.

How the relief forces reach the control centre

The relief force can confirm the receipt of the message received by the pager by selecting either 'I'm on my way' or 'I can't make it'. Predefined messages can also be sent. The relief force can request help with the emergency button at any time. The messages are sent to the surrounding base stations by pagers, terminals or sensors. From there on, the message arrives at the control centre.



Exceptionally independent,
simple and reliable³

Independent³

- The self-reliant Swissphone alerting and communication system is automatically supplied with emergency power.
- Feeder lines between the base stations are unnecessary thanks to the radio technology.
- The system is independent from third-party infrastructures such as LTE for example. No external components are necessary.

Simple³

- The radio network has an automatic monitoring system with patented network status confirmation.
- The alert message can be sent to base stations by a terminal or by pressing a button.
- Maintenance of the network is easy.

Reliable³

- The data communication takes place between monitored base stations. If one station fails, the communication takes place via an alternative route. A cleverly designed overload mode rules out network breakdowns.
- The robust digital radio network guarantees reliable alerting. Cutting-edge GPS synchronisation ensures that no radio collisions occur.
- The data communication in the network is encrypted.

Three types of technical functionalities³

Multiple alternatives³

- Multimaster: fast alerting thanks to the use of parallel master stations
- Multi-baud: flexible transmission speed to pagers
- Multi-frequency: various frequencies are available without having to switch personal pagers



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