



## TARANIS® SOLDIER

**TARANIS®** Soldier is ESG's solution for lower tactical command levels in highly mobile operations. It is intended for use by individual soldiers in mission areas and provides a seamless connection to the next command level.

TARANIS® Soldier works with smartphones and tablets that run on iOS, Android and Blackberry 10 operating systems, giving dismounted soldiers optimal connectivity to their command with minimal weight and relatively long battery life.

By default, TARANIS® Soldier uses GSM networks for communication, so even future technologies, such as highly mobile cellular networks, are already supported. However, the solu-

tion can also be used with any IP radio devices.

TARANIS® Soldier thus allows foot patrols within a locality to connect quickly to their vehicles and the long-range communication equipment located inside with TARANIS® Battlefield and the corresponding communication equipment (HF, VHF, satellite, etc.).

### Capabilities

TARANIS® Soldier shows dismounted troops their current location on a digital map, an overview of other troop units in the area as well as tactical symbols, chats and messages.

Easy configuration allows users to define virtual radio communication cir-

cuits. Therefore multiple separate virtual networks can be managed on the same infrastructure and direct access is only given to the participants that are required for a specific mission. Communication outside these virtual radio circuits is, of course, also possible.

TARANIS® Soldier is fully compatible with the TARANIS® Theatre and TARANIS® Battlefield command & control systems.

### BENEFITS OF TARANIS® SOLDIER

- ▶ Highly mobile through use of smartphones and tablets
- ▶ Supports GSM communication as well as highly mobile cellular networks
- ▶ Enables individual soldiers to connect easily to combat vehicles
- ▶ Supports common smartphone features such as tracking of team members or group chat

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## TARANIS® SOLDIER MODULES

### Basic Functions & Operation



TARANIS® Soldier was created especially for use with smartphones and tablets of different sizes and manufacturers. As the design follows the styleguides of the iOS and Android operating systems, it is instantly familiar to the “smartphone generation”.

The intuitive user interface puts special emphasis on simple, secure handling as well as clear display of relevant information.

This includes, for example, continuous status monitoring of the communication connection or monitoring of the send and receive status of all exchanged messages.

### Communication



The communication module enables you to connect any number of system devices to each other. A large number of communication channels are supported, such as IP-enabled radio devices or mobile communication infrastructure (such as highly mobile cellular networks) or the networks of commercial providers.

The module is designed to provide flexibility, security and fast data transfer.

The network can be quickly and easily configured by the user without the help of an administrator. Data is transmitted in near real-time and encrypted using procedures approved for classified military use. Sophisticated mechanisms guarantee data consistency on all terminal devices, even if they are added during an ongoing mission.

### Map



The map module gives the user access to a wide range of COTS/MOTS map services, including publicly available mapping services from the internet as well as specially patched map servers.

In addition to online availability, offline maps can also be stored on the handheld device, giving users quick access to map data even at low bandwidths. The user can switch back and forth between online and offline maps with no delay.

