**DEPLOYNET**

# Speed is everything

Secure Mission Critical 5G Network-On-Demand

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

# Speed is everything

In the event of a disaster, armed conflict or other similar challenges, fast 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 minutes. Speed as in bandwidth that allows for transfer of large amounts of speech, data and video.

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

## Mission-ready 5G/LTE

DeployNet is a mission-ready deployable tactical 5G/LTE infrastructure providing a wireless network with high-capacity bandwidth in a flexible end-to-end solution built for the most challenging environments.

Designed for continuous high-speed connectivity it provides immediate access to information, enhanced situational awareness, improved decision making and greater speed of communication.

## 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 missions require more secure, reliable, high-speed voice, video, and data communications and the capability to share huge amounts of sensor data.

Developed utilising proven technology and in close co-operation with a world leading telecoms partner, DeployNet ensures connectivity at the operational edge.

## End-to-end turn-key solution

DeployNet is a true end-to-end turn-key solution that provides mobility and rapid deployment 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 military standards.

## Multi-scenario use

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

- Base security/Command posts
- Search & Rescue
- Exploration
- Peacekeeping operations
- Soldier mission training
- Crisis management
- Reconnaissance
- 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 6,500 users simultaneously with a typical operation area of 100 km$^2$ 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.

# SAAB

## Communications

DeployNet offers a deployable network for secure push-to-talk, video streaming and data transfer to users in hostile environments, with integration to traditional Combat Net Radio.



## 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

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| **Frequency band** | Band 28, Band 43 (Band 31 or other bands on request – flexible within 3GPP) |
| **Coverage area** | Typical 100 km² |
| **Power** | Externally powered |
| **Antenna** | Types: Integrated Directional or External (depending on frequency, range and link-budget) |
| **No of active users** | Up to 6,500 simultaneous active users, utilising ruggedised phones, laptops or tablets as part of the system |
| **Environmental** | Complies with MIL-STD 810 and MIL-STD 461 |
| **Mechanical** | Dimension: System components can be transported by two operators. The system can be transported by air freight without special handling. |
| **Feature** | MC-PTT, –MC-PTV and GIS/C2 capability. |
| **Operation** | Minimum 7 days (depending on power source option) |

**Saab Ltd**

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