

# NORTHCOM NEWS

WHEN COMMUNICATION MATTERS

INNOVATIVE NEWS FROM NORTHCOM #8 JUNE 2026



## VISITING CUSTOMERS



### EXHIBITIONS AND EVENTS

DDAC  
VÄSTERVIK  
INTERNATIONAL DRONE SHOW

### SATISFIED CUSTOMERS

RÄDDNINGSTJÄNSTEN SYD  
AMBULANSEN MALMÖ  
RÄDDNINGSTJÄNSTEN HALMSTAD  
BOREAL SJØ

**NORTHCOM**  
WHEN COMMUNICATION MATTERS

## Dear Customer,

Summer is just around the corner, and it is once again time to look back on an intense and eventful period for us at Northcom. The past six months have been marked by a continued increased focus on preparedness, safety, and robust communication—areas that have never been more important than they are today.

In this issue, you'll meet several of the organizations that work every day in operations where effective communication is absolutely crucial. Through visits to organizations such as Räddningstjänsten Syd, Region Skåne, Räddningstjänsten Halmstad, Hurtigruten, and Boreal Sjø, we gain insight into how modern communication solutions are used in real-world scenarios and the significance they hold when it comes to protecting people, essential societal operations, and critical infrastructure.

At the same time, development continues toward the next gene-

ration of critical communications. The transition from traditional radio systems to broadband-based solutions using MCX, private mobile networks, and 5G creates new opportunities for collaboration, information sharing, and operational efficiency.

Through collaborations with leading suppliers and technology partners, we continue to build solutions that combine the best of proven technology with the possibilities of the future.

This spring, we also took an important strategic step by becoming a member of the TCCA (The Critical Communications Association), the leading international trade association for critical communications. This gives us the opportunity to participate even more actively in the development of future communication solutions and mission-critical broadband networks. We look forward to contributing our experience from the Nordic market and, together with indu-

stry colleagues, authorities, and technology providers, helping to shape tomorrow's critical communications.

Internationally, our presence continues to grow. In June, LS Electronics will be exhibiting at Critical Communications World in London—the world's most important gathering for critical communications.

There, we will showcase the development of the Mimer platform and meet customers and partners from around the world.

In conjunction with the trade show, we are also organizing a Nordic customer seminar where we will discuss future communication solutions, experiences from ongoing projects, and developments within MCX and critical communications. For more information – see below.

We are seeing growing interest in our solutions within Private 5G, robust networks, and communications readiness. Developments in

the public sector, industry, and defence clearly show that demands for availability, security, and control over communications continue to rise. It is a development we are proud to be a part of.

In closing, we would like to extend our heartfelt thanks to all customers, partners, and employees who contribute to our shared journey. Your trust is the foundation of our work and inspires us to continue developing solutions that work when it really counts.

We wish you a wonderful summer and look forward to seeing you at our fall activities and events.

### Kenneth Hübner

Acting Group CEO



## MEET US AT CCW 2026 IN LONDON!

We look forward to participating in **Critical Communications World 2025**, which will be held in Brussels on **June 17–19**.

In addition to about 20 people from Northcom visiting the exhibition, two of our companies will be exhibiting: You can find them at booth **D30**.

We hope this provides an excellent opportunity to meet our team, discuss future projects, and explore new opportunities together.

We will also be hosting a **lunch seminar**, where we will present the latest news about our products and companies.

More information and registration forms can be found at:

<https://www.northcom.se/register-northcom-vip-lunch-ccw-2026>

Information about CCW Brussels:  
[critical-communications-world.com](https://critical-communications-world.com)

We look forward to meeting you in London!



## ATC and DFSK 2026

As usual, we will once again be hosting our own event, **All Things Connected (ATC)**, the day before **Dagen för samhällsviktiga kommunikationstjänster (DFSK)**.

**ATC** will take place on Monday, **November 16**, while **DFSK** will be held on Tuesday, **November 17**.

In recent years, ATC has become a valued meeting place for customers, partners, and industry colleagues, focusing on critical communications, technology, and future solutions. More information about the program, times, location, and registration will be published this fall.

We hope to see you in November!



# NORTHCOM NEWS

THIS IS OUR EIGHTH ISSUE OF **NORTHCOM NEWS**.  
ENJOY READING!



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## NEWS FROM CYBERTEL

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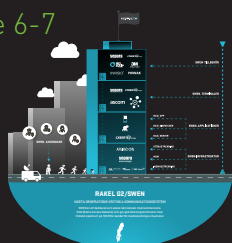
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ENJOY  
SUMMER!



# RSYD'S COMMUNICATIONS VEHICLE

## WHEN ROBUST COMMUNICATION MEETS OPERATIONAL REALITY

During a visit to the Southern Rescue Service, we got a close look at how modern communications technology is used in practice. In a compact yet advanced communications vehicle, multiple communication systems, UAS support, and a sustainable power supply are combined into a solution built to work—every time, regardless of the situation.

### A mobile node for collaboration

During the visit, we met communications technicians Markus and Stefan, who are also UAS pilots, and received a briefing on how their communications vehicle is used in operations.

The vehicle is a Mercedes Vito; it may be compact in size—but what lies behind its doors is a well-designed and powerful platform for command and coordination in operational environments.

This isn't about large command vehicles—it's about being able to quickly establish communications directly at the scene of an incident, with the right functions easily accessible.



Markus Sjöstrand, Communications Technician/UAS Pilot, and Stefan Thiesen, Communications Technician/UAS Pilot

### Multiple systems—one common platform

The command vehicle is equipped to handle multiple communication systems simultaneously, enabling effective collaboration between different agencies:

- TETRA / Rakel
- UHF and VHF
- Marine radio systems
- Aviation radio
- IP-based communication via Mimer X-Link

**By consolidating the systems into a single platform, a flexible solution is created where different technologies can be integrated and managed in a structured manner.**



### Integrated support for UAS and situational awareness

An important part of the vehicle's function is support for drone operations. Markus and Stefan also work as UAS pilots, and the vehicle is equipped with drones that can be used to quickly establish situational awareness during operations.

The combination of aerial overview and robust communication adds another dimension to command and control capabilities—where infor-

mation can be collected, shared, and translated into decisions in real time.



### Designed for increased robustness

The antenna system is well-designed and adapted to handle multiple simultaneous radio systems with good performance.

The vehicle is also prepared for DAMM integration, which enables:

- a local, standalone TETRA network
- increased resilience in the event of Rakel
- continued development of the communication system

**Furthermore, the vehicle is prepared for future solutions such as SWEN, making it relevant even from a long-term perspective.**

### Energy solution for endurance

The communications vehicle is equipped with:

- solar panels
- a battery system with UPS
- energy flow monitoring

This enables operation for up to approximately 24 hours without an external power supply, which is crucial in situations where infrastructure is limited or down.



### Built for real-world operations

The rear work area clearly shows that the vehicle is built with a focus on practical use. Radio equipment, charging, and the work surface are organized to provide quick access and a clear overview.

It is a solution developed based on real-world needs—where simplicity, accessibility, and functionality are prioritized.



### "It has to work—every time"

In our conversation with Markus and Stefan, it becomes clear what matters most:

– It's about it working, every time. We have to be able to rely on the systems no matter the situation.



#### Technical Specs – At a Glance

**Platform:** Mercedes Vito

**Communication system:**  
TETRA/Rakel, UHF, VHF, marine, aviation

**IP integration:** Mimer X-Link

**Prepared for:** DAMM and SWEN

**UAS:** Drones integrated into operations

**Energy:** Solar panels, battery systems, and UPS

**Endurance:** Up to approx. 24 hours



That is exactly what this communications vehicle delivers—a stable and flexible platform that supports the work when it really counts.



#### Summary

RSyd's communications vehicle is a clear example of how modern communications technology can be implemented in a compact and operational format.



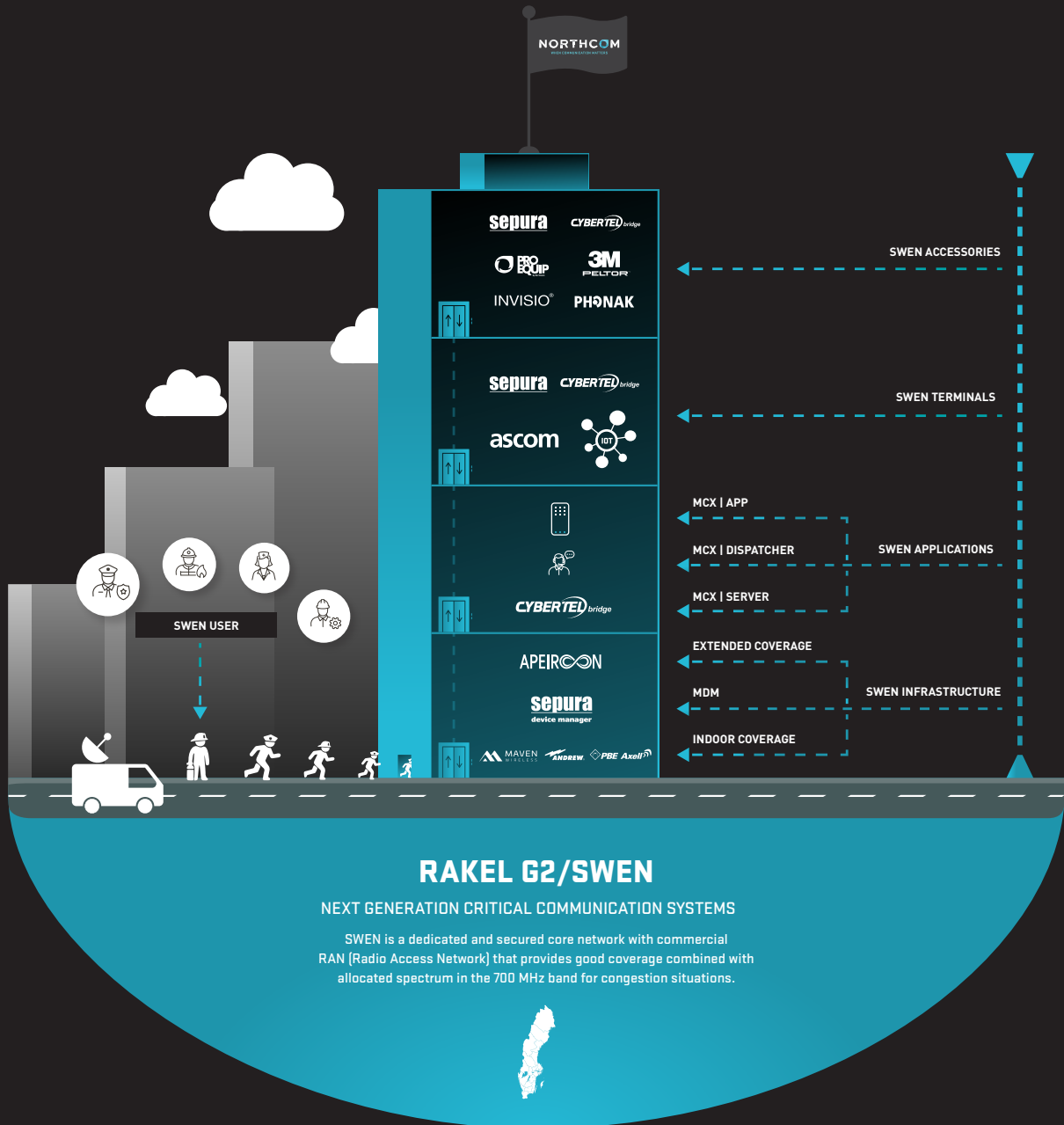
By combining multiple radio systems, IP-based technology, UAS support, and a robust power system, a solution is created that enables effective collaboration, ensu-

res availability, and functions even when infrastructure is challenged.

A solution built for the real world—and for the situations where it's truly needed.

We would like to thank RSyd for the visit and the great demonstration.

# WE ARE YOUR PARTNER FOR SWEN



# FUTURE-PROOF PRODUCTS FROM NORTHCOM

In an era where public safety and emergency preparedness face new challenges, a communication system must be flexible, scalable, and future-ready. These products are supported by next-generation communication platforms for government agencies, emergency services, and critical operations. Northcom plays a central role in this initiative for the Scandinavian market. With decades of experience in business-critical communications, we have carefully selected the suppliers and technologies that together create the most reliable end-to-end solution on the market.

## ACCESSORIES

Essential for users to work effectively in the field. We partner with leading suppliers such as 3M Peltor, Phonak, and Invisio®, as well as our own brand, ProEquip. These rugged headsets, hearing protection, and communication solutions are designed to perform in the most demanding environments and integrate seamlessly with our terminals from Sepura, Icom and Cybertel.



## TERMINALS FOR MISSION-CRITICAL USE

Terminals are the heart of communication.

- Sepura SCL3 and SCU3 – hybrid devices that support today's TETRA and tomorrow's MCX services, fully integrated into the SWEN network.
- Cybertel LM75 – a 5G MCX terminal
- Ascom – a rugged MCX terminal from a leading supplier of mobile broadband devices.
- Icom MCX terminal – based on a traditional radio design for simple and intuitive use.



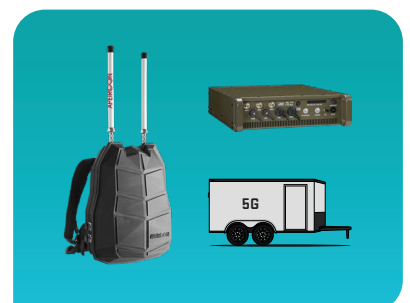
## APPLICATIONS

Built on mission-critical communication, this layer is crucial to the network's success. Cybertel's MCX server serves as the hub of the Northcom architecture and enables features such as MCPTT, MCVideo, and MCData. Combined with the MCX app and MCX Dispatcher, this creates a powerful ecosystem for real-time communication, positioning, and incident management—all within the highest security standards.



