# MobKommSysBw

MobKommSysBw is the **IP-based, widespread, high-performance, secure and highly available** core network in the operational areas of the German Federal Armed Forces and provides an IP transport service in accordance with the IT-SysBW Mission reference architecture. It integrates subordinate local networks and systems via standardized interfaces and protocols, ensuring seamless communication between deployment sites, the home base, and allied partners.

MobKommSysBw meets the highest security requirements by transmitting data in accordance with VS-NfD standards. Transmissions via unsecured networks and areas are encrypted at all times.
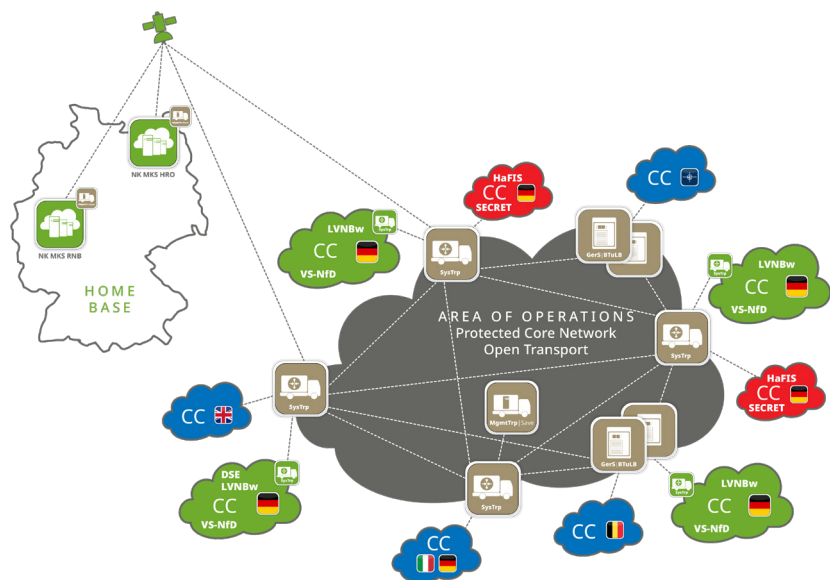
Through Federated Mission Networking (FMN), an initiative by NATO to ensure interoperability and operational effectiveness of the NATO partners as well as other nations, there is a requirement for the implementation of an open transport network, the Protected Core Network (PCN) or Open Transport. To support this, MobKommSysBw introduced two operational modes early on. In the BM-National operating mode, a classified VS-NfD core network is provided. The open transport network is established through the BM-CC operating mode. A mixed operation mode is also possible.

MobKommSysBw has successfully passed the AV&V (Assurance, Verification and Validation) process for FMN PCN Spiral 3 and 4 as part of CWIX.

Find out more about FMN:

The FMN framework aims to establish comprehensive structures, effective processes, modern architectures, pragmatic templates, as well as technically/technologically advanced solutions.

MgmtTrp – Monitoring & Control unit

The **control and monitoring unit** for the core network in the operational area with workstations for three administrators.

Key functions include:
- » central monitoring of the entire system network: detecting, logging, reporting and resolving any occurring error conditions
- » central control of the entire system network: configuration, release and change management of all active components and sensors, including provisioning; troubleshooting and problem resolution
- » VoIP and video call management
- » service provider functions: PKI, DNS, NTP, AD, WSUS, SEPM, AAA
- » segmentation firewalling and intrusion prevention system (IPS)

SysTrp, BTuLB & dainBox® SA – flexible network nodes

The **deployable network nodes** form the core network within the operational area, utilizing a wide variety of transmission systems such as microwave transmission, mobile networks, satellites, Carrier Ethernet, internet and others. They also serve as access points with standardized interfaces and protocols for local networks and systems at the respective deployment sites.
- » SysTrp as an climate-controlled cabinet solution with an integrated workstation for administrators.
- » BTuLB and the dainBox® SA are highly mobile due to their size. The dainBox® SA is a deployable and modular multi-service platform based on the SDMN® principle.

These solutions have been extensively field-tested and offer:
- » a dedicated air conditioning system and UPS backup
- » approved encryption of data traffic (VS-NfD or NATO Restricted)
- » provider (edge) routing
- » session border controller
- » support for a wide variety of transmission systems
- » are NATO FMN PCN Spiral 3 and 4 validated (AV&V)

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