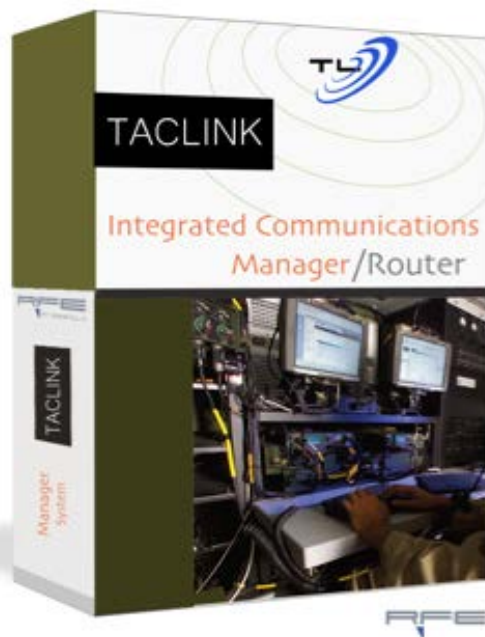


TACLINK® Tactical Communications System

The global Voice and Data Management solution in tactical scenarios

A software solution for Windows systems

Integrated Communications Manager/Router



- Integrated Voice and Data communications solution for military settings.
- Integrated tactical router for dynamic routing of data traffic.
- Tactical intercom integrating voice and VoIP services over the radio network.
- Centralized set-up management through a single mission file.
- Remote control of communications devices.
- Includes a complete email messaging management service.

1) ROUTING

Proprietary dynamic tactical routing protocol.

2) COMMUNICATIONS

Dynamic adaptive ARQ system with automatic AES 256 encoding and compression.

3) MONITORING

On-screen status display for local and remote communications devices as well as for the network.

4) INTEGRATOR

Integration of all kinds of communications devices and networks regardless of their manufacturer and operating mode.

5) SERVICES

Integrated remote control services, Acquisition of GPS signal and dynamic GPS server, NTP, SNMP management...

TACLINK 3.1 is a comprehensive Voice and Data communications solution for tactical settings. It offers a global communications solution by facilitating the integration of all devices at a single point but within a global network to provide the communications administrator with an easy set-up and complete control over data traffic and the sending and reception of voice messages.

The system offers status monitoring for the communications devices and networks forming part of the mission, providing a full overview of the communications infrastructure with dynamic data traffic routing and optimizing the use of communications resources.

Through its complete prioritization, routing and QoS system, the system becomes a core element in military communications.

The solution offered incorporates a complete system for integrating voice communications through the use of Tactical Intercom features, a VoIP server and the Gateway fitted on the TACLINK.

Thanks to the integration of the combat radio networks with Voice over IP systems and networks, the system provides a superior level of operation.

The operational potential offers full integration of radio and VoIP networks, provides new possibilities such as automatic voice management, remote use of radio devices as well as powerful intercom features, selective dialling, point-to-point calls, relays, multiple voice message distribution, emergency calls or notifications by means of alerts and oral messages.



