

# SUCCESS IN COOPERATION

---

CRITICAL  
COMMUNICATIONS  
FROM FINLAND

# FINLANDWORKS

# WELCOME

---

For the first time ever, Critical Communications World is being organized in Helsinki, Finland.

Finland has a lot to offer in this field. The world's first nationwide TETRA network, Virve started already in 2002. Emergency Respond Centre (ERC), 112 was also taken into use around the same time as an independent organization but still covering all public safety organizations. Now in 2023 Finland is one of the world's firsts again: Virve 2 broadband network is being opened soon!

The Finnish ecosystem in this field is a strong one. A lot of innovations have been made for pragmatic reasons: how to be more efficient with less resources, how to manage large areas without deteriorating the service. We are ready to show these solutions which have been tested and proven in the hardest conditions. Those can be adapted to your operations even if you have a different modus operandi.

We warmly welcome you to our stand H60 and to share the success in cooperation!

|    |   |
|----|---|
| 2  | <b>WELCOME</b>  |
| 4  | <b>WHY FINLAND</b>  |
| 6  | <b>FINNISH AUTHORITIES AT CCW</b><br>POLICE, RESCUE, 112 ERC, HUS<br>ERILLISVERKOT OPERATOR |
| 8  | <b>CRITICAL COMMUNICATIONS FINLAND CCF</b>  |
| 10 | <b>SOLUTIONS FROM CCF</b>   |
| 10 | <b>AIRBUS</b>   |
| 12 | <b>BEACONSIM</b>  |
| 14 | <b>BITTIUM</b>  |
| 16 | <b>CINIA</b>  |
| 18 | <b>CODEA</b>  |
| 20 | <b>CREANORD</b>   |
| 22 | <b>DIGIA</b>  |
| 24 | <b>ELEKTRO-AROLA</b>  |
| 26 | <b>ELISA</b>  |
| 28 | <b>GOODMILL SYSTEMS</b>   |
| 30 | <b>HMD GLOBAL</b>   |
| 32 | <b>MENTURA</b>  |
| 34 | <b>NET TECHNOLOGIES</b>   |
| 36 | <b>NETRADAR</b>   |
| 38 | <b>NOKIA</b>  |
| 40 | <b>NSION</b>  |
| 42 | <b>PATRIA</b>   |
| 44 | <b>ROGER-GPS</b>  |
| 46 | <b>SECAPP</b>   |
| 48 | <b>SENOP</b>  |
| 50 | <b>SIGNET DIGITAL</b>   |
| 52 | <b>VINCIT</b>   |
| 54 | <b>VTT</b>  |





# WHY FINLAND?

FINLAND OFFERS WORLD-CLASS PUBLIC SAFETY EXPERTISE FROM CRITICAL INFRASTRUCTURE TO CUTTING-EDGE SOLUTIONS AND SERVICES.

With unique expertise in the public safety and critical communications sectors, Finland offers unparalleled solutions for both preventive actions and mission-critical operations, as well as disaster management for security, safety and law enforcement agencies.

The Finnish public safety cluster companies cover the entire value chain – from infrastructure, handsets and applications to operational and planning expertise.

# #1

**FINLAND IS THE MOST ADVANCED COUNTRY IN THE EU IN THE UTILIZATION OF DIGITALIZATION.**

**THE BEST DIGITAL COMPETITIVENESS IN THE EU.\***





**THE MOST STABLE COUNTRY IN THE WORLD.\*\***

**THE BEST DIGITAL SKILLS IN THE WORLD.\*\***

**THE HAPPIEST COUNTRY IN THE WORLD.\*\*\***



# OUR CUSTOMER'S AND PARTNER'S EXPERTISE STRONGLY SUPPORTED



**POLICE**  
**FIRE AND RESCUE/CIVIL DEFENCE**  
**BORDER GUARD**  
**AMBULANCE SERVICES**  
**112 CENTRES AND DISPATCHING**  
**DISASTER MANAGEMENT**  
**DEFENCE**  
**MINING**  
**TRANSPORT**  
**INDUSTRY**  
**OIL AND GAS INDUSTRY**  
**WATER**  
**ELECTRICITY**  
**HARBOURS**



# THE ECOSYSTEM

## CRITICAL COMMUNICATIONS FINLAND (CCF)

### FINLAND IS A PIONEER IN MISSION CRITICAL COMMUNICATIONS

A user- and solution-driven coordination entity that builds trust and success through cooperation. Initiated by the national public safety network operator, State Security Networks Group Finland, CCF fosters national and international cooperation between governmental and non-governmental stakeholders, together with local industry, in critical communications. It also identifies supporting solution requirements and maps out the way forward for the sector.

CCF companies aim to collaborate with international customers to bring together mutual competence and experience.. This is true success in cooperation!

[www.criticalcommunicationsfinland.fi](http://www.criticalcommunicationsfinland.fi)

## ERILLISVERKOT

### NORDIC-SCALE COLLABORATION WITH INNOVATIVE TECHNOLOGIES

The task of Erillisverkot Group is to secure the communication services and information society services in all circumstances. Erillisverkot provides the organizations responsible for the security and functionality of the society with mission critical services, software services for situational awareness and services securing critical infrastructure and communication.

[www.erillisverkot.fi/en](http://www.erillisverkot.fi/en)

@erillisverkot



## FINNISH AUTHORITIES

### POLICE OF FINLAND

[www.poliisi.fi/en](http://www.poliisi.fi/en)

### BORDER GUARD

[www.raja.fi/en](http://www.raja.fi/en)

### HELSINKI UNIVERSITY HOSPITAL

[www.hus.fi/en](http://www.hus.fi/en)

### RESCUE SERVICES

<https://intermin.fi/en/rescue-services>

### 112 EMERGENCY RESPONSE AGENCY

[www.112.fi/en](http://www.112.fi/en)



# CRITICAL COMMS INNOVATIONS FROM FINLAND

---

## AIRBUS

---

### PREVENT, PROTECT AND RESPOND

#### OUR SOLUTION

Airbus solutions and integration services help protect people, borders, maritime areas and critical infrastructure.

