

Net Technologies
Finland Oy

CCW2023

Helsinki 23-25.05.2023



Net Technologies Finland Oy

Booth H60

Net Technologies is actively involved in Digital Transformation, Wireless Communications, Security & Protection, Social Awareness and ICT Apps



Net Technologies Finland Oy

The company in brief

Based in Helsinki Finland and offering expert engineering and consultancy services to the global market

Registered in Helsinki, Business ID 2150897-0

Part of Critical Communications Finland ecosystem –

“Success in Co operation”

State of the art technologies and methods for any mission critical environment.

Excellent Team of Consultants, supported by advanced project management methodology and continues research and innovation work

Proven track record of successful services and projects for the world’s leading organizations, telecommunications vendors, users and operators internationally.

Net Technologies Finland Oy

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is high tech company,

- offering high-quality engineering and consulting services in the field of telecommunications and information technology.
- our expertise includes mobile/wireless 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.



MODELS

of “how to” for a project.

- ❑ Turn Key Projects
- ❑ Consultancy
- ❑ Services under SLA
(service level agreement)



Digital Transformation

Net Technologies is actively involved in projects for digital transformation. With state of art technology and methods we offer solutions based on IoT, AI, LoRa, Industrial WIFI, smart applications to support the smart and safe society evolution.

Wireless Communications

Net Technologies is vastly experienced in Mobile (GSM/UMTS/LTE/5G), TETRA/TETRAPOL, UHF/VHF, MW and wireless technology projects. We have designed and integrated more than 5000 MW links and more than 5000 BTS, in UMTS/GSM/LTE/5G while we are actively present in 5G/6G technology.

SERVICES

DESIGN, PLANNING & OPTIMIZATION

- ▶ System design
- ▶ Network planning & design
- ▶ Site surveys, field measurements & drive tests
- ▶ Network performance audit & optimization
- ▶ Transmission planning
- ▶ Core network planning
- ▶ Software products design

IMPLEMENTATION

- ICT projects development
- Access & core network elements
- System and Network integration
- Roll-out management
- Software development based on key IP technologies
- Field Measurements
- Coverage/Performance Testing

CARE & SUPPORT

- ▶ Network operation, monitoring, maintenance & fault management
- ▶ OSS/NMS/NOC administration
- ▶ Access & core network maintenance, upgrades, change deliveries
- ▶ Network configuration management/performance audits
- ▶ Quality inspections and performance management
- ▶ Managed services
- ▶ Software maintenance & upgrades

CONSULTANCY

- Project planning & management
- Technical tender/requirement specifications and bid evaluation
- Work process development
- Market research (markets, trends, product portfolios, regulatory issues)
- Product exploitation analysis
- Feasibility consultancy
- Products dissemination
- Training/knowledge transfer

KEY TECHNOLOGIES

- UHF / VHF
- 3G/4G/LTE
- 5G/6G
- TETRA/TETRAPOL
- WIFI / WLAN/LoRa



(Photo: TETRA Radio Planning in Jazan)

Vast international experience Some References

- I. Radio Planning and BS Integration in Bulgaria (Nokia Networks)
- II. MW Planning and MW Integration in Turkey (Nokia Networks)
- III. Wireless Integration (LTE) in Greece (Ericsson Networks)
- IV. MW Planning and Integration in Armenia (Aviat Networks)
- V. MW Integration in Albania (Nokia Networks)
- VI. Radio Planning and BS site integration, Sweden (Huawei network)
- VII. MW Planning and site integration, Sweden (Huawei network)
- VIII. TETRA Public Safety, Greece (Motorola)
- IX. TETRA Radio Planning, Saudi Arabia (Airbus)

