

5TH SIGNAL COMMAND (THEATER)



Signal Strong *for a Strong Europe*



5TH Signal Command (Theater)

The Signal Corps has always been on the cutting edge of technology.



COL Jimmy L. Hall, Jr.
Commander



CSM Harry Mercado
Command Sergeant Major

From the telegraph transmissions of the Civil War to mobile computing in today's tactical environment, communications have supported every aspect of the Army's mission throughout history. Demand for communication excellence continues to swell exponentially, commensurate with the pace of technological change. Today we must not only provide the technology to support war-fighting and mission command needs, but we must drive technology to ensure dominance within the cyber realm itself.

5th Signal Command stands at the nexus of key U.S. strategic initiatives, delivering relevant and reliable information technology to the Army and Joint forces in the European and African areas of operation. We actively execute the Army Operating Concept, providing the network capabilities essential for Army forces to protect the homeland, foster global security, project power, and "Win in a Complex World." We also enable the critical interoperability between the military services and among our Allies and partners, making Signal Strong for a Strong Europe.

While our use of technology grows, so too does the need to protect that technology. The Dragon Warriors of 5th Signal Command operate at the heart of the Defense Department's 2015 Cyber Strategy, fulfilling its top mission to "defend its own networks, systems,



and information.” The network is always on, and the enemy never sleeps. Unlike a regular combat arms unit, with scheduled rotation and down time, 5th Signal Command’s mission runs 24/7 as we continuously defend the network and prepare the battlefield for ongoing cyber operations.

Despite the complexity of our operational environment—with competing priorities, demanding customers, and formidable adversaries—we maintain consistent performance by adhering to the core elements of our operational framework, and by embracing flexibility and innovation.

We are proud to serve alongside this team of dedicated Soldiers, Civilians, and Local National employees—the Dragon Warriors of 5th Signal Command.

Signal Strong for a Strong Europe!

Interoperability is critical to a Strong Europe, and communication is the key to interoperability. Here, U.S. and German Soldiers learn about the capabilities of a German 34 meter (111.5 foot) antenna and line of sight system.



INSIDE

Operational Framework

Our team’s vision for success.

Organizational Relationships

Comprehensive signal support for a diverse and demanding customer base.

Signal Strong for a Strong Europe

5th Signal Command enables a Strong Europe through signal excellence.

Key Initiatives

- Operations and exercise support
- Cyber Readiness
- Transformation
- Joint Information Environment

Operational Framework

“Our Operational Framework comprises the principles and foundational statements around which 5th Signal Command unites for success, combined with outcome-based priorities.”

- COL Jimmy L. Hall, Jr.

Vision

IT Delivered – Relevant and Reliable

Mission

BUILD, OPERATE, AND DEFEND NETWORK CAPABILITIES
to support the full range of communication, information technology, and cyber requirements for Army, Joint, and Multinational forces in the EUCOM and AFRICOM areas of responsibility

Governing Principles

- ACCOUNTABILITY AND STEWARDSHIP*
- LEADERSHIP AND PROFESSIONAL DEVELOPMENT*
- CUSTOMER SERVICE EXCELLENCE*
- POSITIVE TEAM ENVIRONMENT*

Priorities

★ **IMPROVE SERVICE DELIVERY**

- *Establish Service Accountability*
- *Optimize Exercise and Operations Support*

★ **ACHIEVE INTEROPERABILITY**

- *Master Technical Capabilities*
- *Foster Productive Relationships*

★ **MODERNIZE THE NETWORK**

- *Upgrade Tactical Network*
- *Upgrade Physical Infrastructure*
- *Implement Systems Improvements*

