



COMBAT **SUPREMACY**

SOLDIER SYSTEMS & NETWORK SOLUTIONS
DIGITALISATION OF THE BATTLEFIELD

TAKING RESPONSIBILITY IN A CHANGING WORLD





NETWORK SOLUTIONS

Digitalisation has long been a normal part of everyday life – even in the military. It is impossible to imagine military operations without electronic equipment and digitalisation helps to provide a decisive **advantage on the battlefield**.

System House Rheinmetall has decades of experience and expertise in the design, development, production and operation of military systems. In close cooperation with the German Armed Forces, **we have been digitalising the “last mile” since 2006**, developing and improving the IdZ-ES Soldier System. Rheinmetall has the unique responsibility to innovatively network soldiers, vehicles, sensors, uncrewed systems and other hardware – to give our soldiers the decisive advantage in combat.

OVERVIEW:

- THE TACTICAL MANAGEMENT SYSTEM TACNET
- THE SOLDIER SYSTEM GLADIUS 2.0
- THE NETWORKED SOLDIER
- THE VEHICLE IN THE NETWORK



THE TACTICAL MANAGEMENT SYSTEM TACNET

Modern battle management systems for fighting troops need to provide functions that go beyond those of ordinary command and information systems, and must be clear and intuitive to use.

In a revolutionary manner, **TacNet** combines **two different software systems in one product family**: firstly, **exchange of information** in the classic map layer; secondly, extended **functions in sensor-effector networks**, which are provided via standard interfaces such as the Generic Inter-Vehicle Gateway. Forward-looking standards such as the **NATO Generic Vehicle Architecture (NGVA)** have also been designed in to the system.

OUTSTANDING FEATURES:

- Holistic **networking**
- **Interoperable** using internationally recognised standards
- **Compatible** with other management systems
- Modern **visualization**
- App-based **expansion options**
- **Scalable**

CLOTHING, PROTECTION AND CARRYING SYSTEM

Combat helmet
Protective eyewear
And much more

MANAGEMENT SYSTEM CONNECTION

C4I connection & vehicle integration

AUGMENTED REALITY

Image intensifier glasses with thermal imaging module
Helmet display

CORE SYSTEM

USB hub
Weapons PTT
Speech set and active hearing protection with PTT
Digital Magnetic Compass
Batteries
Navigation device
Display unit
VHF radio
UHF group radio

WEAPONS

MP7 machine pistol
AG36 attachment
G36 rifle
G82 rifle
MG4 light machine gun
And much more

EQUIPMENT

Base station computer for mission preparation and distribution
Processing of georeferenced maps
Charging options

VISION MODULES

Fire Control Unit
Grenade launcher
Thermal Imaging device
Laser Light Module
IR Night Vision device
Residual light amplifier
Target optics with reflector sight

RECONNAISSANCE EQUIPMENT

Thermal Imaging device
Laser Range Finder
Spotting Scope

THE SOLDIER SYSTEM GLADIUS 2.0

Equipment for infantry forces: Lightweight. Modular. Effective.

Infantry soldiers can expect to perform a **complex range of tasks** across the full spectrum of battlefield missions and scenarios. They operate in difficult and complex terrain, often in extreme climatic conditions. The threat environment can range from irregular forces to peer-on-peer operations against highly equipped opponents in high-intensity conflict.

To be of real value, modern technologies provided to soldiers must make a decisive contribution to **improving survivability, command capability, endurance, mobility and effectiveness in the field.**

The **Soldier System GLADIUS 2.0** delivers on these requirements. It provides the **highest standards** of protection, communication and up-to-date situation reporting for each individual soldier. It is modular, flexible and can integrate with a large number of subsystems thanks to its open system architecture design.

OUTSTANDING FEATURES:

- **Established and proven** system
- **Enhanced ergonomics**
- **Information display in Real Time**
- **Open architecture**
- **Modular and flexible configuration**
- **Battlefield superiority thanks to information advantage**

