



TIPS Operations Management System

Developers of Digital Futures

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Maximize production efficiency with real-time dashboard insights into your operations. With this powerful tool, you can achieve more profitable production, reduce maintenance costs, and achieve system payback within a single mill shift.

TIPS OMS (Operations Management System) is a new offering in our software portfolio for the pulp and paper industry, which can be considered a digital toolbox for the mill users. Through real-time data, dashboard visibility into production, and seamless communication between mill teams, TIPS OMS significantly increases efficiency throughout the mill and company.

TIPS OMS Main functions



TIPS OMS overcomes industry challenges

It is becoming almost a cliché that industrial enterprises are continually needing to do more with less. This, however, is true – and creates a lot of pressure to make operations more efficient.

TIPS OMS gives you longer uptimes and less waste in all resources. It can lower costs and increase security by combining multiple IT solutions under one product.

Key features and benefits:

- The Mill overview provides continually updating production KPIs, target vs actual, and process statuses.
- Events and instructions within the solution make it easier to share information throughout the organization, from morning meetings to operator process instructions.
- Maintenance requests and work permits appear on an operator user interface enabling the creation of maintenance actions to SAP PM, complete with comments and follow-up.
- Root cause analyses reveal reasons for production losses, support industrial safety, and provide a tool for Operational Excellence and continuous improvement highlighted on the production timeline.
- Digitalizing mill workflow tasks replaces manual paper copy-based processes and legacy one-purpose tools and provides transparency. Visibility via a common interface is available to all mill personnel, from machine operators to company accounting and business management.
- Digitalization enables collaboration between production and maintenance and turns into tangible income as all mill personnel work for the same goal: maximum production.
- Real-time machine production targets and actual production shown as a trend, together with digitalized events across a configurable timeline, introduce new efficiencies in production.

TIPS OMS solution overview

TIPS OMS is a single communication portal across the entire company that can span all mills regardless of geography. This helps achieve maximum production efficiency, while task management and notifications help keep all teams within the mill aware of events and their effect on other teams. It automatically creates an

archive of events that can be used for post-analysis of the operation at a granular level.

From the main screen, users have one-click access to all the various functions to handle all the daily operations management:



Mill Overview

A quick view of the most important production figures and process statuses is provided.



Logbook (Diary)

This function is used to enter notes and comments from the production floor enabling information sharing through the organization both vertically and horizontally.



Meeting Reports

The Meeting Reports feature, typically used for the Morning Meeting, automates the preparation of the meeting report bringing structure and efficiency which frees up operators' time for more value-added tasks. The agenda is built automatically from the previous day's production data and logbook entries.



Root Cause Analysis

The Root Cause Analysis tool ensures communication between all involved parties when production stops or other issues occur. Production losses are analysed and resolved in one window. Root Cause Analysis also supports industrial safety and is a tool for Operational Excellence and continuous improvement.



Process Instructions

Temporary instructions can be assigned for special events or time spans.



Work Permits

TIPS OMS includes a Work Permit function which allows the configuration and duplication of document templates for all types of work permits in use at the factory (lifting, hot work, confined spaces, electrical, etc), complete with a status field to help follow the workflow.



Maintenance Actions

Operators can use OMS to create maintenance actions which are interfaced to SAP PM directly without having to learn how SAP works. The function also supports commenting and follow-up of the entered records. Maintenance teams will benefit from this SAP PM integration for maintenance actions. These actions are also visible on the Process View timeline to synchronize the actions of production and maintenance crews.



Quality Claims

Operators can also use OMS screens to view quality claims coming from an integration with SAP QM module.



Mobile Apps

Simplified functions of TIPS OMS are available for mobile devices to browse, comment, and add attachments. With screens built natively for mobile use, the screens are user-friendly and are seen as a valuable part of the system. Some users in higher level management or remote users exclusively use the app version.



Cross-links and document management

Many of the OMS functions can be linked together for easy cross-reference. In addition, there is standard integration to add attachments which can be stored in an Azure file storage or other corporate document management system. For example, a certain task might be linked to a coming event and have attachments of pictures or instructions to help the operator to know what to do.



Process View, the real money-maker

The real money-maker is the Process View. This function shows the operator real-time KPIs for their machine and encourages the production crew to reach their production target as quickly as possible. It promotes healthy competition between the shifts, yet requires an explanation if the pre-set goals are not achieved.

