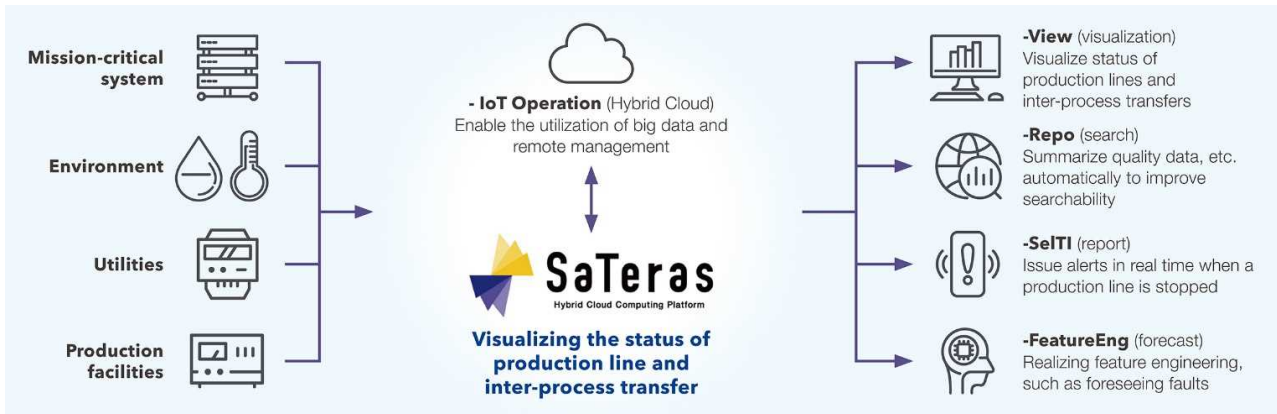


News Release (September 26, 2023)

Development of the DX Solution System "SaTeras" to Support the Succession of Expert Skill and Experience

- Enables centralized management of manufacturing and production data, contributing to improved production efficiency -

Toyo Seikan Group Holdings, Ltd. ("Toyo Seikan Group") has developed a data-solution system, "SaTeras" to support the succession of expert skill and experience. This system enables centralized management of manufacturing and production data, contributing to improved production efficiency. SaTeras allows for real-time visualization and analysis by integrating and accumulating manufacturing-related information, such as operating conditions and measured values of manufacturing equipment. Furthermore, connecting it to a machine learning platform enables digital utilization, which plays an indispensable role in the manufacturing industry in areas such as process defect prevention and quality control.



1. Background and Purpose of SaTeras Development

Amid changes in the external environment in which technological advances such as IoT and AI have made the digitalization of the manufacturing industry inevitable, the Company has developed SaTeras with a focus on making more advanced use of the manufacturing know-how and data accumulated to date. The objectives are as follows:

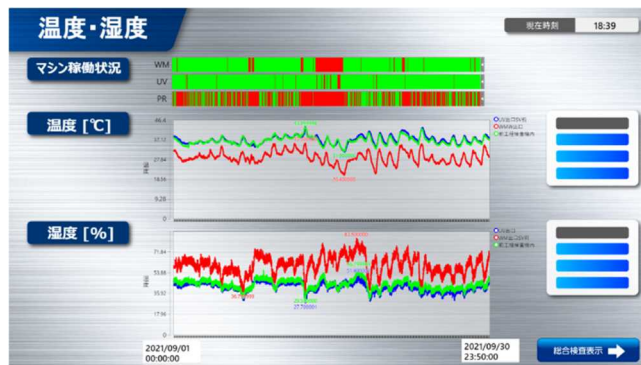
- Reconstruction of in-house infrastructure utilizing information coordination and big data on manufacturing, quality, the environment, etc.
- Analysis of data collected on manufacturing, quality, the environment, etc., and construction of analysis methods
- Improved productivity as a result of reduced downtime due to stoppage of manufacturing facilities and reduction of out rate
- Organizing information on manufacturing support with a focus on the interests of manufacturing staff

SaTeras is a system that can solve problems such as the depersonalization of human resources in manufacturing and a super-aging society. It uses the production data that has been cultivated up to now and transforms it into formal knowledge by structuring the tacit knowledge. SaTeras provides an environment in which anyone can access and use the data to improve their manufacturing process. It also enables high-level coordination of information. Because it is possible to combine functions and services, the design of SaTeras is flexible even in request to increased processing capacity.

< Reference : Dashboard Example >



Visualization of the operation status of entire production line



Real-time monitoring of temperature and humidity

2. Expansion of SaTeras

At present, the Group has completed the initial introduction of this system to six domestic aluminum can manufacturing sites and is beginning trial introductions at major Group companies. We are also considering sales to customers outside the Company in the future. Through SaTeras, we will provide a new manufacturing environment and reduce environmental impact, which will lead to an increase in corporate value.

About Toyo Seikan Group Holdings, Ltd.

Toyo Seikan Group Holdings, Ltd. is a world-class comprehensive packaging manufacturer, delivering a variety of packaging containers using materials such as metal, plastic, paper, and glass. In the Long-Term Management Vision 2050, "The Future, Wrapped for All," we set the goal to go beyond our traditional field of packaging, aiming to become a corporate group that creates new value that changes society. Founded in 1917, Toyo Seikan Group Holdings, Ltd. conducts business on a global scale, with 45 group companies in Japan and 49 overseas, and currently employs a multinational workforce of 20,000 people. For more information, please visit <https://www.tskg-hd.com/en>

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