We provide secure communication solutions for public safety and critical industries based on TETRA, Tetrapol and LTE/4G/5G technologies. With secure communications, we combine Agnet MCX solution with extensive Satcom capability knowledge to provide reliability, flexibility and security to operational communications across the globe.

Our cybersecurity design and integration are complemented with managed and cloud-based services. Airbus satellite imagery and related services give access to imagery and reference layers from the smartest constellation by combining radar and optical satellites.



#### BENEFITS FOR CUSTOMERS

We help secure people, nations and our environment by providing superior operational views and data from trusted sources to form better situational awareness to support smart measures in the field.

Our expertise in Finland consists of two program units: Secure Land Communication and Intelligence.

In Finland, Airbus has a strong competence center for TETRA and LTE/4G/5G communication solutions, including a mobile application ecosystem and integration services for sensors to secure networked airborne communications. Airbus has a partnership agreement with Finnish Defence Forces since 2020.

#### COMPANY

Airbus is a dynamic company that continuously adapts its offering to provide better and more customized solutions through innovation and integration of new technologies.

## AIRBUS

---

#### CONTACT

Jarmo Häkkinen,  
CEO of Airbus Defence and Space Oy

Jouni Kempainen,  
Airbus SLC marketing

airbus-ds-finland@airbus.com  
+358 10 4080 000  
securelandcommunications.com  
www.airbusfinland.com

# BEACONSIM

---

## PLANNING AND LEARNING WITH YOUR CRITICAL TWINS

### OUR SOLUTION

Beaconsim delivers simulators of your radio terminals, dispatchers, command and control (C&C) and applications regardless of technology and brand. A critical twin of your communication environment supports both operative planning and training in an excellent way. In technology transition you can see both old and new systems virtually and plan the usage and involve end users and their organisations well in advance. All this even before the new real system is up and running. A critical twin is also perfect for training, both for self-learning and instructor-led trainings in groups. Our unique simulator exercises merge products and operating procedures into one – all devices and applications are used just like in daily operations.

### BENEFITS FOR CUSTOMERS

- REALISTIC – matched to our customers' devices and applications
- OPERATIVE – operative communication instead of pure product training
- PROVEN – exercises track the actions of trainees and measure the learning
- SAFE – it is safe to make mistakes and learn in a virtual environment
- CONTROLLED – fully customer controlled systems with content editors
- REMOTE – web courses and virtual classrooms locally or remotely
- SCALABLE – suitable for organizations of all sizes
- THE BEST – change management par excellence



### COMPANY

Beaconsim's simulator development started 2002 when we delivered the first system to a Virve user organization. Since then we have delivered systems to our customers in more than 30 countries.

## BEACONSIM

---

### CONTACT

Elina Avela, CEO  
elina.avela@beaconsim.com

hello@beaconsim.com  
+358 50 514 9705  
www.beaconsim.com  
<https://demo.beaconsim.com>



# BITTIUM

---

## MISSION CRITICAL COMMUNICATIONS

### OUR SOLUTION

Bittium provides ultra-secure smartphones for professionals with the highest security requirements. For complete end-to-end mobile security, we complement secure smartphones with our device management and encryption software. To improve the efficiency of authorities and other organizations, we also provide monitoring and reporting software to gather data on the factual service level experienced by the device fleet.

### BENEFITS FOR CUSTOMERS

Our services ensure encrypted mobile access to sensitive data and services of organizations. We have added purpose-built features for public safety. Our devices' long lifespan enables the integration and certification of governmental services. We offer a secure platform for partners with their own cybersecurity applications and solutions. Our trusted design is manufactured in Finland.

### COMPANY

Bittium specializes in the development of reliable, secure communications and connectivity solutions leveraging its over 35-year legacy of expertise in advanced radio communication technologies.

Net sales in 2022 were EUR 82.5 million, and operating profit was EUR 0.3 million. Bittium is listed on the Nasdaq Helsinki exchange.

---

### CONTACT

Jari Sankala  
Senior Vice President,  
Defense & Security Business Unit

The Bittium logo is displayed in a light blue, sans-serif font.

+358 40 344 3507  
[www.bittium.com](http://www.bittium.com)





# CINIA

---

## EXPERT OF CRITICAL SYSTEMS AND INFRASTRUCTURE

### OUR SOLUTION

We serve in demanding software projects, and provide networks for, and secure the most important systems. Our long experience in demanding projects is combined with professional pride and a culture where we aim high.

We offer development project, operational maintenance and system and security monitoring as a complete package, all worked from secured facilities. We ensure the reliability of critical services 24/7 with our network operations center and cyber security operations center, provide fast low-latency network solutions for critical services and connections, and build secure network solutions for demanding environments.

### BENEFITS FOR CUSTOMERS

Our domestic and international customers operate in, for example, health care, energy sector, transport and logistics, industrial field, and public sector. When customers need the most secure solution for their critical environment, they can benefit from our vast experience in critical systems, software and networks.

### COMPANY

Cinia is a Finnish cyber security, software and network solutions provider with strong expertise in systems and infrastructure vital for functional business and society. Together with our customers we create digital success stories for secure digital future.

---

### CONTACT

Moni Banerjee  
Business Director  
moni.banerjee@cinia.fi

+358503872925  
www.cinia.fi



# CODEA

---

## WORLD-CLASS ONLINE MANAGEMENT SOLUTIONS

### OUR SOLUTION

Codea is a leading software provider in Finland in the field of emergency medical services. Our software covers all basic daily requirements of paramedics – from navigation to electronic patient care reporting with integration to medical devices.

### BENEFITS FOR CUSTOMERS

We have been developing fleet management software for the public safety sector together with our customers. Our products are born from the real needs of the field.

### COMPANY

Codea is a privately owned software company from Finland, founded in 2008. Finland has long been the world's leading provider of digital services in the area of public security and critical communications. At Codea, we have focused our operations around this know-how, and we continually adopt the latest technology when developing our own services.

