# PUBLIC SAFETY FROM FINLAND

FINNISH SOLUTIONS FOR SAFE AND RESILIENT SOCIETIES AND BUSINESSES.

#FINLANDWORKS

2

000

# CONTENTS

PUBLIC SAFETY OVERVIEW4FINNISH SOLUTIONS FOR PUBLIC SAFETY6WHY FINLAND?8PUBLIC SAFETY VALUE CHAIN10APPLICATION FIELDS12PUBLIC SAFETY ECOSYSTEM IN FINLAND16PUBLIC SAFETY INNOVATIONS FROM FINLAND18

.54 .56 .58

.78 .80 ..82 .84

AIRBUS		NOKIA
AP SOLUTIONS LTD		NSION TECHNOLOGIES
ARCTIC SECURITY		OMNITELE
BANDERCOM	26	PORTALIFY
BEACONSIM	28	PRIVECOMMS
BITTIUM		QUUPPA
CODEA.		ROGER-GPS.
CREANORD	34	SATEL
CUMUCORE		SAVOX.
DIGIA		SCOPESENSOR
ELEKTRO-AROLA	40	SECAPP
GOODMILL SYSTEMS		SOIL SCOUT
ICEYE		SUNIT.
INSTA	46	TIETOEVRY.
JOLLA	48	VAISALA
XMENTURA	50	VTT
NET TECHNOLOGIES	52	

111

.....

111

# PUBLIC SAFETY OVERVIEW

### DIGITALIZATION IS A KEY CATALYST AND STRATEGIC SOURCE OF TRANSFORMATION TOWARD SMART CITIES AND A SMART SOCIETY.

The development of public safety and critical communications capabilities is the first step to ensuring stable and safe societies.

With urbanization and climate change, natural and manmade catastrophes threatening society are more dramatic, affecting many lives and much property, and causing large-scale economic losses.

Finnish public safety companies provide solutions for resilient and safe societies and businesses.

# SUCCESS IS BUILT ON 24/7/365 COLLABORATION.

Public safety operations bring together all parties dedicated to keeping modern societies running smoothly and safely. They provide vital, valuable public services to society.

**#FINLAND**WORKS

Border control – Defense – Fire and rescue – Healthcare and hospitals							
Infrastructure	Marine	Operators -	Police	Private i	ndustries		

# FINNISH SOLUTIONS FOR PUBLIC SAFETY

FINLAND'S REPUTATION AS A TECHNOLOGY SUPERPOWER COMES FROM OUR INNOVATIVE BUSINESS CULTURE. IN PUBLIC SAFETY AND CRITICAL COMMUNICATIONS, WE HOST SOME OF THE WORLD'S MOST INNOVATIVE COMPANIES.

### **OUR COMPETITIVE ADVANTAGES**

Key competitive advantages of Finland's public safety and critical communications companies:

- Non-proprietary solutions based on standards and practical experience
- High interoperability for seamless end-to-end communications and situational awareness
- A comprehensive ecosystem with solutions tailored to mission-critical needs
- User-focused applications and pioneering innovations



**#FINLAND**WORKS

HIGHEST DIGITAL COMPETITIVENESS IN THE EU

DIGITAL ECONOMY AND SOCIETY INDEX 2019



BEST BUSINESS ENVIRONMENT IN THE WORLD

GLOBAL INNOVATION INDEX 2019



IN AVAILABILITY OF SCIENTISTS AND ENGINEERS IN THE WORLD

WORLD ECONOMIC FORUM, GLOBAL Competitiveness index 2017–2018 IN AVAILABILITY OF THE LATEST TECHNOLOGIES

WEF GLOBAL COMPETITIVENESS REPORT 2017-2018

#3

THIRD MOST INNOVATIVE COUNTRY IN THE WORLD

BLOOMBERG INNOVATION INDEX 2019

# 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

### **VALUE FOR CUSTOMERS**

Finnish companies have a solid track record of long-term collaboration with authorities and industries. This ensures continuous customer orientation, attention to local needs and user-friendly ways of working.

These companies provide innovative solutions that guarantee uninterrupted connectivity and high service quality.

### SUCCESS IN COLLABORATION

In Finland, public safety authorities and critical infrastructure operators use a shared network and mobile field commanding solutions for real-time situational awareness and seamless cooperation.

The country's neutrality adds to Finland's competitive advantage, enhancing already attractive critical communications and public safety offerings.

# TAILORED SOLUTIONS AND OPERATIVE PROCESSES

### Finnish companies are highly experienced in providing local adaptations and supporting various operative models. Finnish experts help countries and authorities improve cooperation in emergencies and reduce network building and operational costs.

Success is all about collaboration - in all situations - 24/7/365

### **PUBLIC SAFETY** VALUE CHAIN

10

### FINNISH COMPANIES CREATE PUBLIC SAFETY INNOVATIONS IN ALL PARTS OF THE VALUE CHAIN.



### **APPLICATIONS & SERVICES**

Solutions and services BEACONSIM PORTALIFY **SOIL** (**)** SCOUT supporting multi-agency cooperation Codea **Qυυρρ**α SUNIT Broader situational picture digia SAVOX tieto Evry ELEKTROAROLA VAISALA SCOPESENSOR ICEYE ()s secapp VTT NSION

### **TERMINALS & ACCESSORIES**

- Innovative customercentric solutions for mission-critical needs
- Disruption-free communication

Bittium





### SECURITY

• Strong authentication solutions for mission-critical use

🔆 Arctic Security

**INSTA** 



• High-security missioncritical backbone

### **APPLICATION FIELDS**

THE COMPANIES IN THIS BROCHURE SPECIALIZE IN PUBLIC SAFETY AND **CRITICAL COMMUNICATIONS. THESE TECHNOLOGIES CAN BE USED IN** A VAST RANGE OF APPLICATIONS.