## INFRASTRUCTURE

To expand coverage, Northcom collaborates with Apeiron and JRC, two providers offering flexible **4G/5G solutions for both permanent and temporary deployments**. For indoor coverage, we partner with Maven Wireless, Andrew, and PBE Axell—leaders in DAS systems and RF infrastructure. Together, these components form the backbone that keeps communication running, no matter where the user is.



## THE FUTURE STARTS NOW

Preparing for the future isn't just about upgrading technology—it's about building a platform that can grow and adapt to new requirements, emerging threats, and ever-changing user needs. By investing in the right infrastructure, the right terminals, and the right expertise today, you lay the foundation for a strong and reliable communication system tomorrow. **Northcom is proud to be part of shaping the future of business-critical communications.**

# NORTHCOM JOINS TCCA

Northcom has become a member of the TCCA (The Critical Communications Association)—the leading global industry organization for critical communications and mission-critical networks. This membership is a strategic step in our continued commitment to future-proof communication solutions for emergency services, critical infrastructure, and operations with high demands for secure and robust communication.



The TCCA brings together the entire critical communications ecosystem—from operators, government agencies, and emergency services to manufacturers, system integrators, and technology providers worldwide. The organization plays a central role in the development of future solutions in areas such as TETRA, MCX (Mission Critical Services), Private 5G, and broadband-based mission-critical communication.

For Northcom, membership means greater opportunities to influence developments in a field that is rapidly changing in step with digitalization, new standards, and increased demands for robust communication solutions.

## A natural step in our development

For many years, Northcom has been working on solutions for mission-critical and secure communication in the Nordic region. Through our membership in TCCA, we now have even better opportunities to follow market developments, participate in important industry discussions, and strengthen our international partnerships.

- Becoming a member of TCCA is an important step for us and is fully in line with our long-term strategy in critical communications. We see great value in being an active part of the international ecosystem that shapes the future solutions for mission-critical operations," says Kenneth Hübner, Group CEO of Northcom.



Through its membership, Northcom gains, among other things:

- Deeper insight into how the market and technology are evolving
- Access to key forums for standardization and innovation
- The opportunity to contribute to the development of future MCX and 5G solutions
- Strengthened relationships and collaborations both in the Nordic region and internationally

## Focus on MCX and Private 5G

Developments in critical communications are rapidly shifting from traditional radio systems toward broadband-based and integrated solutions, where LTE and 5G are becoming increasingly important components. TCCA is one of the key drivers behind this development and serves as a global hub for

## A Nordic group with an international presence

Northcom is a Nordic group specializing in critical communications, security solutions, and mission-critical IT. The group works closely with both public and private organizations where communication and availability are crucial.

With operations in several Nordic countries and a strong local presence, Northcom combines regional expertise with international partnerships and technologies from leading suppliers worldwide. By becoming a member of TCCA, we further strengthen our position as a long-term and knowledgeable partner in critical communications.

## Moving forward together

Going forward, Northcom will actively participate in TCCA's initiatives, working groups, and networks to contribute to the development of future communication solutions while ensuring that our customers have access to the latest technology and the highest level of expertise in the field.

This membership marks another step in our ambition to be a leading player in critical communications in the Nordic region—to-day and in the future.

# NORTHCOM TO SUPPLY 5G AND RADIO SYSTEMS TO THE NORWEGIAN ARMED FORCES

Northcom has entered into a framework agreement with the Norwegian Defence Materiel Agency (NDMA) for the delivery of commercial radio and 5G systems to The Norwegian Armed Force. The agreement has a value of 480 million Norwegian kroner and is the largest in Northcom's history.

The framework agreement means that Northcom will contribute to the development of current communication technology solutions within the Armed Forces, as well as meet future national defence and security needs.

"We are proud to have entered into this agreement with the NDMA. In a time of heightened security tensions, it is particularly meaningful to be able to contribute to secure communications within the Armed Forces, says Bjørn Windfeldt, CEO of Northcom.

The framework agreement runs for seven years, including options.

"It has been important for us to secure a long-term agreement that ensures sufficient deliveries of commercial radio and 5G systems. The agreement with Northcom provides stable and predictable access to communication technology within the Armed Forces for the coming years," says Eiliv Ofigsbø, Head of ICT Capability at the NDMA.

Northcom has been a supplier of critical communication technology

to emergency services and the Armed Forces for several years. The framework agreement now signed with the NDMA means that Northcom will meet the Armed Forces needs for commercial analog and digital radios, smartphones with special features, 5G routers, headsets, various accessories, and services.

– The purpose of the framework agreement is to ensure the delivery of rapid communication technology, along with associated equipment, for use within the total defence system. The NDMA has

conducted an orderly procurement process with a structured competitive basis. "The framework agreement is clear and transparent, making it easy to understand and use" says Windfeldt.

The framework agreement with the NDMA represents a milestone for Northcom.

"It is the largest contract in the company's 40-year history. Based on this contract, we want to take an even clearer position in the Nordic defence market, says Windfeldt.



Eiliv Ofigsbø, Director of ICT Capabilities at NDMA, Ronny Ledang, Key Account Manager Defence at Northcom Norway, and Bjørn A. Windfeldt, CEO of Northcom Norway.

# REGION SKÅNE'S NEW COMMUNICATIONS VEHICLE

## ENHANCED COMMUNICATIONS FOR REGIONEN



**Michael Kvist**, Communications Manager and Systems Manager, Swedish Emergency Network, and **Holger Baldauf**, Rakel System Manager and Communications Manager, Region Skåne

The vehicle is developed to support the department for telephony and communication systems at events where fast, reliable and coordinated communication is crucial. The vehicle is also designed to provide us with technology to be able to carry out measurements and checks.

By bringing together several technologies in one and the same platform, a solution is created that enables effective collaboration between different actors in the field.

The liaison vehicle is equipped with several communication systems, including Rakel, TETRA and UHF and VHF. This provides the opportunity to communicate both within the organization and with other actors.

The antenna system is well developed and dimensioned to handle several simultaneous radio systems with good performance.

The vehicle is **REGION SKÅNE'S NEW TECHNOLOGY AND COMMUNICATION VEHICLE** and is also

prepared for future integration with SWEN, which ensures that the solution is adapted to future requirements and needs.

A **DAMM base station** is installed in the rear of the vehicle. This enables the construction of a local and independent TETRA network, which is particularly valuable during major events or in situations where regular infrastructure is affected.

The vehicle is designed with a focus on function and accessibility, where the equipment and workspace support effective work in operational situations.

The solution gives Region Skåne the opportunity to quickly establish a stable communications platform where the need arises. Region Skåne's investment is a clear example of how the region is developing its ability to handle complex events – with a focus on robustness, collaboration and high availability.

**sepura**

**OODAMM**





# IWCS

IWCS delivers robust and flexible communication systems for operations where reliable communication is critical. Used in marine, industrial, and operational contexts, among others.

## Communication can save lives

IWCS delivers robust and flexible communication systems for operations where reliable communication is critical. The products are designed to operate in noisy and weather-exposed environments and are used in marine, industrial, and operational contexts, among others.

## Background

IWCS (Iridium Waterproof Communication Systems) is a technology-oriented company focused on innovative communication solutions for professional users in extremely demanding environments. The company develops, designs, and manufactures intercom systems, headsets, and related products that withstand harsh conditions—from high noise levels to water and weather.

## Focus Areas

IWCS focuses on comprehensive solutions for:

- Professional communication in noisy environments where safe and clear voice communication is critical.
- Waterproof and durable products with IP ratings that withstand harsh marine or outdoor conditions.
- Flexibility and integration, systems that can be used standalone or in conjunction with radio communication and advanced intercom solutions.

## Target audience

IWCS solutions are designed for users who require reliable communication where standard radios or mobile phones are insufficient:

- Emergency services and SAR teams
- Marine teams and boat operators
- Tactical units and professional operators
- Industrial environments with noise and complex logistics
- Projects requiring rugged, secure, and waterproof headsets

## ANALOG AUDIO MIXER & HEADSET

### iriBridge-R

iriBridge-R is the heart of wireless communication when teams need to stay connected across large areas or in challenging environments.

- Creates a **full-duplex channel** between two wireless headsets, allowing conversations to flow openly and naturally.
- With an **external radio connection** you can significantly extend the range—perfect for larger work sites or marine missions.
- Robust aluminum construction and a design that allows for flexible mounting options.



### iriComm 4.0 Wireless

iriComm 4.0 Wireless is IWCS's latest wireless headset with advanced features for professional communication in demanding environments.

- **Multifunctional wireless headset** compatible with the IWCS intercom system, mobile phones, and peer-to-peer connections.
- Support for **two simultaneous connections** — perfect when integrating multiple information sources.
- **Situational Awareness feature** and **3-mode LED light** for added safety and functionality.
- **Impressive IP67 rating** that withstands harsh environments and requires minimal maintenance.

In short: a headset designed for rescue missions, noisy environments, or situations where weather and wind challenge traditional communication.



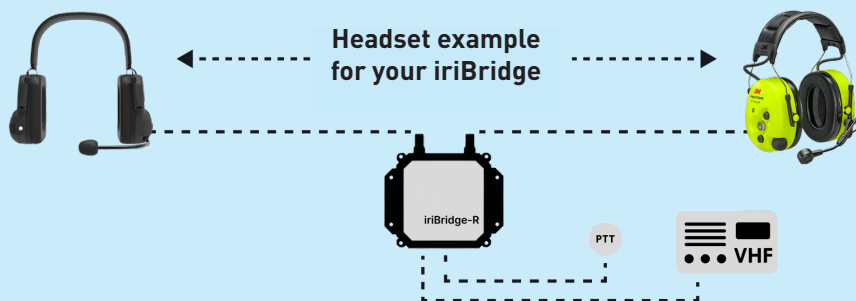
## MORE POSSIBILITIES WITH IWCS

With the IWCS iriBridge platform, more use cases open up than you might initially think. You can connect different types of headsets—not just IWCS’s own—to optimize your communication in your specific environment.

For example, you can combine the IWCS system with rugged hearing protection from other manufacturers, such as 3M Peltor, if you already use them in your operations. This is particularly useful in extremely noisy environments where extra hearing protection is a must, without com-

promising on communication. At the same time, **iriComm 4.0 Wireless** is an excellent choice in environments where water resistance and mobility are key—the IP67 rating means the headset handles water and moisture significantly better than many standard solutions.

With the right combination of IWCS products and existing equipment, you can create a solution that is both effective, robust, and perfectly tailored to your specific needs.



# RÄDDNINGSTJÄNSTEN SYDS RIB BOAT

## A HIGH-PERFORMANCE RESOURCE FOR OPERATIONS IN ÖRESUND

In the dynamic and often challenging environment of Öresund, Räddningstjänsten Syd's new RIB boat represents a significant enhancement of operational capabilities at sea. The boat is designed to respond quickly to incidents, rescue operations, and collaborative missions in one of Sweden's busiest waterways.

The RIB boat combines high speed with stability and maneuverability, making it particularly well-suited for operations in coastal areas, port environments, and open water.

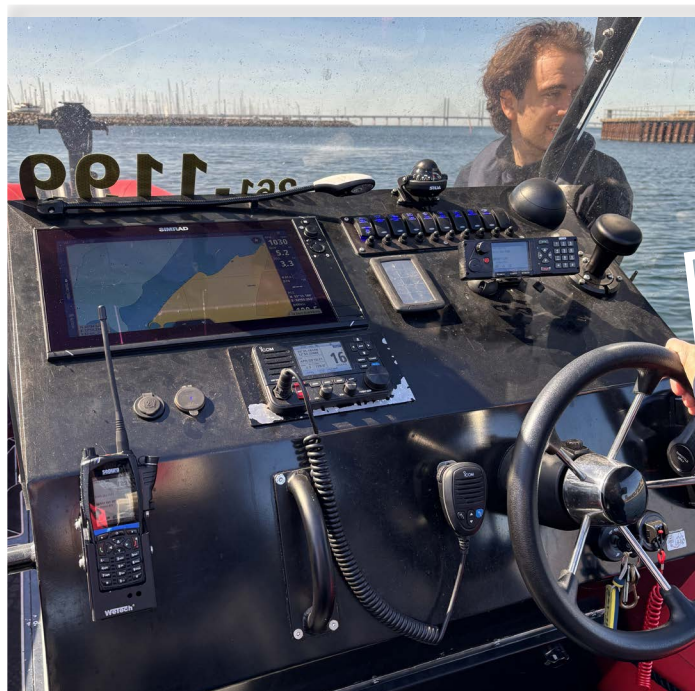
It can quickly reach accident sites, perform life-saving measures, and provide support to other responders in the area.

On board is a well-designed and robust communication solution where Rakel, via Sepura, is integrated with marine radios from Icom and headsets from IWCS.

This enables effective collaboration with both emergency responders on land and units at sea, such as Sjöräddningen and other vessels. This combination ensures that the crew can always maintain contact—regardless of the situation or environment.

The boat is also equipped for water rescue operations, including support for diving operations, which further strengthens the ability to handle complex incidents below the surface.

With its capacity, flexibility, and technical equipment, RSyd's RIB boat is a vital resource for ensuring safety and security in Öresund—where quick decisions and reliable communications are often critical.



