

TARANIS

Network-Centric Warfare



Zielknoten	
Zielknotennummer	153
Koordinaten	345 005
Zielkennungsgenauigkeit	3.2
Windrichtung	1-1
Umgebung	H-ha
Zielharte	62-Pa
Zielart	93-Feu
Zielverhalten	010
Anzahl Zielelemente	0300m*030
Ausdehnung	
Wirkungsförderung	VER-vernic
geförderte Wirkung	13:08:16
TOT	

JOINT FIRE SUPPORT

TARANIS is a modular tactical command and control system that coordinates resources and forces from sensor to shooter.

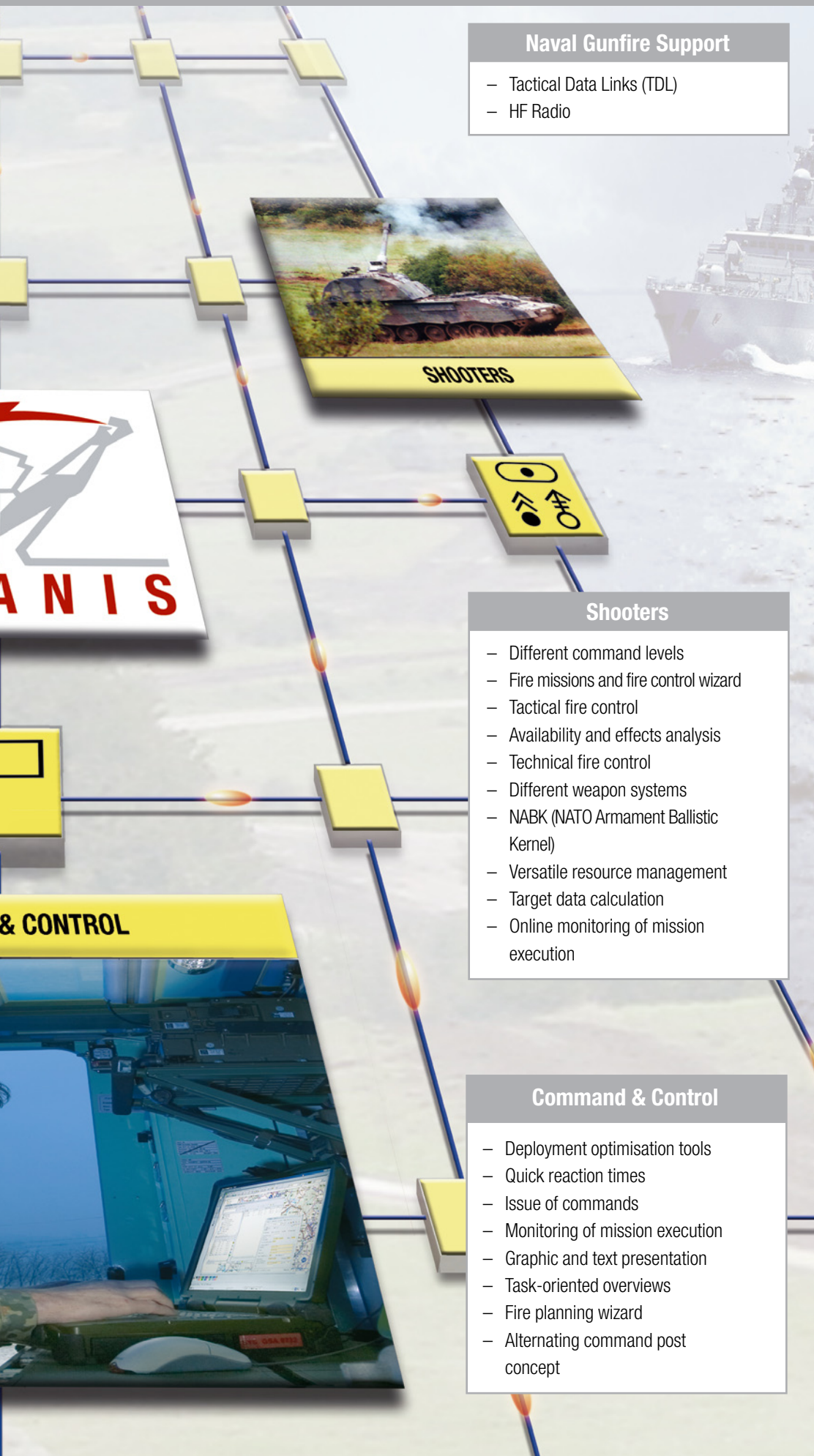
As an integrated C4I system TARANIS fulfils the information, reporting and command requirements of all echelons from an individual soldier to a brigade command post. This network-centric solution supports joint and combined operations with standardised interfaces.

