

Enforce Tac 2026 | JOINT PRESENTATION | Hall 9-369



**Solutions and Contributions to
Operational Support for Specialized Forces**



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Preface

We live in a time of growing uncertainty and multiple crises. The economy and society are exposed to complex threats from within the country and from outside.

With its ongoing attacks on Ukraine and increasing provocations/attacks against European countries, Russia is becoming the greatest external threat to our continent. Targeted disinformation campaigns by certain groups and a growing willingness to use violence within the population aim to destroy our social cohesion and establish autocratic structures.

If we want to counter this, numerous efforts are needed in various areas of our society. This also includes equipping police forces with modern technologies in a timely manner so that they can effectively combat crime and terrorism.

At our joint stand, we will present solutions and systems that can contribute in particular to supporting special forces in their daily fight for security and order.

Section 1 of this brochure provides a brief overview of the geopolitical situation, national challenges and the changing conditions for special forces as well as an example of an operational scenario.

In Section 2, we present systems and solutions of our partner companies.

Section 3/4 provides a brief overview of the participating companies/contacts.

We hope that our brochure will offer you suggestions for your work in optimizing current and developing future solutions.

Norbert Frank
griffity defense

1. Introduction

1.1. Geopolitical Situation and National Challenges

The geopolitical situation is becoming more complex year by year, and lately even month by month: the war in Ukraine, Russia's threats and hybrid attacks against the West, conflicts in the Gaza Strip, China's claims to Taiwan and its hegemony in the Pacific, the rise of nationalism in various countries, the US claim to Greenland and its intervention in Venezuela, the struggle for resources, and increased economic pressure. The law of the jungle seems to be gaining more and more precedence over a rules-based order.

Germany, too, must prepare for changes and for attacks from both within and without the country. Increased cybercrime, attacks on critical infrastructure, and internal conflicts that threaten democracy are commonplace today. The ever-increasing manipulation possibilities offered by social media, the growing use of AI, and drones are changing threats, making them more intense and dangerous.



The **Federal Government's National Security Strategy** and the **Defense Policy Guidelines** are signs of a strategic rethink and changes in strategic action in Germany.

Measures already taken/initiated in the political sphere include the KRITIS umbrella act for critical infrastructure protection (KRITIS-Dachgesetz) and the Operations Plan Germany (OPLAN).

The **KRITIS umbrella law** obliges companies nationwide and across sectors that are essential for the overall supply in Germany and supply more than 500,000 people to meet minimum standards in the area of security and resilience, such as emergency plans, property protection, fail-safe operation, risk analyses and assessment, and stipulates reporting obligations for incidents.

The following sectors are affected: energy supply, transport and traffic, finance and insurance, health, drinking water supply, wastewater, waste disposal, information technology/telecommunications, food, space and public administration.

As a core military element of overall defense, the **Operations Plan Germany** serves to ensure Germany's ability to act in the event of attack or crisis and regulates civil-military cooperation.

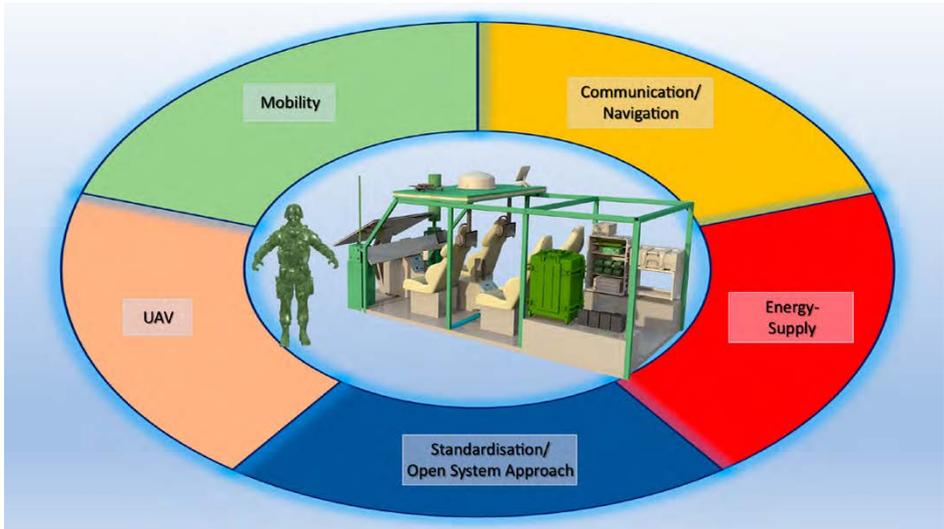
1.2. Changed Conditions for Special Forces

Technological change is accelerating. Accessibility almost anywhere in the world, the exchange of images and videos in seconds, new perspectives through drones, services and apps for a wide range of needs, all at affordable costs for many people, are now indispensable parts of daily life and make life easier.

Police and military special forces must adapt to these circumstances ever more quickly, both organizationally and technically, in order to successfully carry out operations today and in the future.

Phases	Topics of permanent adaption
Mission Planning	<ul style="list-style-type: none">• Inclusion of all relevant, available sources, including social media• Increased networking with neighboring organizational units• Use of standards, interfaces, and networking in both organizational and technical areas
Deployment Teams	<ul style="list-style-type: none">• Mission-specific teams with appropriate equipment, quickly adaptable• Coordinated and integrated• Mobile and modular• Secure communication among teams and with higher authorities
Equipment	<ul style="list-style-type: none">• Dynamic procurement• State-of-the-art or better• Use of AI, drones, and counter-UAVs• Modular, networkable systems with backup• Inclusion of innovative approaches
Training and Capability	<ul style="list-style-type: none">• Dynamic training (train as you fight)• Use of simulation systems• Virtual Reality (VR) and Augmented Reality (AR)
Cooperation	<ul style="list-style-type: none">• Intensified cooperation (across organizations and countries, military/civilian)• Clear responsibilities• Increased cooperation with industry for the (further) development of mission-optimized systems

At our joint booth, we will be addressing the following topics in particular with the solutions on display:



Source: griffity defense

Mobility

Response teams must be able to arrive at the scene quickly and with the appropriate equipment. Their vehicles should therefore be easy to equip with the necessary equipment. Instead of fixed installations, we recommend flexible racks and mission modules for command vehicles, e.g., for reconnaissance systems, communication equipment, and power supply.