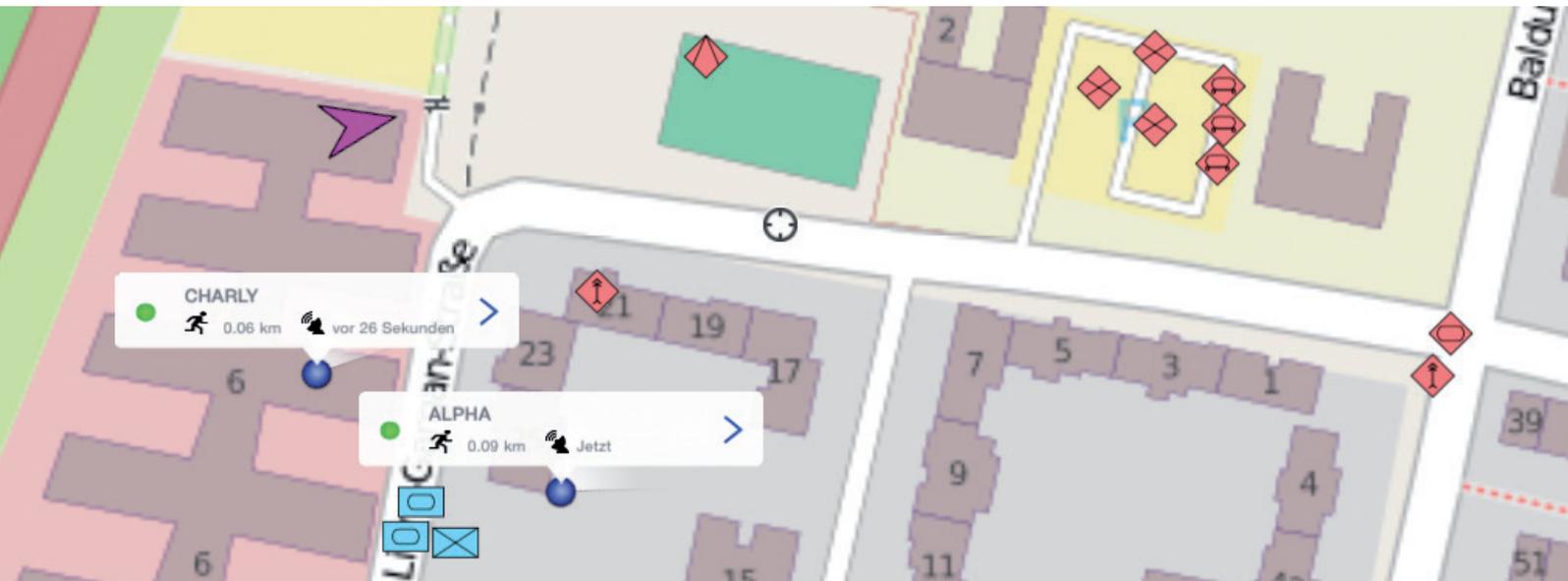
An optional map server is available with TARANIS® Soldier upon request. This map server supports all current map formats and can also provide these to other command & control systems via web services.

### Situation



The situation module enables the user to display mission-relevant information graphically on the TARANIS® Soldier digital map.

Use the symbol generator to create your own situation symbols from the complete APP6 pool and organise and save them into customisable symbol palettes.



## TARANIS® SOLDIER MODULES

### Blue Force Tracking

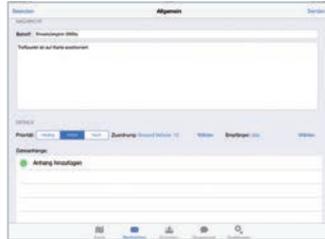


The blue force tracking module enables all participants – right up to operation command – to keep track at any time of all forces involved in the operation.

Based on automatically generated position messages, the module can display position, identifiers, orientation etc. on the map in near-realtime.

In combination with the situation module, users can see a level-appropriate, realtime-capable, role-specific situational picture at any time based on geolocated situation symbols.

### Messages



The message module allows you to create forms and messages, which are transmitted very efficiently via the communication module.

Examples of formatted messages include:

- ▶ MedEvacRequest 9-Liner
- ▶ Target reports
- ▶ Event messages (ambush, IED, demonstration etc.)

Photos, videos or other documents can be attached to the messages.

### Chat



The TARANIS® Soldier chat module allows real-time electronic communication in a form familiar to most users today.

