

## Hybrid alerting system: quick, transparent, and digital

Reference report on the Mettmann District, Germany

In the Mettmann district, the Mettmann District Control Center is responsible for dispatching firefighting and rescue services in ten cities. The district has now changed its alerting infrastructure over to digital technology. Kay-Jörg

«We now have one of the most advanced digital alerting networks, and it will remain technically up-to-date for many years



A digital system with hybrid alerting

few seconds.

Swissphone's Express-Alarm, a patented multicast tech-

nique for digital alerting, helps deliver further time savings

by shortening the time between alarm transmission and

signaling on message receivers. It pairs multiple addres-

ses for groups of emergency responders with an alerting text.

This reduces the amount of data

considerably, making it possible in practice to send alerts within a

Kawi, the Fire Chief and Digital Radio Officer for the Mettmann district, describes the infrastructure as follows: «The Mettmann District Control Center is connected to 27 wireless base stations that cover the entire district. We deploy approximately 2,000 radio pagers in the field. Multimaster technology is used to send alerts. We are able to control six master stations, which in turn control the remaining slave stations, at the same time. In this way messages are broadcast simultaneously throughout the district. Two transmissions, instead of three or four as in the past, are enough to cover the entire district. This saves time - and lives as well in some cases.»

The digital system offers still more advantages. To name an example, all emergency responders can be notified via hybrid alerts. This is how it works: If emergency responders cannot be reached via the district's POCSAG network, the system automatically transmits the alert via