Communication

Communication links are an easy target for attacks. Public networks can be shut down by sabotaging equipment, and radio connections can be severely disrupted or interrupted by jammers. Therefore, it is important to know what is happening in the radio spectrum so that countermeasures can be taken if necessary. Furthermore, communication must be guaranteed even in difficult situations, i.e., alternative communication channels/technologies must be available so that the team can continue to operate. To this end, it is also necessary to know where each emergency responder/team is located, even in cases where GPS is no longer functioning reliably.

Comprehensive network planning that considers as many eventualities as possible is therefore essential. The PACE* method, originating in the USA, provides a good basis for creating communication plans, but needs further development in light of the emergence of advanced jamming and detection methods.

PACE stands for:

- **Primary:** best method of communications between the persons involved
- **Alternate:** usual, but not quite optimal communication
- **Contingency:** Not as fast/easy/cost-effective as previous communication, but capable of fulfilling the task.
- **Emergency:** last resort in case of emergency

Power Supply

Nothing works without electricity. Operational teams are increasingly relying on electronic systems that need to be powered.

The defense sector is benefiting from the significant investments made in recent years in the civilian automotive industry to achieve high energy storage in small packages. Today, there are numerous mobile, rugged systems that reliably deliver power even where it is needed.

Drones

Drones have become an integral part of reconnaissance. However, this also raises questions, for example regarding safety, technical integration into legacy systems and existing processes, or legal requirements. These issues can be addressed by comprehensive drone software specifically tailored to the needs of public safety organizations.

Standardisation / Open Systems Approach

The high level of technology, constantly increasing demands, and the ongoing development of equipment for modern security and armed forces necessitate a rethinking of system design. As a result, more and more functions are being implemented in software (virtualization).

To promote interoperability, scalability, rapid modernization, and above all, cost efficiency in hardware, there is an increasing reliance on open, modular architectures.

Examples include:

- CMOSS (C5ISR/EW Modular Open Suite of Standards)
- SOSA (Sensor Open Systems Architecture)
- MORA (Modular Open RF Architecture)
- VITA 65 / OpenVPX (open hardware standard for embedded systems)

1.3. Fictional Operational Scenario – Special Forces Raid in Anti-Terror Situation

In terrorist situations in particular, it is important to act quickly and in a coordinated manner. The regulated exchange of information between the various parties involved (including rescue services, fire departments, and technical relief services) must be ensured, as must the technical and personnel readiness (functional reliability) of the police, in order to carry out operations successfully.

Situation

A friendly intelligence service has reported that individuals who have been under observation for some times have travelled to Germany. There are increasing indications that they are planning a terrorist attack here.

Using the suspects' mobile phone data, the police can determine their location and order the monitoring of their communications (via IMSI catchers). Since this provides indications of an imminent attack, a police raid is ordered.



Preparation for the intervention (Source: griffity defense)

Preparation

The task force is assembled, reconnaissance information is gathered and processed. The more information available, the more targeted and less risky the operation can be planned. Factors taken into account include the location/surroundings of the intended target, the suspects' lifestyle habits, intelligence gathered through HUMINT, and videos/images from drone surveillance and local cameras.

Intervention

The actual operation begins with the convoy leaving its base. The area is cordoned off by security forces, and observers and marksmen take up their positions. A sniper takes out a terrorist guard after he threatens the team's own forces. The assault team advances, the breacher blows open the door to the apartment, the team enters, and after a brief exchange of fire, the suspects are subdued and taken to the vehicle and the scene is then secured.

Actors and emergency personnel, such as rescue services, are leaving.

2. Solutions and Products at a Glance

As security situations change, so do the deployments of military and police special forces, and consequently, the requirements in the following areas:

- 2.1 Platform Integration and Modularity
- 2.2 Situational Awareness / Reconnaissance Support
- 2.3 Command control
- 2.4 Networking / Communication
- 2.5 Power Supply
- 2.6 Networking and Integration of Dismounted Forces
- 2.7 Transport and Packing Solutions

2.1. Platform Integration and Modularity

It's useless if a system is excellent but not properly integrated into the overall system and therefore cannot reach its full potential. When integrating into mobile platforms, it's crucial that systems operate with low energy consumption and are compact. Given the multitude of new systems and sensors, it's increasingly important that they have standardized interfaces and are easily interchangeable.

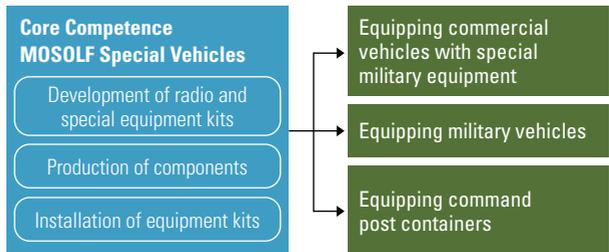
Standardization initiatives such as NGVA (NATO Generic Vehicle Architecture) or the American-driven SOSA (Sensor Open Systems Architecture) and MOSA (Modular Open Systems Approach) projects will likely play a more significant role in Europe in the future. Their implementation promotes interoperability, rapid upgrades throughout the lifecycle, innovation, and also helps reduce costs.

Equally important is the availability of experienced and innovative integrators who understand their business, know how components fit together, and understand the necessary considerations.

Vehicle Integration (B&T)

As a specialist in special vehicle construction, B&T Solutions offers complete solutions from a single source. Whether it's command vehicles, command and control centers, installation of equipment integration into military vehicles or command post containers.

The portfolio includes conversions and upgrades as well as comprehensive solutions in the field of radio and component manufacturing. From simple adapter cables and complete conversion kits to complex systems for power supply, audio, video, or IT, B&T offers individually tailored concepts.



