

# OEE

OEE (Overall Equipment Efficiency) is an advanced Smart Factory solution leveraging the power of IoT. This smart system seamlessly integrates into your existing factory line with minimal modifications in your existing set up. OEE scales up your production process by harnessing real-time data on crucial performance indicators such as Machine Availability, Operation Performance, and Production Quality.

Using Jekson's IoT box this system securely collates the data in the cloud. Cutting-edge Artificial Intelligence tools then dissect this data, culminating in a comprehensive OEE report. This report, presented visually intuitively, encapsulates pivotal insights like significant downtimes, trend evaluations, and even predictive perspectives. As an output this system provides a strategic edge to your decision-making process. Witness a new era of manufacturing efficiency, driven by real-time intelligence and transformative analytics.



## OEE as service

The software system is fully managed by Jekson and hosted on a highly secured Azure cloud platform

## Equipment connectivity

With Jekson's state-of-the-art system the data can be captured from data points on equipment with no to less modifications

## Real-time data analysis with responsive UI

Jekson's OEE system's key feature lies in real-time performance and productivity monitoring with the capability of monitoring stoppages

## OEE summary

This system offers extensive and insightful reports in real-time on equipment productivity and stoppages

## Line display

The software system provides actionable data to the operator in real-time on parameters like delays, total run time against remaining time, total quantity of good products against total quantity of good products needed, etc.

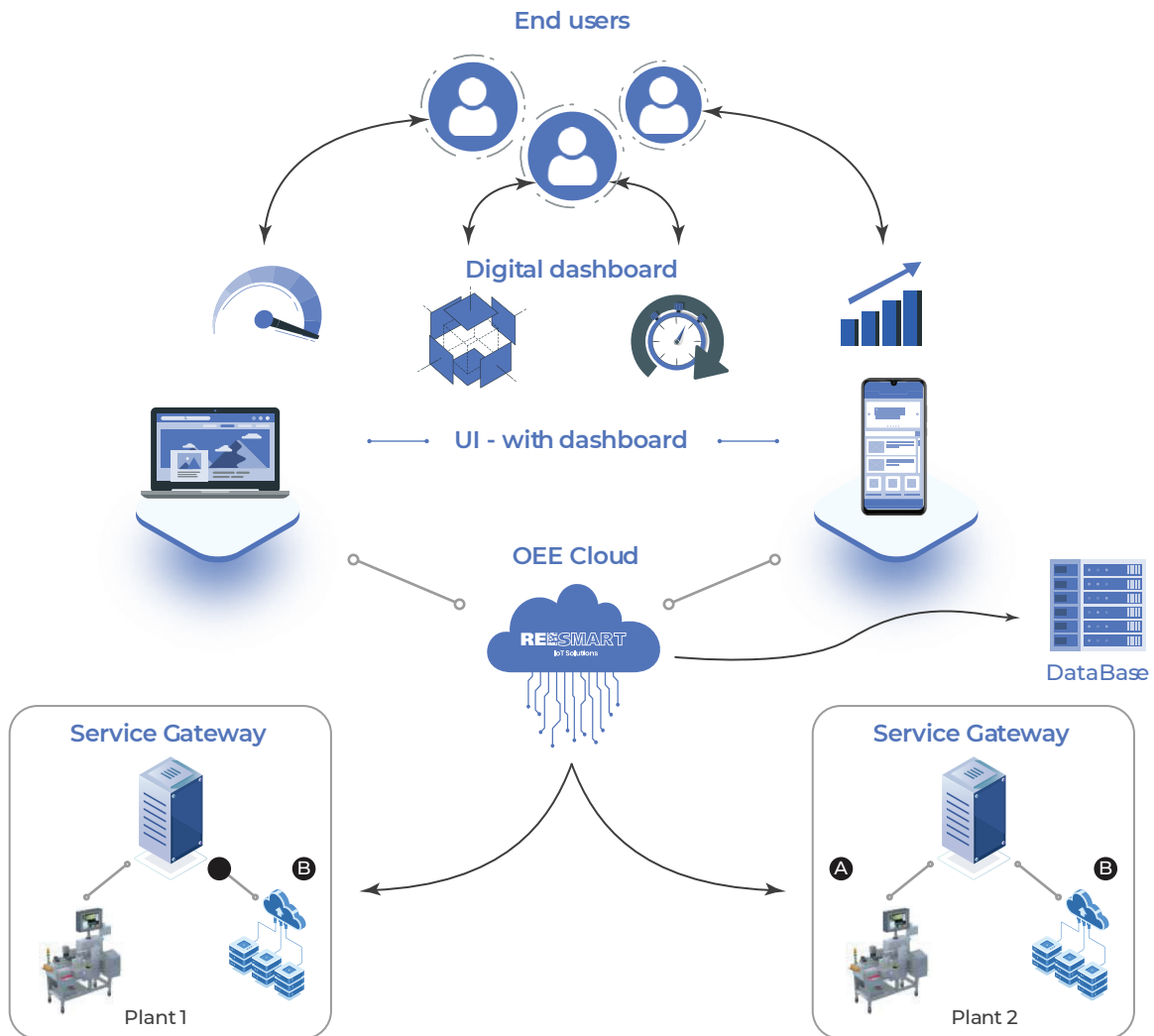
## Downtime classification

A stoppage summary is reported including a master configuration for in-depth analysis and action points on continual improvements in the factory performance

## OEE live

In-depth details on running jobs with OEE trend analysis, reject count summary, accept or reject trends, shift-wise OEE, and equipment-wise OEE

## OEE Architecture



### A. With Jekson Lines

- Connect Jekson lines with OEE cloud with help of service gateway
- Cloud architecture development to get real-time data
- Line specific real-time dashboard — with multiple components
- Trend analysis

### B. With Non-Jekson Lines

- Non - Jekson lines connections with OEE cloud
- Using IoT sensors
- Dashboard upgradation
- Trend analysis



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