★ **ENSURE CYBER READINESS**

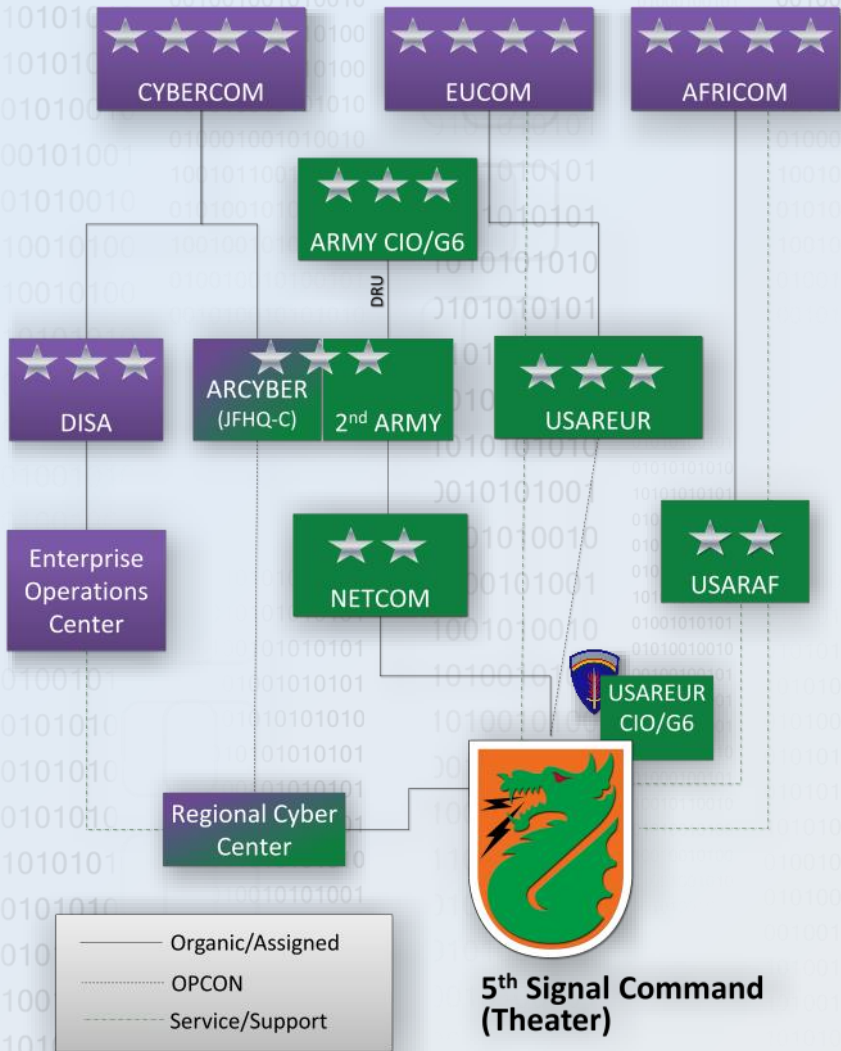
- *Improve Defensive Cyber Operations*
- *Optimize Cybersecurity Governance*

★ **OPTIMIZE ORGANIZATIONAL STRUCTURE**

- *Implement NETCOM Signal Rebalance*
- *Establish COCOM Service Models*
- *Refine Service Delivery Structure*
- *Develop Civilian Workforce Shaping Plan*

Organizational Relationships

As a key enabler for virtually all Army functions, technology generates complex and interdependent relationships. 5th Signal Command deftly navigates the competing interests and needs of numerous stakeholders, ensuring the best possible support to the Warfighter.



Dual-hatted as the USAREUR G6, the Commander of 5th Signal Command also serves as Chief Information Officer, technology advisor, and cyber security manager for USAREUR, providing policy and governance, and validating USAREUR's information technology and communications requirements.

5th Signal Command (Theater)



The Army's premier Signal Command, delivering relevant and reliable information technology for Army and Joint forces in Europe and Africa.



2nd Theater Strategic Signal Brigade

An adaptable, empowered and resilient team providing assured IT services across all levels of warfare.



Regional Cyber Center - Europe

The eyes of the enterprise, providing comprehensive network management and defensive cyber operations.



39th Strategic Signal Battalion

The key signal enabler for Alliance interoperability, spanning Northern Germany, the UK, France, and the BENELUX region.



44th Expeditionary Signal Battalion

The premier expeditionary signal battalion in Europe, supporting exercises and operations in over 10 countries.