Features:

- ▶ Capabilities for stationary, mobile and dismounted use
- ▶ Deployment-oriented communication procedures
- ▶ Task-specific configurability
- ▶ Scalable command post concept
- ▶ Map/situation display
- ▶ National and international interoperability
- ▶ Modular design
- ▶ Customisable according to specific requirements

TARANIS meets all requirements of Joint Fire Support.





Naval Gunfire Support

- Tactical Data Links (TDL)
- HF Radio

SHOOTERS

Shooters

- Different command levels
- Fire missions and fire control wizard
- Tactical fire control
- Availability and effects analysis
- Technical fire control
- Different weapon systems
- NABK (NATO Armament Ballistic Kernel)
- Versatile resource management
- Target data calculation
- Online monitoring of mission execution

Command & Control

- Deployment optimisation tools
- Quick reaction times
- Issue of commands
- Monitoring of mission execution
- Graphic and text presentation
- Task-oriented overviews
- Fire planning wizard
- Alternating command post concept

The „indirect fire“ comprising fire support by rocket, gun and mortar weapon systems represents the key element of Joint Fire Support.

ADLER II / DVA II is the well proven weapon deployment system for all elements of indirect fire. This system has been realised by ESG and its development has been continued under the name TARANIS by introducing further capability modules.

TARANIS meets all requirements of a weapon deployment system for the Joint Fire Support of the armed forces, as it realizes effectively and efficiently all necessary processes.

The system guarantees a fast and secure universal data transmission between all part systems and at all relevant levels of decision making. An international ASCA interface (Artillery Systems Co-operation Activities) has been integrated to facilitate a close interoperability between the allies, through all levels of command.

TARANIS is also capable to exchange information with the recently introduced Army C2IS and with the other C2 and weapon deployment systems of the Army resolving the differences of various communications media.



TARANIS is designed for mobile, stationary and dismounted use and with optimised communication protocols it supports the rapid and secure transmission of information (data, text, images) through different means of communication (VHF, HF, LAN, modem etc.).

A large number of interface modules ensure interoperability with various national (e.g. HEROS-2/1 Lot 2) and international (e.g. ASCA) C4I, reconnaissance and weapon systems. Other systems can easily be connected through standardised interfaces (e.g. TCP/IP, OLE, XML).

TARANIS can be configured according to specific tasks and therefore used at all command levels. The scalable, alternating command post concept enables command posts to be assembled with a variable number of workstations.

The highly mobile version with a PDA or Tablet PC facilitates the support and command of individual soldiers on the battlefield. In addition to this, the forward observer (FAC, FAG) is able to generate and transmit tactical messages in real-time.

TARANIS has been developed for a standard Windows platform with Intel architecture. The modern, modular software design ensures that it can be upgraded according to specific requirements and is compatible with new standard modules (e.g. NASSS – NATO Armament Shareable Software Suite).

The secure operation of the large number of functions that support the execution of joint and combined operations can be learnt quickly due to the use of a graphical Windows interface with an integrated map/situation component.

ESG Services

Over twenty years of experience in the development of fire control and weapon deployment systems are reflected in TARANIS. ESG offers comprehensive services for the entire system lifecycle:

- ▶ System analysis and design for operational systems, training facilities and maintenance systems
- ▶ Software requirements, design, implementation, post-development support
- ▶ Specification and prototyping of the installation and maintenance kits
- ▶ Development of training systems for users and maintenance staff
- ▶ Training concept and cadre training for users and maintenance staff
- ▶ Interactive Electronic Technical Documentation (IETD)
- ▶ Logistic concepts and planning
- ▶ In-service technical and logistical support

TARANIS capability modules

ESG has developed and realised several systems based on TARANIS modules.

ADLER II

ESG developed the ADLER II command, control and weapon deployment system which is in operation as the central part of the German artillery system. With its new architecture and modern software and hardware platform, ADLER II builds on the experience gained in the development and support of the ADLER I computer network which has been in use for over ten years.

DVA II

ESG developed the DVA II command, control and weapon deployment system for the German Infantry's new mortar combat system. This system enables joint command of artillery (with ADLER II) and infantry forces and creates synergies in the use of reconnaissance components and weapon systems.

ARES II

The German MLRS battery's new fire control system also uses TARANIS components, which were upgraded with special fire control components for specific tasks.