

Data collection and low-cost network building

Wide Area Monitoring System

Are you having any problems like this?

Equipment Multi-site plants and entire plants

Problems Equipment data is scattered. The decision-making is difficult for the entire plant's production and maintenance.



- ▶ The inability to collect data from scattered equipment prevents comprehensive analysis and improvements.
- ▶ Each plant manages their own equipment respectively. It is difficult to grasp operation status across all locations.
- ▶ The building of new monitoring network is subject to cost and time constraints.



Easy to start using! Wide Area Monitoring System solves remote monitoring issues



Facilities that exist in a wide area can be integrated and managed through remote monitoring.

The cloud can be used to reduce time and costs, and to efficiently build monitoring systems.



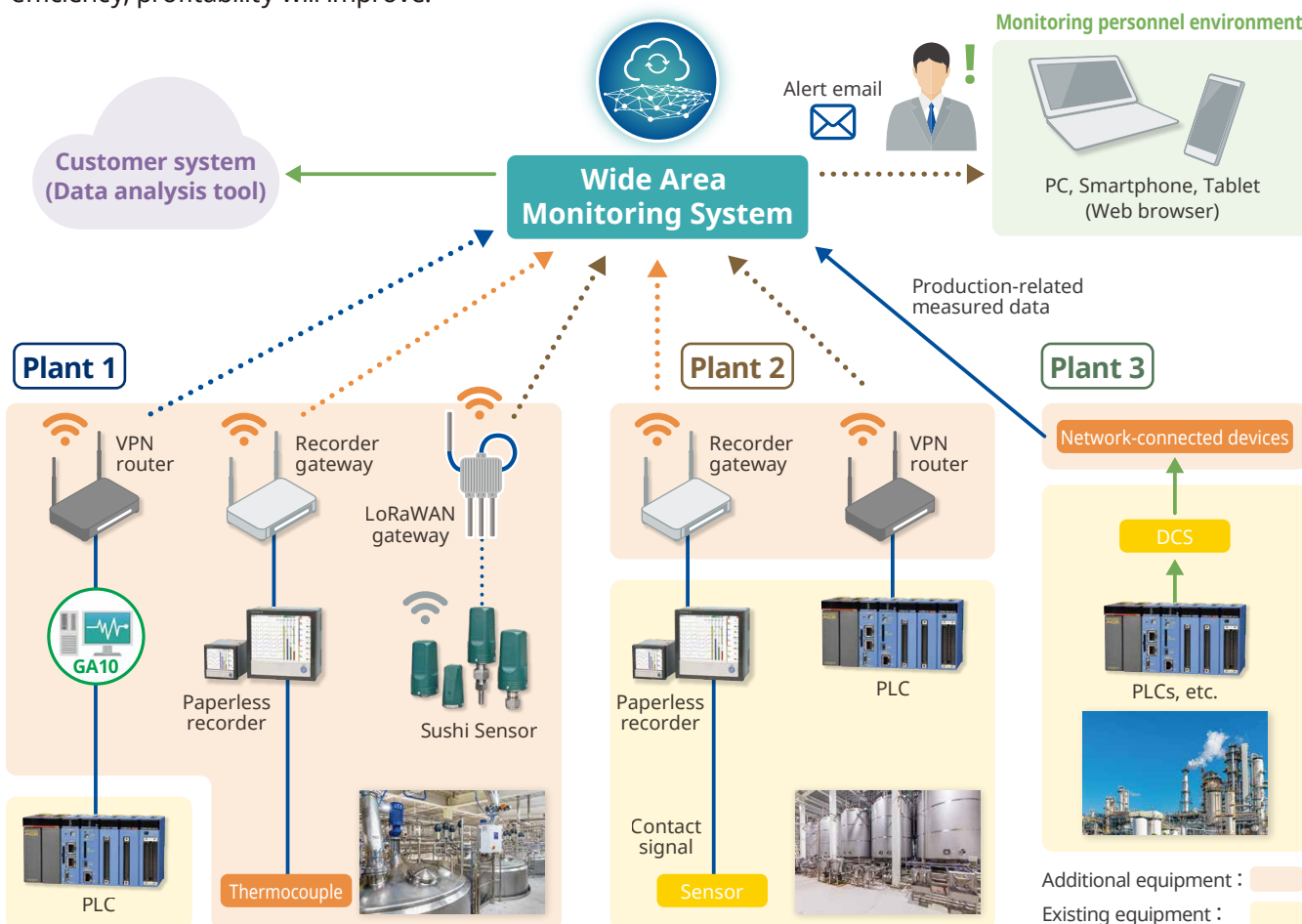
Value through problem solving

- ✓ Visualization, recording and accumulation of equipment data to provides overall improvement and support.
- ✓ The facility's information with integrated equipment (DCS, PLC, recorders, sensors, etc.) can grasp the operational status of entire plant and multiple plants.
- ✓ Quick decisions regarding investment, production and maintenance can be made by utilizing data from multiple locations. Users are able to build a low cost monitoring system with wireless communication technology.



Proposed System Configuration

Data is collected from Sushi Sensor, recorders, GA10, PLC, DCS and other equipment installed at each plant and managed through the “Wide Area Monitoring System.” The collected data integrates with this system, enabling visualization and analysis of equipment to solve production challenges. Furthermore, utilizing cellular network allows for a network configuration that eliminates the need for wiring work, reducing the construction burden during implementation. Implementing this system is expected to reduce opportunity losses, lower maintenance costs, and control quality losses. By enhancing both quality and production efficiency, profitability will improve.



► Devices

Category	Product	Notes
Cloud	Wide Area Monitoring System	Data acquisition interval: 5 min. or more, 50 measured data
Communication	—	
Comm. devices/ data acquisition	LoRaWAN gateway, VPN router, Paperless recorder Recorder gateway, PLC	
Sensor	Sushi Sensor (Pressure, Vibration, Steam trap)	

► Industries Entire manufacturing industry

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