Depending on requirements, we equip vehicles directly on site, supply the technical equipment for self-assembly, or carry out work directly „in the field“ with our mobile service team.



C3Flex –Communication System for Vehicles and Dismounted Forces

The C3Flex system was specifically designed for operations where small military or police teams are operating independently and need to communicate quickly and easily with each other and, if necessary, with other organizations involved in the operation. There are versions for vehicles and dismounted forces.



C3Flex variants e with energy.case and SatCom/HF (Source: griffity defense)

The C3Flex core consists of a case containing:

- A communication node that establishes the connection between the various handheld devices used by emergency responders (e.g., V/UHF, TETRA, TACSAT), and provides WLAN and, if necessary, connectivity to long-range communication systems (HF, SatCom)
- Slots for handheld radios of various technologies and manufacturers
- Space for an additional manpack-sized device, e.g., an HF radio for establishing long-range communication
- A powerful tablet PC with a docking station for configuring system components and as a server for, e.g., command and control systems, feeds from unmanned systems, or sensors/detectors
- Generic amplifiers (20 or 50W) that are installed directly in the case (dismounted version) or, to save space, in the antenna bases on the vehicle (vehicle version) to increase the operational range around the vehicle

Rugged Deployable Chassis according SOSA Standard (ELMA)



Elma Electronic has developed a rugged, mobile chassis for use in harsh environments. The chassis offers modularity and flexibility, supporting the entire system lifecycle – from initial concept and lab development to qualification and full platform deployment.

The chassis is designed for the latest 3U VPX backplanes with SOSA™ standard, as well as other 3U architectures such as CompactPCI and CPCI Serial, and custom cards. Both air-cooled and conductioncooled cards can be housed in the card cage. Airflow is front-to-back through the chassis. Customizable front and rear I/O panels allow for individual interface configuration for platform or lab operation.

Behind the backplane, there is ample space for 80 mm RTM cards, backplane cables, or connector aperture module connections in a SOSA™-compliant backplane. Front and rear connectors are customizable for any application and include GVA-compliant options. The chassis is available with various integrated chassis management options, including a SOSA™-compliant management interface.

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2.2 Situational Awareness / Reconnaissance Support

In many cases, knowledge of the enemy's strength, intentions, equipment, and morale played a decisive role. A complete situational awareness picture, ideally generated in real time, contributes significantly to the success of an operation. Modern technologies have led to considerable progress in this area in recent years.

Total Drone Software Ecosystem (DroneControl)

DroneControl, a European company, has created THE TOTAL DRONE SOFTWARE ECOSYSTEM specifically tailored to the needs of public safety organizations.

- The software replaces native drone software (e.g., DJI), thus offering a high level of data security and operational independence.
- Integration into existing command and control center workflows is fully possible.
- The drone can be controlled on-site or from a central location.
- The encrypted live stream can be accessed via a web portal with a latency of less than 200ms.
- Data is stored on partner servers in accordance with applicable regulations.
- Video and image data generated during operations are automatically uploaded directly to the portal, along with flight and operational data (data security in case of drone loss/evidence security).
- Immediate geolocation/highlighting of areas of interest on the screen.
- Automatic management function adaptable to specific requirements minimizes administrative effort.



Source: DroneControl

Radio Surveillance and Reconnaissance (NARDA)

Tactical radio monitoring and reconnaissance, including passive drone tracking or emissions control of friendly troops on the battlefield, in border control scenarios, and for intelligence applications, require reliable, easy-to-use radio direction finders. This also enables covert operations, if necessary. As a COTS (commercial off-the-shelf) system, SignalShark® offers efficient support for monitoring, analysing, and securing the relevant frequency spectra. Its open platform architecture makes SignalShark® highly flexible in adapting to changing operational scenarios.

From the extensive portfolio of NARDA Safety Test Solutions, we will be presenting at EnforceTac 2026:



SignalShark® Real-time remote analyzer for the detection, analysis, classification, and localization of RF signals between 8 kHz and 8 GHz. Supports automatic bearing finding (AoA - Angle of Arrival), TDoA (Time Difference of Arrival), and hybrid bearing finding. Features a Windows 10-based open platform for third-party applications and is available in various form factors (desktop, 19" rack mount), making it ideal for remote control applications.



SignalShark® Handheld device for mobile and stationary use. Touch screen, real-time spectrum analysis on-the-move, integrated Python for creating custom applications. Battery life 3 hours (nominal), hot-swappable battery pack.

Weight: 4.4 kg, Dimensions: 231 x 333 x 85 mm



SignalShark® ADFA 2 – Automatic antenna in the frequency range of 10 MHz to 8 GHz. Fully automatic digital-to-analog (DTA) system that translates signals from multiple antenna elements into a single-channel DTA signal and can be mounted on a tripod, an antenna mast, or on a vehicle roof using magnetic adapters.

Position, Navigation & Timing (PNT) (iMAR Navigation)

The availability of global navigation satellite systems (GPS, GALILEO, etc.) can no longer be taken for granted on the modern battlefield. iMAR Navigation GmbH has been addressing this challenge for many years. Our robust sensor and system solutions enable highly accurate positioning, orientation, and time synchronization (timing) even when GNSS is unavailable, ensuring that our users can carry out their missions reliably.



iPRENA is a family of highly accurate, ring-laser–based strategic navigation systems optimized for military land vehicles and weapon systems. iPRENA systems are successfully deployed worldwide in military applications and provide fully autonomous localization, orientation, and time synchronization reliably over long periods. iPRENA is not subject to ITAR regulations (iPRENA-III A, -III, and -IV are subject only to dual-use or defence export controls, depending on configuration).