# Codea

Helping You To Lead Online

---

### CONTACT

Tiina Hiltunen  
Project Manager  
tiina.hiltunen@codea.fi

+358 44 493 9024  
www.codea.fi





# CREANORD

---

## ON THE PULSE OF NETWORKS

### OUR SOLUTION

Creanord creates world leading technology solutions in the areas of Network Performance Monitoring and SLA assurance. Driven to turn data into outperforming networks, Creanord offers tools and services that enable mobile operators, critical communications service providers, business service providers and wholesalers to deliver connectivity and services with confidence.

### BENEFITS FOR CUSTOMERS

Customers around the world monitor their networks with the PULSure solution consisting of PULSensor® highly accurate and scalable physical and virtualized measurement probes combined with the PULScore® intelligent network performance management suite. With PULSure, service providers can monitor, automate, and continuously optimize their networks to provide the best possible user experience at a fraction of the cost compared to traditional solutions. PULSure SLA reporting capabilities ensure that the transport network delivers according to the requirements and the advanced machine learning and reporting capabilities help operators to proactively identify and fix bottlenecks in the network before end users are affected.

### COMPANY

Since 2000 Creanord has served customers operating the most demanding networks and applications. We help these organizations make societies smarter, businesses more competitive and our lives safer. The Creanord headquarter is in Helsinki, Finland, with a global reach through its partner network.



**CREANORD**  
on the pulse of networks

---

### CONTACT

Jorma Hämäläinen, CEO  
jorma.hamalainen@creanord.com  
+358 50 505 8044  
www.creanord.com

# DIGIA

---

## INNOVATIONS FOR HIGH-SECURITY ENVIRONMENTS

### OUR SOLUTION

Digia develops and innovates mission-critical products and services that support operations, collaboration and secured communication in the high-security environments.

### BENEFITS FOR CUSTOMERS

Our offering covers all layers of digitalization, including digital services, operational systems, integration and API solutions, as well as solutions for data management and analytics.

### COMPANY

Digia is a Finnish software and service company that combines technological possibilities and human capabilities to build intelligent business, society and a sustainable future. Our mission is to ensure that our customers are at the forefront of digital evolution. Digia is a trusted partner with a long and successful history of delivering mission-critical solutions in the public safety sector and multi-agency environments.



---

### CONTACT

Hannu Arvelo  
Vice President,  
Secure and Scalable Solutions

[hannu.arvelo@digia.com](mailto:hannu.arvelo@digia.com)  
+358407432397  
[www.digia.com](http://www.digia.com)





# ELEKTRO-AROLA

---

## ALERTING AND COMMUNICATION TECHNOLOGY

### OUR SOLUTION

Elektro-Arola builds hybrid alerting and communication systems for public protection and disaster relief (PPDR), utilities and large-scale industry.

### BENEFITS FOR CUSTOMERS

Our advanced hybrid solution platform enables alerting and monitoring different devices and systems with a single easy-to-use software interface. No more unnecessarily complex alerting procedures are needed when the situation is most critical.

### COMPANY

Privately owned Elektro-Arola has provided alert and communication solutions for critical use already since 1974.



**ELEKTROAROLA**

---

### CONTACT

ea@elektro-arola.fi  
+358 3 630 830  
www.elektro-arola.fi



# ELISA

---

## MODERN CYBER SECURITY SOLUTIONS

### OUR SOLUTION

Elisa Cyber Security Center provides 24/7 cyber security monitoring, analysis and response service with additional consulting for all aspects of cyber and information security.

### BENEFITS FOR CUSTOMERS

From detection to response – speed is the key. Elisa's expertise and capabilities in networks, IT and cloud environments allow us to offer faster mitigation of security-related issues. We combine best-in-breed technologies with skilled cyber experts and processes that enable faster mitigation through modern technologies, automation and incident response with skilled cyber security experts, tried and true processes enabling faster and more effective detection, analysis, mitigation and remediation – ensuring your business resilience.

### COMPETITIVE ADVANTAGE

Elisa is in a unique position to provide end-to-end cybersecurity capabilities for corporate customers. This includes designing and implementing security solutions that fit customer business needs. We also have the ability to provide information security capabilities and services to our customers' ICT infrastructure. Our operational 24/7 cybersecurity center service detects, analyzes and mitigates cyber incidents that poses a risk to the customers' business continuity.

### COMPANY

During our nearly 140-year history, we have always been enthusiastic about utilizing new technologies and ways of working. Elisa is a recognized international provider of digital services and a brand of excellence. We now serve over 2.8 million customers in Finland, Estonia and internationally.

Our core values in all our business are customer orientation, responsibility, renewal, results orientation and collaboration.

## ELISA PRIVATE NETWORK

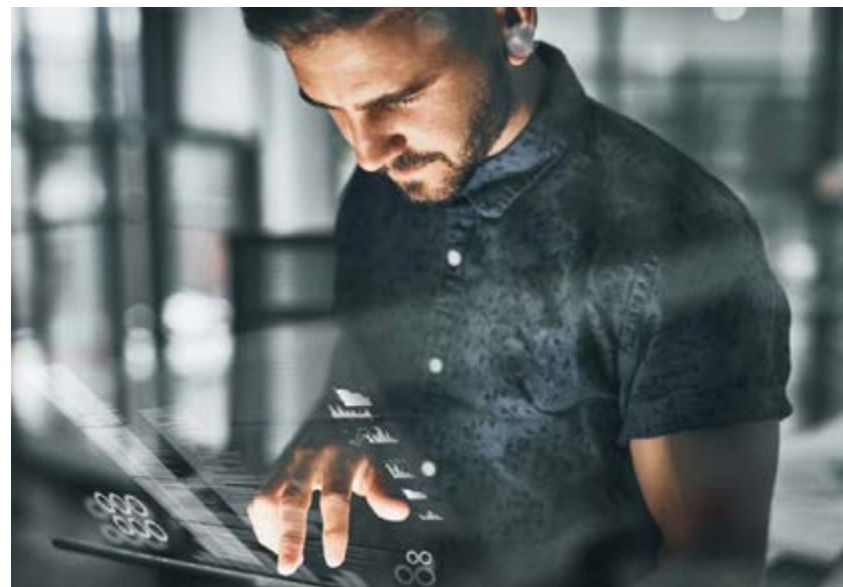
### OUR SOLUTION

A private network is a local mobile network built for a company's own use to provide more secure and reliable capacity than a public mobile network as well as high availability and secure telecommunications.