ICOM  
sepura

IWCS  
COMMUNICATION CAN SAVE LIVES



NEW

New marine products from Icom

# IC-M430E and MA-600TRBB

Icom is now launching two new products that set a new standard for marine communication and safety at sea—the IC-M430E VHF radio and the MA-600TRBB AIS transponder.



**IC-M430E** is a compact and powerful VHF with the first color TFT display in its class. With built-in GPS, NMEA 2000™ support, and a significantly slimmer chassis, it is designed for both new installations and seamless upgrades from previous Icom models. The clear display, multiple viewing modes, and support for CommandMic™ make it easy to use even in demanding environments.

**MA-600TRBB** is a Class B+ AIS transponder in a Black Box design, developed for increased range and improved visibility thanks to SOTDMA technology and 5 W transmit power. With a built-in antenna splitter, support for both NMEA 2000™ and NMEA 0183-HS, and Silent Mode, it is a flexible and professional solution for modern marine installations.

Together, the IC-M430E and MA-600TRBB offer a powerful combination of communication, navigation, and safety—fully in line with Icom's focus on quality and innovation.

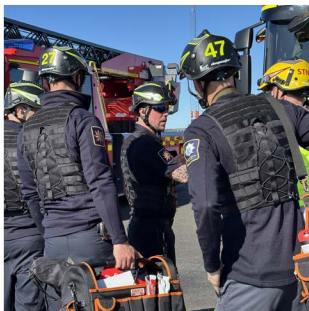


ICOM

# VISITING RÄDDNINGSTJÄNSTEN HALMSTAD DURING THEIR TRAINING DAY



Joakim Renérius, Squad Leader and Force Commander, Rättningstjänsten Halmstad



sepura

Halmstad is strengthening its capabilities in the handling of unexploded ordnance.

We visited a sunny Halmstad, where we had the opportunity to participate as the Rättningstjänsten Halmstad conducted training in AMH (ammunition and explosive handling).

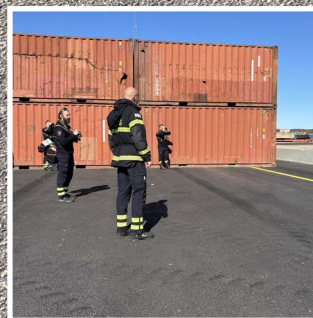
The visit began at Östra stranden, where the focus was on practical exercises related to handling explosive materials. A central component is UXO (unexploded ordnance)—ammunition that has been fired, dropped, or placed but has not detonated and therefore poses an ongoing danger.

The training is conducted in accordance with guidelines from Myndigheten för Civilt Försvar (MCF) and is part of the capability that all emergency services in Sweden must build up in response to a changing threat landscape and increased demands on civil preparedness.

## The Role of Rättningstjänsten

In this type of incident, the emergency services' responsibility is clear—they are not to render the ammunition harmless, but rather:

- Identify and assess the risk
- Cordon off and secure the area
- Protect lives and property
- Alert and coordinate with the appropriate agencies, primarily Försvarsmakten responsible for clearing





### Exercise 1 – Port Environment and Suspicious Objects

One of the scenarios took place in a port environment where a NATO ship was docking and port workers discovered suspicious objects.

Räddningstjänsten's task was to:

- Identify and assess the risk
- Mark and cordon off the area
- Ensure proper notification to Försvarsmakten for munitions clearance

### Exercise 2 – residential area, submunitions and fire

In a second scenario, operations were practiced in a residential area following a simulated airstrike.

This scenario involved so-called submunitions (cluster munitions)—small bombs scattered over an area where a significant proportion may fail to detonate, thereby posing a major danger to both the public and emergency personnel.

As fires break out in the built-up area, emergency responders face a classic yet difficult trade-off: saving lives versus ensuring their own safety.

The operation includes:

- Identification of unexploded ammunition
- Zoning and cordoning off
- Limited life-saving operations under controlled risk
- Cooperation with the military and police

### Communication as an enabler

During the exercises, communication was conducted via Sepura Rakel terminals in combination with the INVISIO system.

This enabled clear and secure communication even at a distance and in noisy environments—a crucial factor for leading and carrying out operations in complex and high-risk situations.

### Summary

The exercises clearly demonstrate how requirements are changing and how emergency services are now training for scenarios that were previously primarily military—and which are now part of civil preparedness throughout Sweden.

We are deeply grateful for the opportunity to participate in this important, educational, and at times somewhat unsettling experience.



# BOREAL SJØ EXTENDS THEIR COOPERATION WITH NORTHCOM FOR FIVE MORE YEARS

Boreal Sjø has renewed its agreement with Northcom for an additional five years. The agreement covers the delivery, operation, and support of network solutions aboard 55 vessels and builds on a partnership that began in 2020.

The agreement continues a solution that ensures stable network access to operational systems, crew, and passengers on ships operating along large parts of the Norwegian coast—a prerequisite for safe operations, communication, and passenger services aboard modern ships.

## **A look back – the background to the collaboration**

When Boreal Sjø contacted Northcom in 2020, the company needed to upgrade the network solutions on its ships. The existing infrastructure was no longer sufficient to meet the demands for stable coverage, safe operations, and the growing need for reliable network

access—for crew, passengers, and mission-critical systems alike.

The ships operate along large parts of the Norwegian coast, often in areas with varying coverage. Lack of uptime created both operational challenges and risks to the business. At the same time, Boreal was dedicating significant internal resources to IT-related tasks and wanted a single point of contact for support and follow-up.

After discussions and testing, the choice fell on an SD-WAN-based solution with Peplink equipment, combined with monitoring and a service agreement provided by Northcom.

## **Today – an established solution**

Boreal Sjø is now equipped with Peplink-based network solutions on a total of 55 vessels. The solution forms the backbone of the onboard digital infrastructure and is used for everything from mission-critical systems and secure communication to crew and passenger networks.

Over the years, the solution has been further developed in line with Boreal Sjø's needs and requirements from authorities and procurement processes. Stable uptime, secure data traffic, and predictable operation are among the main reasons why Boreal has now chosen to extend the partnership for another five years.

We operate in some of the most demanding waters along the Norwegian coast. That's why we need solutions we can rely on, every day. Northcom delivers quality and support that allow us to focus on what matters most: safe and stable transportation for everyone traveling with us, says Christian Meland, ICT consultant at Boreal Sjø.

## **How the solution works on board**

The solution, developed in collaboration between Boreal and Northcom, consists of several interacting components that together ensure stable network access, high availability, and secure operation—even along demanding coastal routes.



## The onboard network infrastructure

To ensure stable network access along the Norwegian coast, Boreal uses a network solution based on technology from Peplink. The solution is designed so that multiple mobile connections can be used simultaneously, and so that traffic can be managed and distributed in a controlled manner.

### The main router on board

At the heart of the installation is the Peplink MAX HD4, which serves as the main router on board. It aggregates mobile connections from multiple operators and routes the traffic into the ship's network. The router is designed to handle heavy traffic and serves as the central unit that controls the connections and the onboard network.



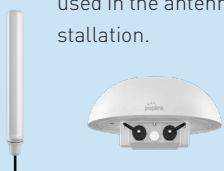
Boreal is also gradually upgrading to the Peplink MAX HD4 MBX, which is a more robust and modular version of the same platform. Two ships have already adopted this model. The transition is part of the shift from 4G to 5G and makes it possible to upgrade modem modules as new technology is introduced without replacing the entire router.



The Peplink MAX HD4 serves as the main router in the onboard network solution and is being gradually upgraded to the modular Peplink MAX HD4 MBX model.

### Antennas and mobile coverage reception

Mobile coverage is provided via maritime antennas designed for operation at sea. The Peplink Maritime 40G is used as the antenna for the modems in the Peplink MAX HD4 / MAX HD4 MBX router. In addition, the Peplink Dome Pro Duo is used in the antenna installation.



Maritime antennas ensure stable mobile coverage reception for the ship's network solution

The Dome is a compact, weather-proof unit that combines both an antenna and a modem. On ships with higher traffic demands, the modem function can be moved into the main router, so that traffic is managed centrally there.

### Centralized connection management

An important part of the solution is Peplink Synergy Mode, which is used throughout the installation on board Boreal's ships. In this model, the Peplink MAX HD4 / MAX HD4 MBX functions as the main router and consolidates modems and connections into a single central unit.

By consolidating management and traffic handling in the main router, the solution becomes more transparent and robust. Changes, such as swapping SIM cards or adjusting connections, can be made from a single location instead of on each individual device. This simplifies operation and monitoring, especially on ships with extensive network equipment.

Synergy Mode also makes it possible to aggregate the capacity of multiple modems and connections simultaneously. This allows multiple networks to be used in parallel, providing better redundancy and more efficient use of Peplink's bandwidth bonding technology.

The solution is monitored and managed via the Peplink InControl 2 platform, where you can track the status of the vessels, make configuration changes, and get an overview of connections and traffic. This makes it possible to manage much of the operation centrally without having to make changes on board each individual vessel.

**Boreal operates in a demanding environment along the Norwegian coast, where stable communication is crucial. Together, we have built a solution that provides high uptime and flexibility, and that can be further developed in line with new needs, says Johanna Gustafsson, Key Account Manager at Northcom.**

### The onboard network

Once the connection is established via the router, the network is distributed further through the ship's internal infrastructure. The router also ensures that different networks are kept separate using VLANs, so that mission-critical systems, technical systems, and passenger networks can operate in parallel without affecting each other.

Peplink switches are used here, including a 48-port PoE 2.5G switch, which serves as a central connection point for the onboard systems. Wireless coverage is provided via the Peplink AP ONE AX, which delivers Wi-Fi throughout various areas of the ship.



The switches connect equipment such as navigation systems, ticketing systems, payment solutions, cameras, and other technical equipment. Access points provide stable wireless coverage for both crew and passengers on board.

### An agreement built on trust and availability

The extension of the partnership involves a framework agreement for equipment, combined with a comprehensive operations and support agreement. The agreement is designed to ensure stable operation, rapid response, and predictability in a daily environment where uptime is critical.

As part of the agreement, Northcom provides maintenance and support 24/7, year-round. The agreement includes reactive monitoring and handling of operational deviations, where Northcom receives notifications if errors occur or devices go offline, or when the customer reports incidents. The notifications are handled by Northcom's security team, which is available 24/7 and can take the necessary measures to restore the system to normal operation.

The service is designed with a target uptime of at least 99.7 percent per month, which is crucial for the stable operation of onboard systems.

In addition, the agreement covers ongoing maintenance, updates, and license management, documenta-

tion and review of incidents during regular status meetings, as well as coordination with any third-party suppliers as needed.

Biweekly status meetings maintain close communication between the parties. This ensures a clear overview, rapid resolution of any challenges, and continuous improvement of the solution.

For Boreal, this means that Northcom manages the majority of the network, operations, and monitoring. This means that internal resources can be freed up from IT-related tasks to a greater extent and used where they add the most value.

As part of the partnership, Northcom also serves as an advisory partner for Boreal, responsible for presenting new products and solutions, as well as continuously optimizing and testing the onboard system solution.

The fact that the agreement is now being extended for another five years is a clear confirmation that the partnership is working—and a vote of confidence in both the solutions that have been delivered and the dialogue that has been built up over time between Boreal Sjø and Northcom.

### A partnership built for continued operation

For Boreal Sjø, the extension of the agreement with Northcom is about more than just technology. It represents predictability and a partner that takes responsibility for critical infrastructure.

Over the next five years, the partnership will continue, with a focus on stable solutions, close dialogue, and reliable network access.

Boreal's decision to renew the agreement is a clear confirmation of the value of the partnership built since 2020.



New product from Cybertel

# CYBERTEL LM84

– the next-generation MCX unit for critical communications

## Designed for the future of emergency communications

The Cybertel LM84 is a new-generation mission-critical device (2026) developed to meet the growing demands of critical communications. With support for 4G and 5G, as well as a design inspired by traditional TETRA radio units, the LM84 offers a smooth transition from older systems to modern MCX solutions.

The device is aimed at organizations in sectors such as emergency services and security—where reliable communication is crucial.

## A bridge between TETRA and Broadband

One of the biggest challenges in the transition to MCX is the user experience. The LM84 was developed with this in mind.

With its TETRA-like form factor and physical buttons, it enables:

- Immediate recognition for users of traditional radio systems
- Reduced training requirements during implementation
- Efficient use in high-stress and operational environments

This makes the LM84 a strategic tool in the transition to, for example, SWEN, ESN, and other broadband-based communication platforms.

## Optimized for operational use in the field

Unlike many other MCX devices, the LM84 is not just a ruggedized smartphone—it is built for operational use.

It combines:

- Powerful audio with a 3W front-mounted speaker
- 4.1-inch display for an improved situational awareness
- Physical controls for quick access to critical functions
- Rugged design for use in demanding environments

The result is a device that works just as well in gloves, rain, and noisy environments as it does in control rooms.

## MCX in focus

The LM84 is designed to fully support mission-critical communication over broadband networks. This means:

- Focus on MCX services as the primary communication channel
- Full integration into modern communication platforms
- Support for advanced features such as group communication, video, and data

Unlike hybrid solutions (such as devices with fallback to DMR or 450 MHz), the LM84 is optimized for organizations actively transitioning to broadband-based communication.

## Developed for the next step in critical communication

With the introduction of the LM84, Cybertel clearly points the way toward the communication solutions of the future—a combination of proven user experience and the power of modern networks.

For organizations facing the modernization of their communications infrastructure, the LM84 offers a balanced path forward—without compromising on either usability or performance.



# TOTAL CONTROL. WHEN IT MATTERS MOST.

Clear communication  
and protected hearing –  
even in noise, stress and  
critical situations.

