



Satellite CHIMERA

## **SATELLITE CHIMERA**

### **SATELLITE COMMUNICATIONS HIGH INTEROPERABILITY MODULE FOR EMERGENCY & RESCUE APPLICATIONS**

Advanced Interconnection platform integrating satellite and terrestrial networks to achieve full interoperability between rescue teams and operational centres for emergency management and/or civil protection operations.

#### **BACKGROUND**

Rescue operations require the rapid deployment of networks to ensure data and voice communication between rescue teams, generally belonging to different organisations, and the operational headquarters. Deployment of heavy communication infrastructure in such cases may result extremely time consuming and not guarantee interoperability between teams using different technologies and devices.

#### **CHIMERA**

The system can be easily displaced and rapidly deployed. It is simple to use and enables any organisation's own radio network to be re-created on site and linked to its operational centres from anywhere in the world. It can be used to establish radio coverage zones in areas that would otherwise have

none, and to achieve interoperability with other radio networks, and between these and land and satellite telephone networks.

#### **SYSTEM DESCRIPTION**

The system consists of:

- gateway interface between radio networks and the Interlox IP satellite network
- IP Interlox operator workstations
- "DirectWay" or SkyplexNet satellite IP communication platform

#### **GATEWAY INTERFACE**

This system provides the interface between radio networks and the IP network, enabling interoperability to be achieved between different radio networks and these networks to be connected to any workstation that taps into the same IP network. Compatible with the performance and characteristics of the radio-communications equipment adopted to access the radio network, it allows for half or full duplexnet IP voice communication, data transmission and digital control of the equipment. Moreover, the Gateway enables interoperability between isofrequency or multi-channel radio networks and fixed or mobile telephone networks, as well as with VOIP communication terminals, such as laptops, workstations and IP telephones.



**IP WORKSTATION OPERATOR**

Communication software product for PCs, laptops or palmtops which allows radio equipment to be used through the IP network. Multiple simultaneous radio links can be managed easily and immediately from any workstation on the internet, thereby extending operators' access to radio communications significantly but in a controlled manner. This software enables the user to manage VOIP, PSTN and GSM, which means it can be used for IP communication between operators.

**SATELLITE COMMUNICATION PLATFORM**

Innovative system providing IP connectivity via star-configured bidirectional satellite. The star centre beams an outbound channel with a data rate of up to 48 Mbps, reaching a population of small-size satellite terminals (less than 90-cm antenna diameter and 1-Watt transmitters). Outer terminals have a return channel that can broadcast at a speed of up to 512 kbps.