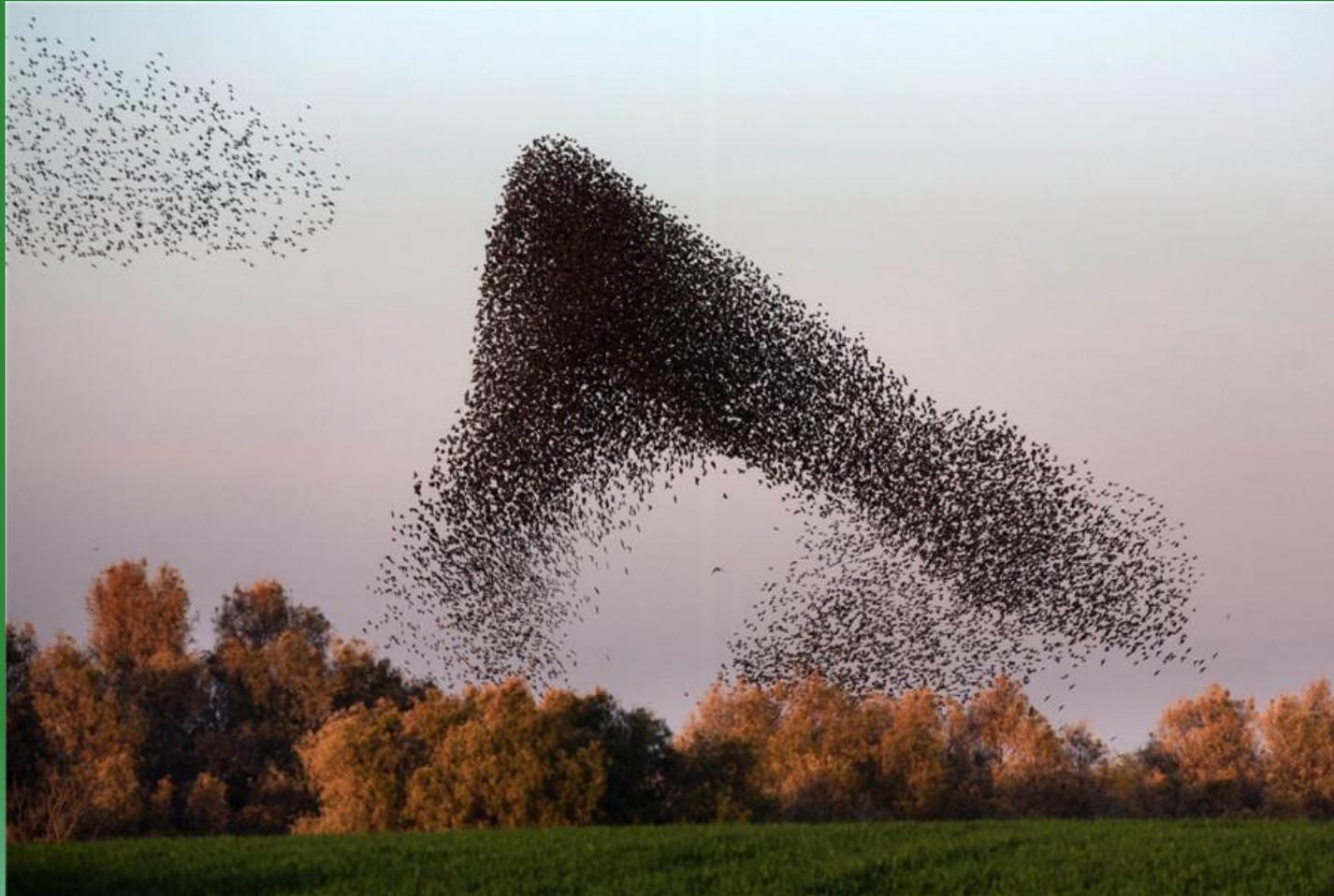
and more...

Net Technologies Finland Oy



Teamwork

Team NETFI



(China.org.cn, February 4, 2015)

Net Technologies Finland Oy

Security & Protection

from Net Technologies

Net Technologies offers a full range of Security and Risk Management Services.