**3M**  
PELTOR™

**Northcom Incident Commander Kit is a cheaper  
but very good system.**

**Used with a light helmet or other headgear, not a fire helmet.  
Separate kit for driver/pump operator.**

## 3 MAIN POINTS

- **Hear everything that matters**  
Clear speech – even in loud noise
- **Stay in control**  
One or two calls – simultaneously
- **Protect your hearing**  
Without losing communication

Northcom – leading provider of critical communications

**NORTHCOM**  
WHEN COMMUNICATION MATTERS

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# NORTHCOM MULTIBRIDGE

## – THE BRIDGE TO SECURE COMMUNICATION

Today's geopolitical situation has made it essential to strengthen national preparedness and defence capabilities. Risk and vulnerability assessments (ROS analyses) are being conducted nationwide to evaluate the nation's resilience and current state of readiness. National agencies, counties, and municipalities have all been tasked by the government with increasing preparedness measures and ensuring that Norway is ready for potential crisis and war scenarios.

Although Norway is not currently at war, the nation is under continuous digital attack targeting critical electronic communications infrastructure (EKOM systems). In virtually all risk assessments, the loss of communications infrastructure is consistently ranked among the top three scenarios in terms of both probability and risk. The consequences of a prolonged and widespread EKOM outage would be severe.

What happens when radio towers and mobile networks are down and the power grid is unavailable for days or even weeks? How do authorities communicate with the public, emergency services, county governors, municipal leaders, and regions across the country?

In the fall of 2025, Northcom began developing a fully redundant emergency communications solution designed specifically for such scenarios: Northcom Multibridge.

Multibridge is the first emergency preparedness solution that combines TETRA modem technology (supporting both TMO and DMO) with LEO satellite communications (Starlink) and mobile networks. The TETRA modem is prepared for use with the Norwegian Nødnett system and includes end-to-end encryption. This enables emergency services and critical operators to maintain secure communication lines both locally and nationally, a key factor in improving coordination and operational efficiency during local or nationwide communication outages.

In addition, the solution includes integrated 5G/4G routing capabilities, enabling both voice and data communication through either mobile networks or LEO satellite connectivity. Multibridge can also function as a Wi-Fi hotspot, providing internet access to nearby users and rescue teams.

With up to 36 hours of battery life and the ability to charge via solar power, the system is designed to remain operational long enough to establish alternative power sources and maintain critical communication capabilities during extended outages.

**Is Multibridge intended only for worst-case scenarios? Absolutely not.**

Norway's challenging geography and vast distances create daily operational challenges in areas with poor radio and mobile coverage. This makes Multibridge highly valuable, not only in emergencies, but also in day-to-day operations where reliable communication is crucial. In addition, Norway has thousands of critical infrastructure sites that require





communication redundancy, making Multibridge an ideal solution for locations such as water supply systems, power generation facilities, and other critical installations.

Due to the complexity of customer requirements and operational environments, Northcom has developed several versions of the solution:

- Multibridge Emergency Case – portable deployment unit
- Multibridge Vehicle – installed in cars, heavy-duty vehicles, ATVs, and snowmobiles
- Multibridge Maritime – designed for all types of vessels
- Multibridge Fixed – permanent installation for offices, command centers, and fixed locations

#### **A new standard for resilient communication**

In a world where communication infrastructure has become both critical and vulnerable, resilient and secure communication is no longer optional—it is essential. Northcom Multibridge is designed to ensure that organizations, emergency services, and critical infrastructure operators remain

connected when conventional systems fail.

Because when everything else goes wrong, communication must remain operational.

# INDOOR COVERAGE

## A PREREQUISITE FOR SECURE COMMUNICATION IN HARD-TO-REACH AREAS



### Indoor coverage – the technology that keeps communication alive

In today's society, reliable communication is crucial—especially for emergency services, industry, transportation, and critical infrastructure. But modern buildings, tunnels, and underground facilities often pose major challenges for radio signals. Concrete, steel, and long distances cause signals to weaken or be completely blocked. The solution is to build indoor coverage systems.

### How an indoor coverage system works

The foundation of a traditional indoor coverage system is the same regardless of whether the technology is based on TETRA or LTE. The system consists of three main parts: a donor antenna on the outside of the building, a repeater that amplifies the signal, and an indoor network of antennas that distribute the signal further.

The external antenna captures the radio signal from a base station and transmits it to the repeater. The repeater's task is to amplify the signal before it is distributed throughout the building via antenna cables and a number of strategically placed indoor antennas. The number of antennas required depends on the size and layout of the premises.

In larger buildings and complex environments, planning is crucial

to ensure even coverage and high signal strength on all floors.

### Communication in Tunnels and Underground Environments

Tunnels and underground facilities place special demands on radio communication. Fiber-fed repeaters are often used there in conjunction with so-called leaky cable.

The principle is the same as in standard systems—the radio signal is captured outdoors—but the signal is then converted into a fiber-optic signal that can be transmitted over long distances with minimal loss. Inside, the signal is converted back and distributed further via repeaters and leaky cable.

The leaky cable functions as both an antenna cable and an antenna at the same time. The technology makes it possible to create uniform radio coverage in, for example, tunnels, elevator shafts, and long corridors where traditional antennas are insufficient.

### The Repeater's Important Role

The heart of the system is the repeater. Its task is to amplify the radio signal in both directions—both downlink and uplink.

The downlink is the signal from the base station to the user indoors,

while the uplink is the communication from the user back to the network. For the system to function optimally, the repeater must be able to handle both very weak signals and strong signals without compromising performance.

This requires careful calibration during commissioning. Technicians adjust the gain depending on the environment, distance, and the frequencies being used.

### The components behind a complete system

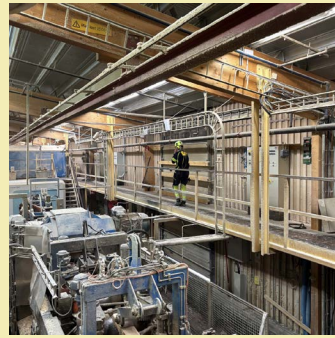
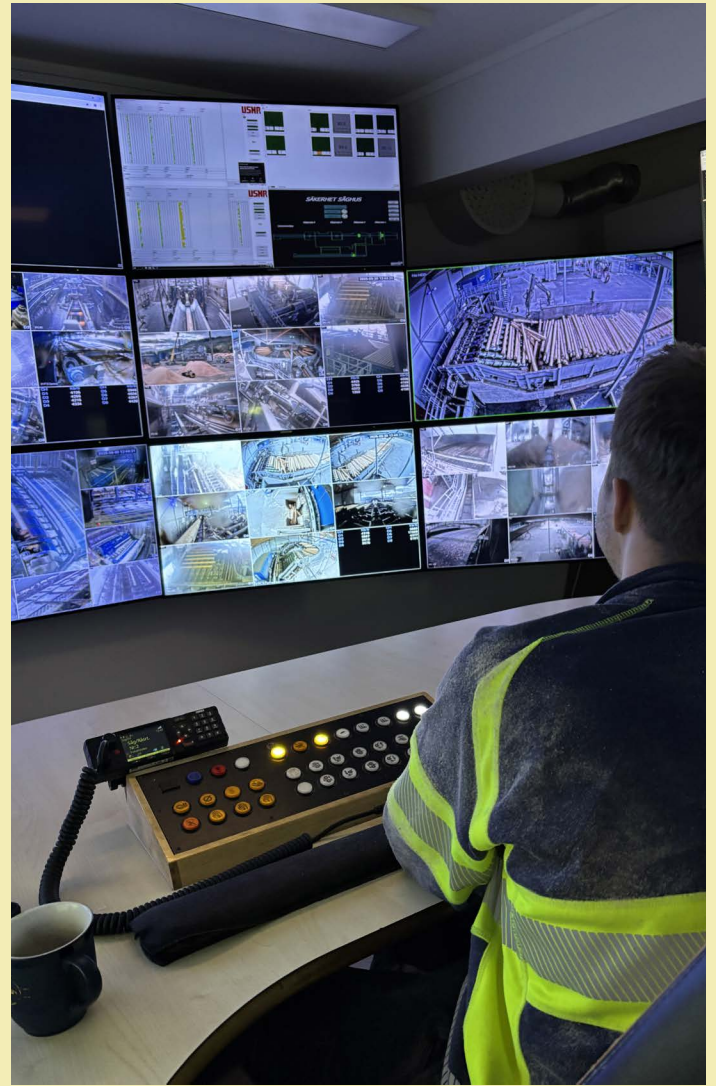
An indoor system is supplemented with splitters, taps, and antenna cables that ensure the correct signal level throughout the installation.

The choice of cable is particularly important because different cable types have different attenuation characteristics. In large installations, small losses can have a significant impact on the final result.

To protect the equipment, surge protectors—known as EMP protectors—are also used to minimize the risk of damage from power surges or electrical interference.

### LTE – More Frequencies and Greater Complexity

When it comes to LTE-based indoor coverage, the complexity increases further. Unlike Tetra, the systems often have to handle multiple mobile operators simultaneously, such as Telia, Tele2, Telenor, and 3.



**Fiskarheden uses TETRA radio for communication in daily operations, and Northcom has built enhanced coverage in the sawmill.** In this work environment, which is fraught with risks in many ways, safety is absolutely crucial for the staff, and therefore it is of the utmost importance that communication functions securely and reliably throughout the facility.

In addition, several different frequency bands are used in parallel—including 800 MHz, 900 MHz, 1800 MHz, 2100 MHz, and 2600 MHz. Each frequency has different characteristics in terms of range and penetration.

Building an LTE system therefore requires both an operator license and advanced planning to ensure that all components work together seamlessly.

#### GPS coverage is becoming increasingly important

Today, GPS signals also need to be distributed indoors. For operations such as ambulances, emergency services, and transportation, access to navigation systems is often business- and

operation-critical.

An indoor GPS system works the same way as other radio systems: an external antenna picks up satellite signals and sends them to a repeater, which retransmits the signal indoors.

The systems can be expanded modularly with splitters and multiple repeaters to cover larger areas. In tunnels, series-connected solutions are often used, where multiple units work together to create stable coverage over long distances.

#### Operational Monitoring and Remote Support

Modern indoor coverage systems are not just about signal strength—monitoring and opera-

tional reliability are just as important.

Larger repeaters are now equipped with SNMP protocols, which allow for remote monitoring of the systems via our NOC (Northcom Operation Center). Any faults or operational disruptions can then be detected immediately, and alerts can also be forwarded via SDS or SMS to the responsible users.

For the customer, this means increased operational reliability and faster troubleshooting. For us, it means the ability to work proactively and minimize outages before they impact operations.

#### From design to finished solution

A professional indoor coverage system always begins with careful planning. On-site conditions are analyzed, signal measurements are taken, and the placement of components is reviewed in detail.

This is followed by a detailed design, installation, and commissioning, during which technicians perform signal strength measurements, program repeaters, and conduct tests according to established protocols. Finally, complete system documentation is delivered to the customer.

The result is a stable and future-proof communication solution—tailored for operations where reliable radio communication is not a luxury, but a necessity.

# MIMER 2026

- SAME EXPERTISE. GREATER RANGE.

## **LS Electronics with Mimer SoftRadio, continues to evolve alongside a rapidly changing market.**

As part of Northcom, LS builds on what has made the Mimer portfolio a global leader in Radio-over-IP. With deep technical expertise and strong references in Nordic defence, international air traffic, public transportation, energy, and maritime sectors.

Global demand for software-defined radio communication is growing rapidly. Older radio networks are reaching the end of their lifecycle, and organizations worldwide are seeking solutions that integrate with existing environments rather than replace them. Mimer SoftRadio is built for exactly that, and we are se-

eing growing demand from customers in the Nordic region, Europe, North America, Asia, and the Middle East.

To meet that demand, we have invested over the past year in how we reach and support our customers. We have strengthened our partner network so that more integrators and resellers can deliver Mimer solutions locally, regardless of time zone.

As part of this effort, the latest edition of the Mimer Product Catalog is now publicly available at [lse.se/mimer-product-catalogue](https://lse.se/mimer-product-catalogue).

A common reference for customers, system integrators, and partners when designing system solutions, ranging from the SoftRadio platform and integrations to hardware and accessories.

LS has also structured its product offering to make it faster and easier for partners to get started, while of course continuing to provide the expertise required for more complex system deliveries. The company has also enhanced its digital customer interface, from the website to support, so that information, documentation, and assistance are available where and when you need them.

What remains unchanged is what LS has always stood for: a technically superior Radio-over-IP system, vendor-neutral by nature, built for the most demanding environments. What is changing is how we do it—faster, more scalable, and in collaboration with more partners globally.

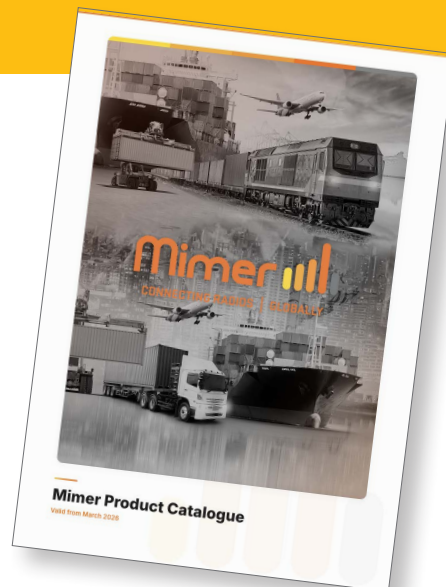


# NEW PRODUCTS

## Mimer Product Catalog

Mimer's product portfolio continues to grow, and with it, the path to accessing it needs to become simpler. The latest edition of the Mimer Product Catalog brings together our entire offering in one place—from the SoftRadio platform and integrations to hardware and accessories—and serves as a common reference for customers, integrators, and partners when designing system solutions.

