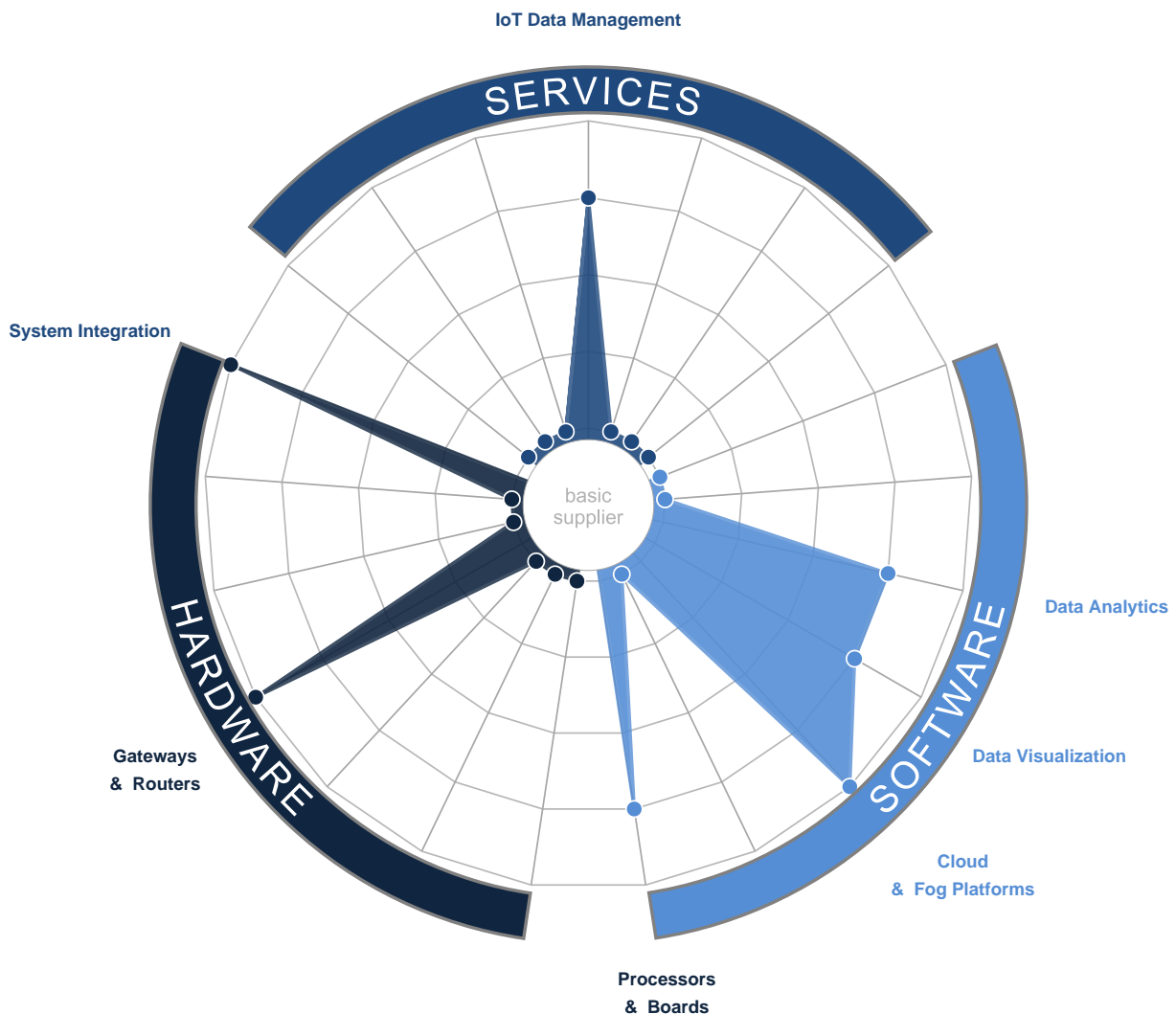


Solair (Microsoft)



# Integration of PLC with IoT for Bosch Rexroth



# Overview

## Applicable Industries



Equipment & Machinery



Renewable Energy

## Applicable Functions



Maintenance



Production - Manufacturing

## Connectivity Protocols



Cellular



Ethernet



Wi-Fi

## Challenge

The application arises from the need to monitor and anticipate the problems of one or more machines managed by a PLC. These problems, often resulting from the accumulation over time of small discrepancies, require, when they occur, ex post technical operations maintenance.

## Customer

Bosch Rexroth provides worldwide integrated technologies for operations and control of industrial plants and mobile equipment and technologies related to renewable energy in 80 countries for over 200 years.

## Solution

Bosch Rexroth has integrated its Rexroth control systems into Solair IoT platform effectively and with reduced design effort. The platform of programmable controllers Rexroth is ready for Connected Industry: it has been designed for easy integration in the supervisory systems and data management processes and for direct access through languages and systems of the IT world.

## Data Collected

Status of machine, distance between parcels, movement of objects

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Solution Type IOT

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Solution Maturity Cutting Edge (technology has been on the market for < 2 years)

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## Operational Impact



Impact #1

Remote Device Diagnostics - Real-time status reports enable maintenance personnel to do predictive maintenance and problem detection before interruption in production processes.

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Impact #2

Total Cost of Ownership - Total cost of ownership is lowered due to reduction in unexpected maintenance costs.

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Impact #3

Real-time Tracking - The location of individuals and assets can be identified in near real-time.

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## Quantitative Benefit



Benefit #1

The solution provides 24/7 monitoring which enables access to real-time information about machines.

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## Technology

### Software



#### [Solair IoT Platform](#)

##### **Solair (Microsoft)**

No matter if you have enabled equipment, legacy devices or if you plan to start new products from scratch, Solair's IoT platform can connect every product and enable Better Business across all industr ...

### Hardware



#### [Solair Gateway](#)

##### **Solair (Microsoft)**

The Solair smart gateway is an industrial-grade smart device that provides communications, computation power and a lightweight, flexible application framework for Solair's IoT platform integration.



# IoT ONE Featured Case Study



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