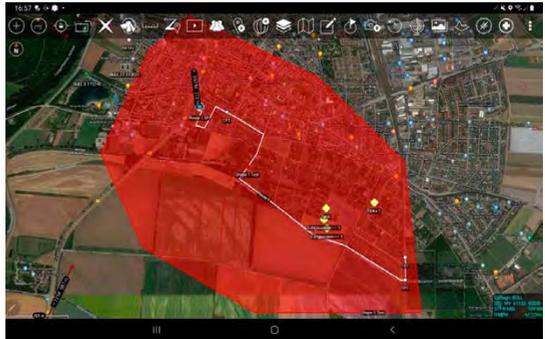
See also **iTHESEUS** Indoor Navigation under 2.6.

2.3. Command Support

Especially in complex situations, leadership is inherently important to effectively manage the individual organizations and actors.

Command & Control System **ATAK (Andoird Team Awareness Kit)**

Originally developed by the US Air Force Research Laboratory (AFRL) as a simple situational awareness tool for small teams, ATAK has become widely used for operational coordination worldwide, primarily due to its open architecture, which allows for the quick and easy integration of useful applications and new technologies via plugins. Teams can use it to communicate over cellular networks, mesh networks, or satellite connections, even in challenging environments.



Example Situational Awareness (Source: griffity defense)

We're demonstrating ATAK on the **Panasonic TOUGHBOOK**.

Command and Control System of German Special Forces (**SE-COM**)

Special forces in Germany rely, particularly in cross-border and interagency operations, on the SE-Netz/EKUS command and control system, which has been continuously developed jointly by security authorities and Fraunhofer IVI since 2013. The currently ongoing **SE-COM project** aims to ensure that the SE-Netz/EKUS technology functions securely and reliably in the broadband digital radio network for public safety organizations (3GPP LTE/5G compliant) and to enhance it with additional capabilities such as push-to-talk (PTT) and alternative transmission methods like SatCom.



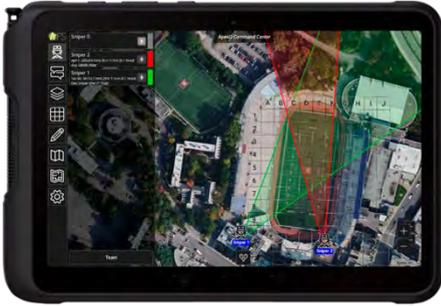
Use of SE-Netz/EKUS in operation (Source: Fraunhofer IVI)

AFS® – Operational Support for Snipers and Observers (Apex0)

The AFS® (Apex0 Firing System) enables snipers and observers to prepare for missions, calculate highly precise firing solutions, analyze results, and control the impact of weapon fire on ballistics. As the only firing system of its kind, it learns from its user: the more frequently it is used, the more precise it becomes.

The **APEX0 AFS® Command Center**, accessible via smartphone, tablet, or PC, is the perfect complement for monitoring the situation and coordinating necessary actions.

The exchange of encrypted data and text messages between AFS® shooters and the AFS Command Center takes place via Wi-Fi, radio, or cellular network.



Example for Situational Awareness (Source: Apex0)

Additional features:

- Real-time GPS positioning for AFS® shooters
- Visualization of the firing/observation sector for each AFS® shooter/observer
- Tracking of weapons used by AFS® shooters
- Real-time target assignment
- Shooter status display
- Etc.

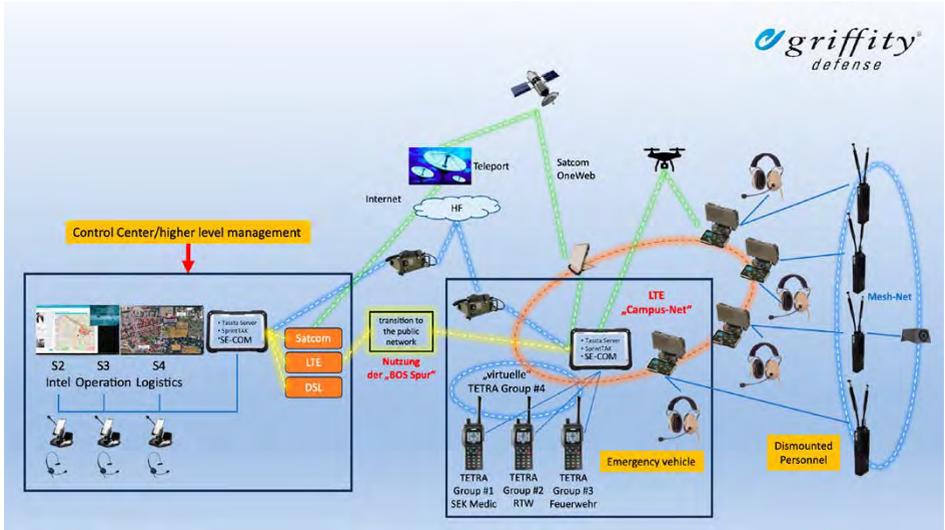
TOUGHBOOK Laptops und Tablets (Panasonic)

The 10.1" TOUGHBOOK G2 tablet with Windows 11 was designed for use in the harshest environments (IP65, MIL-STD 810H).



With a battery life of up to 15 hours and optional hot-swapping, a sunlight-readable outdoor display that can be operated with gloves and in the rain, optional 4G/5G capability, and numerous customization options, it is a reliable COTS device for any application. Thanks to an optional attachable keyboard and diverse vehicle docking options, including military-grade connectors, it can be adapted for a wide range of applications in both industrial and military environments.

2.4. Networking / Communication

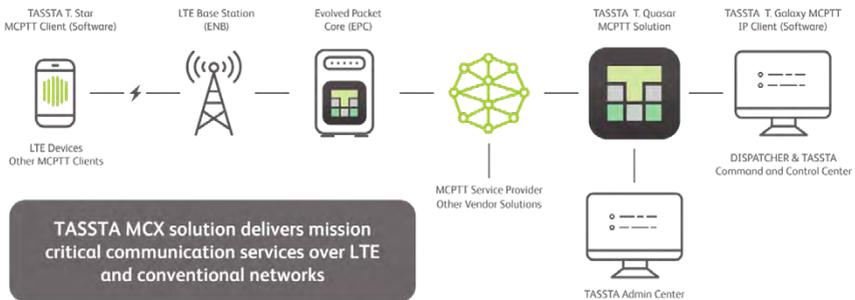


Closely linked to the topic of mobility is the networking of the operational units and thus the communication between them and with the base.