### BENEFITS FOR CUSTOMERS

A private network enables the company to get the full benefit of mobility. It ensures the smooth flow of the company's critical communications, taking into account individual needs and the business environment. A private network serves a company's business in the best possible way when it is designed and built specifically for that company.

A private network can be built to work on both 4G and 5G networks. Network technology is always chosen according to the company's specific needs. Even when implemented with only a 4G network, private networks have great benefits. 5G technology adds further features to private networks, such as more capacity and less latency.



### CONTACT

Ilari Karinen  
ilari.karinen@elisa.fi

+358 40 820 7048  
www.elisa.fi

The Elisa logo is written in a blue, lowercase, cursive script font.



# GOODMILL

## SEAMLESS CONNECTIVITY

### OUR SOLUTION

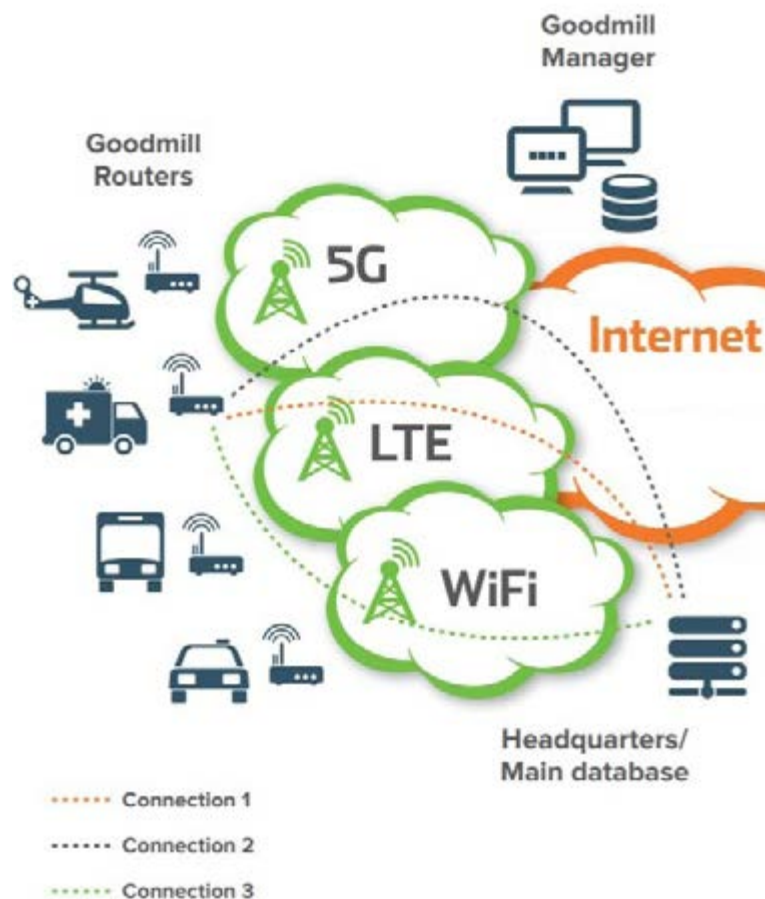
Goodmill Systems designs and delivers mobile multichannel router solutions for critical communications needs in demanding environments. By combining multiple wireless networks and security, we dramatically increase reliability and coverage. This enables authorities to run mission-critical systems on commercial-grade networks everywhere.

### BENEFITS FOR CUSTOMERS

We enable our customers to create new capabilities and ways of working by providing seamless, reliable connectivity over cost-effective commercial networks. New capabilities range from real-time license plate recognition to video streaming. New operational models range from swarm tactics to performing all back-office administrative work on the road.

### COMPANY

Privately owned Goodmill Systems Ltd. offers reliable, operator independent and cost-effective connection solutions for mobile and fixed environments. We ensure constant data flow in demanding conditions where uninterrupted online connectivity is critical. We have developed our innovative solutions since 2005.



**GOODMILL**  
Always online

### CONTACT

Topias Uotila  
CEO

[topias.uotila@goodmillsystems.com](mailto:topias.uotila@goodmillsystems.com)

+358 40 546 7046

[www.goodmillsystems.com](http://www.goodmillsystems.com)

# HMD GLOBAL

---

## OUR SOLUTION

At HMD Global, we deliver business services and devices that go above and beyond your expectations in terms of reliability and performance. Our Nokia smartphones and tablets are designed to meet the stringent security demands of key industries.

## BENEFITS FOR CUSTOMERS

With our devices and services, our customers can experience the peace of mind that comes with superior privacy and security features. We prioritize the protection of your data and ensure that our solutions exceed your expectations, even in the most demanding of environments.

HMD operates a 'software security and privacy by design' methodology, and all customer and corporate data is stored and processed on servers in Finland since 2019. Strengthening our security proposition for key industries, HMD Global is developing capabilities and processes to bring 5G Nokia device production to Europe this year.

## COMPANY

Headquartered in Espoo, Finland, HMD Global Oy ("HMD") is the home of Nokia phones. HMD's mission is providing accessible connectivity for everyone. HMD designs and markets a range of Nokia smartphones and Nokia feature phones and an expanding portfolio of innovative HMD service offerings. With an ongoing commitment to security, durability, reliability, and quality across its range, HMD is the proud exclusive licensee of the Nokia brand for phones and tablets.



