



SKYPLEXNET

THE INNOVATIVE INTERACTIVE BROADBAND SATELLITE TELECOMMUNICATION PLATFORM

SkyplexNet offers a really innovative service within broadband communication solutions for public administration, universities, training centres, television broadcasters, internet operators and companies.

SkyplexNet is an interactive broadband satellite telecommunication platform, marketed and managed by Telespazio.

This innovative technology allows service providers to have direct and independent access to the satellite, avoiding very expensive terrestrial connections and central hubs owned by other operators. The platform can be used by mono- and bi-directional, fixed and mobile terminals, with a satellite signal footprint that stretches across the whole of Europe and the Mediterranean sea. SkyplexNet services user own and manage their satellite networks with complete autonomy.

Reception of SkyplexNet services simply requires a satellite TV antenna. The interactive (return channel) can be accessed directly via satellite by means of the same receiving antenna or via terrestrial networks (telephone lines, ISDN, XDSL or Power Line).

The SkyplexNet platform services are dedicated to business, ordinary consumers and institutional customers, offering interactive multimedia video applications, multiparty video-conferencing, distance learning, telemedicine, LAN-to-LAN and fast intranet connections, the provision of audio and video time-scheduled content, web and video portals, IP (Web) television, television broadcasting and business television.

Because of its high reliability the SkyplexNet system represents an almost unique solution for networks dedicated to telemedicine services (public administration) and to crisis and emergency management. In Italy, some Local Civil Protection Agencies (in the regions of Piedmont, Valle d'Aosta and Emilia Romagna), coordinated by the Italian Civil Protection Department, use EmercomSat

a new broadband satellite network based on SkyplexNet technology: this network was successfully inaugurated in Piedmont during the 2006 Turin Winter Olympic Games.

The Italian National Fire Brigade telecommunication network currently relies heavily on SkyplexNet, which is upgrading its entire communication system. This network connects with hundreds of user terminals, and links the Ministry of the Interior operating centre with regional and provincial centres. Furthermore, this network is interoperable with the Civil Protection satellite network, using the same SkyplexNet platform, and represents a new model for integrated communications networks.

The broadband and management services of the SkyplexNet platform are provided by Telespazio, while the onboard and ground technology were developed by Thales Alenia Space. SkyplexNet is the first and only technological platform in the world that works with the new generation of on-board processing satellites (Eutelsat's Hot Bird 6), equipped with regenerative digital transponders that guarantee an extremely reliable and secure performance, and was therefore chosen in Italy to meet the requirements of the Fire and Civil Protection Services.

