

# ELETRASUITE ADAPTANET®

CYBER SECURITY DIVISION

## TETRA IP communication solution

The ElettraSuite Adaptanet® IP, represents the company's TETRA solution designed to cover a wide range of system dimensions ranging from single-site systems to regional and national networks for mission and business critical applications.

Full IP connectivity and the ability to use existing LAN infrastructures as backbone support integration with existing systems, enabling customers to benefit from further cost savings. Thanks to the separation between control plane and user plane, ElettraSuite Adaptanet® IP allows the deployment of IP networks and supports customers in their choice between small-medium networks up to national architecture.

The network architectures can be realised simply through the use of Leonardo Base Stations BS Nodes equipment interconnected in various configurations and coordinated by a CSP Node acting as a controller in a multi-layer architecture, supporting a multi-level fault-tolerance, thanks to redundancy, resilience and disaster recovery features.

The interconnection of several CSP Node equipments assures system expandability. ElettraSuite Adaptanet® IP provides end-users with high performance and secure encrypted communications, providing essential core services for voice and data calls as well as a comprehensive range of supplementary and enhanced services.

The Home Location Register is stored within the Service Management Node (SMN). System management is via the Network Management System (NMS), a scalable and cost-effective management solution able to provide both local and remote monitoring.

ElettraSuite Adaptanet® IP can offer IP based dispatching solutions, both as stand-alone workstation and in clientserver configuration for Control Rooms. However ElettraSuite Adaptanet® IP is also an open platform providing Application Programming Interface (APIs) through a dedicated server (CSP-CRIS) for integration with third party applications at a network level (e.g. for CAD services).

Connection to external PABX/PSTN telephony networks or different PMR systems (e.g. conventional or P25) can be realised though dedicated gateways providing ISDN PRI, VoIP (SIP, IAX, H.3223) and analogue 4WE&M (with DC5) interfaces.

ElettraSuite Adaptanet® IP also include a state-of-the art voice recording solution, specifically designed for TETRA, capable of storing more than 100.000 hours of TETRA encoded speech, in a highly secure redoundable server. Finally interoperable authentication and encryption key management solutions complete ElettraSuite Adaptanet® IP offer in terms of security material handling, storage and distribution.



Infrastructure - Radio base stations BS Node series for TETRA coverage

## KEY FEATURES

- > Full IP backbone connectivity
- > Call Control
- > Multi-level fault tolerance and disaster recovery
- > Air-Interface and End-to-End Encryption support.

## PERIPHERAL TERMINALS

### VS4000 ECOSYSTEM SOLUTIONS

The VS4000 ecosystem solutions combines the powerful and performances of the TETRA radio unit (VS4000) with the flexibility and user-friendliness of FPG3 Plus front panel.

Optional features such as CAN bus interface and Wi-Fi access point extend connectivity options.

VS4000 is also the core upon which TETRA fixed radio station (FC4000) and Radio dispatcher unit (RDS4000) are built.

VS4000 supports TETRA DMO (Direct Mode Operations) thus allowing communication services even in the absence of a conventional infrastructure. With the Wi-Fi within a FPG3 front panel inside the vehicle, it is possible for smartphones and tablets to become a secure entry point into the professional network.

This document contains information that is proprietary to Leonardo - Società per azioni and is supplied on the express condition that it may not be reproduced in whole or in part, or used for manufacture, or used for any purpose other than for which it is supplied.  
2019 ©Leonardo S.p.a.

For more information please email:  
securityandinformation@leonardocompany.com

Leonardo S.p.a.  
Via delle Officine Galileo, 1 - 50013 Campi Bisenzio (FI) - Italy  
Tel. +39 055 89501  
Fax +39 055 8950600

leonardocompany.com



Terminals - TETRA handhelds, PUMA T4-TK (with keypad) and PUMA T4-TE (full-touch)

### PUMA T4 HANDHELD TERMINALS

The PUMA T4 TETRA introduces a new concept of handheld device, with a modular design combining reliable and secure communications with new value added services that greatly enhance efficiency in daily operations and emergency situations.

An Android based general purpose core provides computing, ancillaries and MMI functions integrated with radio communications provided by a modem component.

PUMA T4 series delivers the security and the robustness of a TETRA radio with the features that characterize today smartphones, providing both mission critical communications services and multimedia capabilities.



MM08085 09-19