# hmd.

---

## CONTACT

Bernd von der Decken  
Business Development Director  
+44 7768 548017  
bernd.von.der-decken@hmdglobal.com



# MENTURA GROUP

---

PROVIDE A SERVICE YOUR USERS CAN TRUST

## OUR SOLUTION

Mentura's COREMOTE solution family allows network operators to provide a service their users can trust and enables authorities and professional organisations to efficiently manage their field operations and security using Critical Communications Networks. COREMOTE solutions support LTE, 5G, TETRA, GSM-R and hybrid networks.

- Subscriber Management
- Billing
- Service Monitoring
- Device Management
- Situational Awareness
- Reporting and Analytics

## BENEFITS FOR CUSTOMERS

Mentura's solutions help customers to manage their networks and critical operations more efficiently. They help to make complex environments manageable. Mentura's solutions are tailored for critical communications environments and support multiple network technologies such as TETRA, LTE, 5G and GSM-R.

Mentura has over 20 years of experience operating in critical communications and public safety industries. We have a large, satisfied customer base, proven solutions and experience in delivering projects across the world.

## COMPANY

Mentura Group is a leading provider of advanced and intelligent software solutions for Critical Operations. Mentura has been pioneering in migration to mission critical broadband, being a first line innovator in re-defining the solutions and processes in the hybrid world. Mentura has large, satisfied customer base and over 20 years of experience operating in critical communication industry. Our solutions empower organisations to protect and build a safe and smart society.



# mentura

---

## CONTACT

Jarno Taskinen  
 Head of Product Marketing  
 jarno.taskinen@menturagroup.com  
 +358 50 480 2535  
 www.menturagroup.com

# NET TECHNOLOGIES

---

## SOLUTIONS FOR CRITICAL COMMUNICATIONS AND DIGITAL TRANSFORMATION

### OUR SOLUTION

Net Technologies offers engineering and consulting services in communications and information technologies, including design and implementation of any wireless network, for the complete life cycle ex. radio planning, network design, field measurements and drive test, optimization, indoor design and distributed antenna systems (DAS), migration and cutover, operations support, training and know-how transfer.

We offer services in digital transformation, towards smart and safe society, with emphasis to energy applications and sustainability and social awareness and user involvement, with technologies as IoT, AI and machine learning, XR/VR.

We also provide security and facilities assessment, risk management, security design and mitigation plans, civil protection solutions, as well as security for border control.

### BENEFITS FOR CUSTOMERS

As a trusted partner with several years of accumulated experience and references in the field, we provide high-quality work and deliveries based on our proven ProM methodology. We are recognized experts in this specific field.

We have a proven track record of successful projects delivered to the world's leading telecommunication vendors, public authorities, operators and large corporations. We are world leaders in the oil and gas sector. Our services can comply with the most demanding user needs and technical requirements.



### COMPANY

Net Technologies offers high-quality engineering and consulting services in the field of ICT and digital transformation. Our expertise includes any type of wireless network, professional services including emergency, security and resilience services, smart apps, as well as trusted networks for mission-critical applications.

We cover the complete life cycle of a network implementation and operation, backed by our own methodology and software tools developed in-house.

## NetTechnologies

---

### CONTACT

Dimitris Androutsopoulos

CEO

dimitris@nettechn.com

+358 40 726 1704

www.nettechn.com



# NETRADAR

---

Netradar developed solution automatically collects data from geolocated users, and it provides radio network engineers specific locations where network coverage or capacity is a problem.

Netradar pinpoints exact capacity problems up to 1000 times more efficiently and faster than legacy solutions. Furthermore, customers of critical communication network operators can raise network improvement tickets directly from the app.

## OUR OFFER TO CRITICAL COMMUNICATIONS SERVICE PROVIDERS

Nowadays it has become crucial that first responders and mission-critical service providers communicate smoothly in the hardest situations. In a situation in which police enters a crowded accident site, ensuring connectivity using pre-emption and sending a video of the accident over 5G would help the rescue team currently on its way, to prepare for the work in a timely manner. This is an example when a 5G network, its latency and speed are the key to the success of this operation. Understanding how these connectivity services work from a customers' point of view and empowering its customers with tools to give direct feedback via dedicated app is of paramount importance for these companies.

## OUR CUSTOMER IN CRITICAL COMMUNICATIONS

We work together with Finnish state-owned critical communications service provider Erillisverkot group, by providing an end-to-end solution for measuring mobile broadband network performance and for capturing customer feedback. Insights are used to further improve service performance towards customers.



## SOLUTION OVERVIEW

### DEPLOYMENT OPTIONS

Netradar is typically deployed in operator's private cloud environment or virtual machines in their own data center.

### DATA COLLECTION

Data is typically collected through the app of Critical Communications provider or Netradar SDK activated in any application on the device.

### NETRADAR DASHBOARD

Visualize complex customer experience data, perform automated troubleshooting leading into concrete service improvement actions. Network improvement tickets raised by customers can be viewed from the dashboard.

### BACKEND

Netradar backend consists of Netradar core technology and key algorithms.

## OUR CUSTOMER IN CRITICAL COMMUNICATIONS

We work together with Finnish state-owned critical communications service provider Erillisverkot group, by providing an end-to-end solution for measuring mobile broadband network performance and for capturing customer feedback. Insights are used to further improve service performance towards customers.



Netradar

---

## CONTACT

Tomi Paatsila  
CEO & co-founder  
+358 44 551 4400

tomi.paatsila@netradar.com  
www.netradar.com

# NOKIA

---

## ELEVATE AWARENESS AND RESPONSE

### OUR SOLUTION

Nokia helps government agencies and critical industries adopt mission-critical broadband networks and digital technologies to enhance their operational excellence and make faster, evidence-based decisions.

Our solutions comprise high-performance mission-critical broadband networks, applications such as Nokia Group Communications, Drones Network or Real-time eXtended Reality Multimedia and a comprehensive portfolio of industrial devices to allow critical and safety industries to harness the exponential potential of networks.