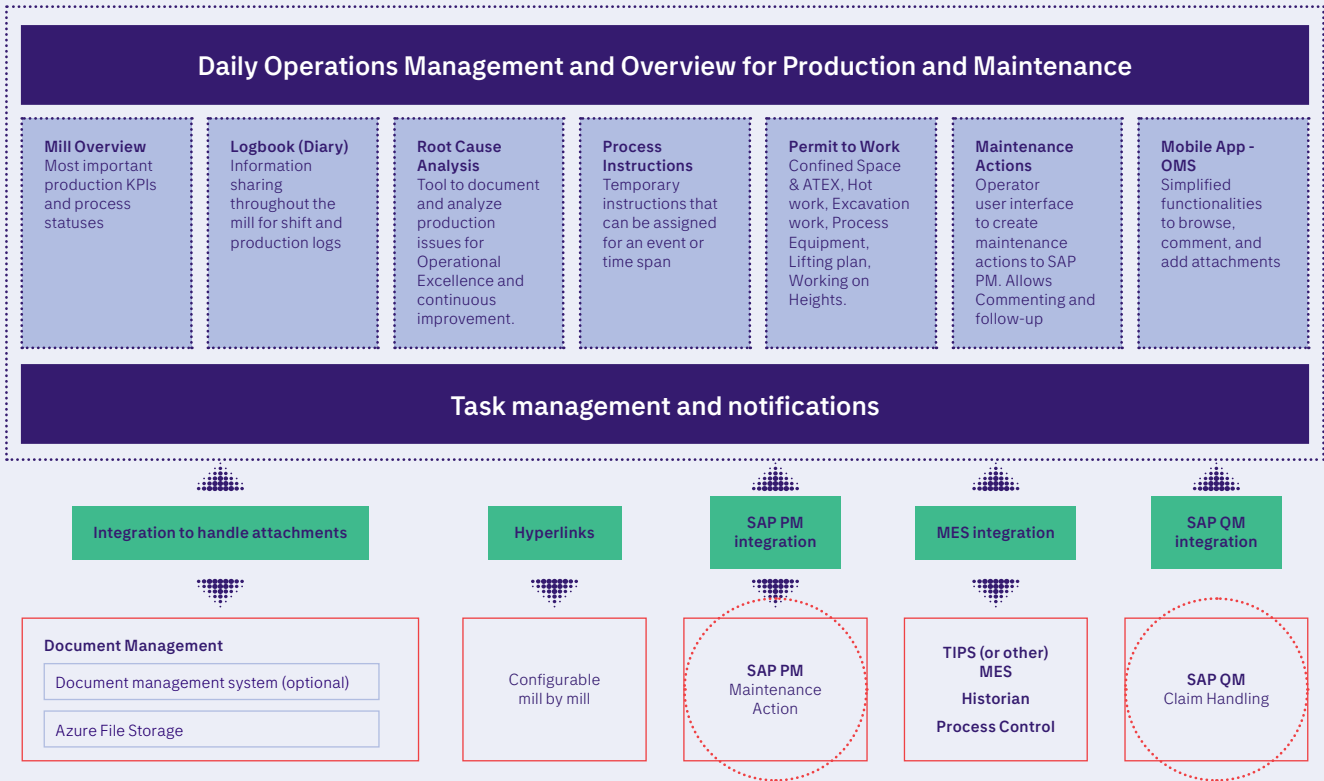
TIPS OMS supports event-based scheduling. Maintenance tasks can be queued up and handled during the next planned or unplanned downtime. This proactive function helps use the machine stops to their full extent, which naturally leads to more uptime in the long run.

The added revenue from only these two features accumulates in millions of euros over time. According to one customer, TIPS OMS achieved a return on investment after just the first shift.

The Process View, meant mainly for machine operators, is an alternative user interface which can collect and show mill data from various sources including MES and process historians. It shows production targets and real-time actual machine output as a trend together with mill events, while making it easy to share information between mill teams, for example, the machine operators and maintenance personnel.



Operations Management Cockpit - TIPS OMS Solution



Flexible licensing and fast project delivery

The TIPS OMS solution is modular, and its functions are divided into four licence packages:

- **Foundation**
- **Production efficiency**
- **Work permits**
- **SAP interface for maintenance and quality**

This allows you to start from the basics and increase the coverage of the solution as your needs and production IT evolve. As TIPS OMS is a web-based application the project implementation can be accomplished quickly. In addition, TIPS OMS SaaS-based delivery is available.

Summary and conclusions

TIPS OMS provides tangible benefits that help you in today's business challenges while also preparing you for tomorrow's requirements. Tietoevry with its ecosystem partners helps your company navigate the disruption through digitalization by focusing on agile production control and optimized operational excellence.

Savings through better in-mill communication

TIPS OMS combines production knowledge and production data, and digitalizes in-mill communication, thereby eliminating slow and cumbersome paper-based processes. The result is better and more effective collaboration between teams and shifts.

One tool across the organization

Deploying TIPS OMS at the various mills across the enterprise allows for a standardized and harmonized way of working which makes the overall business management more accurate and efficient. Relevant OMS data can also be fed directly into corporate systems allowing for better analytics to find improvement areas.

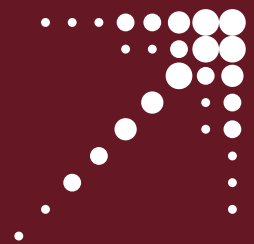
With this powerful tool, you can achieve more profitable production, reduce maintenance costs, and in the best case achieve system payback within a single mill shift.

How to get onboard

Get in touch with us to ensure your production efficiency in the face of accelerating changes and tightening competition in process industries.

We will be happy to arrange a meeting to give you more detailed information. You can also read more at www.tietoevry.com/tipsoms

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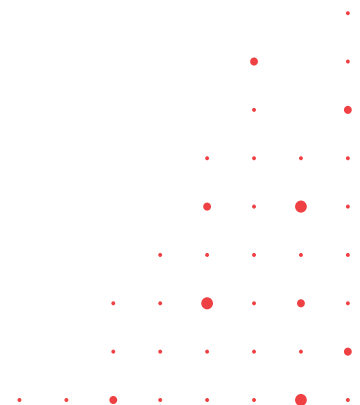


About Tietoevry

Tietoevry creates purposeful technology that reinvents the world for good. We are a leading technology company with a strong Nordic heritage and global capabilities. Based on our core values of openness, trust and diversity, we work with our customers to develop digital futures where businesses, societies, and humanity thrive.

Our 24,000 experts globally specialize in cloud, data, and software, serving thousands of enterprise and public sector customers in more than 90 countries. Tietoevry's annual turnover is approximately EUR 3 billion and the company's shares are listed on the NASDAQ exchange in Helsinki and Stockholm, as well as on Oslo Børs.

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