RtDUET for Downtime Tracking

Track downtime & performance KPIs such as Overall Equipment Effectiveness (OEE)

At-A-Glance

Solution Type
› Downtime Tracking
› Asset Performance Management
› Overall Equipment Effectiveness (OEE)

Regions Available
› North America
› Europe
› Latin America
› Australia

Industries
› Food & Bev
› Pharmaceutical
› Life Sciences
› Chem & Petrochem
› Pulp & Paper
› Discrete Manufacturing
› Metals & Mining
› Power Gen

Features & Benefits
› Automatically captures events complete with associated asset, cause and category
› Automatically calculates maintenance & reliability KPIs like Availability & OEE
› Standard power KPIs like EFOR, EFOF & FOR
› Generates real-time reports for maintenance and capital planning
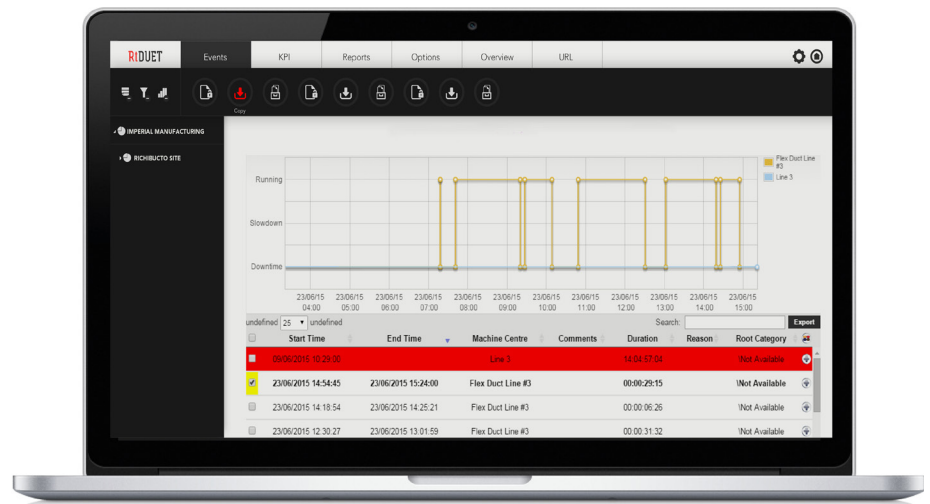› Seamlessly shares data with MES applications and databases

Implementation Requirements
› Download the PDF: http://rttechsoftware. com/uploads/RtDuet_ SystemRequirements_0916.pdf

BUSINESS CHALLENGES

Downtime at your plant is like a shot to the heart. While downtime is usually tied to equipment failure or breakdown, it can also include any unplanned event that stops or slows down a line. Without RtDUET, short downtime events can go unnoticed, and seemingly insignificant events can add up to significant productivity loss.

RtDUET provides extended functionality for users of the PI System, including access to the underlying data records for downtime events, advanced downtime tracking tools, and maintenance and reliability KPIs (e.g. OEE) through advanced analytics. Drive production and keep your finger on the pulse of your operation with RtDUET downtime tracking and real-time performance analytics.