### **#FINLAND**WORKS

12



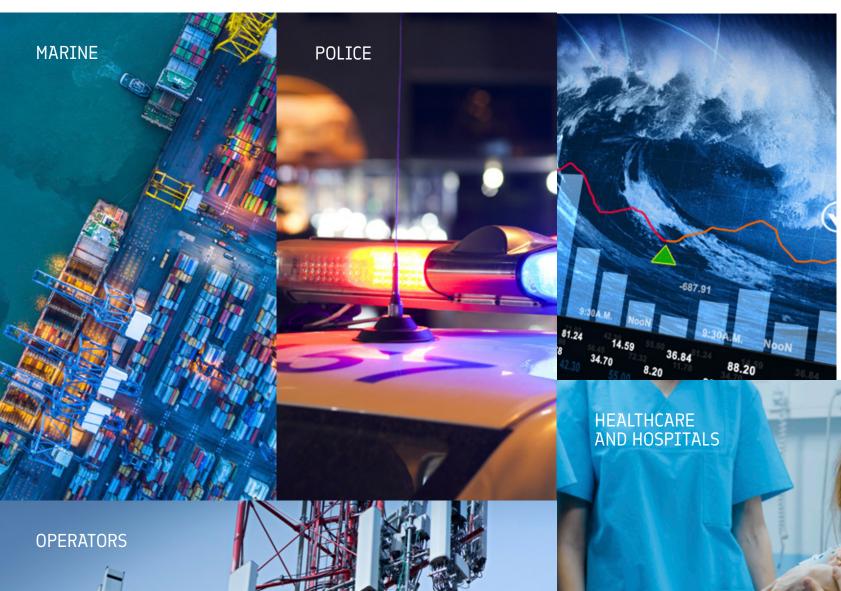
### PRIVATE INDUSTRIES

Finnish innovations in critical communications help facilitate successful operations in various industries, such as oil & gas, mining and logistics, where safety is integral and operating conditions are highly demanding.

### FIRE AND RESCUE

Finnish innovations improve situational awareness and efficiency of first responders and facilitate faster, better-informed decisions. High-performance, mission-critical broadband networks and data-based solutions with integrated operation centers significantly enhance multiagency collaboration.

14



### DISASTER MANAGEMENT

Systems providing a broader situational picture and disruptionfree communications are ever more important to disaster management. Rescue and security services must excel when combating any natural threat, be it a virus, landslide or a tsunami.

Finland's innovations in disaster management solutions help predict risks and protect people and property. The country's critical communications solutions ensure smooth operations and collaboration of authorities.

### PUBLIC SAFETY ECOSYSTEM IN FINLAND

### CRITICAL COMMUNICATIONS FINLAND (CCF)

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.

CCF focuses on how stakeholders use narrow and broadband critical communications solutions to cooperate. It also identifies supporting solution requirements and maps out the way forward for the sector.

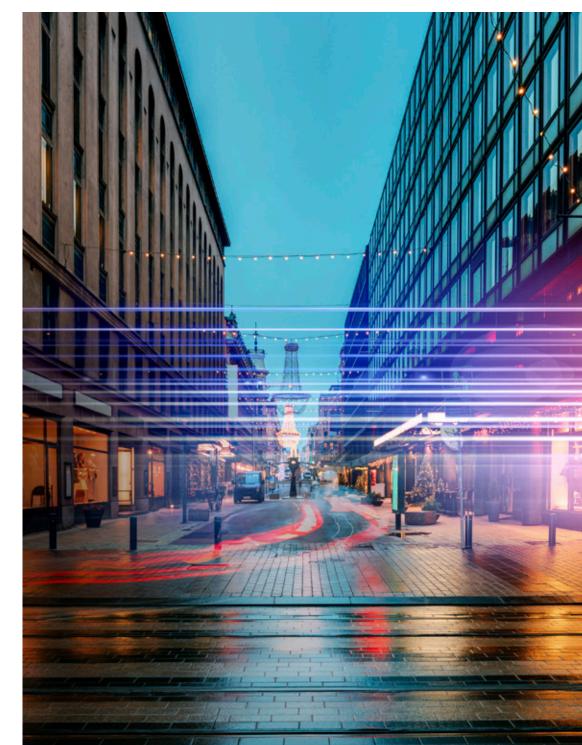
CCF companies aim to collaborate with international customers to bring together mutual competence and experience. Finnish solutions ensure smooth collaboration and secure connections, regardless of time or place.

### STATE SECURITY NETWORKS GROUP FINLAND / ERILLISVERKOT OY: NORDIC-SCALE COLLABORATION WITH INNOVATIVE TECHNOLOGIES

State Security Networks Group Finland secures critical leadership and information services for society by providing secure and reliable ICT solutions for public authorities and other critical national security operators.

The group is a fully state-owned actor, developing security and safety operations that affect nearly everyone in Finland.

16



B DATA ROW & MEISCAN & UNKSPOI

18

# PUBLIC SAFETY INNOVATIONS FROM

AS THE MOST STABLE COUNTRY IN THE WORLD, FINLAND OFFERS WORLD-CLASS EXPERTISE FOR SAFE AND RESILIENT SOCIETIES.



## PREVENT, PROTECT AND RESPOND

### AIRBUS

20

### 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.

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.

### COMPETITIVE ADVANTAGE

We combine our strengths to add value to our customer missions on land, in the air and at sea. We provide the whole value chain from cyber resilience and protection to secure connectivity and data analytics by combining various sources.

### 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.

### CONTACT

Tapio Mäkinen Director

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

### **SAFE AND** RELIABLE CABLING **SOLUTIONS**



### **OUR SOLUTION**

AP Solutions Ltd (APS<sup>®</sup>) is a specialist in the design and manufacturing of high-technology cables and cabling solutions for communications. Our offering can be divided into two main segments: telecommunications and data networks.

Our primary focus is on the present and future trends of cabled and wireless communication. especially as it pertains to LAN, WAN, Access, FTTx and data centers. Our structured cabling solutions are available with an extended warranty of 25 years.

### **BENEFITS FOR CUSTOMERS**

Marine, Oil & Gas APS<sup>®</sup> supplies the shipbuilding and oil and gas industries with a complete range of communication and special cables, most of which are certified by DNV GL. We design copper. fiber optic and hybrid cables to carry signals and communication in even the most challenging environments.

### COMPANY

APS<sup>®</sup> has 20 years of experience, skilled personnel and a lean organizational structure. We have an international presence and a solid focus on cable solutions for voice and data transfer in the most diverse environments. from telecommunications and data to transportation, shipbuilding, oil & gas, electronics, audio & video and defense.

### CONTACT

Alessandro Psenda Managing Director

alessandro.psenda@apsolutions.fi +358 40 875 6179 www.aps-finland.fi

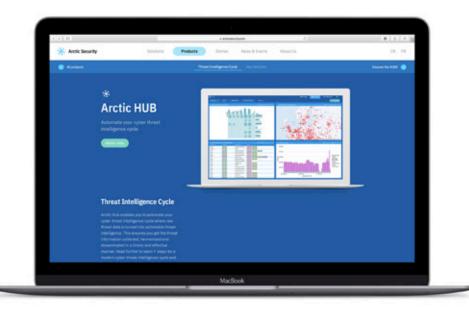
4XSMT OS2 - LSZH-FR IEC60332-3

22

### INNOVATIVE CYBERSECURITY SERVICES



### **Arctic Security**



24

### OUR SOLUTION

Arctic Security's products enable national and commercial security providers to automate victim notification for their critical infrastructure constituents. We also help enterprises monitor their networks and supply chain.