52nd Strategic Signal Battalion

Supporting two Combatant Commands to implement the Joint Information Environment.



102nd Strategic Signal Battalion

The backbone of communications in Europe, enabling mission command, air and ground maneuver, and sustainment for USAREUR.



509th Strategic Signal Battalion

A powerhouse of dynamic signal support for USARAF headquarters and forces throughout the Mediterranean.



6981st Civilian Support Group

Our all-local-national team of infrastructure experts, building the physical network and connecting warfighters throughout the theater.

Signal Strong for a Strong Europe

Operations and Exercises

- Operation Atlantic Resolve
- Operation United Assistance
- Allied Spirit
- Swift Response
- Cooperative Resolve
- Steadfast Cobalt
- Anakonda 16

Key Network Enablers and Specialized Missions

- Regional Hub Node
- Regional Cyber Center
- Enterprise Service Desk
- Nuclear Surety
- Defense Red Switch



Major Customers



NATO



USEUCOM



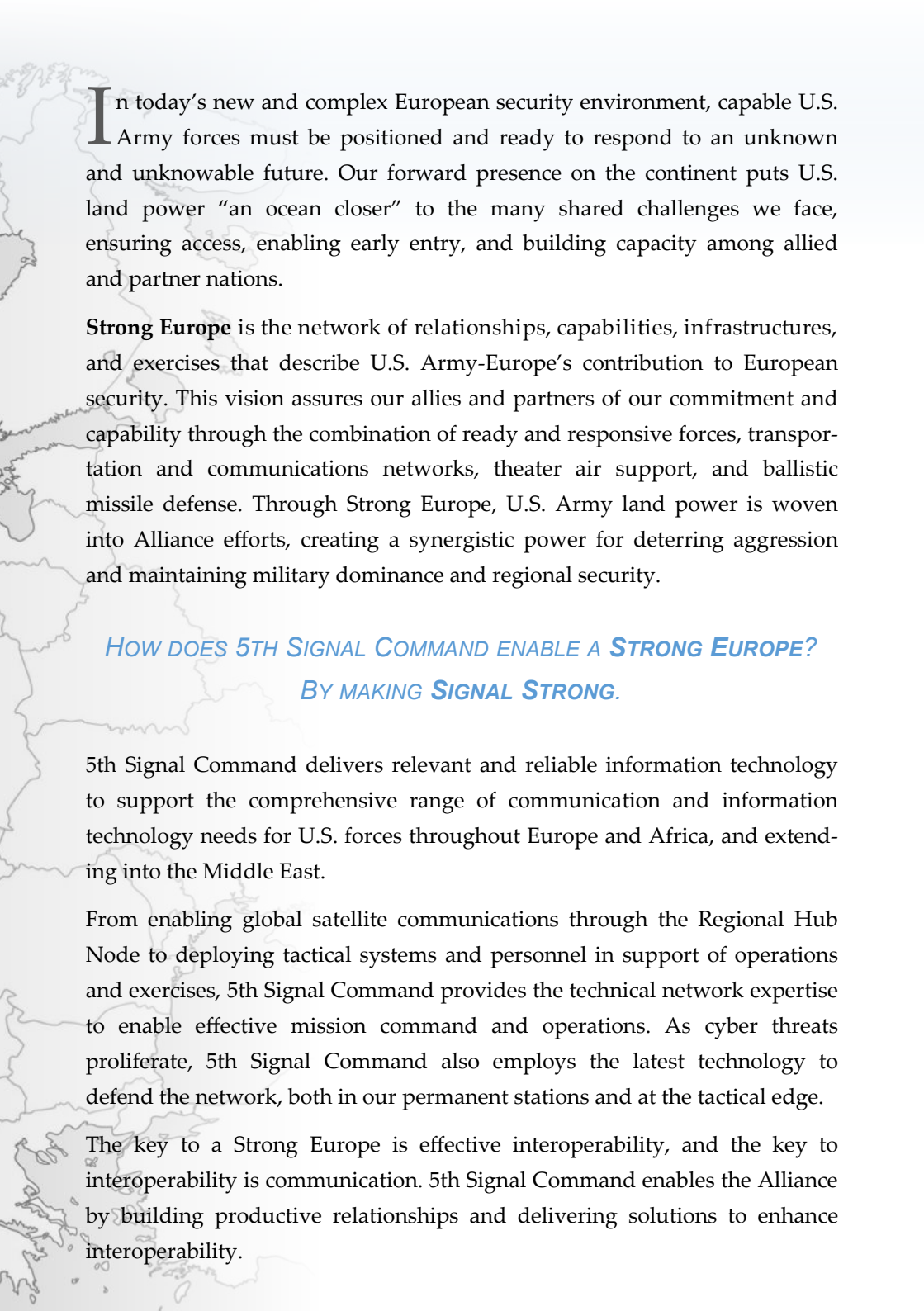
USAFRICOM



USAREUR



USARAF



In today's new and complex European security environment, capable U.S. Army forces must be positioned and ready to respond to an unknown and unknowable future. Our forward presence on the continent puts U.S. land power "an ocean closer" to the many shared challenges we face, ensuring access, enabling early entry, and building capacity among allied and partner nations.

Strong Europe is the network of relationships, capabilities, infrastructures, and exercises that describe U.S. Army-Europe's contribution to European security. This vision assures our allies and partners of our commitment and capability through the combination of ready and responsive forces, transportation and communications networks, theater air support, and ballistic missile defense. Through Strong Europe, U.S. Army land power is woven into Alliance efforts, creating a synergistic power for deterring aggression and maintaining military dominance and regional security.

*HOW DOES 5TH SIGNAL COMMAND ENABLE A STRONG EUROPE?
BY MAKING SIGNAL STRONG.*

5th Signal Command delivers relevant and reliable information technology to support the comprehensive range of communication and information technology needs for U.S. forces throughout Europe and Africa, and extending into the Middle East.

From enabling global satellite communications through the Regional Hub Node to deploying tactical systems and personnel in support of operations and exercises, 5th Signal Command provides the technical network expertise to enable effective mission command and operations. As cyber threats proliferate, 5th Signal Command also employs the latest technology to defend the network, both in our permanent stations and at the tactical edge.

The key to a Strong Europe is effective interoperability, and the key to interoperability is communication. 5th Signal Command enables the Alliance by building productive relationships and delivering solutions to enhance interoperability.

