



Remote Monitoring Smart Factory



Our Client

A leading global mechanical component manufacturer.

Why they needed us

There was an increasing need to improve productivity and reduce prices in order to stay ahead of the competition. So, they were looking to adopt Industry 4.0 standard by implementing enterprise wide automation across all their plants.

Existing System

They had multiple sensors installed in various machines and production lines, which were communicating using different protocols. They also had an enterprise resource planning (ERP) system in place. There was a high dependency on human intervention in spite of the above capabilities, which was an impediment in achieving real time monitoring and alerts.

What we did

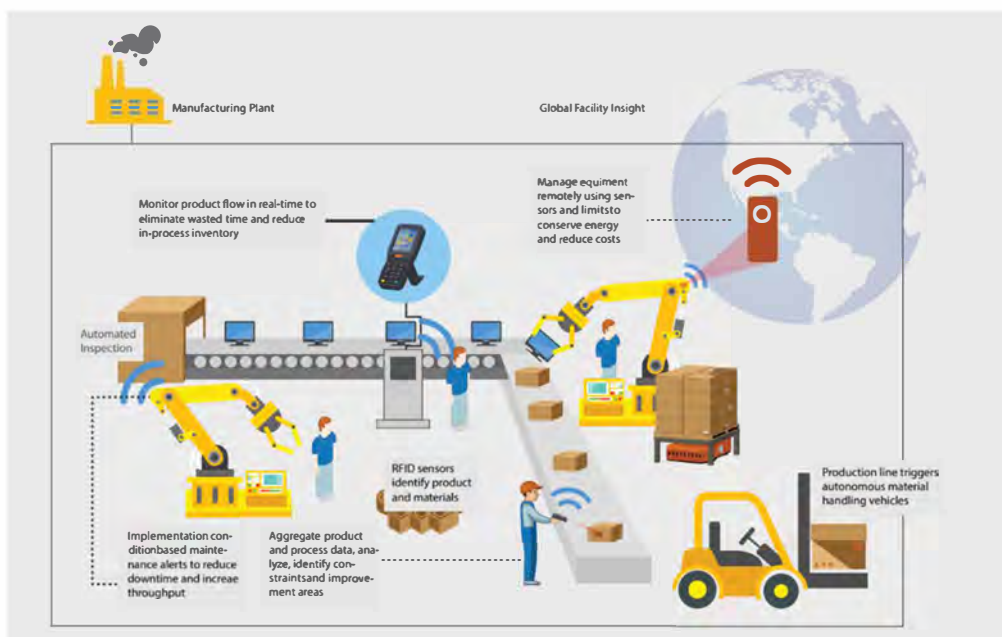
We reduced the human intervention needed for their existing ERP system by automating the production line.

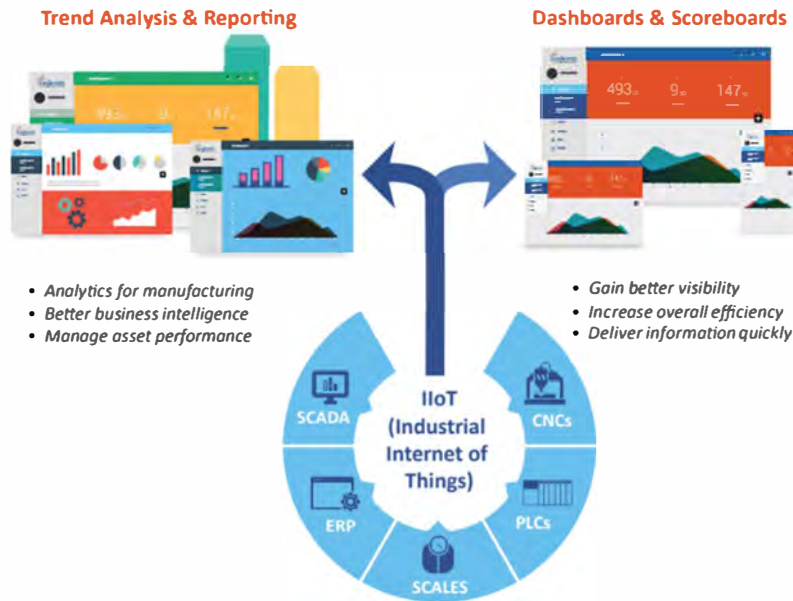
We built a remote monitoring solution integrating their existing ERP System with analytics and data visualization capabilities. This solution is hosted in the cloud.

We developed an IIoT Gateway to collect data from sensors using multiple communication protocols like Zigbee, Wifi, 6LowPAN etc. This gateway pushed the data collected to the remote monitoring program in the cloud.

We built web and mobile applications to give our client a real-time visibility into the factory process through the data visualization tools of the remote monitoring program. These applications also notified our client on any anomalies observed in the factory.

We offered the remote monitoring program using the Software as a Service (SAAS) model, which helped our client to meet their business requirements with minimal capital expenditure (CAPEX).





How they benefitted

Unplanned downtime came down which lead to an increase in operational efficiency by 15%.

Direct manpower efficiency increased by 20%

Indirect manpower efficiency increased by 10%

They achieved Return on investment (ROI) within 12 month of deployment.

About Redeem Systems

Redeem Systems is a pure-play Engineering and Digital Services Company with focus on mission critical highly engineered + high availability systems. Our global presence spans Asia-Pacific, Middle-east, Europe and North-America.

Our focus verticals include – Tele-communications, Medical Electronics and Aerospace & Strategic Electronics.

Our Product Engineering competencies include Product Design and Development, Verification & Validation, Emerging Markets Strategy and Product Life-Cycle Extension through Value Analysis and Value Engineering

Our Digital competencies are focused on Industrial Internet-of-Things (IIoT), Engineering Big Data Analytics and Software Defined Networking (SDN)/ Network Functions Virtualization (NFV).