The catalog is available and open to everyone at  
**[lse.se/mimer-product-catalogue](https://lse.se/mimer-product-catalogue)**



## Mimer Agent – now live on lse.se

Setting up Radio over IP and dispatcher solutions shouldn't be any harder than it needs to be. To make it easier for engineers, integrators, and sales teams to quickly find the right information, we have launched Mimer Agent on our website, powered by our complete documentation and compatibility guides.

Mimer Agent provides technical installation guidance, assists with interface and product selection for RoIP and VoIP installations, supports the design of multi-site and dispatcher systems, answers sales questions, and supports partners in their daily system sales work.

The chat icon is located at the bottom right of **[www.lse.se](https://www.lse.se)**.



# NEW PRODUCTS

## Mimer Multi X-Bridge

When operators need to access radio sites in multiple locations—and everything must be logged for regulatory compliance—a traditional setup quickly becomes a tangled web of servers, repeaters, and logging equipment. Mimer Multi X-Bridge (MXB) consolidates this into a single platform where all operators can access all sites, regardless of where they are located in the network.

MXB is managed via a standard web interface and works just as well in an on-premises server room as it does with a cloud provider. It connects radio units and operators over IP—LAN, WAN, or the internet—with no limit on the number of connections.

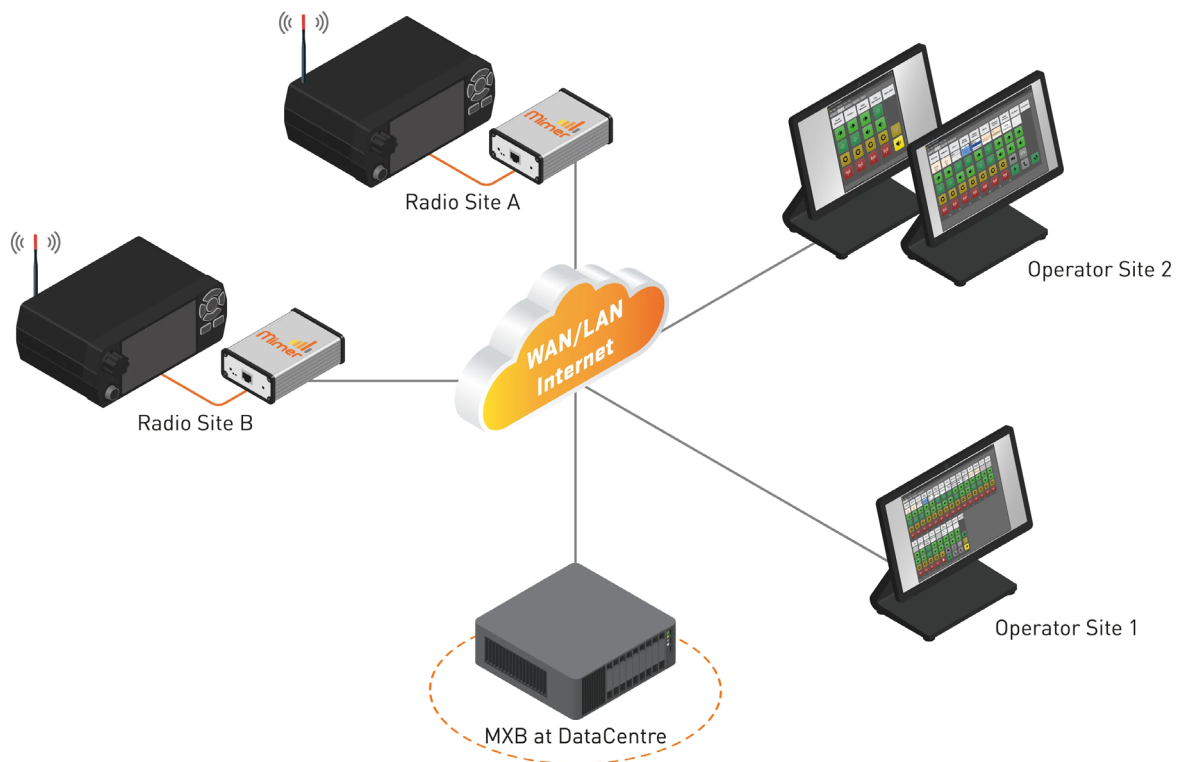
When operations require full operational reliability, MXB can run in

Hot Standby mode, where a second server automatically takes over in the event of a failure or during maintenance. Mimer VoiceLog can be connected directly for complete audio recording where compliance is a requirement.

Delivery is available either as a pre-configured hardware server or as

an installation on your own Ubuntu server. MXB is fully backward compatible with existing Mimer systems, so existing installations can be modernized gradually.

More information is available at [lse.se/mxb](https://lse.se/mxb).



## Mimer API

With the Mimer API, customers and integrators can control radios directly from their own software. This enables the creation of custom dispatcher interfaces, the integration of radios into existing operational systems, or the bridging of Push-to-Talk (PoC) services into professional radio networks.

The API acts as a bridge between the radio infrastructure and the customer's application. Mimer Network Interfaces handles the radio side—Tetra, DMR, or analog—and the API offers a developer-friendly WebSocket connection for the application side. A working integration typically takes days, not weeks, regardless of the underlying radio system.

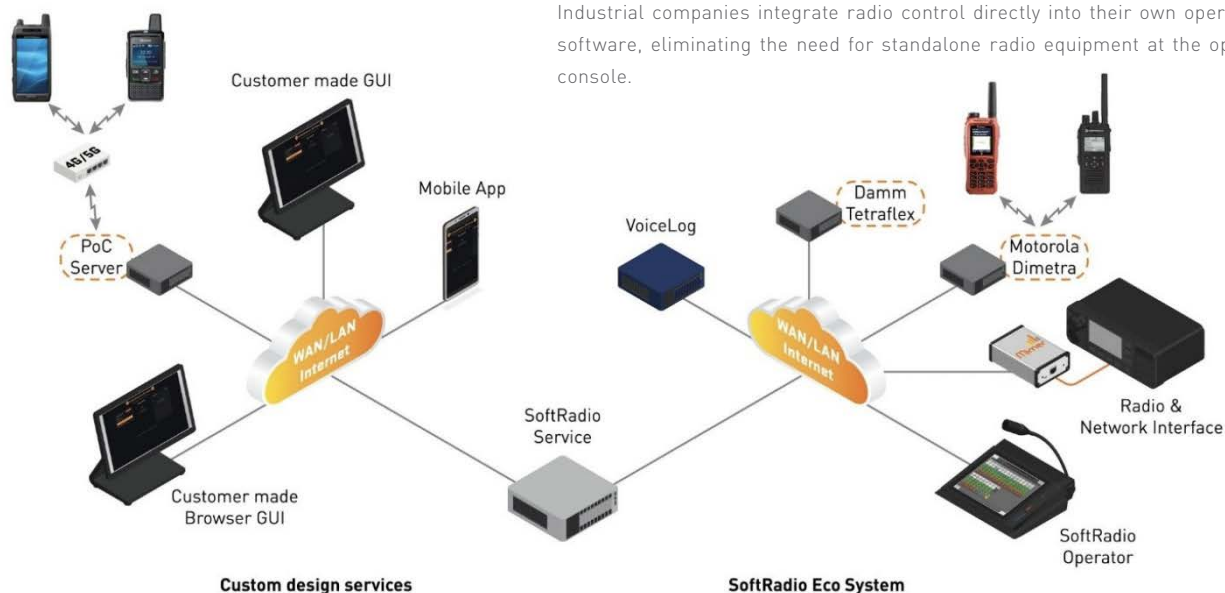
The API supports real-time audio via WebRTC and RTP with less than 200 ms latency, encrypted authentication, and multiple operators sharing the same radio. For Tetra, there is direct integration with Motorola Dimetra and DAMM TetraFlex without a donor radio—a solution suitable for large-scale operational environments.

In production, the Mimer API is used by everyone from transportation operators replacing dedicated radio hardware on dispatch desks to companies managing radio communication aboard autonomous ships.

More information is available at [lse.se/api](https://lse.se/api)

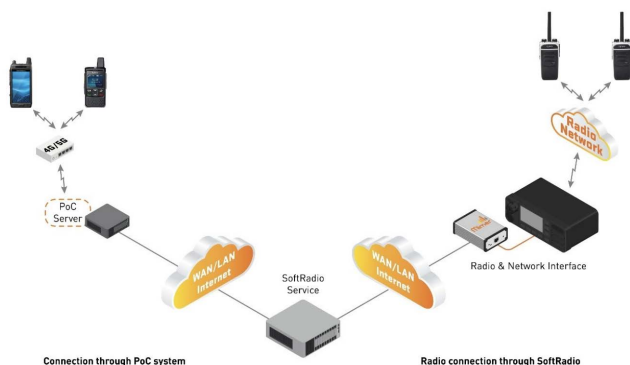
### Industrial Integration

Industrial companies integrate radio control directly into their own operational software, eliminating the need for standalone radio equipment at the operator console.



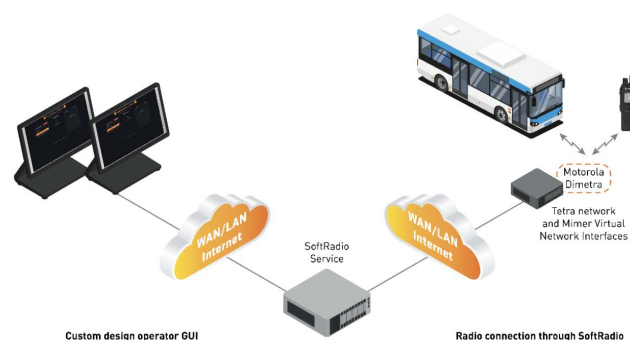
### PoC bridging

Push-to-Talk across mobile platforms connected to professional radio networks. A PoC system provider creates its own interface to the Mimer API and connects PoC talk groups to one or more radio channels.



### Solution for transportation dispatchers

Bus and train operators integrate radio control into their existing dispatch systems and replace standalone radio hardware at the operator console.



# NEW SOLUTION ENSURES FAST NETWORK COVERAGE FROM THE ARCTIC TO THE DEEPEST FJORDS

It is May in Bergen, and the Hurtigruten ship MS Trollfjord is moored at Tollbodkaaien. Over the course of three days ashore, various maintenance tasks are carried out—and **brand-new communication equipment is being installed.**

**On the ship's roof is a dome housing two 5G transmitters, GPS, and WiFi. This ensures seamless contact with the outside world, while significantly reducing complexity.**

Kristoffer Halvarp, Technical Manager for Maritime IT and OT Systems at Hurtigruten, vividly recalls the time it took to load VG.no—about as long as it takes to drink a cup of coffee.

"When I started at Hurtigruten, we had 512 kbps connections. It was completely impossible to watch videos online," he says.

The difference in speeds is particularly noticeable in areas that have traditionally been "black holes" for coverage, such as Magerøysundet in Finnmark and Trollfjorden in Nordland.

The combination of 4G and 5G works so that one carrier seamlessly takes over for the other when coverage demands it. Peplink manages traffic in real time.

"That means you can join a Teams call without experiencing a single interruption. And that's impressive

when you're entering a steep fjord with mountains on both sides," says Halvarp.

## A technological generational shift

In recent months, Hurtigruten has undergone a radical restructuring of its network architecture. All traditional communication has been phased out.

"Previously, we relied solely on 4G voice for telephony, but now we run everything over the new connection. The flexibility to choose the right data from the right operator is key.

It started with a desire for a solution better suited to Hurtigruten's operations. With a length of 136 meters, a width of 21.5 meters, and a gross tonnage of 16,140, the MS Trollfjord has a capacity of 500 passengers on its Svalbard voyages. In addition, the fleet includes nine other vessels.

"If you view Hurtigruten as a hotel chain, they're quite large." Both crew and guests expect good Wi-Fi, wherever they are, Halvarp emphasizes.

Through its IT partner Atea, the shipping company was connected to Northcom. Atea realized that Northcom's expertise in critical communications and their portfolio of Peplink and Starlink solutions were exactly what the shipping company needed.

"We decided to run the Northcom solution as a proof of concept on a ship at the end of 2025. It was very successful, so we decided to bring in another ship to confirm it," says Halvarp.

Since the start of the year, the rollout has been moving at a rapid pace. Today, all ten of Hurtigruten's ships, plus a charter ship in Svalbard, have switched to the new architecture.

## Control and flexibility

Halvarp gives a tour of the MS Trollfjord. From the layout of the bridge to the depths of the engine room, there is communication equipment that must function even under extreme conditions. One of the hidden changes is visible in one of the ship's two server rooms.

"We've replaced equipment that previously took up two rack cabinets two meters high with a small unit in a single rack. It does the same job," says Halvarp.



New components from Northcom in the ship's server room. Photo: TUM Studio

Peplink routers are central to the consolidation. With this technology as the brain, Hurtigruten now has total control over the various internet service providers. This means the ships can select the right data source in real time.

– We can now see the traffic from A to Z. Right from the guest's or employee's device and out onto the internet. The solution is flexible; you can manage traffic in bulk and have a policy for multiple ships at the same time," explains Halvarp.



Photo: Espen Mitts / Hurtigruten

With Peplink's management software, the onboard electrician can simultaneously log in locally and view the status of all network operators.