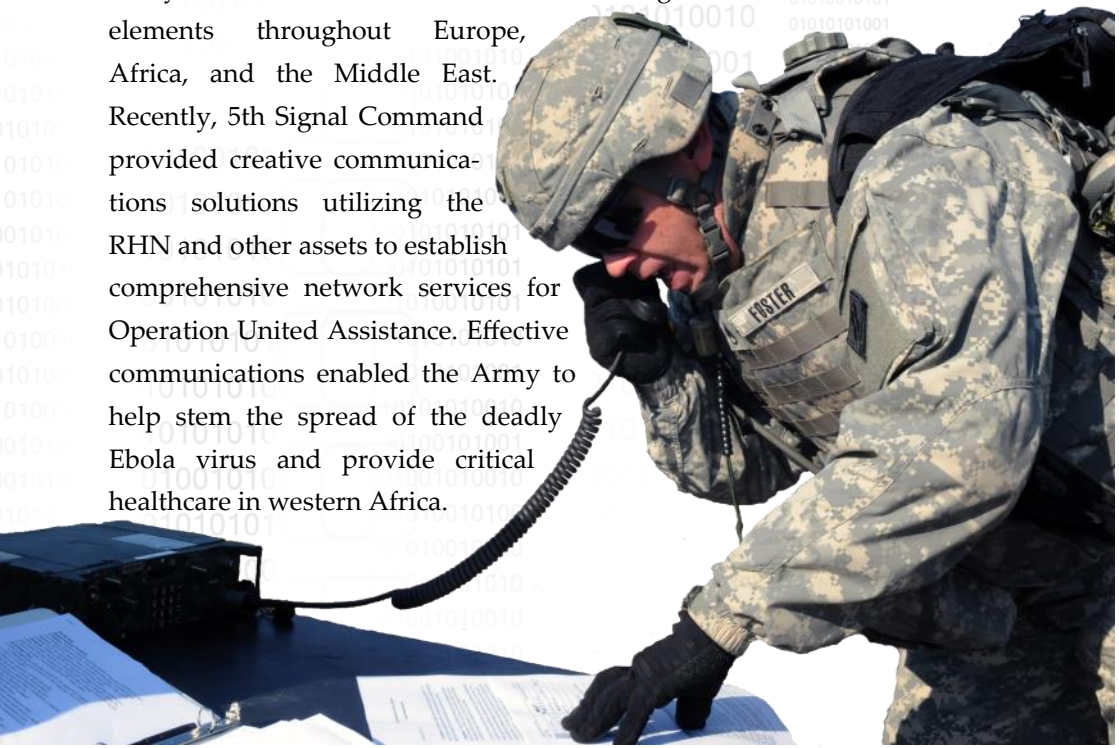
Key Initiatives

OPERATIONS AND EXERCISE SUPPORT

Preparing to Fight – Winning the Fight: Communications as the Key Enabler

When the Army isn't conducting operations, it's training for them. And neither of these functions is possible without effective communications. From planning to conducting mission command to operating a major weapon system, all aspects of operations and exercises rely heavily on network capabilities. 5th Signal Command enables Army operations and exercises in the EUCOM and AFRICOM areas of responsibility through comprehensive network support, from providing the backbone network infrastructure to establishing communications at the tactical edge—and everything in-between.

The Regional Hub Node (RHN) satellite facility in Landstuhl, Germany, is one critical piece of 5th Signal's operation support, enabling access to the Army's voice and data networks for strategic and tactical elements throughout Europe, Africa, and the Middle East. Recently, 5th Signal Command provided creative communications solutions utilizing the RHN and other assets to establish comprehensive network services for Operation United Assistance. Effective communications enabled the Army to help stem the spread of the deadly Ebola virus and provide critical healthcare in western Africa.



Within the European Theater, the Army leads Operation Atlantic Resolve to demonstrate U.S. commitment to NATO and to promote peace and stability in the region. 5th Signal Command's communication support enables training, security cooperation, and interoperability among our Joint and multinational partners.

To help prepare warfighters for operations, 5th Signal Command provides dynamic network support to the Army's largest overseas training organization, the Joint Multinational Training Command. Here, warfighters develop proficiency in the critical job functions that they need to succeed and win in a complex environment. 5th Signal command brings advanced information technology to the table, allowing improved live, virtual, and simulated training exercises.

Another critical aspect of 5th Signal's exercise and operations support takes place in the cyber domain. Not only does the command build, operate, and defend network capabilities to support traditional exercises and operations, but as cyber emerges as a domain in its own right, 5th Signal Command leads the way in planning and executing cyber-specific exercises and in preparing for ongoing cyber contingencies.

JOINT INFORMATION ENVIRONMENT

Coming Together for Efficiency, Security, and Enhanced Capability

To keep pace with technological threats—and opportunities—we must continually work to modernize our network infrastructure. 5th Signal Command is leading the Department of Defense's Joint Information Environment (JIE) initiative to consolidate the disparate networks of the various military services into a single joint platform. JIE has three main goals: improve efficiency, strengthen security, and enhance capability.

Efficiency – Over the years, independent adoption of information technology by the military services has resulted in the current state of disparate and

redundant infrastructures, systems, services, and applications. By consolidating these, we can realize economies of scale, and achieve additional cost savings from reduced staffing, maintenance, and oversight.

Security – By bringing us all under a single security architecture, JIE will standardize our network structure and reduce our cyber-attack surface. With a clear and comprehensive picture of the entire network, we will be able to quickly recognize threats and apply protections throughout the enterprise. Such an approach will also eliminate the multiple competing security measures that currently impede information sharing between organizations.

