

► ELECTRONIC SOLUTIONS

9 September 2025

Rheinmetall Battlesuite – the interoperable military ecosystem of the future

Modern conflicts are multifunctional, multidimensional and scalable challenges. Rheinmetall therefore proposes a multi-layer approach for interconnected and digitalised combat operations of the future. This integrative concept encompasses human intelligence and creativity as well as artificial intelligence, conventional weapon systems and unmanned systems. A core element for interconnecting all actors and systems is Rheinmetall's new Battlesuite. The new digital platform for networked military systems is designed to enable armed forces to conduct operations with superior effectiveness. Rheinmetall will be presenting its new Battlesuite in detail at the DSEI 2025 trade fair in London.



The ability to interconnect conventional weapon systems with unmanned systems creates a synergistic effect that brings together the best of both worlds – the precision and flexibility of unmanned systems and the robustness and versatility of conventional systems. This enables holistic warfare, in which each system complements the respective strengths of the others and relieves the human operator. Rheinmetall's Battlesuite is a core element of this concept. The Battlesuite acts as a central hub for data flow and decision-making, supported by state-of-the-art AI, powerful network architecture and robust cyber security protocols.

The Rheinmetall Battlesuite as a comprehensive solution

The Battlesuite is based on blackned's Tactical Core – basically the operating system – and cleverly expands it with a theoretically infinite number of available or future applications, similar to the app architecture of a smartphone. The Battlesuite integrates both, products developed in-house by Rheinmetall and applications from strategic partners. This combination creates synergies and guarantees a wide range of possible applications to meet specific operational requirements. The result is a modular yet robust infrastructure that is both, forwards-looking and powerful.

► Key facts

- Rheinmetall Battlesuite - the interoperable military ecosystem of the future
- Core element for interconnected digital warfare of the future
- Integrative concept combines human intelligence and creativity with AI, conventional and unmanned systems
- Constant networking for an up-to-date shared overview of the military situation, faster decision-making and optimal allocation of time, resources and personnel

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The key features of the Battlesuite include:

- Seamless interoperability between heterogeneous systems: Whether old or new, the Rheinmetall solution enables smooth communication.
- Real-time communication in complex scenarios: Improves decision-making for tactical and strategic operations.
- Advanced cyber security mechanisms: A multi-layered approach protects critical data and communication channels.
- The highlights of the Rheinmetall solution are:
- Modular architecture: Flexibility to adapt to different systems and requirements. Open architecture enables seamless integration and interoperability with existing and future systems, increasing both the adaptability and longevity of the solution.
- Government-friendly open code: It offers transparency, security and the ability to adapt systems to specific national requirements.
- AI-supported decision-making: Predictive models enable responsive, data-driven decisions. The AI-based platform acts as a tactical data fog that collects, stores, synchronises and presents data to all applications – regardless of individual applications and the current system and network structure.
- Efficient network management: Ensuring seamless communication in combat by integrating tactical radio alongside IP systems, including adaptation to legacy systems and new radio systems to withstand the challenges posed by enemy electronic warfare (EW). This specifically includes support for narrowband transmission systems in the area of highly resilient communications.
- Approved cyber security solution: Rheinmetall's Battlesuite guarantees maximum protection against digital threats. With state-of-the-art encryption technologies and continuous threat analysis, it reliably protects sensitive data and meets the strict security requirements of national and international standards. This approved solution guarantees security both in stationary operation and in mobile deployment scenarios.
- Multi-security domain support: The Rheinmetall solution is designed to operate seamlessly in multi-security domain environments. By integrating isolated security zones and cross-domain communication, it offers a comprehensive security architecture that meets the complex requirements of modern IT infrastructures. Whether in government agencies, critical infrastructure projects or multinational companies—Battlesuite ensures secure and efficiently controlled interaction between different security areas.
- Cost-effectiveness: Another advantage is the cost savings achieved through shared use of the platform. Instead of adapting each system individually, new functions and technologies can be easily integrated.



The Rheinmetall Battlesuite enables different users to exchange information in real time, thereby generating a constantly updated picture of the military situation. All units on the battlefield have access to the same information, which significantly improves their decision-making capabilities. More resource-efficient use of existing systems allows decisions to be made faster and with greater precision. Time, materials and personnel are used optimally, while the effectiveness of operations is increased. Digitalisation and networking not only strengthen operational flexibility, but also sustainability in resource planning and utilisation.

We look forward to seeing you at booth S9-110 at DSEI 2025!