#### Starlink as a standard WAN connection

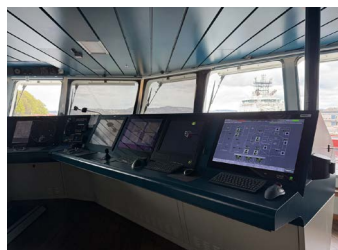
Starlink is a key part of the new solution. Halvarp believes that Peplink is one of the best systems for integration with the satellite network.

– Peplink works very well with Starlink. You don't need to go into Starlink's menus; everything can be controlled via InControl 2. You get all the statistics you need in the dashboard. In the future, integration with Peplink devices will also be available," says Halvarp.

Hurtigruten uses two versions of Starlink: one for the open sea and one for coastal areas. The system switches automatically when the ship moves beyond 12 nautical miles. Within this limit, the mobile network is prioritized.

The significantly more expensive Starlink solution at sea is therefore only used when needed.

With maritime domes equipped with eight-way networks, Hurtigruten has managed to maintain a stable data connection up to seven nautical miles from the coast, using only the mobile network.



Redundancy is important in Hurtigruten's communication strategy. Photo: TUM Studio

#### Redundancy at all levels

For a shipping company operating in the Arctic, it is crucial that systems do not go down. Northcom and Hurtigruten have built an architecture with three-tier failover mechanisms:

Operator level: If Starlink goes down, 5G takes over—and vice versa.

"We have redundancy when it comes to communication, so whether an operator goes down or the Starlink constellation has issues, there's still connectivity. We also have dual power inputs," says Halvarp.

Infrastructure level: Hurtigruten has two physical hubs in Norway, plus FusionConnect as a third backup in the cloud.

– We have built redundancy into every part, even when it comes to our hub strategy. If one of the hubs goes down, it automatically switches to the next one. If that one goes down as well, it automatically switches to the cloud.

Hardware level (phase two): The next phase will involve full hardware redundancy, with dual routers operating in parallel.

#### First shipping company in the world with Starlink in the Arctic

Hurtigruten was the first cruise line in the world with full Starlink coverage in the Arctic.

"We've been pretty far ahead when it comes to technology. Now bandwidth is unlimited, with as many Starlinks as we can handle. It's night and day compared to how it used to be," says Halvarp.

With the new architecture, Hurtigruten can easily add additional services, such as OneWeb, without having to replace existing equipment.

#### Managed Services: Independent with Backup Coverage

Although Hurtigruten now has full control, the Northcom contract provides important security through delivery, operation, and support.

"We provide services and can take over and manage all equipment for customers who wish to do so. We have a 24/7 security team, even though some customers choose to be more independent. "It's important to have a partner who is available and flexible," says Erik Kværnmo, Key Account Manager at Northcom.

For Hurtigruten, this means that response times in the event of a failure are significantly reduced. If something goes wrong, they can log in to a portal and immediately see what the problem is.

"Solutions like this are used in everything from small fishing boats in the north to large cargo ships and cruise ships sailing all over the world," says Kværnmo.

"The most important thing about this setup is that everything works regardless of whether we're docked in Bergen or passing Svalbard in a storm". It's also something we can build on in the future," concludes Halvarp.



Kristoffer Halvarp, Hurtigruten and Erik Kværnmo, Northcom. Photo: TUM Studio



# EXHIBITIONS

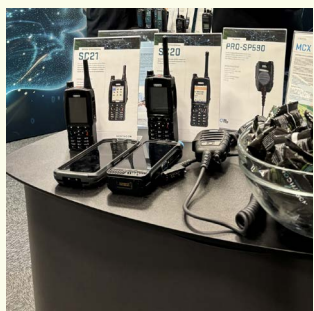
## UNDERHÅLLSMÄSSA



### GOTHENBURG | MARCH 10-13

It was our first time exhibiting at Underhållsmässan på Svenska Mässan in Gothenburg, and for four days, visitors could find Ulf and Erik at our booth, where we showcased tomorrow's communication solutions for a secure future.

As Northern Europe's leading meeting place for operational safety and maintenance issues, Underhållsmässan offers a cross-industry forum where technicians and decision-makers encounter the technology of the future and can share experiences. The event is cross-industry but with a focus on the industrial sector. Around 300 exhibitors and up to 9,000 visitors from a wide range of industries participate.



## WESTERVIK

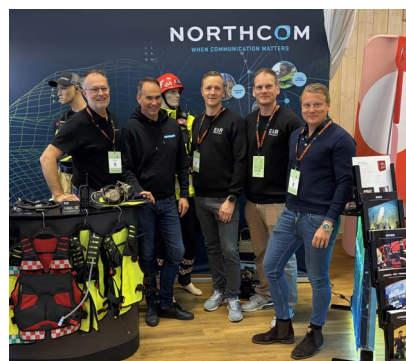


### VÄSTERVIK | MAY 20-21

Once again this year, we were on-site as exhibitors at Brand & Räddning 2026 at Gränsö Slott in Västervik.

Brand & Räddning is a major trade exhibition that brings together emergency services, government agencies, and the business community. The focus is on fire, rescue, civil defence, and emergency preparedness. The exhibition features product exhibitions, networking, and practical demonstrations.

At our stand, we showcased products for critical communications, including solutions from Invisio, Sepura, and Icom.



## EURO EXPO



### PITEÅ | MAY 6-7

Northcom participated in the Euro Expo trade show in Piteå in May. Our stand showcased industrial communication products and solutions from companies such as Icom, Sepura, DAMM, Peplink, 3M Peltor, Zebra, and ProEquip. The trade show will return to several locations in Sweden throughout the year, and we'll be there in Örnsköldsvik on October 14-15. We look forward to seeing you there!



## SAMVERKANSKONGRESSEN UPPLANDS VÄSBY | MARCH 25-26



Northcom participated in this year's Samverkanskongressen at Scandic Infra City in Upplands Väsby.

Samverkanskongressen is a new meeting place for the emergency services sector and is an updated version of the former "Ambulanskongressen". We are stronger together, and the need for effective collaboration is more important than ever! Samverkanskongressen will therefore become the new meeting place for everyone working in the emergency services sector!

We showcased products and solutions from Sepura, Icom, Invisio, Cybertel, ProEquip, and others.

In addition to our knowledgeable Northcom staff, Mats and Tony from Equip & Rescue were also at our stand.



## FIDAE



### SANTIAGO, CHILE | APRIL 7-12

Our colleague Alvaro Perez attended FIDAE, Feria Internacional del Aire y del Espacio, held in Santiago, Chile, on April 7-12. FIDAE is one of Latin America's leading trade shows in the aerospace and defence industry and brings together industry professionals from around the world. Together with our partner Skytel Telecomunicaciones Limitada, Alvaro spent the week meeting with customers and conducting live demonstrations of our SoftRadio and X-Link solutions.

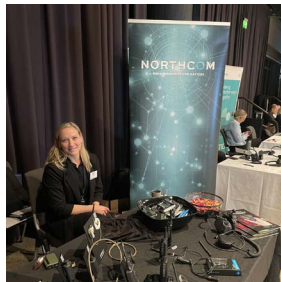


## HDO CONFERENCE



### OSLO AIRPORT | FEBRUARY 5

Northcom participated in the HDO Conference 2026 at Clarion Hotel Oslo Airport, one of Norway's most important venues for emergency preparedness, critical communication, and public safety. The conference focused on key topics such as the future of the national emergency network, resilience in emergency medical communications, and preparedness for infrastructure disruptions—all highly relevant to the work we do at Northcom. During the event, we showcased communication and radio solutions from INVISIO, Sepura, 3M PELTOR, and ProEquip, while also participating in valuable discussions and knowledge-sharing with professionals from across the industry.



## HOT SPOT



### KARLSTAD | FEBRUARY 11

Northcom was on-site at the Hotspot exhibition at Karlstad University. Hotspot is organized by Enheten för studentstöd at Karlstad University and is an annual job fair where companies have the opportunity to market themselves as employers to potential new employees. The fair is one of Sweden's largest, with over 130 exhibitors, and last year it attracted over 8,000 visitors.

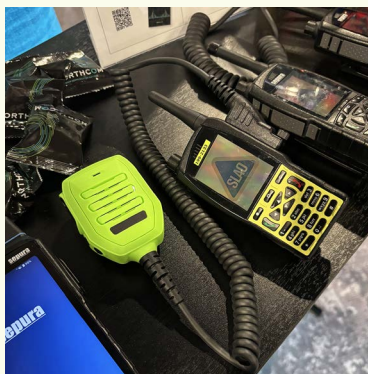


## FJÄLLANLÄGGNINGSMÄSSA



### STÖTEN SÄLEN | MAY 25-26

Over two days, we had a well-attended stand at this year's SLAO Days in Stöten, Sälen! The SLAO Days is an industry trade show where the days are filled with exciting speakers, exhibitors, and friendly colleagues from all over the Swedish ski industry. At our stand, we discussed communication solutions for ski resorts and alpine operations. We showcased products from Sepura, Icom, DAMM, and others.



## BAPCO

### UNITED KINGDOM | MARCH 25-26

Northcom attended this year's BAPCO in the UK.

BAPCO's annual event brings together the UK's emergency services community—where emergency services experts, technology innovators, and decision-makers meet to shape the future of emergency response.

BAPCO is organized by British APCO, a charity founded in 1993 and run by emergency services professionals. The charity is independent and exists to improve emergency services communication and technology for the benefit of all.

The trade show featured around a hundred interesting exhibitors from around the world, and approximately 2,000 people visited BAPCO during the event. Exhibitors offered practical demonstrations and live discussions, and there were also dedicated zones exploring AI and next-generation networks. Sepura was, of course, on-site as an exhibitor.



## FAGFORBUNDETS

## BRANNKONFERANSE

### GARDERMOEN | MARCH 18-19



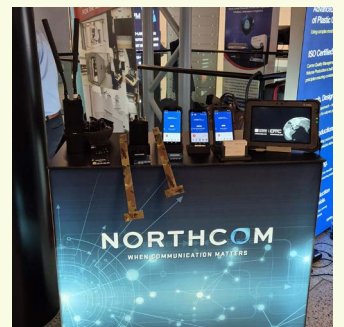
Northcom participated in the Fagforbundets Brannkonferanse, where we had the opportunity to meet professionals from fire and rescue services across Norway. During the event, we showcased solutions from INVISIO and introduced Multibridge for the very first time—our new mobile rescue unit designed to provide communication, 4G/5G, and WiFi when existing infrastructure is unavailable. Thank you to everyone who visited our booth and participated in the many great conversations and demonstrations during the conference.



## DDAC

### COPENHAGEN | FEBRUARY 5-6

Northcom participated in DDAC, the Danish Defence Industry Association's annual conference, in Copenhagen in February. DDAC is the annual event and two-day conference for the defence and security industry in Denmark. The event is organized by DI Danish Defence and Security Industries, CenSec, and Naval Team Denmark. Glenn, our Strategic Account Director Defence, was there to represent Northcom. He had many interesting conversations about critical communications and how Northcom can deliver mission-critical communication solutions tailored for defence and security operations.



## ØVELSE NORD



### BODØ | APRIL 20-22

Northcom participated in Øvelse Nord in Bodø, Norway's largest university-led emergency preparedness exercise, which celebrated its 30th anniversary this year. During the event, we presented Northcom Multi-bridge—a mobile platform for emergency situations designed to maintain TETRA radio communication and data access when primary systems fail. It was fantastic to meet the participants, share experiences, and showcase solutions that support reliable communication in critical situations.



## EURO EXPO



### BERGEN | MAY 20-21

Euro Expo Bergen was an excellent opportunity for us to meet both new and familiar faces from the industry. During two busy days at Vestlandshallen, we had many great conversations, shared experiences, and presented some of the solutions we work with at Northcom. Thank you to everyone who visited our booth.



## INTERNATIONAL DRONE SHOW



### ODENSE | JUNE 3-4

For the fourth year in a row, Northcom participated in the International Drone Show in Odense. IDS is the leading meeting place for the global drone and unmanned systems community and is organized by Odense Robotics. Our Strategic Account Director Defence, Glenn Møller, was there to represent Northcom. He was joined by our partners Codan - A DTC company and AC Antennas. At IDS, they discussed the latest and most advanced radio systems for controlling drones and other autonomous vehicles. The combinations are numerous.

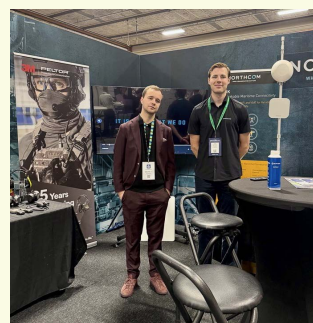


## INDUSTRIUKA



### PORSGRUNN | JUNE 3-4

We participated at Industriuka 2026 in Porsgrunn, a leading meeting place for industry, technology and critical infrastructure. At our stand, we showcased solutions from 3M, Peplink and Sepura, focusing on secure and reliable communication for demanding industrial environments. Industriuka provided an excellent opportunity to demonstrate how Northcom helps industrial organizations maintain safe, efficient and resilient operations through robust communication technologies.



# HPE

## NETWORKING PRIVATE 5G

**Hewlett Packard Enterprise (HPE)** is a global leader in enterprise IT and infrastructure with operations in over 170 countries. The company was founded in 2015 following the separation of Hewlett-Packard and has a clear focus on the enterprise segment. HPE develops and delivers solutions in networking, servers, storage, edge computing, and cloud services—with a particular emphasis on security, availability, and long-term operation.

HPE's technology is used in mission-critical environments where stability, performance, and support are essential. The company is a strategic partner to organizations that need a reliable, global supplier with deep technical expertise and a long-term commitment.

