RONET EVO

LTE SYSTEM WITH PTT FUNCTIONS FOR INDUSTRIAL APPLICATIONS

A COMPLETE SOLUTION FOR CREATING YOUR OWN (PRIVATE) COMMUNICATION SYSTEM

STANDBY

1 2 3 4 5 6 7 8

MARS: ESR

RONET EVO | PROFESSIONAL SOLUTION

MODERN INTEGRATED SOLUTION

Modern integrated solution for creating an industrial enterprise of own (private) LTE system with PTT communication functions
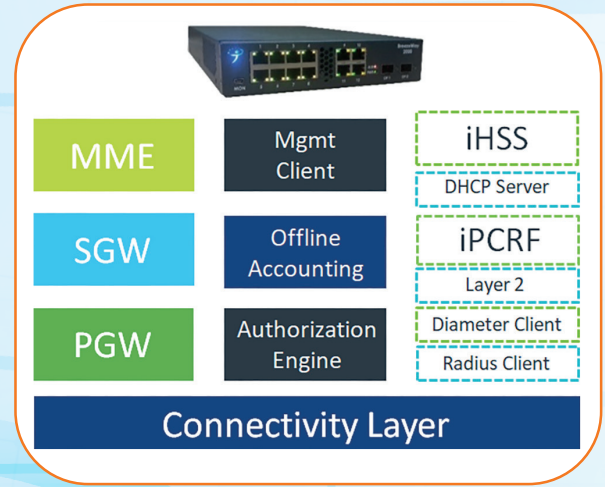
RONET EVO FEATURES

- Advanced technology built on the LTE protocol

- Has a full set of functions required in the industrial communication system of the enterprise

- Optimal configuration that eliminates unnecessary redundancy and optimises costs

- 3GPP Compliant

- Full feature set of traditional PTT communication systems

- Possibility of docking with traditional radio communication systems and telephone networks. Ability to provide a seamless migration from traditional radio systems to modern LTE technology

- Provides the necessary level of reliability when working in crisis situations. Redundancy of all major elements

- Complies with Mission Critical requirements

- Open architecture allowing integration with other industrial enterprise IT solutions

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SYSTEM COMPONENTS

RONET pLTE CORE includes:

- ◉ **Redundant pLTE BreezWay EPC 2020 Packet Core**
- ◉ **MARS ESR Service Router**
- ◉ **Redundant RONET Professional PTT Server**
- ◉ **BreezeView control and monitoring system**
- ◉ **Server MARS:MONITORING**
- ◉ **Gateways for connecting radio communication systems**
- ◉ **SIP Gateway for connection to telephone networks**
- ◉ **Event recording server in the system**

MME	Mgmt Client	iHSS
SGW	Offline Accounting	DHCP Server
		iPCRF
PGW	Authorization Engine	Layer 2
		Diameter Client
		Radius Client
Connectivity Layer		

ADMINISTRATOR WORKSTATIONS
for system configuration and monitoring

DISPATCHER WORKSTATIONS
for managing system subscribers

LTE BASE STATIONS
of various types, including those for outdoor placement, complete with the SB LTE Service Communication Unit to provide switching and power supply functions (main and backup)

CORE NETWORK
for connecting base stations using eBand technology, based on wired technologies or fiber optics with redundant capabilities

MASTS
for installation of base stations complete with AFU of various types

VARIOUS TYPES OF LTE SUBSCRIBER TERMINALS
designed for use in difficult industrial conditions

SENSORS
video cameras and other equipment using the EATHERNET protocol
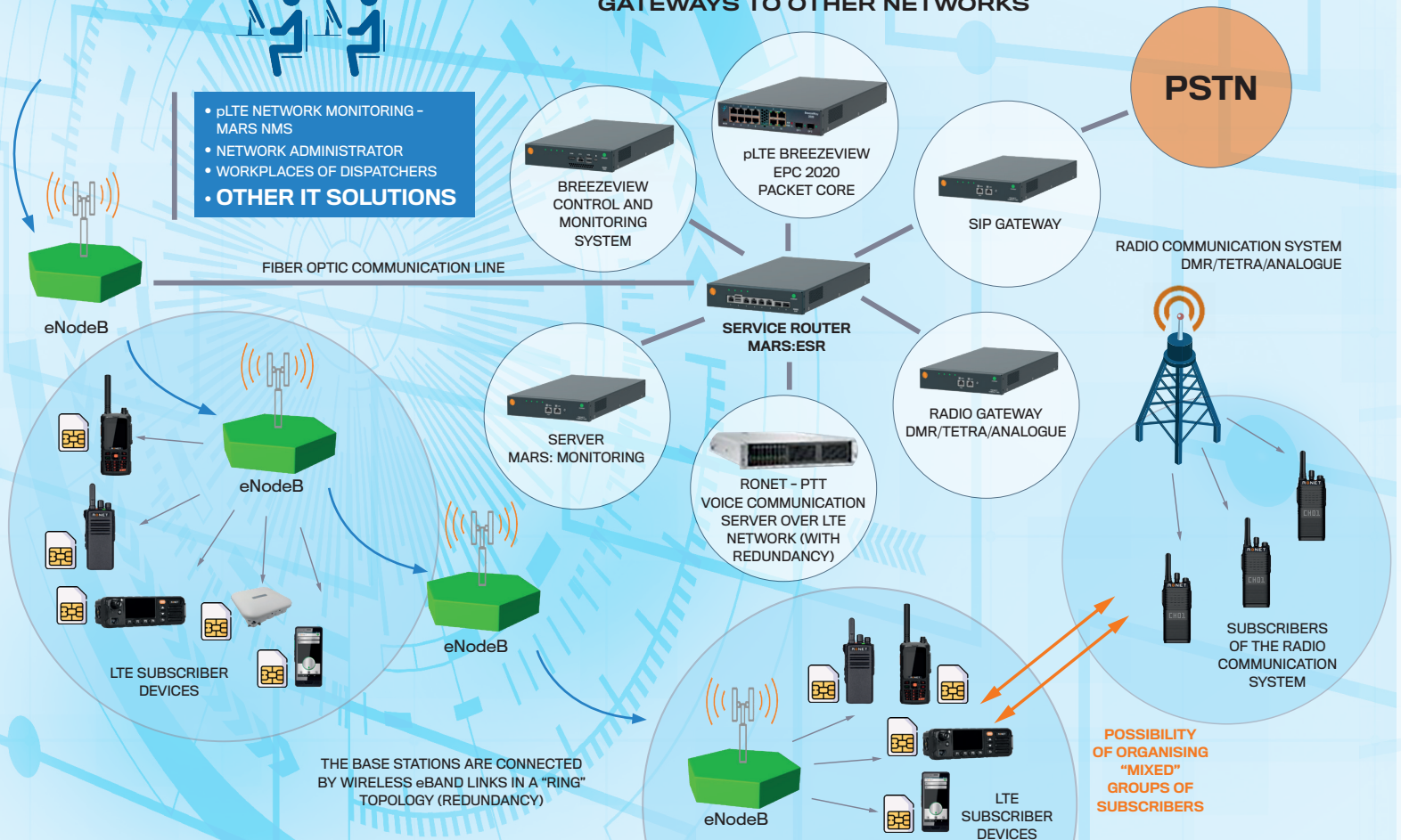
RONET EVO | COMPLETE SOLUTION