### BENEFITS FOR CUSTOMERS

Our communications solutions allow public safety agencies and critical infrastructure owners to develop innovative digital services, that will improve their situational awareness, automate and improve their operations and better protect their teams, citizens and assets, thanks to real-time multimedia and IoT insights.

### COMPANY

At Nokia, we create technology that helps the world act together.

As a B2B technology innovation leader, we are pioneering networks that sense, think and act by leveraging our work across mobile, fixed and cloud networks. In addition, we create value with intellectual property and long-term research, led by the award-winning Nokia Bell Labs.

Service providers, enterprises and partners worldwide trust Nokia to deliver secure, reliable and sustainable networks today – and work with us to create the digital services and applications of the future.



# NOKIA

---

### CONTACT

Omar Almutar  
Account Manager  
omar.almutar@nokia.com  
+358505731868  
[www.nokia.com/networks/  
industries/public-safety](http://www.nokia.com/networks/industries/public-safety)



# NSION TECHNOLOGIES

## SECURED DATA SHARING AND COMMUNICATION

### OUR SOLUTION

NSC3™ offers real-time resource management for intelligence-based decision-making to democratize your command and control (C2) environment. Stream and store secured live video and data to other operators in the field and to control rooms.

### BENEFITS FOR CUSTOMERS

Need additional eyes on the mission happening on the field? There are lots of cameras and sensors in modern societies, fixed and mobile. You can have unprecedented visual situational awareness by streaming videos from all operators and local fixed cameras to a control room and to operators on the field.

We provide a mission-proven, easily deployed and easy-to-use situational awareness platform for public safety operators and industry. Stream data from any source easily and securely. Sources can be commercial off-the-shelf devices, such as drones, dashcams and phones or embedded systems. Always have real-time images on view, even in poor network conditions. Enhance your operations with real-time machine learning capabilities.

### COMPANY

The products and services of NSION Technologies form one of the most competitive and compelling mobile solution portfolios for situational awareness.



## CONTACT

Mattipekka Kronqvist  
Chief of Strategy

mattipekka.kronqvist@nsion.fi  
+358 400 581168  
www.nsiontec.com

# PATRIA

---

## ELEVATE AWARENESS AND RESPONSE

### OUR SOLUTION

In CCW2023 we are displaying our products for communications and location-based data fusion:

Patria CANDL – A single data link solution for communications requiring high reliability, such as UAS payload data and C2. It enables air-to-air and air-to-ground Ad Hoc Networking as well as relaying for BLOS capability, thus enabling capabilities such as MUMT - Manned UnManned Teaming and LVC – Live Virtual Constructive training.

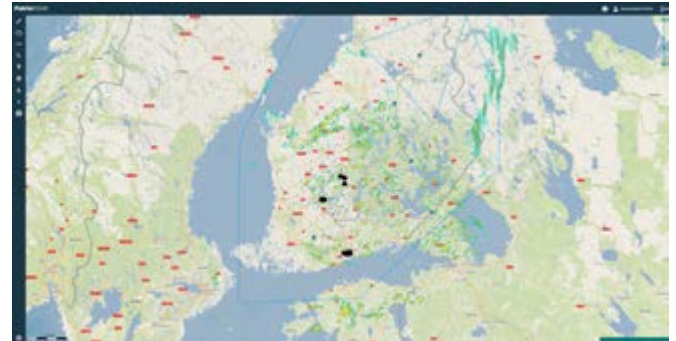
Patria DOME – Real-time situational awareness by receiving data from other systems through standardized APIs. DOME handles even the most unconventional location data formats and brings it all together for easier interpretation. The information is presented in map layers, so you can see the situation developing on several different levels.

### BENEFITS FOR CUSTOMERS

Patria's mission is to give its customers confidence in all conditions, and the vision is to be the #1 partner for critical operations on land, sea, and air. We specialize in system integration, and over the years we have delivered numerous technology transfer projects globally.

### COMPANY

Patria is an international provider of defence, security and aviation lifecycle support services, technology solutions and pilot training. Patria provides its customers with mission capability and fleet availability, continuous performance development as well as selected intelligence, surveillance and management system products and services.




---

### CONTACT

info@patriagroup.com

# Patria



# ROGER-GPS

---

## POSITION, NAVIGATION AND TIMING

### OUR SOLUTION

Roger-GPS is specialized in Global Navigation Satellite System (GNSS) repeater technology. GNSS comprises systems such as GPS, GLONASS, GALILEO and BeiDou. The proven Roger-GPS system concept enables the use of GNSS repeater devices and services indoors.

### BENEFITS FOR CUSTOMERS

Our customers include a wide range of users who need GNSS signal reception and/or time synchronization. This includes sectors such as telecom, public safety, defense, transport, airlines and logistics, as well as companies manufacturing, selling and servicing GNSS systems, receivers, terminals and services.

Our solution is manufactured in Europe. It suits both for small projects, with individual repeaters, and for use in multi-floor or wide area / tunnel coverage uses by installing multiple repeaters into networks.

### COMPANY

Roger-GPS Oy is the only European manufacturer of indoor repeaters that specializes in GNSS technology by manufacturing GPS, GLONASS, BeiDou and Galileo repeaters for positioning, navigation, and timing (PNT) services.



---

## CONTACT

Jari Rautiainen

CEO

[jari.rautiainen@gps-repeating.com](mailto:jari.rautiainen@gps-repeating.com)

+358 400 298 488

[www.gps-repeating.com](http://www.gps-repeating.com)

# SECAPP

## CRITICAL COMMUNICATIONS PLATFORM

### OUR SOLUTION

Secapp is a SaaS platform for critical communication, alerting and documentation – built especially to cope with emergencies and ensure safety. It helps to broadcast mass notifications, alert individuals and teams, collect critical data and provides secure chats and videos. All this is in a platform where the data remains safe and is owned by the customer.