Basic features of the system

INTEGRATION	<ul style="list-style-type: none"> Integration of any kind of communications devices, HF, VHF, UHF, Satellite or Microwave Radio, for voice services and data traffic. Compatible with IP-interfaced equipment: Ethernet, PPP (including bridge mode), PPPoE (PPP over Ethernet), PPPoA, as well as NON-IP devices (e.g. Asynchronous/Synchronous serial interfaces). Integration with pre-existing messaging networks in MTA mode using SMTP and POP3. Proven compatibility with such communications devices and systems as: PR4Gv2/v3, HARRIS RF-5800H/7800H/7800M, AN PRC-117, AN PRC-150, SPEARNET, IRIDIUM, INMARSAT, BGAN, etc.
STATUS CONTROL	<ul style="list-style-type: none"> Monitoring of communications device status and local uplinks for routing. Monitoring of devices with IP interface and non-IP interface devices Monitoring and adaptation of network traffic: Protocol, MTU, Latency and Buffer.
DYNAMIC TACTICAL ROUTER	<ul style="list-style-type: none"> Proprietary-software IP router enabling all network traffic to be controlled and processed. Dynamic routing protocol based on OSPF and adapted to military tactical settings. TCP and UDP transport protocols supported as well as the main application protocols. Data transmission using adaptive ARQ protocols assigned by service or device.
PRIORITIZATION	<ul style="list-style-type: none"> Prioritization of traffic by devices, networks, IP addresses, ports, DSCP dialling, etc. Service-based network traffic prioritization is supported by linking certain protocols and applications to specific networks and devices.
VOICE	<ul style="list-style-type: none"> Optimized analogue/digital voice conversion system for the integration of CNR. Integrated voice gateway. SIP server for the integration of VoIP equipment. Support for CISCO(R) Call Manager, Asterisk and other VoIP systems
INTERCOMS SYSTEM	<ul style="list-style-type: none"> Solution to provide multiple operators with access to radio and satellite voice networks by means of equipment connected through a conventional IP network LAN. Access to all radio/satellite networks simultaneously and setting-up of relays with all of them. Communications and internal phone links between different voice clients (SW&HW) for Intercom service.
VOICE MANAGER	<ul style="list-style-type: none"> VoIP client software that can be installed at multiple points on the LAN network. Access provided to voice communications over all radio and satellite equipment from any manufacturer. Various radio or satcom networks can be used simultaneously for TX and RX. Selective calls are supported by radios and VoIP
REMOTE CONTROL	<ul style="list-style-type: none"> Remote control tools included for the main HF and VHF communications devices in use in the Army: HARRIS RF-5800H/7800H, AN PRC-150, AN PRC-117, PR4Gv3.
SERVICES	<ul style="list-style-type: none"> Centralized and dynamic GPS positioning management system for all devices (including radio and NMEA external devices). Dynamic GPS position server. Module included for NMEA position distribution through COM ports. NTP time server using GPS data to synchronize applications and clients. SNMP protocol for router management and monitoring through third-party apps. Tactical DNS for the integration of satellite equipment with dynamic IP over the Internet.
DSCP AND QoS	<ul style="list-style-type: none"> DSCP and QoS to provide a sorting mechanism and the tactical network traffic
LOAD BALANCING	<ul style="list-style-type: none"> Load balancing of different services through various media and prioritizations Load balancing of a service through various media
DELAYED ENTRY	<ul style="list-style-type: none"> Integrated system for delayed entry of new TACLINK stations into the communications
ENCRYPTION	<ul style="list-style-type: none"> Automatic encryption of all communications using the AES 256 bit protocol
EMAIL MESSAGING	<ul style="list-style-type: none"> Messaging router included and Email messaging module adapted for tactical scenarios. Internal messenger data base included to deliver the messages. Easy interchange of messages through any medium: HF, VHF, UHF, SAT, etc. Automatic notice service included

System Requirements

Operating system: Windows® 7 Professional 32 or 64 bits.
Windows® XP 32 bits.

Processor: Intel® Core™ i5, i7 (2.4 or 3.2 GHz), 4 cores.

Memory: 8 or 16 GB 1600 MHz SDRAM DDR3.

Storage: 320 GB HDD Recommended, optional SSD solid state drive.

Screen: minimum resolution 1280 x 768 pixels.

Graphics card: Integrated Intel® HD 4000 or similar.

Ports: 3 or more USB ports (2.0 or higher). Headphones, stereo mic.

Ethernet network card. 1 or 2 RS-232 asynchronous serial ports (recommended/optional).

The information provided is merely for guidance as performance can vary considerably between processors from the same family.

For further information about our products and services, please visit our web site:

www.rfe.es



Av. Asturias 10,
Madrid 28905
Tel: +34 91 308 17 01
Fax : +34 91 733 03 48
www.rfe.es