Too often, victims are not aware of their compromised and vulnerable machines or any malicious activity originating from their networks. This information, known as cyber threat intelligence, is beyond the capabilities of normal security solutions. It must be collected by a third party, who can issue timely notifications of incidents, cutting damages and stopping malice.

### BENEFITS FOR CUSTOMERS

We help customers detect incidents faster, catch otherwise unnoticed issues and monitor your supply chain with ease. This enables you to gain situational awareness of active threats across industries and geographies.

### COMPETITIVE ADVANTAGE

Our products use over 150 observation sources to match data with the exact victims. This creates precision-filtered, real-time and actionable data with easy integration into ticketing and security systems. The data can be delivered on premise, in the cloud or as a managed service.

### COMPANY

For over 10 years, we have worked with our customers to automate victim notification. We help you find and fix issues that have slipped by and reduce their risk.

### CONTACT

Virpi Koivumaa Chief Operating Officer

contact@arcticsecurity.com www.arcticsecurity.com



### SOLUTIONS FOR IN-BUILDING AND CONFINED AREAS

### Bandercom

26

### OUR SOLUTION

Bandercom's unique solution is to provide our expertise and development services to network operators that are transitioning from legacy systems to digital radio systems and, more importantly, from digital narrowband to broadband services.

#### BENEFITS FOR CUSTOMERS

With our dedicated employees and in-depth expertise, we have achieved a strong position as a system supplier, integrator, contractor as well as a development and consultancy partner.

#### COMPETITIVE ADVANTAGE

Our development services include in-building antenna network evaluations, "upgrade to broadband" modeling, integration project management, consultation and verification, roll-out scheduling and timely commissioning information.

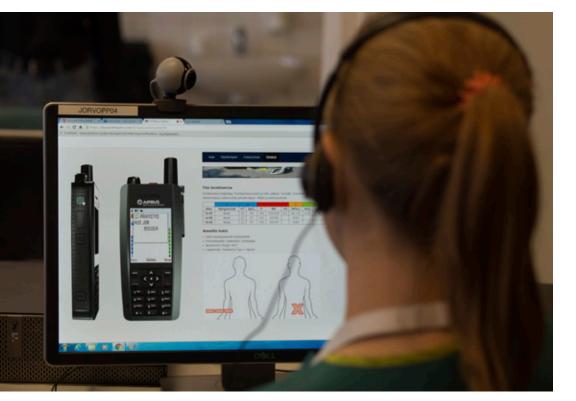
### COMPANY

Bandercom has served network operators, building owners and developers for over 20 years in the field of in-building coverage solutions.

### CONTACT

Pete Peltola CEO

pete.peltola@bander.com +358 50 558 0090 www.bander.com



### PLANNING AND LEARNING – REAL RESULTS BY SIMULATION

### #FINLANDWORKS

28

### **OUR SOLUTION**

Beaconsim's solutions include simulators and virtual environments for planning and training radio terminal, dispatcher, command and control (C&C) and application usage of any critical communication technology.

We deliver turnkey e-learning solutions, tailored e-learning with operative communication exercises, entire virtual critical communication environments and simulators as part of virtual reality systems. These are delivered as a learning platform or integrated into the customer's existing software.

### BENEFITS FOR CUSTOMERS

OPERATIVE – operative communication instead of pure product training

REALISTIC – matched to our customers' devices and applications

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 customercontrolled 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

### COMPETITIVE ADVANTAGE

Our unique simulator exercises merge products and operating procedures into one – all devices and applications are used just like in daily operations.

### COMPANY

Beaconsim develops simulator software for critical communication customers. We have delivered systems in more than 30 countries.

### CONTACT

Elina Avela CEO

elina.avela@tetrasim.com +358 50 514 9705 www.beaconsim.com

BEACONSIM

## MISSION-CRITICAL COMMUNICATIONS

### Bittium



30

### 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.

### COMPETITIVE ADVANTAGE

For the defense and security market, we provide the most modern products and solutions for tactical and secure communications. The products and solutions for tactical communications bring broadband data and voice to all troops across the battlefield.

To ensure secure communications, we offer proven mobile devices and cybersecurity solutions certified up to the confidential level.

### COMPANY

Bittium specializes in the development of reliable, secure communications and connectivity solutions leveraging its over 30year legacy of expertise in advanced radio communication technologies. Net sales in 2019 were EUR 75.2 million, and operating profit was EUR 6.3 million. Bittium is listed on the Nasdaq Helsinki exchange.

### CONTACT

Sammy Loitto Senior Vice President of Sales

sammy.loitto@bittium.com +358 40 833 5277 www.bittium.com

### 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.

#### COMPETITIVE ADVANTAGE

Our staff has several decades of experience in healthcare, which, when combined with our innovative use of new technologies, makes our solutions advanced. With this recipe, our products have proven their excellence by having already become industry standards in Finland.

### 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.

### CONTACT

Timi Härkönen Project Manager

timi.harkonen@codea.fi +358 44 717 7313 www.codea.fi

### WORLD-CLASS ONLINE MANAGEMENT SOLUTIONS

Codea

### OUR SOLUTION

Creanord designs and delivers network performance quality solutions that build better confidence and readiness for communications service providers to create and sell services with service level agreements (SLAs). Our aim is to satisfy customers who have zero tolerance for poor network performance quality and assure that our customers are delivering what they have promised 24/7.

Creanord PULSure is a design framework used for solutioneering a network performance and experience-tracking solution to customer-specific needs and requirements at a fraction of the cost, time and effort of conventional systems.

### BENEFITS FOR CUSTOMERS

Some of the benefits of working with Creanord include the shortest time-to-value, improved ROI and easy customization.

The PULSure solution enables you to set, offer and track network experience-based SLAs and key performance indicators (KPIs) that go beyond traditional parameters, such as speed, latency and availability. This is also designed to offer the end-to-end situational awareness, performance visibility and control needed to prevent negative impacts, automate and continuously optimize network performance.

#### COMPETITIVE ADVANTAGE

The PULSure solution offers performance monitoring with advanced and innovative reporting tools to ensure that operators have full visibility into the performance of their networks with the granularity and accuracy required from these highly demanding services.

### COMPANY

Creanord is headquartered in Helsinki, Finland. Since 2000, Creanord has served customers globally, operating the most demanding networks and connectivity applications.