Our holistic approach to security ensures that our clients have a better understanding of overall organizational security risks to their organization. Net Technologies offers to its Clients state of the art solutions and knowhow and provides services based on recognized international business best practice and applicable legislative or regulatory requirements.

Our services include

- ▶ Security Vulnerability Assessment
- ▶ Facilities Risk Assessment
- ▶ IT Security Assessment
- ▶ Risk Mitigation Plans
- ▶ Protection of Critical Infrastructure
- ▶ Network HCIS Evaluation and Plan
- ▶ Network and Plant Safety
- ▶ Security and Safety Consulting

Cyberwar: A Guide

from Net Technologies

At its core, cyber warfare is a struggle of hegemony and power on international level based on cyber capabilities to spy, sabotage and influence to gain sovereignty.

The Assessment Methodology

Our IT Security assessment efforts incorporate a holistic approach to evaluate the human, physical and cyber elements of the critical IT infrastructure and services. Protection can include a wide range of activities, such as hardening facilities, building resiliency and redundancy, incorporating hazard resistance into initial facility design, initiating active or passive countermeasures, installing security systems, promoting workforce security programs, and implementing cyber-security measures, among others.

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Cybersecurity

from Net Technologies

- A Comprehensive, Responsive Approach to Cybersecurity Risk Management
- IT and cyber security risk assessments
- Design and Implementation of IT risk management program
- Security assessments, audits and testing
- Program effectiveness and maturity assessments
- Cyber security solution design and road maps
- Definition of residual risk, risk tolerance, and risk appetite for the organization
- Cyber resilience programs to limit damage and speed recovery
- Virtual CISO for the strategic planning, development, and management of an effective security program
- Implementation of governance, risk management, and compliance (GRC) solutions

ICT apps & Smart Cities

from Net Technologies

**Energy Industry and Resources
User involvement and social
awareness**

As a company of a multiannual experience on delivering the best quality mission-critical solutions to our clients, we collaborate, undertake and evolve in divergent aspects on a working scale with a critical eye upon the unprecedented issue of Climate and Environmental Change and the Awareness to which we all need to pay attention to.



Net Technologies Finland Oy

We offer innovative solutions

Public Sector

Public safety

Emergency Services

Law Enforcement Agencies

Transportation

Federal and Municipal Services

Military

Private Sector

MNO

Maritime and Aviation

Energy / Gas and Oil

Mining/ Industrial Plants

Utilities

Transport/Ports

Smart Cities/ Recreational centers

Technological Solutions & Sustainability

from Net Technologies

- Technology, Innovation and Sustainability do not need, in fact the exact opposite, to work disadvantageous to each other.
- A working journey of Environmental, Cultural, Economic, Technological and Social Sustainability is of great interest to our company. Net Technologies is engaged not only with the technological part but also with the researching part of Universities, other Companies, European Union Commission and their calls etc. for a sustainable outcome globally.
- Net Technologies is occupied among others with the Green Energy, Green Cities and their integration on the world of Telecommunications and Technologically Effective Networks.

Technological efficacy Environmental / Energy awareness

from Net Technologies



Net Technologies Finland Oy

Net Technologies team is ready to cover all customer requirements following professional methodologies in order to deliver highest quality results. This is achieved due to the deep technical knowledge and experience, latest software tools, simulation and testing equipment own by the company, always with an eye on global matters and environmental interest.

NETFI and Critical Communications and Public Safety

- 20 years experience in public safety and critical communications networks
- Experience in working internationally, in any local condition
- We cover any type of service of the whole life cycle of a project/network, from feasibility study and tender documents to set in operation and know how improvement.
- Huge experience with vendors such as Airbus, Motorola, Leonardo, Rohil, Etelm, Nokia, Ericsson.
- Experience in any type of environment, from rural areas to high density urban, from Nordic climate to desert and offshore.
- Experts in indoor design for complex facilities.
- Extensive research and innovation
- Own developed tools to facilitate the work to the benefits of our clients.
- Concrete methodology to achieve quality and excellent performance
- Continuous presence in international events/congresses (CCW, Security) and active member of Critical Communications Finland ecosystem

