

## CASE An overall project delivery of a radio device for demanding authority use

A globally operating customer wanted to produce a new kind of terminal device for wireless authority networks. They turned to Ixonos for a project delivery with total responsibility. The customer-specific project delivery included all the development stages from requirement specification to a ready to manufacture product.

## Background

An internationally operating mobile device manufacturer wanted to fulfill evolving market requirements and start developing a radio device for mobile networks based on a brand new concept. The new concept required significant changes to hardware and totally different software platform. The device was intended for demanding authority use, wherefore high trustworthiness and reliability were top requirements. Due to the tight requirements, the customer wanted to concentrate on its own production expertise, and turned to Ixonos for the design and development of the mobile device. Ixonos' experienced project management team took total responsibility for the project. The project management worked in tight co-operation with software developers, hardware designers, initial testers and customer's production team.

## Solution

Ixonos participated in the project already in the concept creation phase by providing the customer with in-depth knowledge of software platforms and software-hardware interactions. After the initial phase, Ixonos took on all the responsibilities of the terminal's software development from initial requirement specification to planning the software, hardware and mechanics. Ixonos' project management worked in close co-operation with the customer's production services and carefully selected external hardware design teams in order to assure that all the different parties were working towards the same goals within the set schedule. Because of the high requirements for the product, Ixonos carried out extensive system and type approval testing before the product was set to be manufactured.

## Benefits

The successfulness of the project was due to shared responsibilities and tight co-operation between Ixonos, the customer and the hardware manufacturers. The project's throughput was maximised because all the teams focused on their core experience and provided all the necessary resources during different phases of the project. With Ixonos' experience in software R&D, customer's experience in production, sourcing and logistics and dedicated hardware design teams, it became possible to quickly react to changing requirements, solve complex problems efficiently and still end up within the planned timeline and overall costs. From the customer's point of view, the project advanced reliably and transparently, the risks associated with the delivery and the schedule were both kept under control for the entire duration of the development work. Ixonos' exact design work, diligent implementation and wide set of tests ensured the high-quality requirements of the product were met.