### CONTACT

Jari Augustin CEO

jari.augustin@creanord.com +358 40 865 1479 www.creanord.com

34



## ON THE PULSE OF NETWORKS

### 

on the pulse of networks

### FOR SAFE PRIVATE MOBILE NETWORKS





36

### OUR SOLUTION

Cumucore provides an ultra-reliable and compact software-based mobile packet core to be integrated with a radio access network from different hardware vendors for deploying a private 4G/5G industrial and critical communications mobile network infrastructure.

### BENEFITS FOR CUSTOMERS

Cumucore software core can be deployed on the cloud or on bare metal to create a completely isolated network, which can scale automatically on demand.

In addition to the mobile core, a software-defined networking (SDN)-based orchestrator is fully integrated into the solution to create network slices and manage network resources, enabling ultra-reliable and low-latency communications to be delivered for critical services.

### COMPETITIVE ADVANTAGE

Cumucore's modular implementation also supports established network providers, such as Ericsson, Nokia or Huawei, complementing their hardware cores with our own specific SDN-based network slice manager components to deliver a low latency, service availability and determinism requirements.

Our solutions also anticipate the need for stringent timing requirements to ensure 5G ubiquitous and seamless connectivity in the Industry 4.0 market.

### COMPANY

Founded in 2015, Cumucore is a spin-off from Aalto University. Our team of highly qualified experts in software and mobile network technology has contributed to award-winning solutions using SDN in mobile network management and orchestration. We have commercial deployments in Europe, South Africa and Asia.

### CONTACT

Jose Costa-Requena Senior Research Manager

jose.costa-requena@cumucore.com +358 50 470 7433 www.cumucore.com

### INNOVATIONS FOR PUBLIC SAFETY

### OUR SOLUTION

digia

Digia develops and innovates mission-critical products and services that support operations, collaboration and secured communication in the public safety sector.

#### 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.

### COMPETITIVE ADVANTAGE

Our portfolio covers products and services throughout the life cycle of systems – from idea to continuous service. We ensure smooth operations and implementation according to our customers' needs through consulting and service design. By constantly innovating with our customers, we ensure that mission-critical solutions function 24/7/365 – also in exceptional situations.

### COMPANY

Digia is a Finnish software and service company that helps its customers renew themselves in the networked world. We are a trusted partner with a long and successful history of delivering mission-critical solutions in the public safety sector and multi-agency environments.

### CONTACT

Markus Asikainen Director

markus.asikainen@digia.com +358 50 462 1259 www.digia.com 38



### ALERTING AND COMMUNICATION TECHNOLOGY





40

### 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.

#### COMPETITIVE ADVANTAGE

We have our own long-term hardware and software development and a deep understanding of customer needs with lots of active references. Our solutions offer, the latest technological advantages, but we also know the most important existing systems and interfaces, which are often required to be integrated into be integrated in the complete hybrid solution.

### COMPANY

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

### CONTACT

Kalle Arola Managing Director

kalle.arola@elektro-arola.fi +358 40 533 8468 www.elektro-arola.fi



## 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. Our new operational models range from swarm tactics to performing all back-office administrative work on the road.

#### COMPETITIVE ADVANTAGE

Goodmill has a proven global track record of trust in highly demanding environments, not only with our technology, but also as a partner.

Our cutting-edge router solutions are used around the world to ensure that critical connections are always available. They have been implemented globally in public safety, healthcare and military applications.

### COMPANY

Privately owned Goodmill Systems Ltd. offers reliable, operatorindependent 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.

### CONTACT

Topias Uotila CEO

topias.uotila@goodmillsystems.com +358 40 546 7046 www.goodmillsystems.com



ICEYE

# EVERY SQUARE METER, EVERY HOUR

### **#FINLAND**WORKS

### **OUR SOLUTIONS**

ICEYE empowers governmental and commercial industries to make better decisions by providing access to timely and reliable radar satellite imagery. Our data supports time critical applications, such as humanitarian and disaster response activities, by delivering world-first capabilities in Earth observation with the New Space approach.

### BENEFITS

The ICEYE satellite constellation enables near real-time monitoring of any point on Earth, regardless of weather conditions and daylight. The constellation enchances situational awareness especially for immediate natural catastrophe response, storms, hurricanes and floods, requiring a constant flow of situational data while the events are still progressing.

### COMPANY

ICEYE has provided commercial radar satellite imaging worldwide for several years, enabling its customers to resolve challenges in sectors such as disaster management, insurance, maritime and finance. ICEYE is the first organization in the world to successfully launch synthetic-aperture radar (SAR) satellites with a launch mass of less than 100 kg.

### OUR CLIENTS

ICEYE's SAR satellite imagery is used in a wide range of fields such as insurance industry, financial services, energy industry, utilities industry, mining industry, maritime segment, civil government, security solutions.

### CONTACT

Steve Young VP Business Development & Sales

steve.young@iceye.com www.iceye.com

44



# SAFE SOCIETY SOLUTIONS

# **INSTA**

### OUR SOLUTION

Insta is an expert in emergency response and alarm center solutions. Our solutions enable seamless connectivity between different security operators. With our Insta Response™ product family, emergency response and alarm centers can efficiently exploit the possibilities of digitalization and respond to a need for assistance more effectively.

#### BENEFITS FOR CUSTOMERS

We support our customers by providing versatile professional services that are well suited for the execution and development of exercise activities related to situation and contingency management, crisis management and communications, and continuity management.

#### COMPETITIVE ADVANTAGE

Our common operational picture platform Insta Blue Aware™ provides a quickly deployable solution for presenting and utilizing operational data collected from various data sources, especially in security-critical operating environments.

### COMPANY

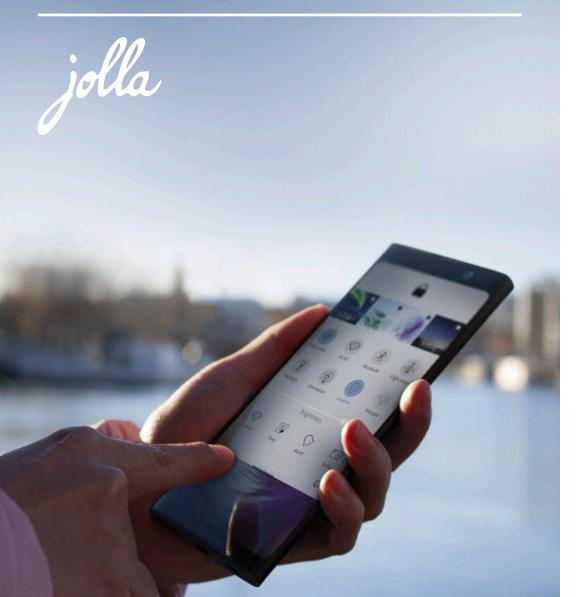
Insta is a trusted technology partner for future-oriented corporations and public organizations. We believe that people and digital technology together are the key to building a safe and competitive society. Our team of more than 1,000 experts builds and maintains critical systems, solutions and services that improve safety and continuity in the society.

