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DEPLOYNET

Speed is everything

Secure Mission Critical 5G Network-On-Demand

A compact, deployable 5G/4G infrastructure for a flexible, scalable and cyber-secured wireless network offering high-capacity bandwidth in an end-to-end solution built for crisis management in the most challenging environments.

Speed is everything

In the event of a disaster, public safety events or other similar challenges, fast, reliable and secure communication is key. But what if the communication infrastructure is destroyed, limited or non-existent? How to ensure you can act at full speed?

Speed as in rapid deployment of your own broadband network. Speed as in complete setup within 40 minutes from arrival to operation. Speed as in bandwidth that allows for transfer of large amounts of speech, data and video to support first responders in emergency scenarios. Designed for continuous high-speed connectivity it provides immediate access to information, enhanced situational awareness, improved decision making and greater speed of communication.

The answer is DeployNet – a scalable, ruggedised, compact 5G/LTE network solution with fast, reliable access to cyber secured high-speed connectivity – wherever you are, whenever you need it.

At the edge of connectivity

Compared to modern broadband technology, traditional communication networks do not have the capacity to meet all information needs. Today's technology allows for more secure, reliable, high-speed voice, video, and data communications to save more lives and better protect the lives of first responders.

Developed utilising proven technology and in close co-operation with a world leading telecoms partner, DeployNet ensures services at the operational edge for all public safety authorities involved.

End-to-end turn-key solution

DeployNet is a true end-to-end turn-key solution that provides mobility and rapid deployment from vehicles to enable geographic scalability and local reinforcement of network capacity in cases of limited or damaged existing communication infrastructure.

Enhanced cyber security

With today's rapidly evolving technologies, the asymmetric threat from the cyber dimension poses a threat to any network, in particular a fixed, open system. The threat may be to the availability of connectivity, integrity of the information communicated and to the confidentiality of the data transferred and stored. DeployNet is designed to counter such threats utilising Saab's extensive expertise in military cyber security.

Deployable and ruggedised

DeployNet is compact and light for easy transportation and can be operated quickly with minimal training in the harshest environments and conditions, through ruggedisation to the most arduous climatic conditions and terrains.

Multi-scenario use

DeployNet is a modern communication system with the ability to facilitate advantages in all scenarios, for instance:

- Natural disaster response: fire, earthquake, flooding, typhoons
- Search & Rescue
- Exploration
- Terrorist attacks
- Event security
- Crisis management
- Situational awareness

Scalable and cost efficient

DeployNet is scalable, both in terms of user numbers and system range to provide a network for up to 10,000 users simultaneously with a typical operation area of 100 km² per system (multiple frequency bands available). The system is designed for cost effectiveness through reduced inefficiencies with other networks, interoperability with existing systems and future-proofed upgradable technology.

Basic system components

DeployNet comprises of two different basic system components. The 'core radio station' realises the network routing functionality in accordance with 3GPP and holds radio network resources to cover a geographic area. The 'expansion radio station' expands the geographic coverage area of the network. The core stations can be overlapping, depending on the resilience level required.





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Communications

DeployNet offers a deployable network for secure push-to-talk, push-to-video, video streaming and data transfer to users in challenging environments and conditions.



Network system components

The turn-key solution includes all system components such as handsets, administration tools and active telecom equipment to provide the following elements:

- Core network
- Radio access network
- Mast unit
- Transport layer
- User equipment
- Power distribution

Technical data

Frequency band	Band 28, Band 43 (Band 31 or other bands on request)
Protocols	4G/5G. 5G SA/5G NSA. Software upgradeable from 4G to 5G
Coverage area	Typical 100 km ²
Power	Externally powered (28V DC, options for 48V DC or 230V AC)
Carrier bandwidth	Up to 100 MHz (FR1) and 400MHz (FR2)
Antenna	Configuration: 2x2 or 4x4 MIMO Types: Integrated Directional or External (depending on frequency, range and link-budget)
No of active users	Up to 10,000 simultaneous active users, utilizing rugged phones, laptops or tablets as part of the system
Environmental	Complies with MIL-STD 810 and MIL-STD 461 IP54 operational and IP65 transport
Mechanical	Dimension: System components can be transported by two operators The system can be transported by air freight without special handling DeployNet can be vehicle mounted for greater mobility
Feature	MC-PTT, –MC-PTV and GIS/C2 capability
Unattended operation	Minimum 7 days (depending on power source option)

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