

Delivering Actionable Intelligence Through Data Management and Collaboration

Introduction

As systems and equipment in process plants become more complex and sophisticated, gaining actionable intelligence from the vast amount of generated data has become one of the key success factors in the industry. Extracting accurate and meaningful information from the data helps the entire organization achieve operational excellence. A plant needs a solution that provides actionable intelligence, generated through collaboration among plant personnel, for plant operation, business, and enterprise decisions.

There are some solutions that manage operational data for operators and managers; however, not many of them successfully provide the collaborative ground for members of the organization to gain truly actionable intelligence.

Transforming Operational Data into Actionable Intelligence

Operational data generated from plant equipment merely presents how the equipment operates; therefore, operational data itself does not help guide operators or decision-makers to make enterprise-wide decisions.

However, when the operational data is shared among different layers of the organization and is combined with business insights, operational data becomes actionable intelligence. This enables a plant to transform the way they collaborate in order to meet the needs of the organization, achieving enterprise operational excellence.

Actionable Intelligence Through Collaboration

Actionable intelligence should bring meaningful insights into operational, business, and enterprise decisions so that each decision-maker can make the best operational decision. For effective collaboration, the process of transforming data into a business decision should be accessible and secure from any device.

The main goal of actionable intelligence is to provide the plant with meaningful information for evidence-based decision-making. During the decision-making process, effective collaboration among the various roles may produce actionable intelligence for real and meaningful business actions. Whereas DCS or PLC data provides limited useful information, actionable intelligence enables the plant to execute exponentially more meaningful actions that positively impact a plant's operational efficiency.

Benefits of Actionable Intelligence

Plant operators take immediate and appropriate actions based on intelligence. Managers and executives can set up enterprise budgets according to actionable intelligence. They can efficiently allocate enterprise resources and predict cost and savings based on increased asset reliability.

HanPrism

HanPrism is the precise and fast solution for process plants to draw actionable intelligence from vast and widely dispersed data. HanAra Software is implementing an intelligence-centric approach to historian software, creating a powerful and innovative data infrastructure. This enables users to utilize an increasing pool of data to achieve operational excellence. HanPrism's proven and advanced technologies have been changing the landscape of daily plant operation.

Collect



Collect real-time plant operation data

Archive



Accurately archive the data in the historian server

Visualize



Visualize operational data in various ways

Analyze



Analyze real-time data with built-in tools

Collaborate



Effectively collaborate with your team

Challenges for Korea South-East Power Company

Korea South-East Power Company (KOEN) is one of the largest energy companies in South Korea. KOEN generates electricity for metropolitan areas and southern Korea and generates approximately 10% of South Korea's annual net electricity.

KOEN had several enterprise-wide issues:

1

Challenge

Need for a solution that offers enterprise-wide data management and integration

KOEN did not have an adequate software to manage and integrate vast amounts of data generated from its many plants and locations. Since the volume of the data was tremendous and the data sources were diverse, it was very difficult to manage and integrate the data.

2

Challenge

Lack of data infrastructure for establishing the headquarters' integrated monitoring center

KOEN needed data infrastructure for its headquarters' integrated control center. Data infrastructure is key for a control center. KOEN's headquarters and its plants needed a data infrastructure to help them communicate and collaborate to generate actionable intelligence.

3

Challenge

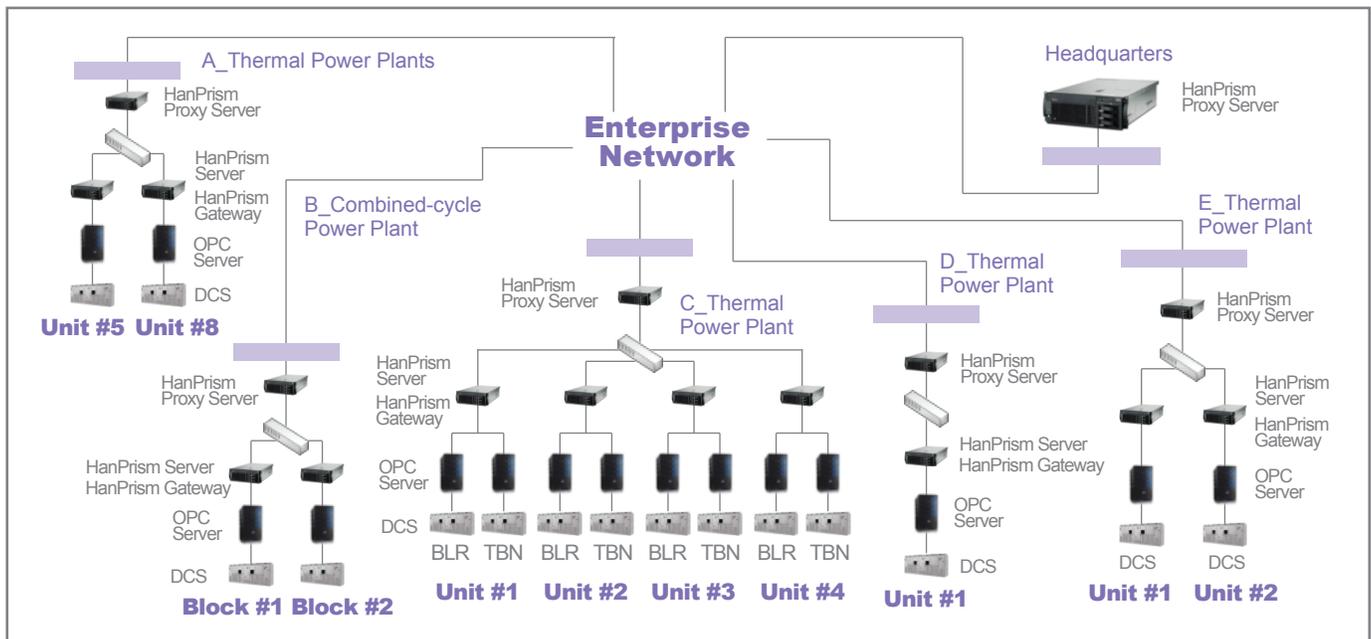
Lack of collaboration for strategic business decision-making

In order to make a strategic business decision, executives need to collaborate with the field level to gain each other's unique insights. However, KOEN did not have an optimized solution to provide such a collaborative ground for their business decisions. KOEN's business decisions often included only managerial and executive insights, rather than encompassing the entire enterprise insights, including those from the field level.

HanPrism Delivers Enterprise Data Management Solution to Korea South-East Power Company

Efficient Data Management and Integration for 6 Plants

KOEN headquarters and 6 different KOEN plants installed HanPrism in 2011. Operational data from each plant was collected and integrated in KOEN headquarters' HanPrism server. Although nearly 35% of the plants are geographically distant from the headquarters, thanks to HanPrism, KOEN can easily collect and integrate all the data from each plant's server to improve the reliability and availability of all their facilities.



Easy Data Analysis and Sharing among Each Power Plant and Headquarters

Collaboration among the organization is much improved because of HanPrism. With a proxy server mediating data transmission, headquarters and each plant can now quickly query and retrieve data without slowing down the server's performance. With HanPrism's outstanding analysis and visualization tools, KOEN can share meaningful data whenever and wherever they want. This provides an optimal environment for collaboration, thus achieving actionable intelligence.

Enhanced Data Scalability with HanPrism

HanPrism is a highly flexible software that provides a bridge to external applications. Data processed by HanPrism constantly delivers real-time and historical data and collaborates with ERP, predictive analytics systems, and performance monitoring systems. KOEN has been successful in gaining actionable intelligence that leads to effective business decisions.