

03 July 2024

Rheinmetall delivers first simulation system *Ausbildungs-Ausstattung Training Navigation* to the German Navy: Ceremonial handover at the NAVOS in Bremerhaven

In the presence of representatives of the German Navy headquarters, Rheinmetall handed over the first of seven ship-handling simulators *Ausbildungs-Ausstattung Training Navigation* "AATN" to the Bundesamt für Ausrüstung, Informationstechnik und Nutzung der Bundeswehr (BAAINBw) at the Naval Operations School (MOS/NAVOS) in Bremerhaven. The BAAINBw also handed over the system to the Navy, thus giving the authorization to use the system. This is a significant milestone for everyone involved, as it marks the start of the roll-out to the end users, who can now integrate their first simulator into their training operations.

History and challenges in the project

The need to regenerate existing systems and procure new systems in the area of technical navigation training was identified at an early stage. Following the necessary procedures, the naval schools and flotillas defined functional requirements. This resulted in the project "Regeneration AATN".

A key success factor in the implementation was the agile and iterative interaction between the various users and participants in the project, from the design phase to the development and testing phase. This made it possible, among other things, to incorporate important technical changes from other parallel projects (such as RadEA) and, as "pioneers", to realize a construction project on naval property by creating a temporary infrastructure.



Benefits of the AATN

The AATN handed over to the NAVOS is a classroom trainer with 20 student workstations and one instructor workstation dedicated to the training of naval soldiers, which virtually simulates all German Navy ships and relevant sea areas. The NAVOS primarily offers tactical, navigational and radio communications training for future operators of a warship, including trainees from foreign navies as part of exchange programs. The AATN in Bremerhaven enables interdisciplinary nautical training for all naval services throughout all ranks for the approximately 3,000 soldiers who go through the NAVOS every year.

With a focus on technical navigation using electronic chart systems (including the military warship ECDIS "ECPINS" by the Canadian company OSI Maritime Systems, which was selected as part of RadEA) and various radar surfaces, these simulators

► Key facts

- Handover of the first of seven simulation systems ship-handling simulators (AATN) to the Naval Operations School (NAVOS)
- 20 student workstations and one instructor workstation for training naval personnel
- Focus on technical navigation
- Further rollouts in Eckernförde and Warnemünde in 2024

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also offer the opportunity to realistically teach content in terrestrial and astronomical navigation, nautical law, military procedures, ship-handling and

basic seamanship such as maneuvering in port, towing or being towed. At the same time, the simulator meets the high standards and requirements for information security in accordance with the BSI (German Federal Office for Information Security) guidelines.

Rollout and Way Ahead

In addition to the NAVOS Bremerhaven as the first user, the Naval Academy Mürwik (NAVAC) and the naval bases in Wilhelmshaven, Kiel, Eckernförde and Warnemünde will receive their own AATN in different configurations in order to enable a decentralized training.

The rollout of the simulators continues this summer with Eckernförde and with Warnemünde in winter. Rheinmetall is thus increasing its reach and visibility within the training landscape of the German Navy with the aim of providing future Navy crews with a sophisticated and state-of-the-art training.

