

Case for a **Large EU Telecom Provider**

Radio Network Optimization for Telecom Giant_

Assuring Quality of RAN for a Large EU Telecom Provider

Industry: Telecom

Location: EU

Employees: 11,000+



Client Background

With 11,000+ employees and a multi-billion yearly revenue, our client is one of the largest Telecom and ICT services companies in Europe, providing intelligent television, telephony, and network-based IT solutions and services to a wide range of public and enterprise customers across a variety of local and international markets.

Business Challenge

As part of new technologies and bands rollout plans, **Large EU Telecom Provider** anticipated a grand scope of changes in the network that could lead to potential instabilities and sub-optimal performance. Alongside with that, numerous **new RAN features** had to be implemented. Our client aimed to ensure that the quality of service was not deteriorating, and the network stayed well optimized. Assuring the quality of the network was especially important due to the variety of LTE bands and the addition of the MIMO technology to the existing sites.

Expecting a growing number of monitoring and troubleshooting tasks, the Telecom Giant aimed to address the following challenges:

- Handle increased rollout volumes;
- Secure overall network performance stability, as well as targeted KPIs for individual modernized sites;
- Review existing site acceptance flow, responsibility between units, documentation standards related to site-building and acceptance;
- Optimize business processes to increase efficiency and ensure quality.

Naturally, for a telecom company with millions of subscribers, maintaining a sustainable growth strategy requires regular network optimization and tuning in line with the latest software and hardware capabilities. This is where Infopulse came into play with its expertise.

Solution

Infopulse closely cooperated with the client's local team in Europe to foster site acceptance and initial site tuning as well as continuous network optimization, taking care of such vital processes as:

- Remote acceptance and initial tuning for new and modernized RAN sites;
- Continuous statistic-based and drive testing -based RAN optimization and troubleshooting for GSM, UMTS, and LTE;
- Quality assurance of subscriber services on the RAN side, both existing and newly introduced.

In the span of a year, **Infopulse site acceptance team** enhanced radio network quality and made it more trouble proof for the subscribers by achieving the following:

- Improved current network acceptance flow at all levels, making it complete, consistent, and more transparent;
- Conducted troubleshooting and acceptance of **800+** multi-band and multi-standard BTS, including new,

relocated and modernized sites;

- In addition to LTE, optimized 2G/3G and PCI/RSI plans, and conducted estimation of the capacities of the new sites;
- Performed the rigorous network configuration audit to discover and fix hidden performance issues, as well as to update and improve network technical documentation;
- Together with the client's Operations & Maintenance department, performed software upgrades and updates to BTS, activated and configured latest RAN features, provided additional support during the launching of sites, and helped with analytics during their maintenance period.

In parallel, **the Infopulse network team**, in conjunction with the client's local teams, were closely involved in the launch and support of the new LTE bands and new nationwide telecom network services. We helped the Telecom Giant to deliver exceptional value and quality to millions of their subscribers using such technologies as VoLTE, CS Fallback, LTE Carrier Aggregation, and others.

Business Value

With firsthand experience in a diverse set of telecom technologies, Infopulse helped Large EU Telecom Provider secure network quality and performance at a national level. Being involved in a wide range of technical processes, Infopulse added value to our client's business through:

- Orchestrating new effective network project management processes;
- Improving network rollout speed and quality;
- Ensuring that more than 800 multi-band and multi-standard BTS perform like clockwork.

In the end, this cooperation helped to ensure that **millions of subscribers** have the privilege of using disruption-free telecom services, while our client's network, taking advantage of the latest tech, is secured from degradation and ready for further expansion. We are delighted that the Infopulse team played a role in this success.

Technologies

 GSM	 UMTS	 LTE	 VoLTE
 Arieso	 Atoll	 PRS	 iManager U2000
 PAX	 Actix		



About Infopulse

Infopulse, part of the leading Nordic digital services company Tietoevry, is an international vendor of services in the areas of Software R&D, Application Management, Cloud & IT Operations, and Cybersecurity to SMEs and Fortune 100 companies across the globe. Founded in 1991, the company has a team of over 2,300 professionals and is represented in 7 countries across Europe and the Americas.

Infopulse is trusted by many established brands, such as BICS, Bosch, British American Tobacco, Credit Agricole, Delta Wilmar, ING Bank, Microsoft, Offshore Norge, OLX Group, OTP Bank, SAP, UkrSibbank BNP Paribas Group, Vodafone, Zeppelin Group, and others.

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