### CONTACT

Antti Rasila Director Head of Business

antti.rasila@insta.fi mobile +358 45 673 7669 www.insta.fi

### FREEDOM FOR THE MOBILE OS WORLD



48

### OUR SOLUTION

Jolla offers an independent and customizable mobile operating system with full source code access.

#### BENEFITS FOR CUSTOMERS

Sailfish OS operates independently from any nation and large industry player, building closed ecosystems. Sailfish OS is the only proven solution for countries and corporations that want to build independent mobile ecosystems.

The full operating system is managed locally to provide maximum security and a chain of trust. With Sailfish OS, a government or enterprise can create a secure environment with full control of the data and access. User data or location information is not collected for any purpose by Jolla Ltd, resulting in 100% GDPR compliance.

### COMPANY

Jolla received the Best of Mobile World Congress award in 2015 for its Sailfish OS-based tablet. Sailfish OS is the next evolution of the MeeGo project in which Nokia and Intel cumulatively invested over EUR 1 billion.

### CONTACT

Petteri Paasila Vice President Sales and Business Development

petteri.paasila@jolla.com +358 40 853 6242 www.jolla.com

### CONTROLLED MOVES FOR CRITICAL MISSIONS

### mentura

### **OUR SOLUTION**

Mentura's interoperable COREMOTE solution family enables management, billing and monitoring of critical communications networks. It features situational awareness and dispatching solutions for user organizations managing a mobile field force. COREMOTE solutions support TETRA, LTE, hybrid and GSM-R networks.

#### BENEFITS FOR CUSTOMERS

We have over 20 years of experience operating in critical communications and public safety industries. We have proven solutions and experience in delivering projects across the world.

We have the capability and desire to build relevant, tailored solutions to meet our customers' needs. Our broad portfolio has been operating successfully as shown by our large satisfied customer base.

### COMPANY

Mentura Group is the leading provider of advanced and intelligent software solutions for critical operations. Mentura has been pioneering the migration to LTE, being a first-line innovator in redefining the solutions and processes in the hybrid world. Our solutions empower authorities, first responders and professional organizations to build and protect a safe and smart society.

### CONTACT

Sami Honkaniemi CVO, Business and Strategy

sami.honkaniemi@menturagroup.com +358 40 584 8001 www.menturagroup.com

### #FINLANDWORKS

50





### SOLUTIONS FOR CRITICAL COMMUNICATIONS



52

### OUR SOLUTION

Net Technologies offers engineering and consulting services in communications networks, including 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 also provide security and facilities assessment, risk management, security design and mitigation plans, as well as security for border control. Our IoT/AI smart apps work toward a smart and safe society.

#### 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.

### COMPETITIVE ADVANTAGE

We have a proven track record of successful projects delivered to the world's leading telecommunication vendors, 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 telecommunications and information technology. Our expertise includes mobile networks, systems and services including emergency, security and resilience services, 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.

### CONTACT

Dimitris Androutsopoulos CEO

dimitris@nettechn.com +358 40 726 1704 www.nettechn.com



### SMARTER NETWORKS FOR FASTER EMERGENCY RESPONSE

### NOKIA

54

### OUR SOLUTION

Nokia helps government agencies and cities use broadband networks and digital technologies to improve the efficiency of first responders and make faster, better-informed decisions.

Our solution comprises high-performance mission-critical wireless broadband networks, IoT and cognitive analytics platforms. We use data-intelligent insights, video group communications, drones and integrated operations centers to provide 360-degree situational awareness and enhance multi-agency cooperation.

#### BENEFITS FOR CUSTOMERS

Our solutions help detect incidents faster for a better understanding of the situation, leveraging multimedia and IoT insight. This enables quicker, betterinformed decisions for acting faster and more efficiently, and alerting the public in real time.

### COMPETITIVE ADVANTAGE

We are unique in our ability to bring an end-to-end, high-performance mission-critical networking infrastructure to governments and cities that want to deploy private communications services that greatly enhance the situational awareness and safety of their first responders and citizens.

### COMPANY

Nokia's services range from networks to software and services to devices. Our clients are communications service providers, industries, consumers and the public sector.

Our expertise encompasses mission-critical broadband networking, platforms, systems and applications to ensure reliable, high-performance rich-media communications for public safety environments.

### CONTACT

Antti Mansner Account Manager

antti.mansner@nokia.com +358 50 584 6384 www.nokia.com/networks/ industries/public-safety



## SECURED DATA SHARING AND COMMUNICATION



#FINLANDWORKS

56

### OUR SOLUTION

NSC3<sup>™</sup> 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.

#### COMPETITIVE ADVANTAGE

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

Jani Marjamaa Solution Manager

jani.marjamaa@nsion.fi +358 45 652 2041 www.nsiontec.com





omnitele

### NETWORKS FOR SUSTAINABLE BUSINESS

....

### **OUR SOLUTION**

Omnitele provides engineering and consulting services to public safety network operators and user organizations alike. Omnitele can support its customers in different phases during the transition to broadband-based critical communications, starting from strategy definition to quality assurance of the final solution.

#### BENEFITS FOR CUSTOMERS

We offer the know-how for planning and optimizing a technically strong public safety network to meet the strict requirements for quality and availability. We also support in identifying any key gaps in commercial networks before the critical communication requirements for coverage, availability and resilience can be met.

#### COMPETITIVE ADVANTAGE

We have over 30 years of experience in providing strategic advisory services and carrying out network audits and benchmarks, including field measurements for performance verification and coverage optimization.

### COMPANY

Omnitele is a trusted Finnish partner that provides proven and tailored best-practice solutions to the specific customer needs and requirements. Since 1988, we have completed over 1,000 projects in 96 countries around the world.

### CONTACT

Jani Nieminen, Director Head of Advisory Services

jani.nieminen@omnitele.com +358 44 994 <del>7</del>968 www.omnitele.com



### APPLICATIONS FOR PUBLIC SAFETY



60

### OUR SOLUTION

Portalify provides mobile data applications and solutions, including messaging, photos, indoor and satellite locations, situational awareness, database access, reporting and forms, police applications, field commands, system integrations, SMS and AML to 112 and more.