Firstly, stable and secure communication is essential, meaning that alternative communication options must be available throughout the entire operation. Secondly, the demand for bandwidth is increasing, for example, due to cloud computing, AI, and the increased use of sensors and detectors.

Mission-Critical Communication over LTE and Conventional Networks (TASSTA)

TASSTA's Mission-Critical (MCX) solution provides mission-critical communication services over LTE and traditional networks. It offers secure, reliable, and resilient communication for government and public safety services, as well as general commercial applications.



The TASSTA MCX solution includes a comprehensive suite of services that are fully compliant with the 3GPP cellular specifications.

Mission Critical Push-to-Talk (MCPTT): PTT group calls, such as group emergency calls, priority group calls, broadcast calls, and the organization of dynamic group compositions and individual call functions, including emergency call priority.

Mission Critical Video (MCVideo): Group video call via PTT (like MCPTT)

Mission Critical Data (MCData): Service for mission-critical data operations. MCDATA provides, among other things, a text messaging service (Short Data Service, SDS). In addition, MCDATA offers file transfers, which, while theoretically available using narrowband technologies, reach their physical limits with large data volumes and high bandwidth requirements.

The high data security of the 5G standard can be used for all features in the areas of MCPTT, MCDATA, and MCVIDEO – including an encryption option.

Beyond PTT, TASSTA offers further applications such as geofencing, indoor localization, and bridging to other radio systems.

5G Campus Networks (CampusGenius)

CampusGenius offers 5G solutions that give organizations complete control over their connectivity. At its core is the GeniusCore, a 3GPP-compliant 5G SA core that powers private networks for mission-critical public safety operations.

GeniusCore is:

- A secure, efficient, and easy-to-use broadband communications platform
- Scalable to meet the communication needs of a dozen users to several thousand
- Deployable as a backpack, in a vehicle, or for networking in field camps
- With data rates exceeding 300 Mbps per user

When public networks fail or become overloaded during emergencies, GeniusCore ensures dedicated, always-on connectivity for first responders.

Because the system operates independently of commercial network operators, your communications remain secure and functional even in challenging environments.

With the **GeniusKit**, we showcase a deployable, robust broadband communications solution in a case:



- Self-sufficient, backhaul-capable network for field camps or deployed units
- Range up to 400m
- For up to 30 users
- Dimension: 390 x 478 x 194 mm

Starlink Mini (B&W)

The B&W starlink.case mini combines compact power supply with secure transport and protection for SpaceX's Starlink Mini system – robust, waterproof (IP54 when closed), and ready for any mission.

With up to 24 hours of self-sufficient operation, the starlink.case mini reliably powers SpaceX's Starlink system – wherever conventional infrastructure is lacking. Thanks to its custom-designed accessories, the starlink.case mini can also be worn as a backpack or powered continuously off-grid with a solar panel.



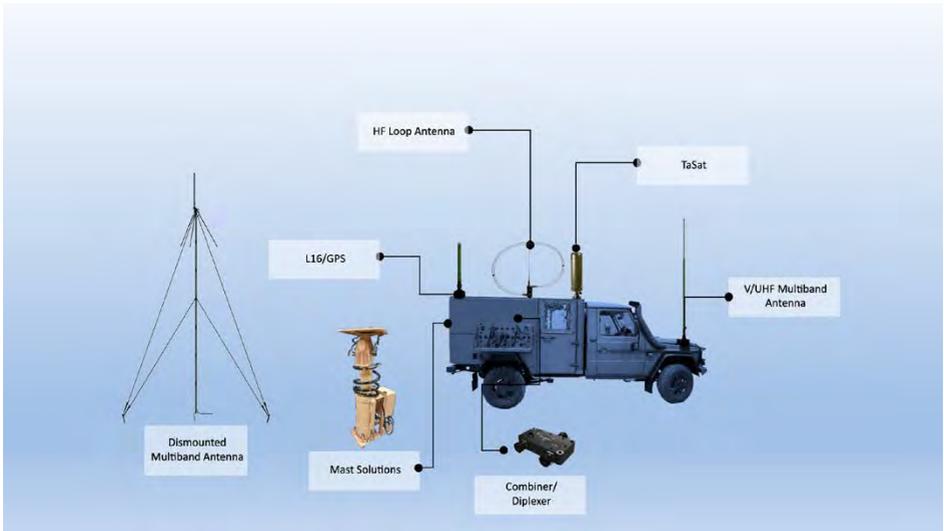
- Complete independence from the power grid thanks to an optional solar panel for self-sufficient continuous operation
- Reliable power supply through an integrated battery system – even under extreme conditions
- The B&W starlink.case securely protects your Starlink Mini system: The housing is made of flame-retardant material according to UL 94 V0
- Ready for use in just a few steps – ideal for spontaneous deployments
- Plug-and-play: All components are securely integrated, including charging and connection options
- Designed for field applications, disaster relief, security forces, or military use

Antennas and Masts (Comrod)

Every radio transmitter and receiver requires an antenna. With the increasing number of radios and the growing use of multi-channel radios, the number of antennas on vehicles and shelters has steadily risen.

Integrating antennas onto a limited platform area while maintaining antenna separation to preserve performance is one of the biggest challenges in modern communications. Comrod offers multi-band antenna solutions along with passive or active antenna combiners for connecting multiple transceivers to a reduced number of antennas. This antenna sharing reduces co-site antenna interference and distortion.

While maintaining their previous performance, the advanced dual-band, tri-band, and broadband antenna solutions meet new waveform requirements. Most products are available with integrated L1/L2 GPS antennas.



Example of an optimized antenna configuration for a command and communications vehicle (Source: griffity defense)

In addition, Comrod also offers a wide range of sectional and telescopic masts, from portable five-meter masts to heavy 34-meter-high masts.