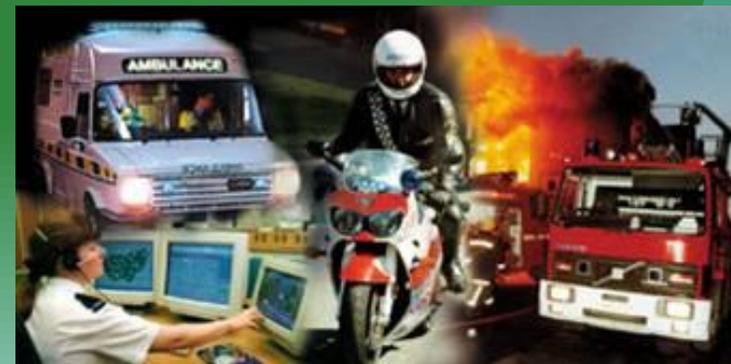
Our Services

- ▶ Network Planning, Design & Optimization of any technology
- ▶ Radio Planning for both indoor and outdoor
- ▶ Field measurements, coverage testing, performance analysis
- ▶ TETRA Network Support Services
- ▶ Project Management, cutover and migration plans
- ▶ System Integration
- ▶ Consultancy
- ▶ Training



Our Services

- ▶ Design of broadband critical communications (LTE and 5G)
- ▶ LTE and TETRA integration
- ▶ UHF/VHF for mission critical installations
- ▶ Development of Tools to support interoperability
- ▶ Drones for antenna measurements
- ▶ Development of network design tools



Services supported by

- Tools developed by NETFI (Operations Cost Estimation Tool-OCET, Infrastructure Dimensioning Tool-IDT, NETREK for frequency analysis, UAV-based Field Measurements)
- VR based solution for optimum user involvement
- Training/Education Programme
- Methods/ Complete Network Implementation Methodology
- - ▶ *Network Planning and Optimization Services, P-ProM©*
 - ▶ *Site Survey and Site Acceptance Services, S-ProM©*
 - ▶ *Site Integration and Commissioning Services, I-ProM©*
 - ▶ *Coverage and Performance Testing Services, T-ProM©*
 - ▶ *Roll-Out and Construction Management, M-ProM©*