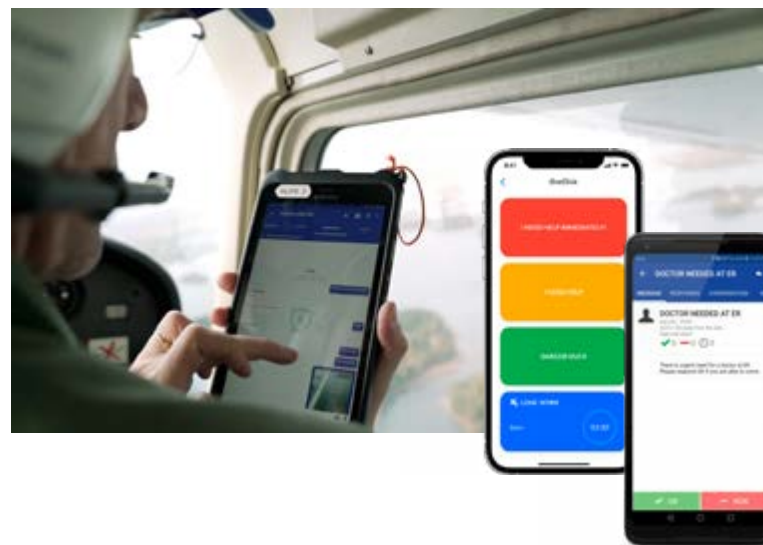
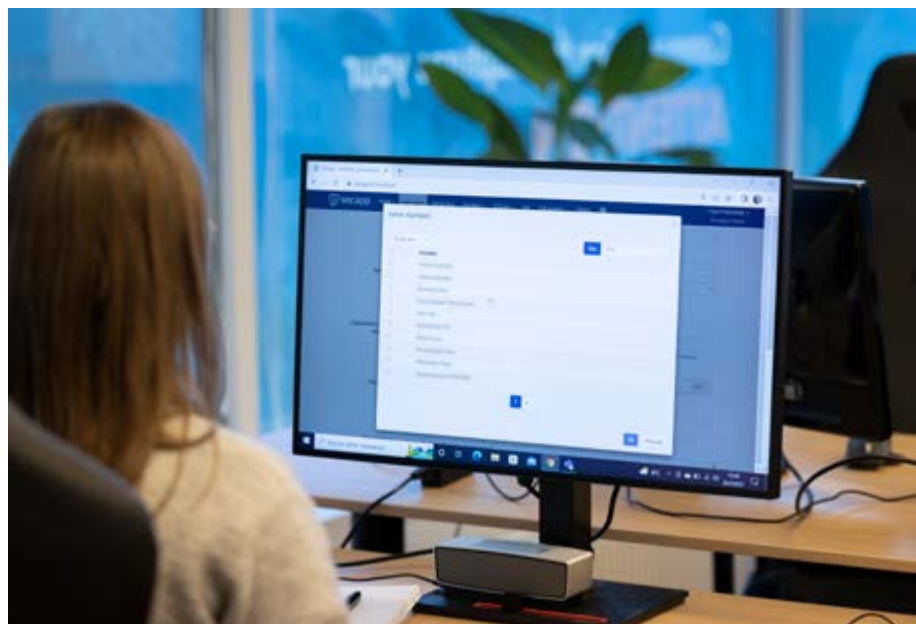
### BENEFITS FOR CUSTOMERS

In crisis situations, every extra second spent prolonging the alert or sharing critical information means more extensive damage to assets and businesses or misery and the loss of lives. The Secapp SaaS-based critical communications platform offers tools for:

- Reach everyone in seconds. Dispatch and page individuals and teams even 90 % faster. Alerting happens through different communication channels, making sure that all needed individuals are reached.
- Save time and money with automation. Use ready-made message templates and contact details to alert specialist and automate filling work shifts and getting urgent human resources. Save up to tens or hundreds of thousands of euros a year in SMS costs.
- Daily operations to complex crises. A secure solution for everyday instant messaging or complex crises – communicate via chat or video and send mass messages to thousands recipients.
- Personnel safety. With OneClick mobile alert buttons allows to send alerts with just one tap. The lone work switch provides safety for your personnel who are working alone.

### COMPANY

The company operates nationwide in Finland and the Nordic Countries, Estonia, the Middle East, Spain, Portugal, Brazil, Peru, Chile and Japan. Secapp is used by more than 120,000 professionals in more than 800 organizations, including public authorities, educational institutions, public administrations, and companies. Secapp is used daily to prepare, react, manage and recuperate from critical situations, such as natural disasters, accidents and service outages. Ultimately helping to save human lives.



### CONTACT

Kari Aho  
CEO  
kari.aho@secapp.fi  
+358 50 406 3028  
www.secapp.fi



# SENOP COMMUNICATIONS

---

## TURNKEY PARTNER FOR CRITICAL COMMUNICATIONS EXPERTISE

### OUR SOLUTION

Senop Communications is your turnkey partner for quick, secure, and reliable communication in all situations. We specialize in encrypted communication solutions, equipment and private networks for companies, authorities, and defence organizations.

Senop Communications provide communication solutions for all sectors and industries. We help you to ensure that you can always communicate and lead effectively, quickly, and securely. Our broad offering of smart devices, TETRA equipment for VIRVE networks, terminals, accessories, and applications ensure that we can offer custom tailored solutions to suit your needs. We provide training in usage, programming, and installations and provide secure decommissioning service as well.

### BENEFITS FOR CUSTOMERS

Our comprehensive service guarantees that you will receive support during the entire lifespan of your equipment from deployment to maintenance and secure decommissioning. Our long expertise in communication solutions ensures cost-efficient service and high utilization rates. We also rent and lease VIRVE equipment for short time periods or long-term usage.

### COMPANY

Senop is a trusted Finnish provider of high-performance night vision devices and demanding system integration services as well as critical communications solutions for the defence and security sector. Senop is a subsidiary of Millog and part of Patria Group.