Our applications are available at all times for every user in every situation, using both your existing radio network, such as TETRA, or broadband networks and devices.

We have over 15 years of experience delivering public safety applications with more than 10 years in public safety messaging solutions for operational use.

### BENEFITS FOR CUSTOMERS

We enable you to take advantage of information-centric operations. By building multiple end-user apps with a single installation of product-based applications, you can streamline deployment, decrease maintenance needs and lower costs.

### COMPETITIVE ADVANTAGE

Our product-based solutions enable quick deployment with simple installation. We also give you the ability to integrate with existing complex and secure public safety IT environments.

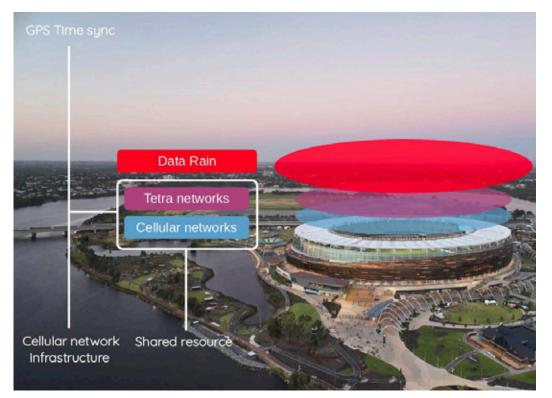
### COMPANY

Portalify has over 15 years of public safety application experience, from regional to nationwide deployments around the world. We support TETRA radio networks and broadband networks and devices.

### CONTACT

Kimmo Smolander CEO

kimmo.smolander@portalify.com +358 40 552 2030 www.portalify.com



### FOR SECURE AND RESILIENT COMMUNICATION





### **OUR SOLUTION**

PRIVE communication solutions provide secure and resilient mobile devices and independent networks for all core communication applications including, voice, video and data transfer. PRIVE platform secures operating capability in all circumstances – even when public networks are not available.

### BENEFITS FOR CUSTOMERS

PRIVE solutions meet the most demanding cybersecurity needs for all public safety requirements. Full interoperability with LTE networks combined with end-to-end multi-cast encryption, creates a superior security layer and operating capability.

#### COMPETITIVE ADVANTAGE

PRIVE communications platform and secure solutions follow "clean hardware" and "clean software" methodology in accordance with the modern "Zero Trust" technology strategy model.

A proprietary PRIVE operating system is the fundamental building block for secure, resilient and transparent solutions.

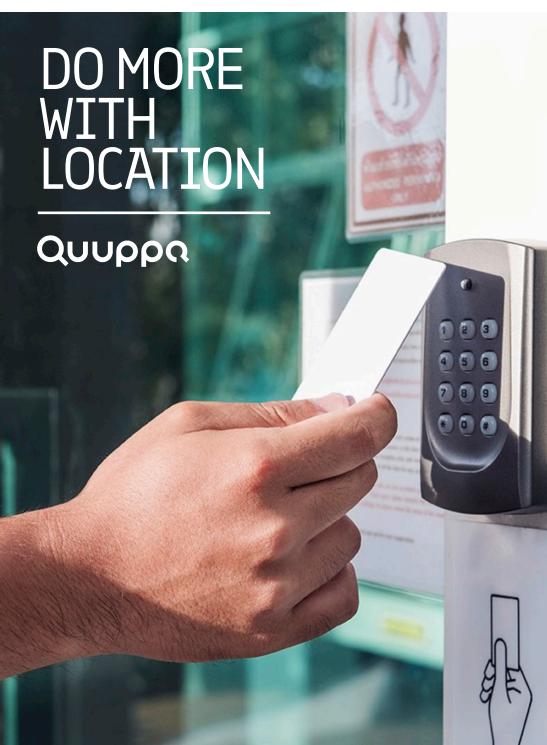
### COMPANY

PRIVECOMMS Oy is a Finnish technology platform company that develops advanced cybersecurity solutions to meet the requirements of the new digital world.

The PRIVE platform and its strategic applications are designed in a transparent fashion to support secure digital independence at all levels of the modern society.

### CONTACT

info@privecomms.com www.privecomms.com



64

### **OUR SOLUTION**

Quuppa is a leading provider of real-time locating systems (RTLS) utilizing standard Bluetooth technology, unique angle-of-arrival signal processing and advanced positioning algorithms. We have more than 170 partners in our ecosystem globally who use our open positioning platform to deliver accurate, cost-effective location solutions to companies in a range of industries, including manufacturing and logistics, retail, healthcare, sports, law enforcement and security.

### BENEFITS FOR CUSTOMERS

Quuppa Intelligent Locating System is an accurate (down to 10 cm), robust and reliable, versatile, highly customizable, fully scalable and cost-efficient technology platform for all industries. It enables the exact location of an item or a person, asset or a mobile device to be tracked at any given time without delay.

### COMPETITIVE ADVANTAGE

We have established ourselves as the global market leader for both RTLS and indoor positioning systems (IPS). Our technology platform is:

• Easy to use. It is based on a simple architecture resembling that of GPS making it easy to deploy in different environments

- A proven technology. Over 2,000 Quuppa systems have been commercially deployed around the world
- A universal solution. Our aim is to build solutions that are compatible with other technologies to avoid vendor locks
- Future-proof. A pioneer in angle of arrival (AoA) and angle of departure (AoD) technologies, we have become one of the main contributors to the standardization of Bluetooth Direction Finding and participated in Bluetooth 5.1 core specification

### COMPANY

Quuppa is a leading provider of RTLS, with its headquarters in Espoo, Finland, and a wholly owned subsidiary Quuppa LLC located in Arlington, Virginia. Quuppa has offices in China and local sales agents in Abu Dhabi, Australia and India.

### CONTACT

Thomas Hasselman Chief Marketing Officer

Thomas.hasselman@quuppa.com +358 50 408 4550 www.quuppa.com



### POSITION, NAVIGATION AND TIMING



66

### OUR SOLUTION

Roger-GPS is specialized in global navigation satellite system (GNSS) repeating 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.

### BENEFITS FOR CUSTOMERS

Our customers include a wide range of users who need GNSS signal reception 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.

#### COMPETITIVE ADVANTAGE

Our solution is manufactured in Europe. It suits both for small cases, with individual repeaters, and for use in multi-floor or wide area / tunnel coverage use 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

Simo Ruoko CEO

simo.ruoko@gps-repeating.com +358 40 504 0759 www.gps-repeating.com

SATEL

**Mission-Critical Connectivity** 

## MISSION-CRITICAL COMMUNICATIONS FOR PROFESSIONALS

68

### OUR SOLUTION

SATEL solutions are used in a wide range of industrial applications all over the world – in everything from electricity distribution to waterworks, from machine control to harbor logistics, from weather stations to security systems and from precise positioning to irrigation systems.

