



Mobitex™

The secure network

## Wireless Solutions for the Police



### **In safe hands with Mobitex**

*Mobitex is an advanced wireless data-only network, with very high reliability and security, designed for transmission of short, bursty data. Originally a product manufactured and sold by Ericsson AB, Mobitex is now controlled by an independent organization, Mobitex Technology AB based in Gothenburg, Sweden. Mobitex Technology develops, sells and supports the technology worldwide.*

Thanks to many years of experience in wireless communication, Mobitex Technology AB knows what network qualities wireless solutions require and the many years in business have allowed us to transfer these requirements into efficient, reliable and robust network features. Mobitex has a number of key advantages. It provides the highest level of reliability, fast data delivery, always-on and true push functionality and extensive seamless coverage. Mobitex' scalable nature makes it an excellent choice for both large, nationwide networks and small, privately owned networks covering a local region or a city. Mobitex brings simplicity to the complex equation of delivering better service without increasing cost by making innovative use of proven technology. Mobitex Technology offers long-term system support (10 years or more) to safeguard your operation and investment for years to come.

Mobitex is today widely deployed, providing industry leading performance in terms of connectivity and cost-efficiency to public safety organizations and other professional users. There are today over 30 private and public networks operational worldwide. More than 100 government and emergency service organizations are using Mobitex in their daily operations, as do 400 of the Fortune 1000 companies.

### **Designed to work under all circumstances**

Mobitex is already a proven performer for many organizations where rapid response and secure communications are essential. Authorities usually require a network that is available for operative personnel at all times with guaranteed response times of just a few seconds.

With its high flexibility and capacity, the Mobitex network is able to handle a large volume of data efficiently. Also important is that Mobitex is extremely robust. It uses a combination of proven and efficient methods to achieve guaranteed delivery of all types of data. Positive acknowledgment, sophisticated error-correction techniques and other system functions guarantee error-free transmission. To further increase reliability, redundancy can be introduced at various points in the network. Mobitex can guarantee 100% packet accountability.

There is a heightened awareness today of the importance of ensuring communications at all times even during crisis. Mobitex networks have a long track record of undisruptive service in many critical situations like the terror attacks of September 11th, earthquakes, floods, bomb threats and hurricanes.



**Hurricane Katrina 2005**

### **US: The Hurricane Katrina (2005)**

*Even during the height of the storm, the Mobitex network remained operational with approximately 75% of normal network coverage in the Gulf area due to network site overlap and redundancy. The network was able to be utilized extensively by relief, emergency and media organizations communicating critical information within the immediate New Orleans area. As of the end of the day on September 8, 2005,*

*Velocita Wireless (the US Mobitex network operator) reported more than 95% of network coverage in the Gulf area had been restored and was operational with only four sites down in the immediate coastal impact area from New Orleans to Mobile.*

Mobitex specific features
Guaranteed delivery
Absolute reliable
Always on-line
Instantly accessible
Seamless roaming & handover
Temporary coverage established quickly
Autonomous operation of base stations

Mobitex, with its extremely high level of security, has been certified for use by police and rescue services in many countries. More than 50% of all police forces in UK are using Mobitex. This is quite remarkable considering that U.K. is one of the European nations most dedicated to the TETRA (TERrestrial Trunked RAdio, EU standard for the public safety segment) standard. And noteworthy is also that the number of police forces using Mobitex is increasing.

#### **Data improves efficiency**

A challenge for many organizations today is handling a steadily increasing number of calls with diminishing resources. Mobile data makes information available to field personnel while increasing coordination and efficiency in the organization. In many situations, data communication is more efficient than voice. Directing a vehicle to a crime scene is simpler and faster when the information is provided as data. Registry enquiries can be performed by operative staff directly from the field and messages can be read when time permits. For those who need to use devices throughout the day to receive instant updates and notifications, the network is

always on and instantly accessible. There are no time-consuming call setup-process or data activation procedures required, never any busy signals, response times are short (typically 3-9 sec.) and access is instantaneous. Because packet switching does not require a dedicated connection, users can remain on-line at all times, sending and receiving data as required by the application.

Mobitex supports a number of important functions for efficient communication e.g. group communication and push functionality to quickly reach a selected group of users. It also provides positioning data (GPS) from vehicles on the move and performs seamless handovers even at high speed.

Secure communication is achieved by authentication. Stolen terminals can be put out of operation quickly and easily. Closed user groups further strengthen the security. Encryption and other security standards are built into the applications.



**Queensland Ambulance**

*By the introducing Mobitex wireless data the Queensland Ambulance Service in Australia has improved the response times every year over the past three years, thus dramatically increasing its ability to provide fast treatment in life-threatening situations.*

*A good example of the efficiency improvements the police forces experienced by incorporating Mobitex into their daily operations is the Cleveland constabulary. Nine months after adopting the service they had improved dispatch and arrival times by 61% and the response to road traffic accidents by 29%. Furthermore, they have been able to accommodate up to 10% growth without extra resource and have seen a 4% reduction in mileage across the fleet.*



*Another satisfied Mobitex customer, the Metropolitan Fire and Emergency service in Melbourne, Australia, selected a Mobitex solution by Tyco to provide fire-monitoring services for commercial, residential and industrial premises. Mobitex was selected for its high availability, performance quality and reliability with response times of only 5 seconds.*

Mobitex supports standards such as IP, WAP and Bluetooth, which facilitate simple methods of communication with a large number of external systems and terminals.

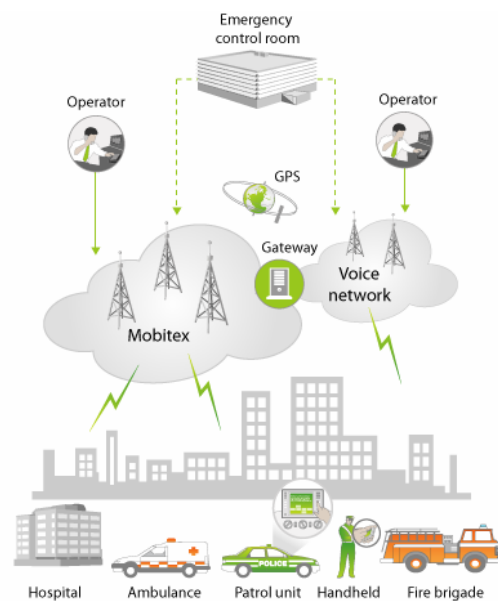
Because Mobitex has a strong position and a large number of users within the public safety segment, there are many different suppliers provide solutions customized for Mobitex. Examples include applications for police, security companies, ambulance, fire, customs and civil defence. Most solutions include positioning, dispatch, database lookups and message handling. There is a wide range of solutions including both handheld and vehicle mounted terminals. We work with business partners to deliver complete solutions to our customers.

#### **Separate network for voice and data**

Installing a wireless data network, completely separate from the voice system, often provides the level of redundancy required.

It also reduces the excessive dependency on voice communication, which in turn reduces the capacity requirements on the voice system.

With two separate networks, data and voice communications are handled simultaneously without contention. These advantages are becoming more and more evident and Mobitex is used with increasing frequency in countries where e.g. Tetra is deployed.



#### **Strong Commitment**

Mobitex has been a de facto standard for many years and hence a mature, high quality network. Time and again Mobitex has been first in implementing new, groundbreaking functionality for others to follow. As a hive off from Ericsson, a reputable, world-class provider of wireless systems that put great emphasis on long-term commitment, we nurse our legacy and put great emphasis on providing unparalleled support to our customers.

**Your success is our overall mission.**