VR Tool for enhanced visibility and user experience

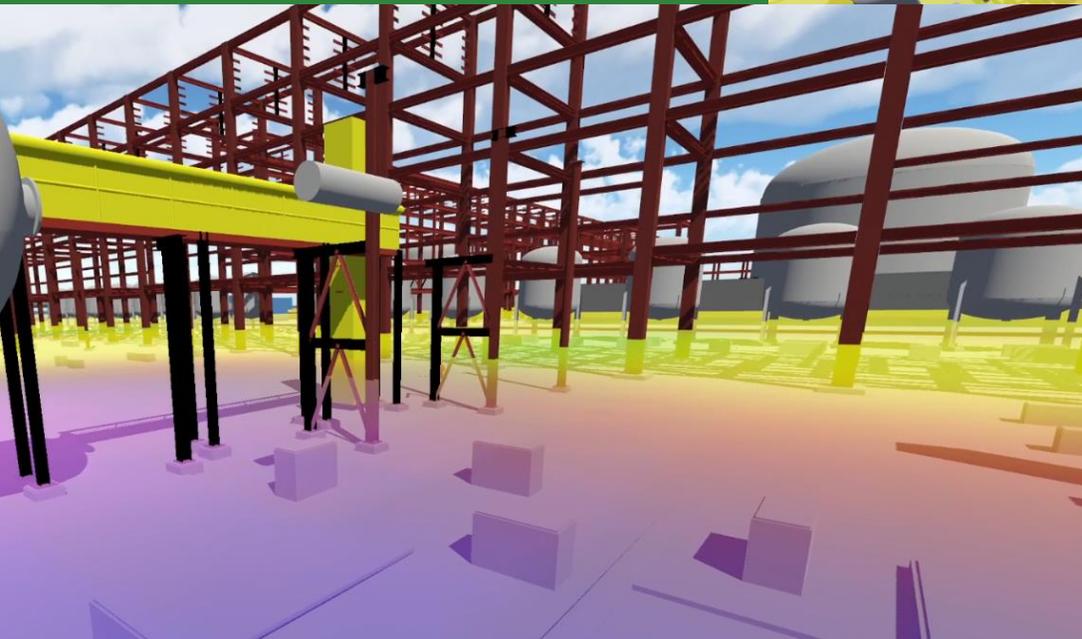
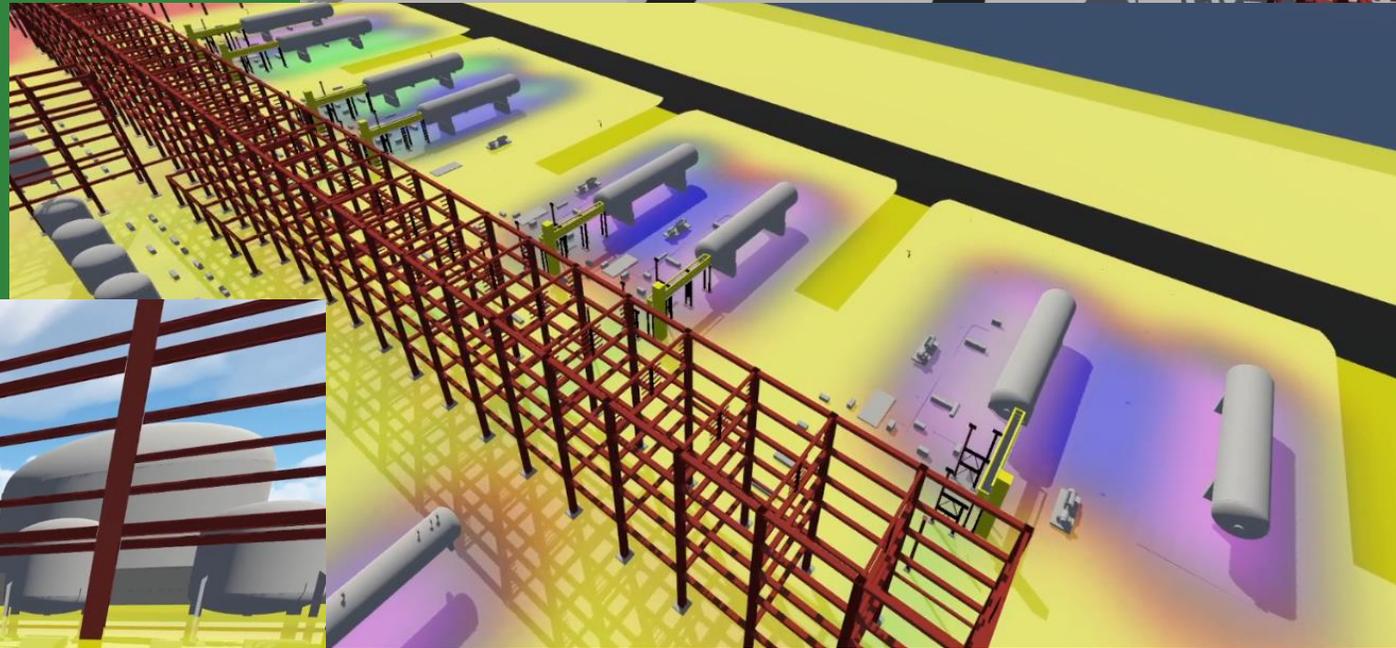
- A unique tool, based on Virtual Reality for improved user experience and network optimization

VR Tool for enhanced visibility and user experience

- 1) Breakthrough concept with 3D Virtual Reality features.
- 2) Detailed visualization of all elements of the target area (buildings, pipes tanks etc).
- 3) Improved understanding of coverage (and other) simulation results.
- 4) Possibility to walk through the entire area.
- 5) Possibility to observe at different height levels (in the vicinity of the area and all elements).
- 6) Better understanding of RF signal propagation possibility to identify potential issues.
- 7) Modern way to present the results – video, 3D export plots, VR functionality
- 8) Increased clients' satisfaction level

What are the benefits?

