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## Business Domain

Manufacturing

## Project Type

Web

# Mobile Monitoring Solution for Sterilization Equipment

The aim was to build a mobile solution that reports the status of equipment during the sterilization cycle so that the monitoring operator does not need to stay close to the machine. It must meet the security requirements of the equipment users.

## Client

A leading European producer of sterilization equipment.

## Project

Developing a mobile monitoring solution for sterilization equipment that would eliminate the need for the monitoring operator to remain near the machine. This would increase safety and efficiency.

## Objective

The Client's goal is to reduce equipment downtime and the number of personnel needed to carry out large volumes of sterilization.

## Team Reinforcement

The Client needed a solution to address their problem but did not have the necessary expertise within their organization. To fulfill this requirement, they opted for Intetics' Remote In-Sourcing® approach, which involved a team of proficient software architects, front-end and back-end engineers, and skilled BAs.

# Challenge

Achieving the goal of minimizing equipment downtime and the number of necessary personnel for sterilization is a complex task that requires more than just technological solutions. It requires changes in operating procedures and personnel behavior; the safety of equipment users must also be ensured, which further complicates the task.

The Client's goals were minimizing equipment downtime, reducing the number of personnel required for sterilization, and ensuring the safety of equipment users.

The client lacks experience and technological resources such as specialized software and hardware. They needed access to the necessary security protocols and measures to ensure the safety of equipment users.

## Quick Facts

- ✓ 10 years of continuous cooperation
- ✓ Designed 90% of the Client's data management system
- ✓ The Client is able to concentrate on customers and quality service, not technical details

### Technologies

Java / Spring Boot / React / Dashboard / MySQL / Chart.js / Firebase / Cloud Messaging / Auth0

# Solution

## ★ 01

Improved efficiency led to faster turnaround times and increased productivity for our client's customers.

## ★ 02

With the ability to report equipment statuses remotely, users can monitor the sterilization process from anywhere in the world.

## ★ 03

Enhanced security measures ensure the sterilization equipment is being used safely and effectively. This has provided peace of mind for users around the world and has helped to prevent accidents and misuse of the equipment.

## ★ 04

By improving efficiency, enhancing security measures, and providing real-time data, our solution has helped to improve the quality of care and safety for patients around the world.

## ★ 05

Real-time data on the sterilization process allows users to track progress and make adjustments as needed. This has helped to optimize the sterilization process and improve overall equipment performance.



## Client Reference



*The Remote In-Sourcing® approach allowed us to build a high-quality digital solution for sterilization equipment monitoring, while focusing on core business. This allowed for improved customer service.*

**COO**

## Benefits and Results

- ★ By improving efficiency, enhancing security measures, and providing real-time data, the solution has helped improve the quality of service.
- ★ The customers are getting notified in real-time if any parameters become out of range, which improves overall productivity.
- ★ Automated sterilization equipment monitoring allowed for enhanced efficiency, productivity, and safety for end customers.
- ★ The Remote In-Sourcing® team has been collaborating with the Client for 10 years.

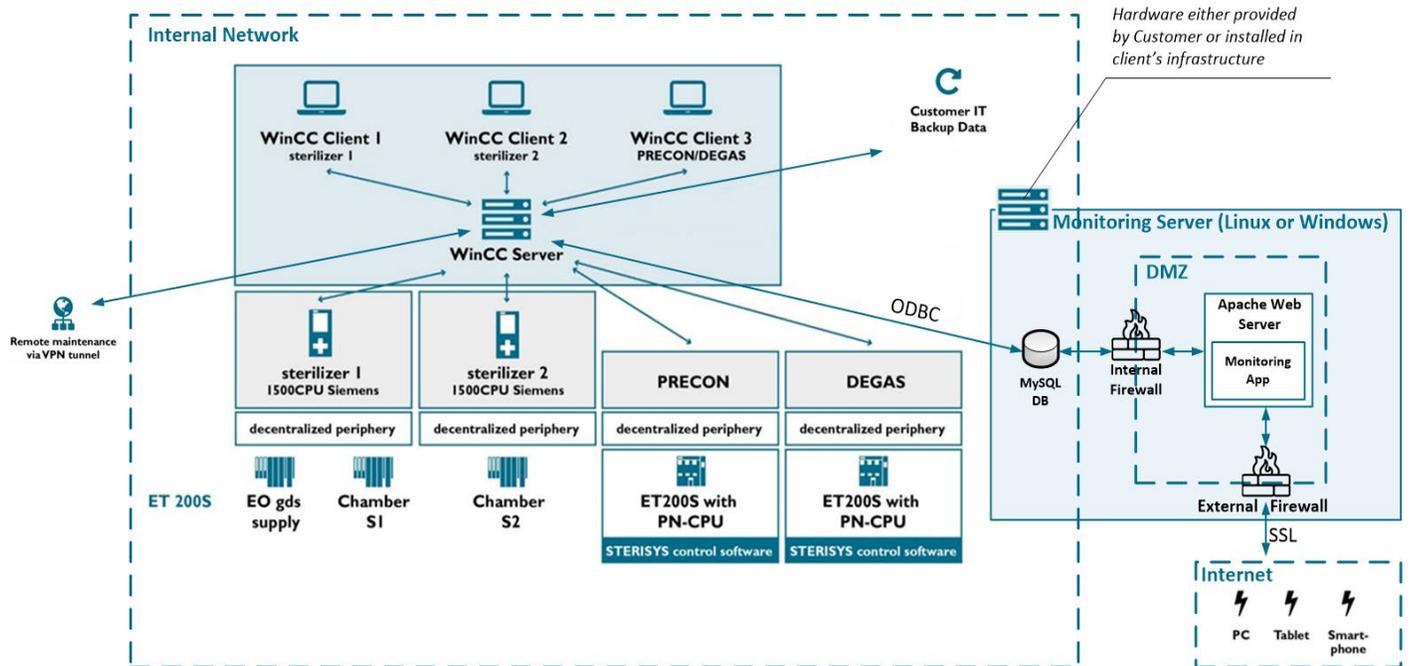
### Techstack:

Java, Spring Boot, React, Dashboard, MySQL, Chart.js, Firebase, Cloud Messaging, Auth0

### Team:

Project Manager, Software Architects, Front-end Developer, Back-end developer, BAs

## Monitoring Application and Network Topology



## Mockups. Mobile