#### BENEFITS FOR CUSTOMERS

At the heart of our solutions is mission-critical connectivity. We offer reliable and secure connections that keep your business running in all circumstances. We help our customers find the products that suit their needs best, keeping in mind the right frequency ranges, compatibility with other system providers and the operating environment.

#### COMPETITIVE ADVANTAGE

SATEL technology is a safe way to ensure long-distance availability, also in areas that are out of reach of the public networks. You get the best solution, service and support.

### COMPANY

SATEL is the world's leading expert and innovator in independent radio networking technology. We develop and sell high-quality private radio technology solutions that enable secure, mission-critical connections. Our mission is to enhance the success of our partners and clients through our technology and expertise.

### CONTACT

Heikki Rouru Sales Director

heikki.rouru@satel.com +358 40 565 4513 www.satel.com



### HEAR BETTER. SEE FURTHER. DECIDE FASTER.

### SAVOX

### OUR SOLUTION

Savox boosts the way you communicate and collaborate. Our solutions protect people and property, and keep you and your team aware and connected wherever you may work.

Our unique Mounted Mobile concept allows seamless sharing of situational awareness information among professional teams, whatever the conditions.

We offer various communication devices, personal protective equipment (PPE), search and rescue equipment and information and communication systems for the defense, public safety and personal safety sectors. These offerings, together with our lifecycle services, ensure reliable communications for various public safety user groups.

#### BENEFITS FOR CUSTOMERS

With our solutions, public safety teams communicate smoothly due to faster and more accurate decision-making and effortless sharing of the situational awareness picture between teams.

Thanks to our modular, software-based design, our products and solutions have moderate lifecycle costs and are easy to test. The products are also effortless to scale up with their unique system design and standard interfaces. In addition, the purchasing process is simple.

### COMPETITIVE ADVANTAGE

Our deep understanding of the public safety market helps us to strengthen sustainable competitiveness. The critical areas of expertise include knowledge of harsh conditions, mass customization and mass production capabilities. We see the use of the right cluster networks and platforms as the primary tool for maintaining time-to-market and flexibility-related capabilities.

At the moment, we focus on creating team-based situational awareness solutions by collaboratively utilizing audio, image and data, AI-enabled video and real-time and post-operation audio analyses.

### COMPANY

Savox offers a powerful combination of various expertise areas. With nearly 40 years of experience, we have the ability to adapt to changing market needs, being a frontrunner in our chosen business segments of defense, public and personal safety.

### CONTACT

Outi Suoninen Senior Vice President

outi.suoninen@savox.com +358 40 543 8350 www.savox.com

70

### RESILIENT COMMUNICATIONS

### **SCOPESENSOR •**

### #FINLANDWORKS

72

### OUR SOLUTION

ScopeSensor solutions are based on broadband wireless resilient communications with a combination of various high-tech solutions for each customer's specific needs. The broadband data provides an excellent platform for larger bandwidth, so even the most detailed data can be transferred to where real-time decision-making happens.



#### BENEFITS FOR CUSTOMERS

The main benefit of our solutions is precise information with secured communications and reliable data, which can be based on live video combined with exact sensor data. The number of use cases is very large, and so are the volume and number of customers.

### COMPETITIVE ADVANTAGE

We have a long history and professional experience in wireless system solutions with digitization. We also have extensive experience in professional sourcing and manufacturing. Customers always benefit from getting decent pricing for their purchases and efficient cooperation with us.

### COMPANY

ScopeSensor is a wireless technology and product design company with its own high-tech solutions that can be used to solve multiple customer challenges with excellent teamwork.

### CONTACT

Jyrki Portin Chairman of the Board

jyrki.portin@scopesensor.com +358 40 820 3987 www.scopesensor.com

1001/20 D22

TRAUMA ALERT

PERSONAL SAFETY THREAT

### OUR SOLUTION

Secapp is a critical communications platform for health, safety and quality-related communications, alerting and reporting.

### 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:

- Broadcasting large-scale emergency alerts and notifications to vital stakeholders and teams in a matter of seconds. Alerting happens through different communication channels, making sure that all needed individuals are reached
- Collecting and reporting vital information, such as the number of outbreak patients, safety incidents, adequacy of protective gear and personnel condition
- Handling real-time communication through secure chat and videos

#### COMPETITIVE ADVANTAGE

Secapp is offered as a managed secure communications service without requiring any new devices or equipment. It allows communications utilizing existing devices, including smartphones, basic phones, computers and TETRA devices. Secapp can be taken into use even within the same day. All you need is a list of people that should have access to the system and a two-hour online training session for dispatchers and admins.

### COMPANY

Secapp is currently used by over 70,000 end users from more than 600 professional organizations covering private, public and authority sectors. All major hospitals and districts in Finland, including 12,000 healthcare professionals, use Secapp daily to ultimately help save human lives. Authorities, public and private organizations alike use Secapp to prepare for, manage and recuperate from critical situations, such as natural disasters, accidents and service outages.

### CONTACT

Kari Aho CEO

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

# CRITCAL COMMUNICATIONS PLATFORM

80%mb2

← DOCTOR NEEDED AT ER

RESPONSES CONVERSATION

DOCTOR NEEDED AT ER

There is urgent need for a doctor at ER.

se respond OK if you are able to come

4.675.1 km away from the area

✓0 —0 ④3

### secapp

## MONITORING LANDSLIDE RISKS

15706

Y

00

76

### OUR SOLUTION

Soil Scout Ltd is a Finnish company that has developed a completely new solution to monitor critical underground conditions with wireless sensors. The core of the solution is a small wireless sensor that can be buried underground at predefined locations. The sensors send data concerning underground soil conditions, including dielectricity, moisture and movement, to an uplink and onwards to a monitoring system. This solution gives the public safety authorities a completely new way of monitoring landslide risk areas and avoiding the likelihood of these events.

### BENEFITS FOR CUSTOMERS

Understanding what is happening below the soil surface is critical for many industries. Soil Scout takes monitoring to the next level by providing a detailed view into in-field variation, enabling our customers to expand the precision agriculture approach to all land use challenges, including smart farming, irrigation control or turf quality optimization.

### COMPETITIVE ADVANTAGE

Most of the currently available solutions are based on wired monitoring instruments and / or manual measurements. In many areas, it is impossible to locate wires, and manual measurements are often too labor-intensive or dangerous.

The Soil Scout wireless underground sensor is a unique piece of technology and first of its kind.

