JT solutions

Solutions & Technology

MES (Manufacturing Execution System)

- Supply Chain and BOM management system
- Product management system
 - Production and defect monitoring
 - Facility operation status
- Process management system
 - Process status management
 - Inventory management

- PLC-based process monitoring automation
- PLC & SCADA- based process automation
 - Data collection
 - Facility automation
 - Remote control systems
- Automation of data collection using standard Protocol
 - PLC & SCADA- based process automation
 - └ Standard protocol: OPC, MODBUS, S7 etc. I
- Automated data collection for manufacturer, supply chain and process

RMS (Remote Monitoring System)

- Data processing, analysis and search using
 - open Source Big Data systems such as Elastic Search and Log Stash
- Big data management using Hadoop
 - Comprehensive data management for ship and plant
 - Operational data for ship and plant
 - Collection and integrated management for Event/Log data
- Analysis and monitoring of ship and plant data
 - Monitor operation status
 - Monitor Event/Log of ship and plant
 - Provide alarm in ship and plant operations

- Visualization using Kendo UI Tools
 - Overview (DashBoard)
 - Analog Data Trend
 - Graphic User Interface
- User access control
- Personalized UI for user/group

AI (FDS - Fault Diagnosis System)

- Customized the RNN classifier
 - Able to analyze status of the engine in operational environments
 - Able to analyze status for various engines and parts
 - Maximize efficiency by classification
- Real time operational data
 - Collect real time data from engine power plant
 - Collect data from ships in operation
 - Build classification by operational data
- ◆ FDS Fault Diagnosis System
 - Apply Machine Learning to predict failure
 - Collect feedback from expert

- Prediction and management of engine parts life cycle
 - Manages engine part life span
 - Applies machine learning to predict life span
- C.B.M (Condition Based Maintenance)
 - Improve maintenance via prediction of failure and idle status

PCS (Plant Control System)

- DCS, SCADA and PLC System
 - Design & Construction
 - FAT (Field Acceptance Test)
 - SAT (Site Acceptance Test)
 - Commissioning
 - Plant Maintenance

- PAS (Process Automation System)
 - Process Control
 - Process Monitoring
- Process Remote Control
- SIS (Safety Instrument System)
- FGS (Fire and Gas System)