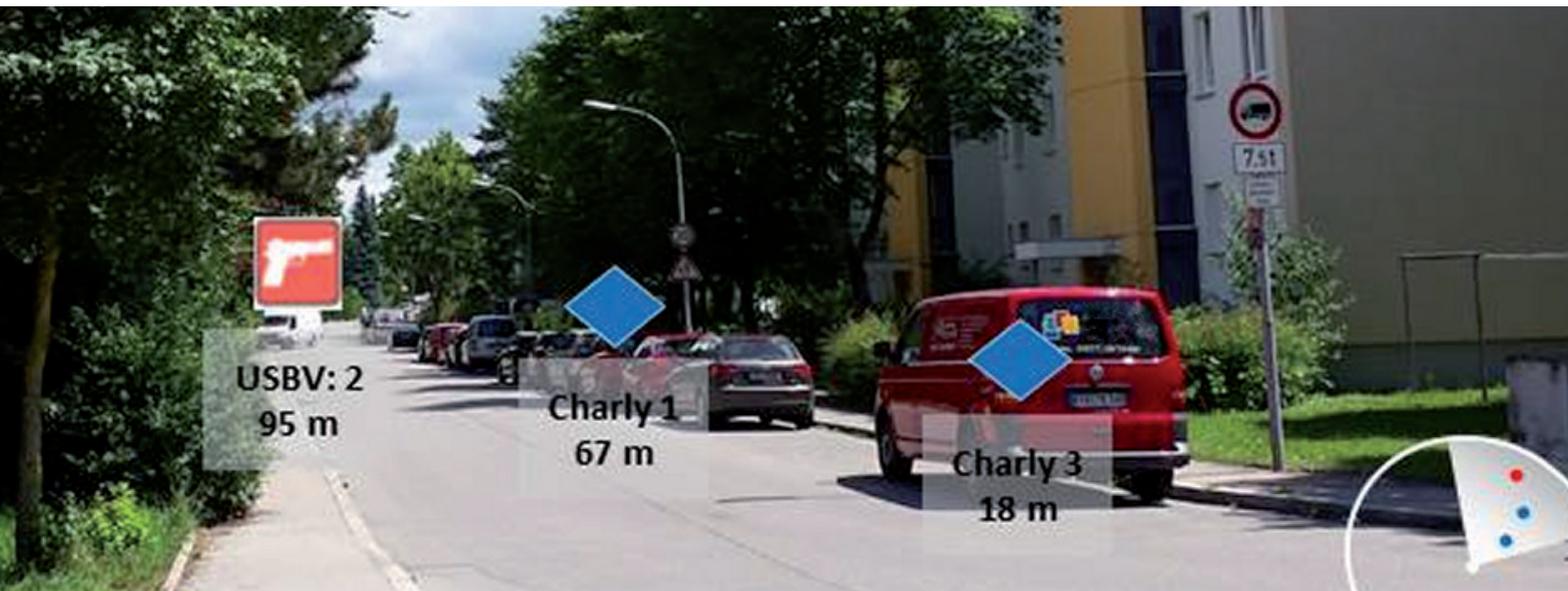
Users can communicate with individual participants via text chat or open their own chat rooms and invite any number of participants in a mission.

### SOS

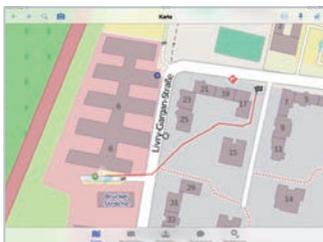


With the SOS module, the user can transmit a distress call with his own current position to all fellow forces at the touch of a button.

The other participants are notified of the distress call through visual and audible alerts. In conjunction with the map and situation modules, the position of the SOS sender is centred on the map with his tactical symbol highlighted in red.



### Navigation

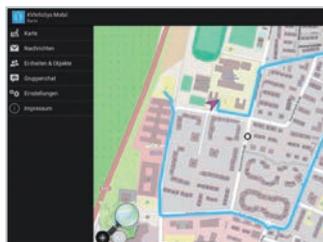


TARANIS® Soldier can be equipped with a navigation module. This enables users to continuously track their own position and movement direction on the map as well as guide themselves to desired locations.

TARANIS® Soldier supports both on- and offroad navigation.

The navigation can also use waypoints imported by the system or placed on the map directly by the user.

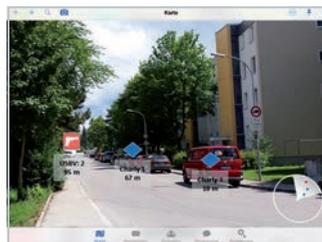
### Track Recording



With the track recording module, TARANIS® Soldier can record, modify and import/export complete route information during movement.

Even while recording is in progress, the user can categorise the route travelled, i.e. assign it various parameters, such as condition, width, surface etc. Recorded tracks can be saved, sent to other systems or exported in standard formats for later navigation by other users.

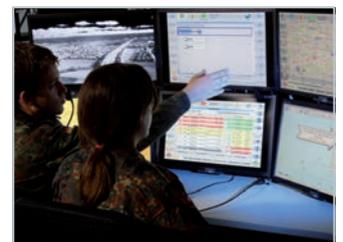
### Interfaces



TARANIS® Soldier provides interfaces to TARANIS® Battlefield and TARANIS® Theatre as well as via XML for quick and easy linking to external systems.

Proprietary interfaces to third-party sensors can also be integrated.

### Simulation & Training



The simulation and training module enables TARANIS® Soldier to be connected to other constructive and interactive simulation systems. Users can, for example, practise or train using TARANIS® Soldier by simulating other participants or entire command levels from their system network.