**SENOP**  
COMMUNICATIONS

---

### CONTACT

Toni Leppänen  
Sales Director, Communications

toni.leppanen@senop.fi  
+358 20 734 3500 (switchboard)  
www.senop.fi

# SIGNET DIGITAL

---



## TRUST OVER ANYTHING

### OUR SOLUTION

Signet Digital offers expertise in securing sensitive communication. For that, try out Signet App, an encryption application for smartphones (iOS and Android) that does not require any expensive backend hardware to run. Just a simple app at both ends will do the trick. You can use your familiar messaging apps such as WhatsApp, Gmail and Slack to deliver encrypted messages.

### BENEFITS FOR CUSTOMERS

The application is easy and affordable to deploy and maintain by company IT admins and does not require the user to change their existing smartphones or messaging apps.

## COMPANY

Signet Digital was established in 2018. Our roots are in Remod Oy, a cyber security company. We belong to an internationally recognized ecosystem of cyber defence companies hailing from Oulu, Finland.



---

## CONTACT

info@signet.fi

+358 45 490 9906

www.signet.app



# VINCIT

---

## TRUST OVER ANYTHING

### OUR SOLUTION

Vincit brings together top-notch digital and developer talents with one goal: to create solutions that make our customers happy. No hype, no nonsense. Just digital solutions with a focus on results and an amazing user experience. At Vincit, we're building better Mondays – not just for our employees, but for our customers and the planet as well.

### BENEFITS FOR CUSTOMERS

We at Vincit aim to

- Shape our customers' future with digitalization initiatives
- Supercharge digital services with the best design and accessibility
- Enable growth and new business models through data-driven commerce
- Streamline core processes
- Bolster business with sustainable lifecycle services

### COMPANY

Vincit is a digital business agency that helps customers accelerate digital development and transform their business, to make Mondays better for us all.

# VINCIT

---

### CONTACT

Jouni Honkanen  
Business Development Director  
jouni.honkanen@vincit.fi  
+358 40 656 5424



# VTT

---

## BRINGING INNOVATION AND BUSINESS TOGETHER

### OUR SOLUTION

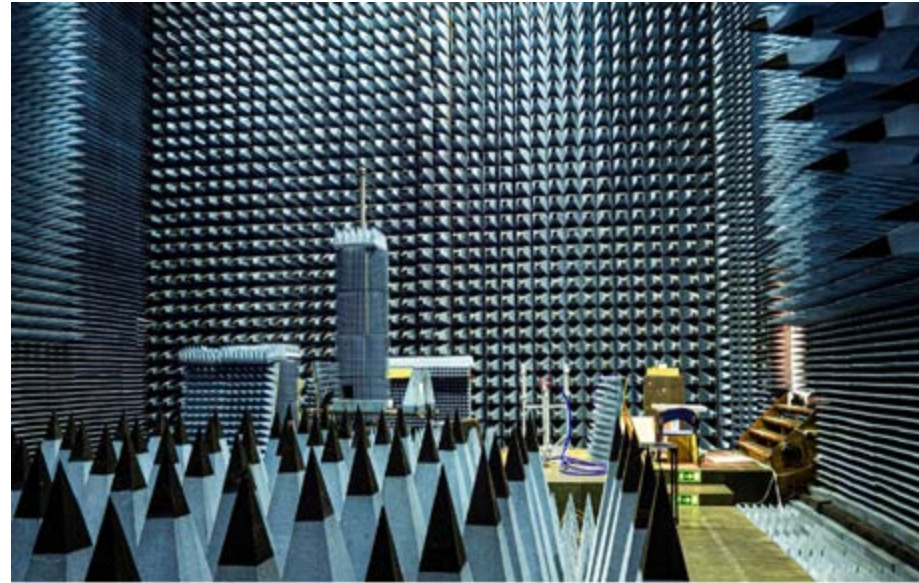
VTT develops IoT sensors and wearables as well as satellite imagery techniques with advanced AI and data analytics. Our integrated satellite-terrestrial connectivity solution includes radio frequency (RF) hardware, wireless cybersecurity, network technologies and gateways for multi-network systems and edge computing. We operate 5G and beyond test networks to develop and test solutions in practice and provide autonomous systems expertise for public safety needs.

### BENEFITS FOR CUSTOMERS

VTT can help you at all stages of your innovation process from idea, proof of concept, R&D and IPR to commercialization. We are able to create fast pilots and precommercial products and provide solutions to a variety of challenges for companies or governmental clients.

### COMPETITIVE ADVANTAGE

We develop world-class solutions for public safety, such as the world's smallest hyperspectral imaging solutions for drones and small satellite systems. We cover the whole technology chain, from hardware to applications, including AI for anomaly detection. We have advanced research facilities, such as ESA MilliLab, Micronova, test networks with a cybersecurity war room and Data link Lab as a Service (DLLaaS) facility. In the world's largest R&D fund, Horizon Europe, we are one of the top winners during the first two years of the programme. ESA's external MilliLab in Espoo is hosted by VTT. We are also participating the central collaboration activities related to 6G, such as the European 6G Flagship Hexa X.



### COMPANY

VTT uses its R&D expertise to provide professional services for its domestic and international customers and partners serving both private and public sectors. We combine applied research, advanced research facilities, interdisciplinary scientific, technological and business competence.



---

### CONTACT

Mikko Salomaa  
Solution Sales Lead  
mikko.salomaa@vtt.fi  
+358 40 505 7675  
www.vttresearch.com



# BUSINESS FINLAND

16.5.2023

## WELCOME TO VISIT FINLAND'S PAVILION AT CRITICAL COMMUNICATIONS WORLD 2023!

SCAN THE QR CODE AND DOWNLOAD  
THIS BROCHURE AS A PDF



\* DESI Digital Economy and Society Index, 2022

\*\* The Fund for Peace, Fragile States Index, 2022

\*\*\* UN World Happiness Report 2022

Notice: The information contained in this publication is collected from various sources and provided for your information only. Business Finland does not assume any liability for the accuracy and completeness of the information presented herein.

## BUSINESSFINLAND.FI

FOLLOW US ON SOCIAL MEDIA

