Net Technologies Finland Oy

Newsletter

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EDITORIAL 📬

December Newsletter — A Year of Progress & Collaboration ✨

As the year draws to a close, December offers a moment to reflect on the work, partnerships, and ideas that shaped our journey.

This issue marks an important milestone as S3SF – Smart Energy Solutions for a Sustainable Future reaches its conclusion. Over the past three years, the project delivered practical learning tools, an interactive simulation environment, and an accessible e-learning platform — supporting skills development and sustainability across Europe. While the project ends, its results continue to create value.

Alongside this, our teams remain actively engaged in ongoing studies, network consultancy, and in-house innovation, including our Frequency Allocation Tool and LTE Indoor Network Design solutions, supporting reliable, future-ready communication networks.

As winter settles in Finland, December also brings a sense of light, tradition, and connection — a fitting way to close the year.

With warm regards,
The Net Technologies Finland Team 💚

🚧 Ongoing Project Update 🚧

1. Wi-Fi Coverage Study

A comprehensive Wi-Fi coverage study providing the design foundation for deploying an Industrial Wi-Fi infrastructure. The project supports the digitisation of process safety and operational management solutions.

2. 450 MHz LTE Network Consultancy

The 450 MHz LTE network planning aims to ensure sufficient radio coverage and performance, while supporting a major step in the digital transformation of critical communications in Saudi Arabia. The project assesses the existing radio system's mobile coverage and signal strength and provides a detailed analysis to support the transition from legacy narrowband networks, such as TETRA, to a modern private 450 MHz LTE broadband network, enabling new services, enhanced capabilities, and future-ready operations.

3. TETRA Radio Coverage Study

Indoor and outdoor TETRA radio coverage study, including relocation of the existing TETRA tower and system to enhance coverage and improve operational efficiency.

4. Refined Product Pipeline Project

TETRA RF drive and walk tests to ensure reliable communication coverage during pipeline relocation. The scope includes coverage analysis for upgraded security facilities and surrounding areas.

S3SF: Wrapping Up Two Years of Innovation and Sustainable Learning

As the S3SF – Smart Energy Solutions for a Sustainable Future project comes to a close, we celebrate three years of collaboration and meaningful progress toward a greener Europe.

💡 What we delivered:

- an online training curriculum on Smart Energy and sustainability,
- an interactive simulation tool for real-world energy scenarios,
- and an intuitive e-learning platform used by students, educators, and young professionals across Europe.

S3SF has been presented at numerous events and workshops, raising awareness of energy skills and empowering communities through accessible learning.

🌱 Although the project ends, its tools and resources will remain available to support education, spark innovation, and promote a more sustainable future.

A heartfelt thank you to all partners for making this journey possible.

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📡 Frequency Planning Made Simple — for TETRA & 450 MHz LTE

A frequency-planning tool that takes one time-consuming engineering task and turns it into a smooth, automated process is on its way!

The tool scans the entire network, identifies potential interference, and recommends the optimal frequency for each site with high accuracy. It supports both TETRA planning and 450 MHz LTE, giving engineers a clear and flexible overview across legacy and next-generation systems.

In short, the tool helps teams:

✓ Speed up planning
✓ Reduce interference
✓ Improve network reliability
✓ Work easily across TETRA and LTE environments

It's simple, smart, and built to support engineers working in both legacy and next-generation systems.

More updates are on the way!

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📶 450 MHz LTE Indoor Design — Reliable Coverage Where It Matters

Our LTE indoor design begins with a full site overview. We map outdoor coverage, identify buildings that fall below required signal levels, and use 3D prediction tools to locate areas that need indoor enhancement.
Each selected building is then designed individually, with clear layouts, equipment placement, electrical diagrams, and performance heatmaps. Simulations of RSSI, RSRP, and throughput ensure strong and stable coverage on every floor.
We also verify antenna isolation and system noise to maintain repeater stability and EMF-safe operation, ensuring dependable performance in real conditions.
The end result is an efficient, robust indoor LTE solution that:

✓ Improves communication
✓ Ensures consistent performance
✓ Supports safe, smooth operations across the facility

A reliable design tailored for demanding industrial environments.

MSB Mission Critical Communications Expo 2025 ,Stockholm

In November, our team participated in the MSB Mission Critical Communications Expo 2025 in Stockholm as part of the Finnish Pavilion, together with Critical Communications Finland. The event gathered government agencies, first responders, suppliers, and industry experts, creating a strong environment for exchanging ideas on mission-critical networks and digital resilience.
During the expo, we showcased our **LTE Indoor Network Design Solution and Frequency Allocation Tool**, highlighting how these engineering tools support secure, reliable, and future-ready communication infrastructures.
The event offered valuable discussions, new connections, and insights into the evolving mission-critical ecosystem-a reminder of how essential collaboration is in driving progress across our sector.

Christmas in Finland ❄️

In Finland, Christmas isn't just a holiday — it's a whole season of light, warmth, and tradition.

As the long winter nights settle in, Finnish cities transform with thousands of white lights, while families gather around glögi (hot spiced drink) and traditional gingerbread baking (joulupiparit).
But the most magical detail?

🎅 *Joulupukki* (Santa Claus) officially lives in Finland — in Rovaniemi, right on the Arctic Circle.
Every year, people from all around the world send letters to his official post office, and Finnish "elves" reply to as many as they can.

Walking through a Finnish forest in December, with snow crunching under your boots and the Northern wind in the trees, it's easy to understand why Finland is known as the home of true Christmas spirit. ✨

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