- 1) Full and detailed 3D view
- 2) All kind of results (such as RSSI, Interference, Best Server Classes, etc)
- 3) Drive Test Measurements
- 4) Better understanding of your network coverage



Net Technologies and Critical Communications

- ▶ Active participation in international CCW events
- ▶ Member of CCF
- ▶ Organisation of workshops and seminars



We take great pleasure in inviting you to a

**'TETRA –
The Winning Communication
Technology for Professional Users'**

seminar

On Wednesday 19th November 2008 at the
Divani Caravel Hotel (2 Ven. Stefanos Ave)

This seminar is organised to provide you with a cut-up
of the latest developments in TETRA, attended and by
professionals in the field.

Net Technologies co-operates with all major TETRA in
active members of the Tetra M2L Association (www.tetra-
m2l.com)

We hope you will find the programme interesting and
you in this unique event!

Kindly regard,
Dimitris Antonopoulos
Managing Director Net Technologies

Please register now by e-mail: marketing@nettech.gr
this unique opportunity to learn about the hottest
technology in the market.

Net Technologies



**It's A Connected World
Anytime, Anywhere, Any Device!**
Connecting Business & Opportunities

ΠΡΟΣΚΛΗΣΗ
Η SMART PRESS, το περιοδικό «Κινητή Τηλεφωνία & Τηλεπικοινωνίες» και «InfoCom» και η NET TECHNOLOGIES, ως κορυφαίο μέλος της ομάδας προσκεκλημένων στο 14ο συνέδριο InfoComWorld 2012 και InfoCom Media την Τρίτη 30 Οκτωβρίου 2012 στο Divani Caravel Athens, Α. Βουλ. Αιγιάλεφου 2, Αθήνα (ώρα προέλευσης 9:00 π.μ.)

Παρακαλούμε επιβεβαιώστε τη συμμετοχή σας μέχρι 28/10/2012 στο ηλεκτρονικό ταχυδρομείο <http://www.info-com.gr>

Με την αγγίδα
ΜΑΡΤΙΝΟΣ ΚΑΡΑΓΙΩΡΓΙΩΤΗΣ, Διευθυντής Μεταφορών & Σελήνης
NET TECHNOLOGIES (Τ. Φ. 142) (ΑΦΜ 9904)

ΠΡΟΓΡΑΜΜΑ
TETRA World
Το πρώτο συνέδριο InfoCom με εθνική ένταση αφιερωμένη στο TETRA. Εξειδικευμένα ομιλήτες θα αναφερθούν στις ελλείψεις του συστήματος, τις προοπτικές του, τα θέματα συμβατότητας αλλά και στις προοπτικές της αγοράς τόσο στα έδρατα για την δημόσια ασφάλεια όσο και τα εθνικά που πρόκειται να είναι η τμήμασή τους.



Some of our references

- Member of the consortium of project ISITEP, to interconnect (ISI Interoperability, TETRA/TETRAPOL) public safety authorities in Italy, Switzerland and Sweden and Norway (Airbus, Motorola, Leonardo)
- Member of the project Hipow for public safety network protection (protecting against high power MW attacks) (Airbus)
- Radio Planning of the safety network of Saudi Arabia Eastern Province
- More than 40 projects (all types) for gas and oil organizations (Airbus, Motorola)
- Radio Planning of the Public Safety Network of Athens Metropolitan Area (Motorola)
- Network Operation of the Public Safety Network of Athens Metropolitan Area (2004-2013) (Motorola)
- TETRA Radio Planning in islands

Contact

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