### COMPANY

Soil Scout is a Finnish tech company focused on IoT sensor technologies. Our unique and patented antenna technology is the first of its kind and capable of transmitting signals from deep underground. This technology is being used widely all over the world, especially in the sports industry and in agriculture. Well-known venues, such as Wembley Stadium, the Hard Rock Stadium in Miami, Singapore Island Country Club and Yara, trust Soil Scout.

### CONTACT

Jalmari Talola CEO

jalmari.talola@soilscout.com +358 40 820 1709 www.soilscout.com



## SKILLED INDUSTRY COMPUTING

### SUNIT

78

### OUR SOLUTION

Sunit is dedicated to delivering reliable and innovative in-vehicle computer technology for demanding industries. Reliability, industry quality standards, environmental consciousness and user-friendly design stand in the foreground of our technology. Almost 30 years of having a core focus within industrial computing technology and manufacturing in-field electronic equipment, as well as a deep knowledge of the demands from our customer environments. have brought us superior know-how within appropriated computing technologies.

#### BENEFITS FOR CUSTOMERS

Our client-tailored product portfolio with open architecture computing offers long field service life and simplifies the development of our clients' entrepreneurial applications. The environment has significant meaning in the industry world and encourages contributions toward a better environment by using value-added technologies.

#### COMPETITIVE ADVANTAGE

The electronics industry seriously impacts the global environment. At Sunit, we realize that the best contribution is to deliver products with extremely long service life.

### COMPANY

Our business model is to work in close cooperation with our clients' ERP organization and integrators. Our aim is for our clients to be successful in their entrepreneurial endeavors and call for high standards in daily service. With our technology and processes, we comply with ISO-16750 (2, 3, 4 and 5), and our products are UNECE E-certified globally.

### CONTACT

Esa Suutari Head of Sales and Marketing

esa.suutari@sunit.fi +358 40 729 4440 www.sunit.fi

### DIGITAL ADVANTAGE FOR BUSINESSES AND SOCIETIES

### tieto Evry

### OUR SOLUTION

TietoEVRY provides a full stack of cybersecurity services and helps our customers focus on their core business.

### BENEFITS FOR CUSTOMERS

We provide managed security services (MSS) and a security operations center (SOC) on top of advisory and consultancy. Our service focus is on threat intelligence 24/7, locally and globally, looking for anomalies and signs of a breach. MSS provides border and endpoint protection through different products, such as firewall as a service and endpoint security.

### COMPETITIVE ADVANTAGE

You can take back control of your cybersecurity with services based on the needs of your business. Our services are available as flexible cloud-based services, so there is no need for a big upfront investment. Furthermore, our services are modular, eliminating the need for you to invest in capabilities you do not need.

### COMPANY

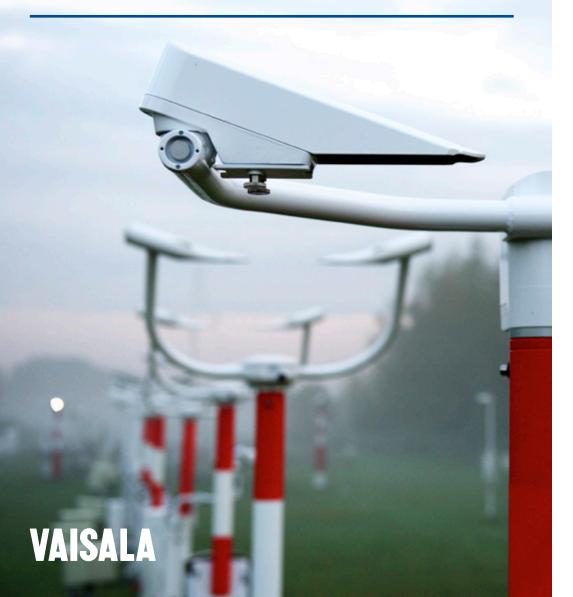
TietoEVRY is your Nordic cybersecurity partner. We provide services that promote visibility, simplicity and protection to help securely unleash your digital potential.

### CONTACT

Maria Nordgren Head of Security

maria.nordgren@tieto.com +358 40 500 9760 www.tietoevry.com

### OBSERVATIONS FOR A BETTER WORLD



82

### OUR SOLUTION

Vaisala's technology and solutions help safeguard life and property, while enabling critical decision-making. By measuring the environment or a process accurately, our customers can make more reliable decisions and ensure more efficient, safer and more sustainable operations in any application area.

#### BENEFITS FOR CUSTOMERS

Vaisala provides you with a wide offering of products and services for better decision-making, increased productivity and improved safety and quality. Weather radars, remote wind sensing instruments and lightning data acquisition systems are examples of technological capabilities, which are used as solutions in aviation, meteorology, maritime, weather and air quality applications.

### COMPETITIVE ADVANTAGE

Our Weather and Environment business area serves selected weather-dependent markets where accurate, real-time, uninterrupted and reliable weather data is essential to run efficient operations. Our main markets are meteorology, ground transportation, aviation, maritime, safety and security, renewable energy and smart city.

### COMPANY

Vaisala is a global leader in environmental and industrial measurements. Building on over 80 years of experience, Vaisala provides its customers with reliable measurement solutions and services for better decision-making, safety and efficiency. Vaisala is headquartered in Finland. Vaisala's A-shares are listed on Nasdaq Helsinki.

### CONTACT

insidesales@vaisala.com +358 9 8949 3100 www.vaisala.com

**VIT BRINGING INNOVATION A BUSINESSIOG** 

84

### 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.

Our offering covers prioritization of data and efficient multimedia transmission, AR/VR solutions for user interfaces, as well as connectivity applications and testing services. 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 and test networks with a cybersecurity war room. In the world's largest R&D fund, Horizon 2020, we are the 4th most successful organization. ESA's external MilliLab in Espoo is hosted by VTT. We have strategic partnership with ESA on 5G and bevond R&D.

### 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

Tuomas Korpela Sales Director

tuomas.korpela@vtt.fi +358 40 729 6238 www.vttresearch.com

### BUSINESS FINLAND

### CONTACT INFORMATION

**Business Finland** 

Kirsi Kokko Head of Digital Trust Finland +358 50 550 2023 kirsi.kokko@businessfinland.fi

Christina Rinne Senior Advisor Export and Invest In Finland +358 50 468 9460 christina.rinne@businessfinland.fi

> 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.

### **BUSINESSFINLAND.COM**

FOLLOW US ON SOCIAL MEDIA







Porkkalankatu 1 | FI-00180 Helsinki, Finland | Tel. +358 29 469 51