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Factory Monitoring App For a SaaS Automation Provider

How developing a mobile app for monitoring manufacturing equipment with the ability to control the whole factory and separate machines with a smartphone helped a SaaS automation provider win **new customers.**

About the Project

This is an **iOS/Android application**. It creates interfaces for plants and equipment on both smartphones and tablets. As a native app, this version offers an outstanding user experience in the everyday use and requires little effort to install.

The Modbus TCP industrial bus protocol allows the app to communicate with practically any machine. Users can learn the status of the plant at any time and send commands to its control unit.

Challenges

- provide possibility to create HMI for plants and equipment on smartphones and tablets and share it with colleagues

- allow to control directly plants and machines which support Modbus Protocol

- provide stable work when data transmission is slow

- create an outstanding user experience for daily use

User Features

- get direct connection between your app and the plant or machine

- learn the current status of the plant in one click

- send commands to the plant directly via application

Technical Features

VPN connection between the app and your plant
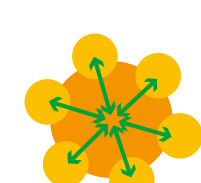
encrypted file system within the app

interface to WeConnect (VPN service from Westermo Data Communications GmbH)

encrypted connection to the HMI portal

Technologies

Modbus

objective-c

c/c++

tcp/ip

- ssl

- encryption

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