BUSINESS IMPACTS

When equipped with the power of real-time data you are able to be proactive in decreasing downtime events by targeting and eliminating the root-causes of equipment failure.
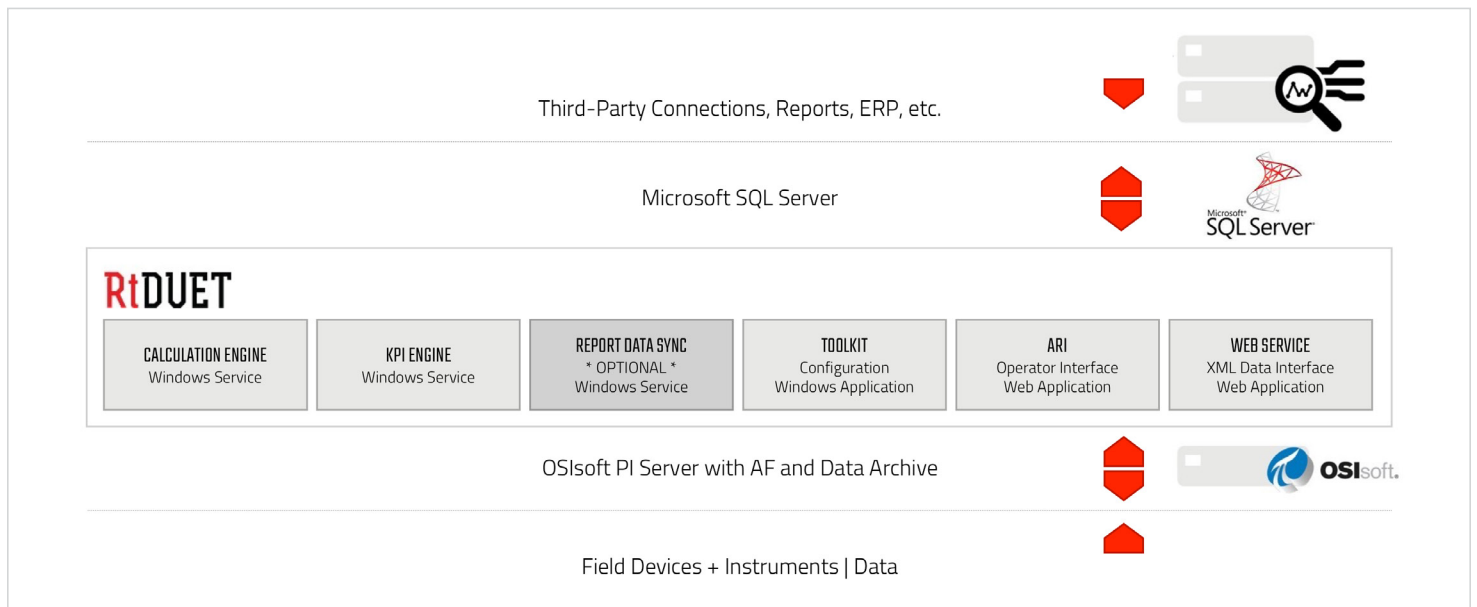
Additional benefits include the ability to:
› Monitor equipment health
› Share performance KPIs
› Maximize profit with more output
› Improve data accuracy
› Lower maintenance costs

SOLUTION APPROACH

Defining your operation's time usage codes standardizes how each downtime event type affects KPI calculations while reason codes standardize operator inputs for the cause or reason for downtime events. RtDUET can be configured so that each machine or asset displays only applicable reason codes making it easier for operators to select the correct code. With standard reason codes, the root causes of downtime and low OEE scores are easier to identify and prioritize.

RtDUET employs PI Tags as trigger inputs to assets. The PI AF SDK is utilized to configure and store downtime and KPI records as Event Frames. AF also serves as a database for reason trees, time usage configuration and asset hierarchy.

With simple out-of-the-box reporting and integration to on-site systems, accessing data can be achieved through standard reporting tools such as Microsoft Excel and Microsoft SQL Server reporting services. RtDUET comes complete with a standard add-in application for the Microsoft Excel 2007, 2010, 2013, and 2016 versions.

Third-Party Connections, Reports, ERP, etc.

Microsoft SQL Server

RtDUET

CALCULATION ENGINE	KPI ENGINE	REPORT DATA SYNC	TOOLKIT	ARI	WEB SERVICE
Windows Service	Windows Service	* OPTIONAL * Windows Service	Configuration Windows Application	Operator Interface Web Application	XML Data Interface Web Application

OSIsoft PI Server with AF and Data Archive

Field Devices + Instruments | Data

FOR MORE INFORMATION

RtTech Software develops industrial-grade analytic apps that provide operational intelligence.

RtTech offers two main solutions – RtDUET to improve asset availability and utilization in industrial facilities, like manufacturing, and RtEMIS, an energy management information system designed to help industrial facilities reduce energy consumption.

Learn more at www.rttechsoftware.com

ABOUT THE PARTNER ECOSPHERE

The OSIsoft Partner EcoSphere provides a collection of third-party services, applications, and technology to help customers maximize the value of the PI System.

Explore more solutions and the OSIsoft Partner EcoSphere at: partners.osisoft.com.