2.5. Power Supply

Small Portable Battery Systems (bebob)

The German battery manufactory bebob develops and manufactures high-performance, versatile, modular, and robust mobile energy storage solutions for the security sector, especially for:

- Special forces
- Drone and robot systems (UxV – UGV, UFV)
- Communication systems

These small, intelligent batteries feature protective electronics, integrated battery management systems, and communication capabilities for safe, reliable, and high-performance operation with maximized service life, even in the most demanding applications.

From our extensive portfolio, we present:

B-Mount battery family – B-Mount is a multi-voltage interface developed by bebob, which has established itself as an open, manufacturer-independent industry standard.



- Rechargeable high-performance lithium-ion batteries
- Voltage: 14.4 V / 28.8 V
- Capacities from 86 Wh (B90d) to 475 Wh (B480d)
- 5-stage capacity indicator
- 94 x 144 x 39-115 mm; 0,65-2,36 kg (B90d/B480d)
- Open data transmission protocol (accessible to other manufacturers)
- Optional hot-swap buffers allow for extended runtime without interruption

Vmicro battery family – high performance in ultra-compact and lightweight design



- Capacities from 43 Wh (V45microd) to 238 Wh (v240microd)
- Micro-V-Mount
- 75 x 101 x 32-97 mm; 0,33-1,18 kg
- Interfaces: USB-C / Twist D-Tap
- Hotswap battery with multiple outputs available (MLmicrod) for uninterrupted power supply

Vmicro Powerbanks – for Universal Power Supply



The bebob powerbanks are conceptually based on the Vmicro family and are available with the same capacities (V45microPd to V240microPd). They can be used as universal energy storage solutions for simultaneously charging or powering multiple device types via the USB-C output – such as radios, GPS units, drones, tablets, and more. They also serve as a reliable backup when primary batteries are depleted or defective.

B&W energy.cases

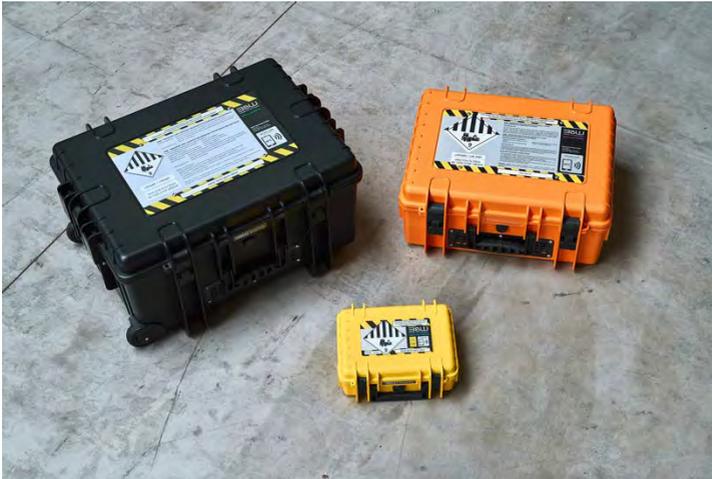
B&W's energy.cases are mobile power supplies designed for the toughest requirements, whether 230 V mains power or 24 V DC is needed. These compact and emission-free power sources can be charged with a power adapter, a truck or car charging cable, or via solar panels, and are equally suitable for continuous stationary operation and changing mobile applications.

Variations see:



Transport / Storage Cases for Batteries

B&W battery.cases are the ideal solution for the safe storage and transport of intact and defective lithium batteries. They are robust and easy to handle thanks to their inner metal protective compartment. The innovative design of the B&W battery.cases is registered with the German Patent and Trademark Office. The cases are tested and approved as packaging according to packaging regulation P 908 and are therefore suitable for transporting intact and defective lithium batteries on public roads.



2.6. Networking & Integration of Dismounted Forces

Regardless of the conflict or scenario, communication is essential in every military and police environment. The ability to communicate effectively during operations determines the success or failure of any mission.



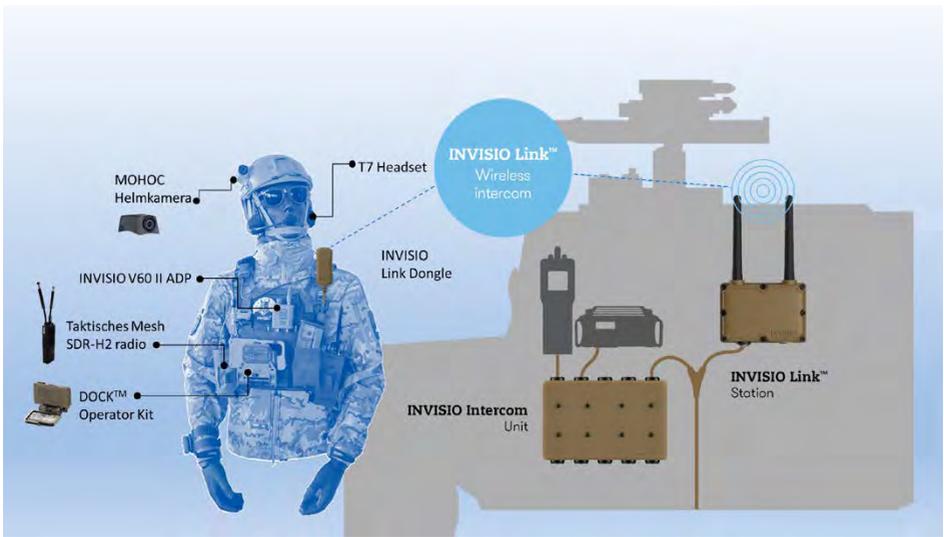
Vehicle Integration, Mission Modules and Network Integration

Communication systems are becoming increasingly important for individual soldiers, as they now also allow the integration of (personally worn) sensors, detectors, and command and control devices via a central hub. The better these components work together, the greater the impact on the individual soldier's safety and combat effectiveness.

