



Industry/market
Telecommunications

Case Study: Proof of Concept

The Problem:

To avoid interference issues in the 450MHz band in several EU countries, it is a regulatory requirement to transmit in less bandwidth than the standard 3GPP defined 5MHz bands, for LTE (Long-Term Evolution). Several vendors were vying for the contract and already showing progress.

Our client was falling behind and needed urgent, expert assistance to transform its technical offering in order to be technically compliant and to remain in the race for the commercial roll out contract.

Project: Regulatory Compliance of a reduced bandwidth network using 450Mhz LTE radios optimised for a home metering solution

Impleo's solution:

Impleo's radio experts were brought in to assess the regulations, requirements and technical documentation and to give recommendations on how to achieve the necessary banding.

Following review, Impleo proposed a scheme to narrow the bandwidth to within approved bands. The solution involved tuning of radio resource blocks at either end of the spectrum to reduce the LTE channel to the required bandwidth.

The solution was demonstrated on radios in both test and live environments in the company of officials and were subsequently approved within project timescales resulting in the inclusion of the client's radio solution in on-going comparative trials activity.

Why Impleo?

Impleo has the knowledge and experience to understand the theoretical, technical and practical aspects of standards, technologies, products and networks and can provide clients with independent expertise, services and solutions. Impleo was able to bring all resources necessary to provide a timely review of all documentation, provide written recommendations and then engage with the regulatory officials on behalf of the client and undertake the practical changes on network equipment. Impleo's swift action provided the client with an effective solution, enabling them to move forward with their trial.

Benefit/ROI

Impleo's client was able, against a very tight schedule and with an entire project on the line, to successfully demonstrate and implement a solution that qualified them to enter the next phase of the project. This action and success protected the investment that the client had made in progressing as far as they had in the Trial, provided a rapid and cost effective solution to meet the technical criteria and enabled the client to continue to pursue the major project and with it provide the best chance of securing a major win with their strategic client.