Capability – JIE will enhance the capabilities of users, from headquarters elements to deployed military units. As new cloud-based enterprise services emerge, perhaps the greatest benefit will be users' consistent access to their information and systems, regardless of their location. JIE will also enhance interoperability, making the best tools available to every member of the workforce, and facilitating collaboration and information exchange.

With a complex combination of diverse stakeholders, including USEUCOM, USAFRICOM, USAREUR, and USARAF, Europe is well suited to demonstrate the potential of JIE. Working with our defense partners, 5th Signal Command has already accomplished the consolidation of multiple data centers, the implementation of a single top-level architecture, and the successful merger of multiple regional help desks into a single enterprise help desk. As we work to implement JIE, we invest in our future security and capability.





CYBER READINESS

Defending a Critical Domain without a Perimeter

From critical infrastructure to global financial systems to social media, the world's expanding reliance on information technology makes cyberspace more of an actual than a virtual reality. In the Army, technology enables every aspect of our warfighting functions. And yet, with the tangible benefits of technology come tangible threats, as cyberspace becomes a domain for crime, identity theft, and warfare. The cyber threat is real

and requires a robust response.

At 5th Signal Command, our primary cyber mission is to protect the Army's networks, systems, and information. The LTG Robert E. Gray Regional Cyber Center is the hub for our cyber security efforts, integrating the broad spectrum of network management and



security functions in a single unified team. Using the latest tools and best IT management processes, the Gray Center monitors the network enterprise, ensuring compliance with Army IT standards, responding to incidents, and managing network changes.

5th Signal Command is also pioneering a unique cyber defense capability by "fusing" traditional intelligence with network operations data. Based on real-world threat data, our Cyber Threats Analysis Cell provides advance indicators and warnings to Defensive Cyber Operations, enabling dynamic and proactive security actions to defend the network.

As we secure our own networks, we ensure reliable network services for current missions and provide a solid foundation for future cyber-related operations.

TRANSFORMATION

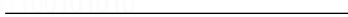
Providing Steady Service through Tumult and Change

They say the only real constant is change, and that's certainly true in the Army. It's even more apparent in the signal realm, where the pace of technological advancement increases exponentially. In an age where information is free, and technology is so readily accessible to everyone—friend and foe alike—it is our creativity and adaptability that set us apart. 5th Signal Command pairs technological tools with skilled and dedicated professionals to deliver world-class services and mission-enabling capabilities to the Warfighter.

Managing the constant transformation of technology is a mission unto itself, but technology is also critical to enabling other transformation initiatives. The ongoing European Infrastructure Consolidation effort streamlines the USAREUR footprint, achieving efficiencies while strategically aligning capabilities. 5th Signal Command ensures smooth transition of network services and connectivity for units relocating or consolidating throughout Europe, providing a solid infrastructure to support the mission-critical needs of our customer base.

5th Signal Command also wields technology in support of the Army's dynamic deployment model, providing seamless reception and network integration for Regionally Aligned Forces rotating through Europe. Continuously adapting to the unique requirements and needs of these Warfighters, 5th Signal Command ensures access to the same systems, tools, and data that warfighters use at their home stations.

As we face structural changes and transition within the Army and the Signal regiment itself, 5th Signal Command remains constant in our commitment to delivering relevant and reliable information technology and cutting-edge capabilities for Army, Joint, and multinational forces.



“Interoperability is the key to success.”

LTG Ben Hodges
Commander, U.S. Army Europe



“In training, as in battle, we must learn how to work together, and communication is the key to interoperability.”

COL Jimmy L. Hall, Jr.
Commander, 5th Signal Command



“Our Soldiers are doing real work and building real capabilities for the Alliance.”

CSM Harry Mercado
Command Sergeant Major, 5th Signal Command



“Enabling the Alliance means also protecting your network. Cyber defense, network defense, is one of the most important parts of interoperability.”

BG Markus Laubenthal
Chief of Staff, U.S. Army Europe





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