In the future, soldiers will also increasingly rely on unmanned systems such as UAVs and UGVs and will be able to obtain additional information for mission accomplishment through the use of VR/AR headsets.

Imtradex as Integrator of Systems for Emergency Response Units

Imtradex increasingly positions itself as an integrator of command and control solutions and a supplier of components for military and police forces. The portfolio is constantly expanding and now includes integrated communication solutions with the capability to incorporate new applications such as command and control systems, sensors, drones, etc.



The model on our stand is equipped with:

- MOHOC Helmet Camera
- T7 Headset with Voice Pick-Up Technology
- Invisio V60 II ADP Control Unit with the ability to combine audio, data, and power
- Invisio Link (dismounted force-vehicle communication)
- Tactical Mesh SDR Radio from DTC
- DOCK™ Operator Kit (integrates communication, command, and control equipment from various manufacturers into a compact, scalable, and body-worn solution)

Indoor Navigation and Localization for Emergency Forces (iMAR Navigation)

The localization and guidance of walking or running individuals—or groups of individuals—inside buildings or in environments without GNSS reception, where the operational team cannot rely on GNSS or other infrastructural aids (e.g., Wi-Fi or persistent visually recognizable structures), has remained a nearly insurmountable challenge despite intensive global research.

Our system **iTHESEUS** is currently undergoing further development following numerous successful trials. Customer-specific adaptations are therefore possible at any time.



A small foot-mounted unit is attached to the shoe. The design and architecture of iTHESEUS are based on iMAR's many years of experience with inertial sensors and high-precision inertial algorithms across all domains—on land, at sea, in the deep ocean, underground, in the air, and in orbit. iTHESEUS enables fully autonomous person tracking with sub-meter accuracy for missions in which no infrastructure may exist anymore. The operational range and duration are unlimited, and

accuracy is typically better than 1% of the distance travelled.

2.7. Transport and Packing Solutions (B&W)

When it comes to protecting your equipment, B&W Cases are the right choice. These durable cases offer ultimate protection and top performance, even under the toughest conditions.

The portfolio is comprehensive, ranging from customizable tool cases to battery and mobile connectivity products – your equipment is protected.

Example: Weapon Chest

- Case and gun cabinet in one
- Configurable interior (flexibly adapts to different weapon sizes and instruments)
- Meets legal requirements for firearm storage (removable lid allows all weapons to be seen)
- Secure and protected transport, stackable „like Lego bricks“



See also 2.5. Transport/storage case for intact and defective lithium batteries

3. Participating Companies



ApexO Inc.

ApexO Inc. is a company specializing in ballistics engineering and high-precision trajectory simulation software for the defence, security, and law enforcement markets. We also offer ballistics consulting services, technical training, and product resale.

In addition to consulting and training, ApexO develops customized IT solutions for the defence and security sector.

Its flagship product, AFS®, is a high-precision ballistic simulation technology available as a software/module for integrators (OEM optronics, RWS turrets, simulators, etc.).

B&T Solutions GmbH (MOSOLF Group)

B&T Solutions GmbH is part of the MOSOLF Group, a specialist in custom vehicle construction for public safety organizations, defence, the public sector, and industry, offering complete turnkey solutions for over 30 years.

We equip vehicles in our production network or supply technical equipment according to customer specifications. Our mobile service team also performs custom solutions and retrofits on-site throughout Europe.

In addition to vehicle conversions, we offer comprehensive solutions in radio and component manufacturing, from mechanical components and wiring harnesses to complete radio cabling and complex information and communication systems.

Portfolio

- Technical design of special vehicles with the integration of complex systems
- Development and manufacturing of wiring harnesses and electrical components
- Design, mechanical/additive manufacturing, special vehicle construction
- Conversion and retrofitting

B&W International

Rapid deployment, secure command communication, efficient logistics: Law enforcement and emergency response teams worldwide rely on B&W International's mobile defence protective case solutions. Whether it's self-sufficient power supply within the case, straightforward air transport of lithium-ion batteries, readily accessible, highly sensitive instruments, or ad-hoc drone reconnaissance: these modern protective cases offer optimized logistics, cost reduction, speed, and efficiency, but above all, security and operational readiness.

B&W International develops and manufactures case solutions for the mobile protection of high-value, sensitive, and security-relevant instruments, weapons, and ammunition. Furthermore, the company boasts extensive certifications and approvals, as well as comprehensive full-service support. This strategically positions B&W for rapid customization to meet specific challenges.

bebob factory GmbH

For more than 30 years, bebob has stood for high-quality energy supply solutions and proven quality „made in Germany“. bebob's solutions are equally suitable for media production, measurement technology, and the security and defence industry. Customers include commercial enterprises and public authorities as well as organizations with security-related responsibilities. All products are manufactured in bebob's own factory and by suppliers in the Munich area. Only tested components that meet the highest quality standards are used. Quality is bebob's top priority. This commitment extends not only to the entire product range but also to all processes in development, manufacturing, and sales. All procedures have been reviewed, documented, and certified in detailed audits by the German Accreditation Body (DAkkS) and the International Accreditation Forum (IAF). bebob holds the ISO 9001 certification. Sustainable quality management according to DIN EN ISO 9001 ensures consistently high quality in products and services.

CampusGenius

CampusGenius GmbH was founded in 2020 with the conviction that modern forces depend on secure and reliable communications at all times. Our mission is to provide local mobile networks that are rapidly deployable, easy to operate, and capable of performing under the most demanding operational conditions.

Based on the proprietary GeniusCore, CampusGenius enables its partners to establish robust broadband networks within a very short time – exactly where they are required in the field. Independent, secure, and fully controllable.

With over 50 implemented networks across Europe, our technology is not only tried and tested, but proven. From industrial plants to critical infrastructure – we deliver performance in real-world applications every day.