THE CUSTOMER IS OFFERED:

- Technological communication system design
- Calculation of radio coverage and selection of optimum system configuration (including when reservation is necessary)
- Supply of equipment
- Setup and commissioning
- Integration with existing IT solutions and radio communication systems
- Technical support and training

NETWORK TOPOLOGY

RONET PRIVATE LTE CORE, PTT–SERVER GATEWAYS TO OTHER NETWORKS

- pLTE NETWORK MONITORING – MARS NMS
- NETWORK ADMINISTRATOR
- WORKPLACES OF DISPATCHERS
- **OTHER IT SOLUTIONS**

PSTN

BREEZEVIEW CONTROL AND MONITORING SYSTEM

pLTE BREEZEVIEW EPC 2020 PACKET CORE

SIP GATEWAY

RADIO COMMUNICATION SYSTEM DMR/TETRA/ANALOGUE

FIBER OPTIC COMMUNICATION LINE

eNodeB

SERVICE ROUTER MARS:ESR

SERVER MARS: MONITORING

RADIO GATEWAY DMR/TETRA/ANALOGUE

eNodeB

RONET – PTT VOICE COMMUNICATION SERVER OVER LTE NETWORK (WITH REDUNDANCY)

eNodeB

LTE SUBSCRIBER DEVICES

SUBSCRIBERS OF THE RADIO COMMUNICATION SYSTEM

THE BASE STATIONS ARE CONNECTED BY WIRELESS eBAND LINKS IN A "RING" TOPOLOGY (REDUNDANCY)

eNodeB

LTE SUBSCRIBER DEVICES

POSSIBILITY OF ORGANISING "MIXED" GROUPS OF SUBSCRIBERS

RONET EVO | FUNCTIONAL CAPABILITIES

FULL SET OF PTT COMMUNICATION FEATURES:

- individual and group PTT calls
- emergency, broadcast and priority calls

- ⊙ Transfer of files, live video and photos in high quality from subscriber terminals

- ⊙ Sending text messages from subscriber terminals

- ⊙ Recording of conversations and other events in the system with playback functions

- ⊙ Full set of Dispatcher features

- ⊙ Functions of the Mobile Employee (formation and execution of work orders)

- ⊙ Positioning functions of mobile subscribers (monitoring and management of subscribers on an electronic map indoors and outdoors)

- ⊙ Connecting Video Cameras and Various Sensors (IIoT Functions)

- ⊙ Support for up to 10,000 mobile subscribers

- ⊙ Possibility of organising several independent networks of subscribers within one system

- ⊙ Support for a "mixed" fleet of subscribers (LTE subscribers and radio subscribers, if there are gateways with radio communication systems)

- ⊙ Special functions of protection against unauthorised access and information protection

RONET EVO | SUBSCRIBER TERMINALS

WIDE SELECTION OF SUBSCRIBER TERMINALS OF VARIOUS TYPES

⊙ portable and mobile subscriber terminals

⊙ smartphones, tablets and radio terminals

⊙ special terminals, including those with an increased level of protection against mechanical impacts, dust and moisture, explosion-proof terminals

IT IS RECOMMENDED TO USE TERMINALS WITH A PHYSICAL PTT KEY

• Support for subscriber terminals running Android, Linux, iOS

• A wide range of accessories for subscriber terminals of various types, including accessories from professional radio

• The terminals are equipped with high-capacity batteries for guaranteed operation during the working shift

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UNIQUE POSSIBILITIES AND BENEFITS OF USING

- LTE technology with full PTT communication capabilities and additional functions based on high-speed data transmission (live video in high quality, etc.)

- Optimal configuration of the LTE Core, which provides all the functions necessary in a technological communication network

- Own communication system that provides the necessary level of reliability and information protection

- Complies with Mission Critical requirements

- Redundancy options for the main elements of the system

- A wide range of LTE base stations and subscriber terminals

- Ability to integrate with other IT solutions and radio communication systems

- Integrated solution (all stages of the project implementation are carried out - design, supply, commissioning, technical support and maintenance

- Open architecture (opportunities for modernisation and development)

- Scaling options

- Affordable prices

RONET EVO

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