For Northcom, the partnership with HPE provides access to globally proven enterprise technology that can serve as the foundation for solutions where reliable communication is critical to business and society. Northcom's role is to translate this technology into practical, functional solutions tailored to the customer's operations, environment, and requirements.

In the private mobile network sector, HPE's offering is based on technology developed by Athonet, a company with extensive and recognized experience in mobile core network technology. Athonet is now part of Hewlett Packard Enterprise, which means that the expertise and solutions recognized by many in the industry are now being further developed and managed within HPE's global organization, with long-term support and continuous development.

By combining private mobile networks with other communication and networking solutions, Northcom, together with HPE, can deliver integrated solutions where different technologies work together. This enables robust, scalable, and future-proof solutions for businesses with high demands on availability, security, and control.

### Why private mobile communication?

Private mobile networks are approaching a tipping point where adoption is accelerating across a wide range of industries. Digitalization, IoT, and AI are driving demand, while technological advancements make it possible even for companies without deep cellular expertise to implement the solution.

With private mobile networks at the enterprise edge, organizations can complement their Wi-Fi and achieve the following:

- **High mobility with high speeds** for robotics and autonomous vehicles, both indoors and outdoors
- **Policy-based performance, low latency, and quality** for mission-critical communications and strategic applications
- **Wider coverage areas** with the ability to transmit and receive over longer distances
- **Reduced RF interference** through the use of locally allocated spectrum
- **Device-level control** with SIM-based authentication

### Key benefits

- **Full-stack solution** that includes everything needed for a private mobile network
- **Business simplicity** through Zero Touch Provisioning and configuration wizards for quick and easy deployment
- **Comprehensive visibility** into subscribers, applications, performance, and SLAs
- **Mature and proven technology** used by over 500 companies and 25 service providers globally
- **Integrated end-to-end solution** that simplifies procurement, deployment, and management



Indoor 4G



Indoor 5G

# HPE

## Components of HPE Networking Private 5G

HPE Networking Private 5G consists of the following components:

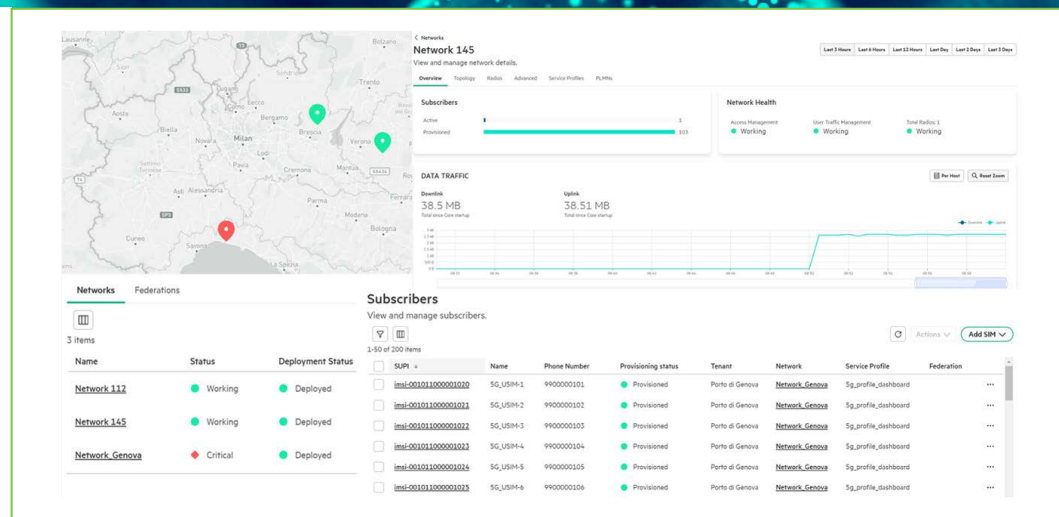
### Management Dashboard

The HPE Networking Private 5G Management Dashboard is a federated, multi-tenant management layer with an interface similar to HPE Aruba Networking Central for ease of use. It includes Zero Touch Provisioning and wizards for increased automation.

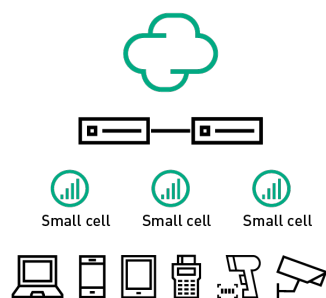
### Private 5G Core

HPE Private 5G Core is the “brain” of the mobile network and includes features for mobility control, subscriber management, and policy enforcement. The solution runs on an HPE ProLiant server.

The software includes all 4G and 5G services, making it possible to start with 4G (to support existing devices) and later migrate to 5G without upgrading the software version. The solution is based on award-winning 4G/5G core technology that has been in use for over 15 years and deployed to more than 500 enterprises.



### Simplification is key



Despite strong use cases, many companies have struggled to implement private mobile networks due to their complexity. Traditionally, these networks have required components from up to seven different vendors, as well as support from service providers with deep 3GPP expertise. In addition, spectrum has often needed to be purchased from mobile operators, which complicates the procurement process and increases costs.

HPE Networking Private 5G eliminates this complexity. The solution is based on leading mobile core technology and includes all the components required for a complete private mobile network:

- Indoor and outdoor small cells
- 4G/5G mobile core
- Hardware platform
- SIM and eSIM solutions

Everything is managed via a cloud-based control panel that enables network administrators to configure and operate the network without extensive training or in-depth cellular expertise.

For the U.S. market, a **Spectrum Access System (SAS)** is also included, enabling the use of shared spectrum in the 3.5 GHz band (CBRS). This eliminates the need to purchase spectrum from mobile operators. Customers can choose a fully integrated solution from HPE or a more customized implementation.

### Additional components

#### Small Cells

HPE Networking Private 5G Small Cells are available for both indoor and outdoor use and support a wide variety of business units and use cases. All are managed via cloud-based administration.

### SIM/eSIM

SIM and eSIM cards are available in both physical and virtual formats and are sold in packs of 10 for simplified procurement. Provisioning can be done via CSV files, APIs, or manually through the cloud portal.

### Spectrum Access Service (SAS)

Private mobile networks can use shared or lightly licensed frequency bands. In the U.S., CBRS spectrum (band n48) is used, where SAS protects existing users. This enables companies to deploy private mobile networks without carrier agreements (U.S. only).

### Why HPE?

HPE is built on proven and mature technology developed by Athonet, a part of Hewlett Packard Enterprise. With over 500 enterprise customers and 25 service providers, HPE has a proven track record of success dating back to the 3G era.

The solution offers the simplicity that enterprises demand, with a Wi-Fi-like approach and a cloud-based interface that hides the 3GPP complexity. Going forward, HPE will continue to integrate configuration and management into HPE Aruba Networking Central as a unified framework for wired networks, Wi-Fi, and private mobile networks.



Outdoor 4G



Outdoor 5G

# APEIROON

## MOBILE NETWORK SOLUTIONS

Apeiroon is a European technology company specializing in mobile private 4G/5G network solutions for environments with high demands on security, availability, and rapid operational readiness.

### Apeiroon – mobile private network solutions for tactical and strategic operations

Apeiroon is a European technology company specializing in **mobile private 4G/5G network solutions** for environments with high demands on security, availability, and rapid operational readiness. The company develops modular network solutions where **radio access (RAN), mobile core (Core), and mission-critical functions** are integrated into robust, field-ready systems.

Apeiroon's solutions are designed for tactical and strategic applications in defence, public safety, and other mission-critical operations, but are also applicable in civilian environments where reliable connectivity is required under demanding conditions.

### Private mobile networks for data, video, and tactical applications

Mission-critical communication has evolved significantly in recent years. Today's tactical operations require support for:

- real-time video and image transmission

- sensors and IoT integration
- robotics and autonomous systems
- local data processing and decision support close to the field

Apeiroon's private mobile network complements established mission-critical voice systems by providing 4G/5G-based broadband capacity—with full control over network functionality, security, and performance.

### Requirements for tactical private mobile networks

Unlike traditional public networks or traditional telecom infrastructure, Apeiroon's solutions are designed to meet specific operational requirements. Private mobile networks for tactical agencies must be:

- quick to deploy and easy to manage
- adaptable to different frequency bands, including defence and government frequencies
- portable, transportable, and modular
- ready for immediate use in the field, without reliance on fixed infrastructure

This enables reliable communication even in mobile, temporary, or isolated environments.

### Apeiroon's modular network platform

Apeiroon delivers its solutions as **modular private network units**, where each installation can be adapted to the scope, duration, and environment of the mission. The platform includes several form factors that share the same basic architecture.

### About Apeiroon

Apeiroon develops its solutions in Europe with a focus on **defence-grade security, interoperability, and robust design**. The platform was developed by a team with proven experience in building private mobile networks for naval, airborne, and land-based applications—ranging from military operations to civilian missions in extreme environments.

The result is mobile network solutions that combine high technical standards with practical usability in real-world operational scenarios.



### Why Northcom chose Apeiroon

For Northcom, the partnership with Apeiroon provides access to specialized private mobile networks built for tactical units and mission-critical communications. The solutions can be deployed in minutes and customized according to:

- the nature of the mission
- geographical and environmental conditions
- security, control, and availability requirements

Together, Northcom and Apeiroon can deliver **mobile, secure, and scalable private 4G/5G networks that** complement existing communications infrastructure and enable effective communication even where traditional networks fall short.

# APEIROON



### Tactical Trailer

A complete mobile base station for long-term or large-scale operations.

- Self-sufficient private mobile network
- Multiple backhaul options: fiber, radio, LTE, satellite
- Can be interconnected with other nodes in federated networks

### Tactical Mobile Rack

A powerful and scalable solution for vehicles or mobile bases.

- Full private 4G/5G capacity
- Support for federation and meshing between nodes
- Robust design for continuous operation



### Tactical Backpack

A fully portable solution for rapid deployment.

- Full 4G/5G functionality in a backpack
- Battery-powered with hot-swap capability
- Built-in Core and mission-critical features
- Connectivity via satellite, LTE, or Wi-Fi

Designed for situations where the network must follow the operator.

### Standard RAN

A robust and compact all-in-one unit that serves as the network hub.

- Integrated RAN, Core, and mission-critical support
- Up to 40 W output power
- Operates without external backhaul via built-in edge functionality
- IP-rated for harsh environments

Suitable for fixed installations or temporary coverage boosts.





**ProEquip** is a line of accessories designed to meet the market's high quality standards and is **Northcom's own accessory brand**. It stands for high quality and is a collection of innovative accessory products. The accessories in the ProEquip series are specially designed to meet the market's high standards for quality and performance. All accessories are robust and feature a waterproof design. Connectors and ports are reinforced to withstand heavy wear and tear. Suitable for both analogue and digital radio. ProEquip is compatible with several different brands, including Icom and Sepura, among others.

**New high-quality ProEquip PTT stalk**  
**Available for connection to Sepura mobile installations in, for example, AUI/SCC, but also available with a 3½mm connector for connection to Sepura and other brands.**

### ProEquip Gooseneck PTT

A ProEquip gooseneck PTT for use with various radio brands. It features a 500 mm long connection cable, and with ProEquip adapter cables (part no. 30262/30264) featuring a 3.5 mm standard connector and a Sepura connector for AUI/SSC, it is easy to connect to various radio models. The short connection cable also makes it easy to replace without having to run a new cable to the radio.

It features a rugged PTT designed for over one million button presses. It is also very easy to install; the mount is pre-drilled with two 4.6 mm holes (screws not included).

PTT Color: Yellow (also available in blue)



### ProEquip PRO-BS5 Headset with Bone Conduction Speaker

A new type of headset where sound is transmitted through the skull rather than through the eardrum. Instead of a speaker that generates sound waves through the air to the eardrum inside the ear, this headset features a type of speaker that generates vibrations picked up by the ear canal via the skull.

Compatible with our PRO-U series with a 2-pin connector; see related products below.



### ProEquip Discreet Earpiece

A new type of earpiece that draws its design from modern hearing aids, featuring a durable, very thin cable that makes the earpiece nearly invisible. Features a 3.5 mm connector and a 43 cm long coiled cable.

It has now been upgraded with a small metal wire near the ear so you can shape it to fit better





## PTT-VOX UNIT

PTT adapter for various Icom models that can be set to VOX mode.

Normally functions as a traditional PTT unit, but with a simple push of a button, it switches to VOX mode, and you can just as easily switch it back to PTT mode.

### ProEquip PRO-PTT LA BOX

Medium PTT box with selectable VOX function and a 2.5mm female connector for connecting a headset with a lock to secure the attached accessory. The side button allows you to easily switch between VOX on or off.

For best performance in VOX mode, a headset with a boom microphone is recommended.

Note that the VOX function must also be enabled/programmed in the radio, and for optimal performance, the VOX gain must also be adjusted.

Black coiled cable, length: 43 cm.

Available with different connectors:

ProEquip PRO-PTT LA	Part No. 71614
ProEquip PRO-PTT SA	Part No. 71613
ProEquip PRO-PTT LP	Item No. 29349

Perfect if you need to keep both hands free while using the radio without pressing the PTT, and to switch back to conventional PTT operation if you're in a noisy environment.



### WHAT IS THE VOX FUNCTION?

**VOX stands for Voice Operated Exchange (or Transmission) and is a voice-activated feature. It detects when you speak and transmits automatically without you having to press any buttons.**

#### How it works

- **Hands-free:** Since the radio or device is activated by your voice, you have both hands free.
- **Microphone sensitivity:** The system detects the sound level. When you start speaking, the transmission opens, and when you are silent, it turns off automatically.

#### Common uses

- **Communication radio:** Replaces the manual PTT (Push-To-Talk) button and is often used with a headset.
- **Hearing protection:** Used in noisy environments to facilitate radio communication via built-in microphones.