Comrod Communication

Comrod Communication AS is headquartered in Stavanger, Norway, and has design and manufacturing facilities in Norway, France, Hungary, and the USA. The group develops and manufactures antennas, antenna combination and control systems, telescopic and section masts, power supplies, and battery chargers for the tactical communications market. Comrod also develops and manufactures marine antennas for the commercial shipping market.

Comrod antenna products cover all frequency bands in the HF, VHF, UHF, and SHF spectrum and include broadband, multiband, and multipoint products. These products can solve problems with co-site interference or platform space availability. In addition to its extensive range of vehicle and manpack antennas, Comrod offers a wide selection of long-range antennas for use in wide area networks and for extending tactical networks.

DroneControl

DroneControl is a leading provider of highly secure, European-developed drone software that supports professional drone operations across numerous industries. Our mission is to simplify and secure drone workflows by providing a comprehensive, automated, and scalable software solution.

DroneControl – A responsive, agile, and rapidly growing drone technology company, founded by highly experienced professionals who are passionate about this dynamic and evolving industry.

Elma Electronic GmbH

Elma Electronic is a leading global provider of embedded computing solutions, including integrated enclosure systems, circuit board products, modular enclosures, equipment cabinets, and precision hardware components in standard and custom configurations. As a global company, with sales, design, and manufacturing facilities on three continents, we maintain close relationships with our customers and partners worldwide.

Reliability and long-term support, backed by a history of in-depth technical expertise and precision engineering – that's what Elma Electronic stands for.

griffity defense GmbH

griffity defense offers services related to the development of complex technical and application-oriented scenarios in the military and law enforcement sectors, from concept development to implementation support, such as finding the right partners. Our focus is on developing comprehensive, future-proof strategies and integrated technical solutions to provide the best possible tools and infrastructure for diverse operational scenarios.

In addition, we advise companies and public sector clients on solving complex challenges in the military and law enforcement environment and support them in business development and marketing.

Under the motto „Solutions and Contributions to Operational Support for Specialized Forces,“ we and our partners demonstrate modular solutions using fictional scenarios that can make a significant contribution to the design of mobile command posts at the tactical level.

iMAR Navigation GmbH

iMAR Navigation GmbH, a German company, has been a recognized specialist and innovator of leading inertial systems and solutions for over 30 years. Thanks to our many years of experience in the production, development, maintenance, and support of inertial systems for positioning, navigation, surveying, guidance, stabilization, control, and communication (PNT/PNTC), we offer leading systems and solutions for a wide range of applications – for unmanned and manned platforms in industry, automotive, aerospace, geodesy, and defence – both off-the-shelf and as customized solutions.

iMAR was founded in 1992 and is headquartered in St. Ingbert near Frankfurt am Main, where its main administration, development department, and production facility (approx. 4,000 m²) are also located. In early 2025, the company premises were expanded by an additional 2,500 m², including an additional production building.

Imtradex Hör- und Sprechsysteme GmbH

Imtradex Hör- und Sprechsysteme GmbH supports its customers in safety-critical applications under the motto „command & control.“ Imtradex is the exclusive distributor of the world’s leading INVISIO hearing/speech system in the German market. The system is already used reliably and with user acceptance in over 50 countries.

More than 250,000 systems have been delivered and are used worldwide by military and special forces in a wide variety of operating environments and climates. Whether connecting various headset or radio types, mobile phones, or intercom systems in vehicles, aircraft, helicopters, or boats, the system’s flexibility and ease of use are outstanding. The system is also already in use in various German states and operational areas.

Since 2021, the British specialist for high-noise and CVC headsets, Racal Acoustics, has been part of the INVISIO Group, offering an even broader range of applications with its portfolio.

Communication in control rooms is also an element of the solutions. Our mobile communication unit transforms your smartphone into a hands-free device. As your partner for professional communication, we offer expertise in communication under challenging conditions, both dismounted and mounted. We protect your hearing and provide customized solutions with the right communication equipment for use on water, land, and in the air. Simplicity that convinces!

Narda Safety Test Solutions GmbH

Tactical radio monitoring and reconnaissance, including passive drone tracking and emissions control of friendly forces on the battlefield, in border control scenarios, and for intelligence applications, require reliable, easy-to-use radio direction finders. This also enables covert operations, if necessary. Narda's SignalShark®, a commercial off-the-shelf (COTS) system, provides efficient support for monitoring, analysing, and securing the relevant frequency spectra. Its open platform architecture makes SignalShark® highly flexible in adapting to changing operational scenarios.

Narda has paid particular attention to GNSS-denied environments and offers access to signals for external synchronization and position detection via the NMEA protocol. Furthermore, the direction-finding algorithms are being refined: DF spectrum streaming, time-gated bearing, and code-selective bearing.

Panasonic Connect Europe GmbH

As an industry leader in rugged mobile computing, Panasonic TOUGHBOOK offers fully ruggedized laptops and tablets that are ready for deployment and tested for reliability and durability to military standards (MIL-STD 810G) and IP65, and in some cases IP66.

Our COTS-based devices are ideally suited for any mission in the defense sector thanks to modular customization options such as integrated, custom-designed military ports and interfaces, encrypted or quick-release SSDs, and a wide range of accessories, vehicle docking, and carrying solutions. Bright outdoor displays with glove mode, extremely long battery life, and hot-swap capabilities ensure uninterrupted 24/7 operation. TOUGHBOOK devices are available with Windows and are also certified for operation with Red Hat Enterprise Linux.

TASSTA

TASSTA is the perfect mission-critical push-to-talk (PTT) software solution, developed according to ETSI 3GPP standards, for military operations. It features secure communication, real-time location tracking, a customizable contact list, encrypted text messaging, and the ability to operate in low-bandwidth environments.

The TASSTA solution has a user-friendly interface for Android, iOS, and Windows and runs on rugged PTT devices designed for use in extreme conditions. TASSTA includes a certified emergency alert system that can be quickly triggered to notify other team members of an urgent situation. The device is equipped with GPS, accelerometer, and altimeter to ensure accurate location data for positioning.

4. Contact Persons

Companies	Contact Person	Contact Details
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