

Swedish Armed Forces deploys soldier-carried network solution

Introduction

This white paper describes how the Swedish Armed Forces benefits from a rugged networking system called Mobile Core Network. The system complements vehicle and container-based platforms and offers unique advantages regarding deployment, cost-effectiveness and environmental requirements for communication in tactical arenas.

The Mobile Core Network system consists of a lightweight, fast-deployable mobile platform based on MilDef 19"/2 products mounted in soldier-carried rugged cases.

Customer

Swedish Armed Forces domestic and international.

Description

The deployable mobile platform based on MilDef 19"/2 products is a collaboration between MilDef and FMV (Swedish Defence Materiel Administration).

The Armed Forces identified the need for lightweight platforms for easy and fast deployments to build a communication network, functioning both as a local network and as a wide area network.

MilDef products meet the toughest requirements for rugged equipment; fanless units for reliability, environmental requirements according to MIL-STD 810, and MIL-STD-461 Ground Army EMC. On request, they are also certified for TEMPEST and other military standards.

By mounting different MilDef 19"/2 products in rugged cases, they combine to form a specialized

system, delivering the desired effect, easily deployed even under demanding circumstances in the field.

The system requires no AC cooling, no stationary vehicles, no complicated transports, keeping the lifecycle cost low, system reliability high, and the deployment is highly simplified.

The communication between the different nodes consists of long-distance fiber connections, satellite communications, radio etc, and for the LAN cost-effective copper cables are used.

The extensive MilDef portfolio of 19"/2 products, the ability to modify existing products, and the capacity to develop completely new products based on customer requirements, ensures the Swedish Armed Forces longevity and robustness in their choice of MilDef as a trusted partner.

MilDef develops rugged electronics for military applications. With reference cases from more than 20 countries and experience from over two decades of supplying mission-critical equipment, the company has collected a wealth of domain-specific knowledge.

The MilDef white paper series shares some of our proven solutions for digitalization, developed in close collaboration with our customers.

For more information, visit www.mildef.com.





Mobile Core Server System

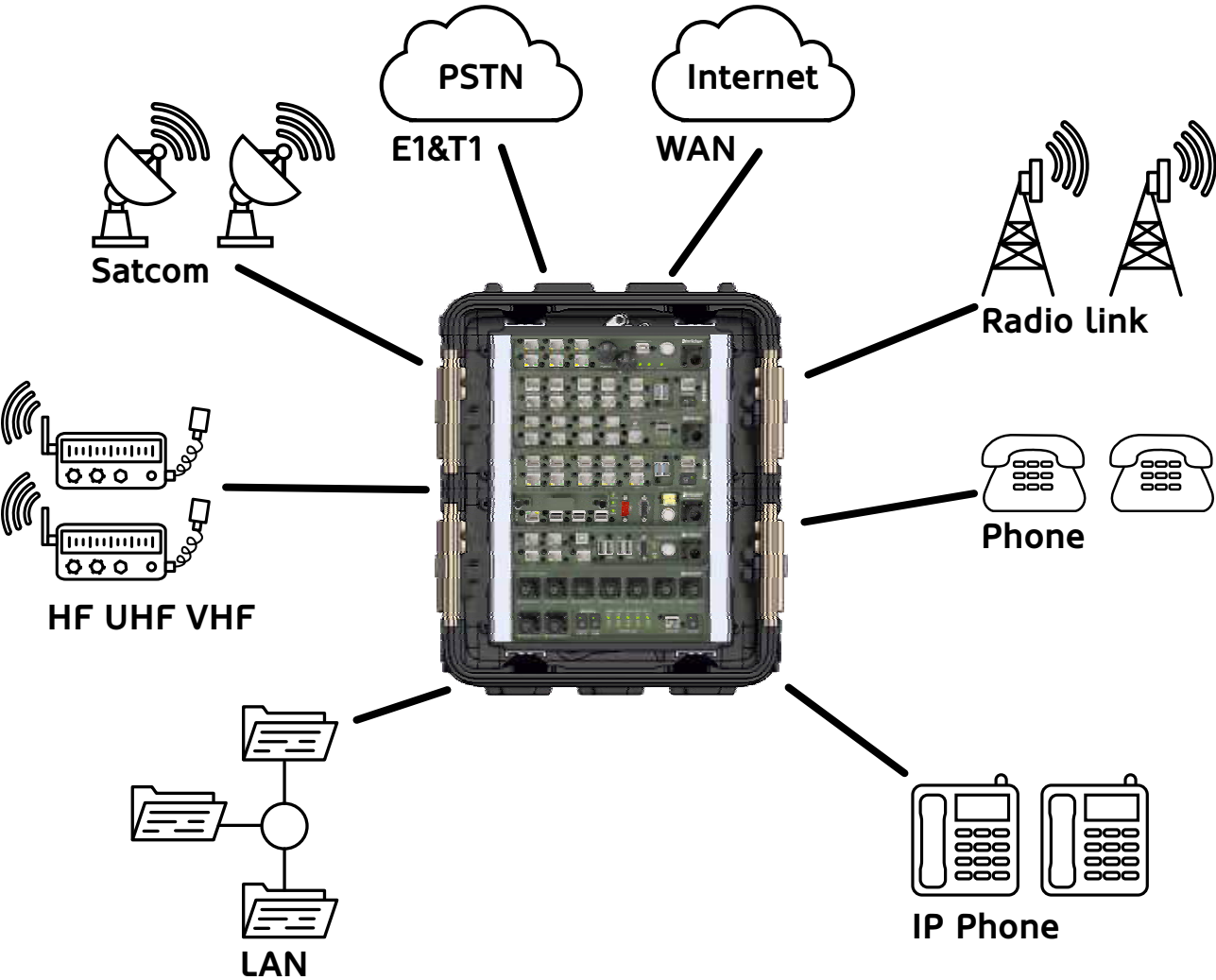


Mobile Core Network stack including UPS



Vehicle-based network node compared to the Mobile Core Network cases

Below schematic shows an example of how the Swedish Defense uses the MilDef 19”/2 products in its mobile transport case to set up a variety of network links, to cover every aspect of communications in the field.



Products

MilDef products used in the Swedish Mobile Core Network solution consist of servers, routers, switches, media converters, displays and UPSes.

Server and Clients

| | |
|----------------------|---|
| MilDef CS300 Series | https://mildef.com/product/cs300/ |
| MilDef CS1100 Series | https://mildef.com/product/19-2-cs1100-series/ |
| MilDef CS9100 Series | https://mildef.com/product/19-2-cs9100-series/ |

Routers and Switches

| | |
|-----------------------|---|
| MilDef RM300 Series | https://mildef.com/product/19-2-rm300-series/ |
| MilDef ESW2100 Series | https://mildef.com/products/19inch2/switches/ |

Displays

| | |
|---------------------|---|
| MilDef DS100 Series | https://mildef.com/product/lcd-ds1120-series/ |
|---------------------|---|

Power

| | |
|-----------------------|---|
| MilDef PWR1100 Series | https://mildef.com/product/19-2-pwr1100-series/ |
| MilDef PWR2100 Series | https://mildef.com/product/19-2-pwr2100-series/ |

Media Converters

| | |
|---------------------|---|
| MilDef MC700 Series | https://mildef.com/product/196-mc702-media-converter/ |
|---------------------|---|

Key benefits

- Small form factor products
- Fanless systems
- Soldier-carried systems
- Form Fit Function > 5 years
- Fast deployments
- Low lifecycle cost
- Easy transportation
- Turnkey Systems

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