#### Keep this in mind:

In environments with a lot of background noise, the VOX function can sometimes be activated accidentally. Many devices therefore have adjustable sensitivity so you can set how loudly you need to speak for it to activate.

# EMERGENCY PHONE FOR OUTDOOR INSTALLATION

## ROBUST SOLUTION FOR CRITICAL COMMUNICATION



A reliable and robust emergency phone is crucial in environments where rapid contact with emergency services and the emergency call center can be a matter of life and death. Northcom's emergency phone cabinet is designed for outdoor installation and meets high standards for both functionality and durability.



The emergency phone is specifically adapted for use with the RAKEL unit Sepura SCG22, with a transmit power of 10 W. It is equipped for ping functionality and monitoring, enabling continuous monitoring of the system's status. Communication takes place via SOS Alarm's national 112 call center through an MSB Rakel subscription, ensuring a secure and established alarm chain.

The system is equipped with a facade-mounted antenna for optimal signal strength and connects to the power grid via 230V AC. To ensure operation even during power outages, the unit can be supplemented with a battery backup capable of at least 48 hours of operation.



Inside the cabinet, easily accessible to the user, there is a handset for duplex calls, a call button, and a speaker. This enables clear and direct communication in emergency situations.

The emergency cabinet has an IP66 protection rating, meaning it is completely dust-tight and protected against powerful water jets. Its design makes it particularly suitable for exposed environments where weather and external influences place high demands on the equipment.

The cabinet itself is the Rittal AX model, measuring 300 x 400 x 210 mm (width x height x depth), and is supplied in red for high visibility. The cabinet door features clear signage with the text "Emergency Phone 112," as well as an engraved label indicating that the cabinet is connected to an alarm system.

The product comes with a two-year warranty, providing extra peace of mind for long-term use.

In summary, this emergency phone offers a complete solution for safe and reliable communication in critical situations, especially in outdoor environments where durability and reliability are crucial.





## Ascom Myco 4 certified for mission-critical services – Tested in the SWEN network for vital communications

When every second counts, you need a communication solution that lasts – regardless of the environment. The Ascom Myco 4 is a robust and future-proof smartphone, developed for businesses where reliability, security and fast access to information are crucial.

Ascom has extensive experience supporting critical workflows in healthcare, industrial and security operations – environments where people rely on communication to work, every time. With the Myco 4, the next step is taken: a modern, Android-based device optimized for mission-critical use in today's and tomorrow's mobile networks.

In June 2025, the Myco 4 became the market's first 5G smartphone to receive GCF (Global Certification Forum) certification for Mission Critical Services (MCS). The certification verifies that the device meets international requirements. Ascom is also participating in the SWEN pilot with a larger number of Myco 4 devices to enable testing and validation of mission-critical communication in future 4G and 5G-based networks.

"We see a clear shift where mission-critical communications are increasingly moving into mobile networks. Myco 4 is developed to meet these demands – with a focus on robustness, user-friendliness and secure information management," says Olof Ohlsson, Country Manager at Ascom Sweden.



Read more about Myco 4 at [ascom.com](https://ascom.com)

**ascom**





# STUDENT EVENING AT NORTHCOM



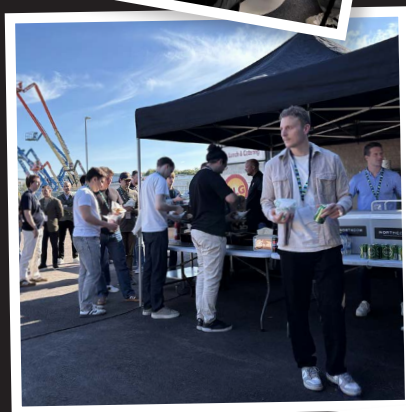
In mid-May, we welcomed about thirty students to our offices in Karlstad.

Together with Academic Work, we invited students from Karlstad University to present our business and increase our visibility among students and the Karlstad community in general.

We served snacks and drinks and gave a tour of the premises, where they had the opportunity to familiarize themselves with our products and ask us questions about our company and the work we do.

The evening concluded with a panel discussion and Q&A session.

We organized this event together with Academic Work, a recruitment and staffing firm for early-career professionals. They help people and companies grow together through the right match.



# SEPURA VISITS KARLSTAD

At the end of April, we had the pleasure of welcoming Sepura to Northcom in Karlstad. Discussions regarding both the further development of the TETRA portfolio and Sepura's offerings within MCX were the focus of the day—something that will further strengthen the collaboration

between our organizations in the future. It was a valuable opportunity to exchange experiences and look ahead together.

We thank Sepura for the visit—and look forward to the next steps together.

# sepura



## SEPURA SERVICE CENTER NEW CERTIFICATE



**Our service department in Karlstad has been a certified Sepura service center since 2007, responsible for service in the Nordic countries. Since 2011, we have been certified at the highest level, Level 3, as one of only three service centers in the world.**

Level 3 certification means that we repair over 90% of all broken Sepura devices here in Karlstad, and only a small number need to be sent on to the manufacturer. We can therefore keep repair times down and also gain better control over any issues our customers may have.

Additionally, this means we reduce the number of shipments. We can also extend the lifespan of the devices by refurbishing them when they start to show wear and

tear. All of this combined helps us reduce our environmental impact. Every repair we perform is reported back to Sepura as part of Sepura's improvement efforts

At Northcom, we provide service for most of the brands we sell, such as ICOM, 3M/Peltor, Hytera, and others.

In total, we handle approximately 4,000 service requests each year in Karlstad.





## Northcom is proud to have supported Emil Iversen during the 2025/26 season

"Spring is here and the ski season is over. This has been a season I will never forget. Sure, two Olympic medals mean a lot, but the biggest victory for me was getting back to the top after three tough years filled with setbacks, doubts, and uncertainty. The journey from the disappointment after the 2022 Olympics to standing on the podium again has taught me more about myself than any medal ever could.

I am incredibly grateful for the support from my family, friends, teammates,

sponsors, and all of you who have followed and believed in me along the way. After the Olympics, it didn't take me long to make up my mind: I'm going to ski for one more year. The goal is clear—the World Championships in Falun in 2027. And no, I don't think I've reached my peak yet.

Thank you for all your support. Now I'm taking some well-deserved time off before I start working toward next season.

See you soon!  
/ Emil

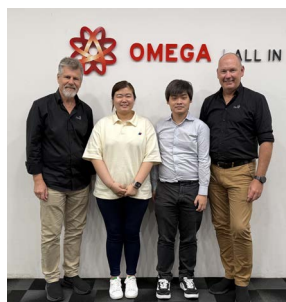
## Asian Pacific Marine Expo & Aviation Festival Spring 2026

### Mimer in Singapore and Malaysia

From March 20–31, LS Electronics conducted a customer visit in Singapore and Kuala Lumpur.

In Singapore, we visited a number of key customers in the marine and offshore industries. At the same time, we participated in two trade shows: the Asia Pacific Maritime Exhibition and the Aviation Festival Asia.

The trip then continued to Kuala Lumpur, where additional customer meetings were held.



**Mimer**



## MEET US HERE IN 2026

### NORTHCOM EVENT CALENDAR

- **DALO Industry Days 2026**, Herning  
August 19–20
- **Beredskabskonferencen 2026**, Odense  
September 16–17
- **Skånsk Brandskyddsdag**, Revinge  
September 11
- **FLISA**, Umeå  
October 6–8
- **Euro Expo**, Örnsköldsvik  
October 14–15
- **ATC**, Stockholm  
November 16
- **DFSK**, Stockholm  
November 17
- **Ambulanseforum**, Oslo Airport  
31. Aug. – 1. Sept
- **Brann & Redning**, Oslo Airport  
22. – 23. September
- **Industrivernkonferansen**, Lillestrøm  
Dec. 1–2 . Dec

# CONTACT YOUR NORTCOM- COMPANY



## Opening hours

Weekdays 08:00-16:00

Friday 08:00-14:30

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Instagram **instagram.com/northcom.dk**

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## Opening hours

Weekdays 08:00-16:00

Friday 08:00-14:30 (June and July)

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## Portalify

Phone **+358 9 6 227 96 68**

Email **sales@portalify.com**

Web **www.portalify.com**

LinkedIn **www.linkedin.com/company/portalify**

YouTube **www.youtube.com/@portalify\_apps\_for\_pros**



## Opening hours

Weekdays 08:00-17:00

Closed for lunch 12:00-13:00

Telephone **+46 54 67 05 10**

e-mail **customer.support@northcom.se**

Web **www.northcom.se**

Facebook **facebook.com/northcom.se**

Instagram **instagram.com/northcom.se**

LinkedIn **linkedin.com/company/northcom-se**

YouTube **youtube.com/c/northcom**

## Webshop

Northcom's online store is available to all our customers. In the online store, you can easily place orders and view your order history. Contact Northcom customer service to activate your customer number.

## Geracom

Phone **+46 97 01 05 80**

Web **www.geracom.se**

## Vianet

Phone **+46 920 22 24 10**

Web **www.vianet**

## LS Electronics

Phone **+46 836 42 25**

Email **info@lse.se**

Web **www.lse.se**

LinkedIn **linkedin.com/company/mimersoftradio/**



## Opening hours

Weekdays 08:00-16:00

Phone **+47 21 55 56 00**

E-mail **customerservice@northcom.no**

Web **www.northcom.no**

Web **sd-wan.northcom.no**

Facebook **facebook.com/NorthcomNorge**

Instagram **instagram.com/northcom.no**

LinkedIn **linkedin.com/company/northcom-no**

YouTube **youtube.com/c/northcom**

## Online Store

Northcom's online store is available to all our customers. In the online store, you can easily view prices and place new orders.

## NORTHCOM

### Leading supplier and system integrator of critical communications

Northcom Solutions is a Norwegian group of companies with a presence throughout the Nordic region. In 2020, we brought together our local companies in Norway, Sweden, Denmark, and Finland under the Northcom brand. Since spring 2025, Northcom has been part of the Norwegian company Aars—a group with over 9,000 employees across the Nordic region—which further strengthens Northcom's position as a long-term and stable partner in secure communications.

With over 70 years of experience in communications, we are today the Nordic region's leading systems integrator in critical communications and constantly strive to maintain the highest possible standards.

From our origins as suppliers of analog radio communication, we have evolved into one of the most prominent providers of critical communication solutions, serving customers across a wide range of industries. We are the market-leading supplier of critical communication to blue light organizations. We create complex infrastructure solutions for both government agencies and industrial customers for TETRA, MCX, DMR, IP/LTE, and integrated systems. In addition, we have successfully established ourselves as a major player in wireless communication via 4G/5G networks, SD-WAN, and mobile routers, and currently have agreements with the leading suppliers in these sectors.

### Complete value stack from infrastructure to business systems

In recent years, the service portfolio has expanded through, among other things, the acquisition of the software companies LS Electronics and Portalify. LS Electronics, for example, offers unique products for the autonomous control of unmanned vessels, which can be controlled from remote locations worldwide, as well as an endless number of

other applications for various sectors using Mimer software-defined radio. Portalify possesses cutting-edge expertise in the development of applications for both TETRA and next-generation Android applications for critical communication, as well as the integration of these with customers' underlying systems.

Northcom strives to offer a complete value stack, from deep technical expertise to solutions that support and enhance customers' work processes. Our broad portfolio includes the best hardware, support and service, consulting services, solution design, training, customer-specific software projects, field service, assembly, installation, vehicle installations, and software platforms such as Command Control and MCX solutions for both server and client, as well as other software projects.

### The key to efficiency is well-functioning service, support, and accessories

We are a key player in PPDR (Public Protection and Disaster Relief). Our commitment extends beyond business considerations, and we provide emergency networks in all Nordic countries with reliable technology that always works. By specializing in the emergency services sector, we strive to meet the unique requirements and needs to ensure that our customers are equipped to handle and overcome challenges in disasters and crisis situations.

Our service center in Karlstad is one of three Sepura Service Centers worldwide and performs 99.9% of all jobs on-site. This means servicing genuine components without the hassle of "swap-outs," which avoids license changes, delays, and administrative tasks, and gets the product up and running quickly after service.

The Northcom Operation Center (NOC) is our hub and offers expert support with specialists who work proactively and reactively to monitor and manage critical communication systems.

The NOC prevents downtime and identifies issues before they arise in our customers' critical communication platforms. We offer managed services such as NOC, MDM, and IP radio subscriptions, as well as product-related services such as configuration, programming, and maintenance.

Long-term customer relationships and proximity to our customers provide insights and opportunities to always do our utmost to ensure that end-users—society's everyday heroes—can perform their duties as efficiently as possible. Together with the requirements of these everyday heroes, where we have also taken into account adaptations for our Nordic region, we have developed our own accessory series called ProEquip.

### Highest standards are a minimum requirement for success today and with cutting-edge technology

We always strive to maintain the highest possible standards in systems, personnel, and processes. We are proud of our four ISO certifications: 9001 for enhanced quality leading to increased customer satisfaction, 14001 for our commitment to reducing our environmental impact, 27001 demonstrating that we handle information and customer data securely, and 45001 to protect our most important resource—our employees.

Northcom works every day and invests continuously to maintain our position as the leading provider of critical communications. By combining technical expertise with deep industry knowledge, we can offer communication solutions of the highest quality. Our long history, acquisitions of leading companies in the industry, and active pursuit of new partnerships to rapidly integrate new technologies make us a reliable partner for all critical communication needs, both in the Nordic region and internationally.

**NORTHCOM**  
WHEN COMMUNICATION MATTERS