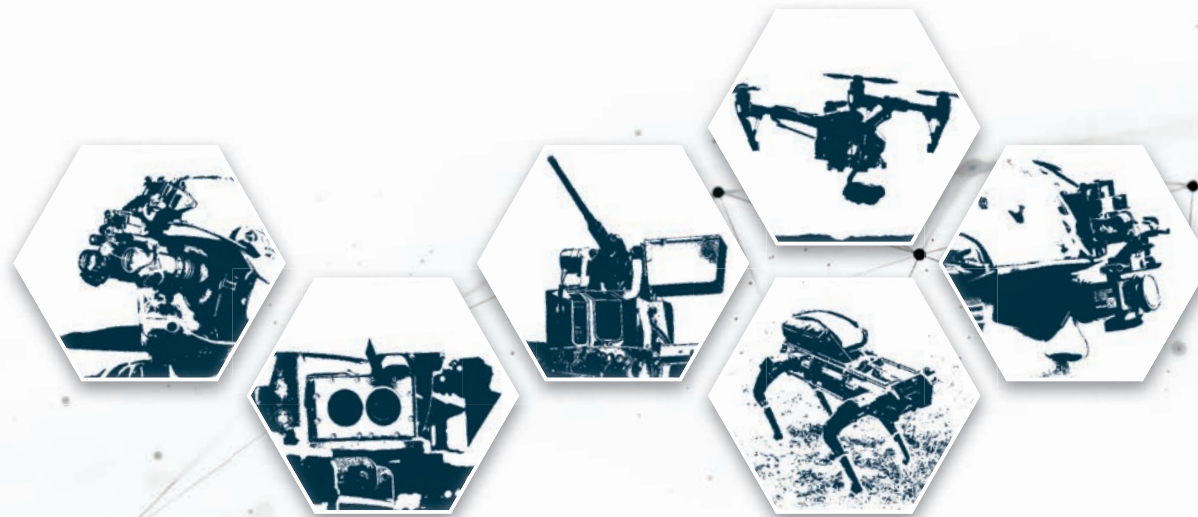


THE NETWORKED SOLDIER

A **comprehensive and uniform picture of the situation** and a high **command speed** provides **the Networked Soldier** with significant advantages and the initiative on the battlefield. Each soldier can act as a sensor for the entire unit. By shortening and **digitalisation of the sensor-to-shooter chain**, networked soldiers can secure critical time advantages. For example, the integration of modern anti-tank weapons with direct target assignment significantly increases the unit's effectiveness.

The integration of modern Uncrewed Vehicles for reconnaissance, direct weapon effects and logistics support tasks promotes **Crewed-Uncrewed-Teaming (MUM-T)** capability.

The Networked Soldier allows for the integration of electrical and optical **reconnaissance equipment, augmented reality** and **night vision** capabilities to help deliver a decisive advantage and contribute to mission success.





THE VEHICLE IN THE NETWORK

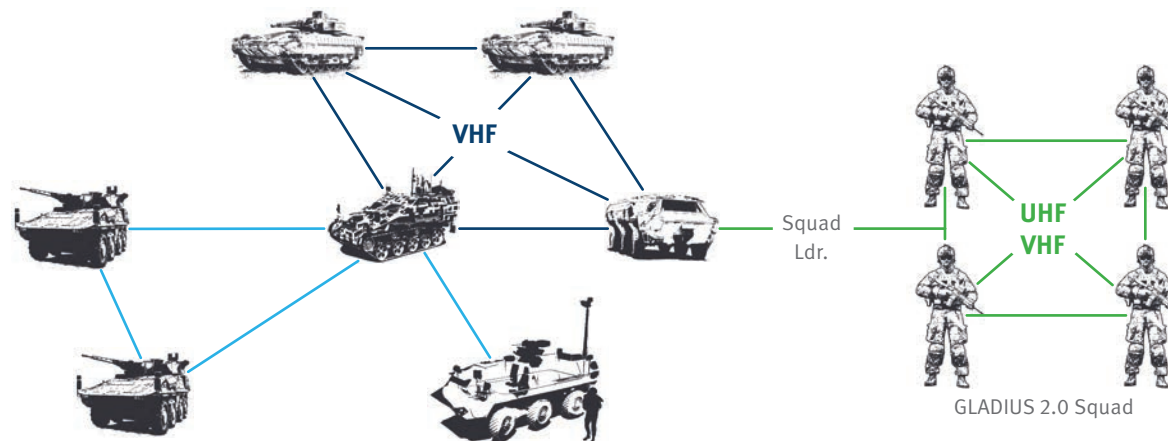
Rheinmetall's armoured and mechanised infantry system delivers **full integration of the vehicle** in the Soldier Network.

TacNet provides the means by which the troop can be networked with the vehicle and higher management levels **without delay**. It ensures each troop member can access vehicle sensors and platform weapons.

By integrating the fighting platform and soldier into one soldier system network, **Combat Power** can be enhanced through greater situational awareness, access to the most relevant data and information that allows for **timely decision-making actions** and a greater chance of mission success.

OUTSTANDING FEATURES:

- **Centralized data exchange** for all soldiers
- **Power supply** and centralized **power management**
- Access to the **vehicle sensors**
- Use of **onboard communication**
- Optimised **onboard space concept**



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