XMPro Helps You Improve Operational Performance in Weeks

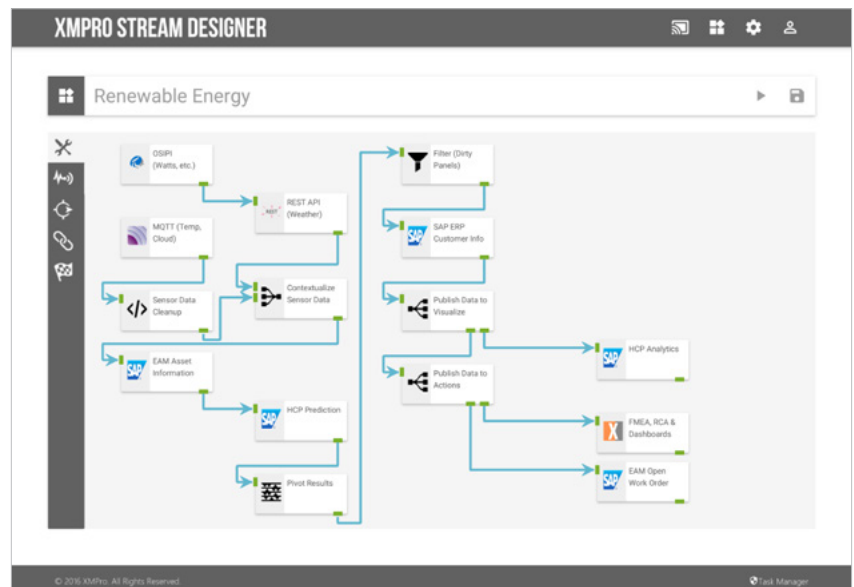**XMPRO**
Agile Industrial IoT

Global competition and price pressure have driven industries to improve their operational efficiency by leveraging the massive amount of data available from equipment, sensors, applications and databases across the enterprise. But how to make sense of the data and reduce the latency between events and action is a challenge for most organizations. Lengthy, complex IT projects to address this need often come up short and have a questionable ROI.

XMPro Agile Application Suite for IIoT

That's where XMPro can help.

Our Agile Application Suite for Industrial IoT is a powerful IoT platform that works in conjunction with your SAP and 3rd party applications to:

- Provide real-time responsiveness to equipment issues

- Help you move from reactive to predictive operations

- Improve asset utilization

- Enable application development in weeks by subject matter experts

XMPro's visual, model-based approach enables engineers and SMEs to develop and deploy IoT use cases in days with little or no coding.

XMPro helps SAP users visually orchestrate IIoT inputs with business logic and analytics to create agile IIoT applications that initiate calls to action in SAP S/4 HANA and other business applications. XMPro brings together sensor based data, combines it with contextual information from your ERP and CRM applications, and displays it on a single screen to help you make decisions based on the complete picture. It's also easy to bring in machine learning models from engines like SAP HANA, Microsoft Azure, or IBM Watson to automate the decision process.
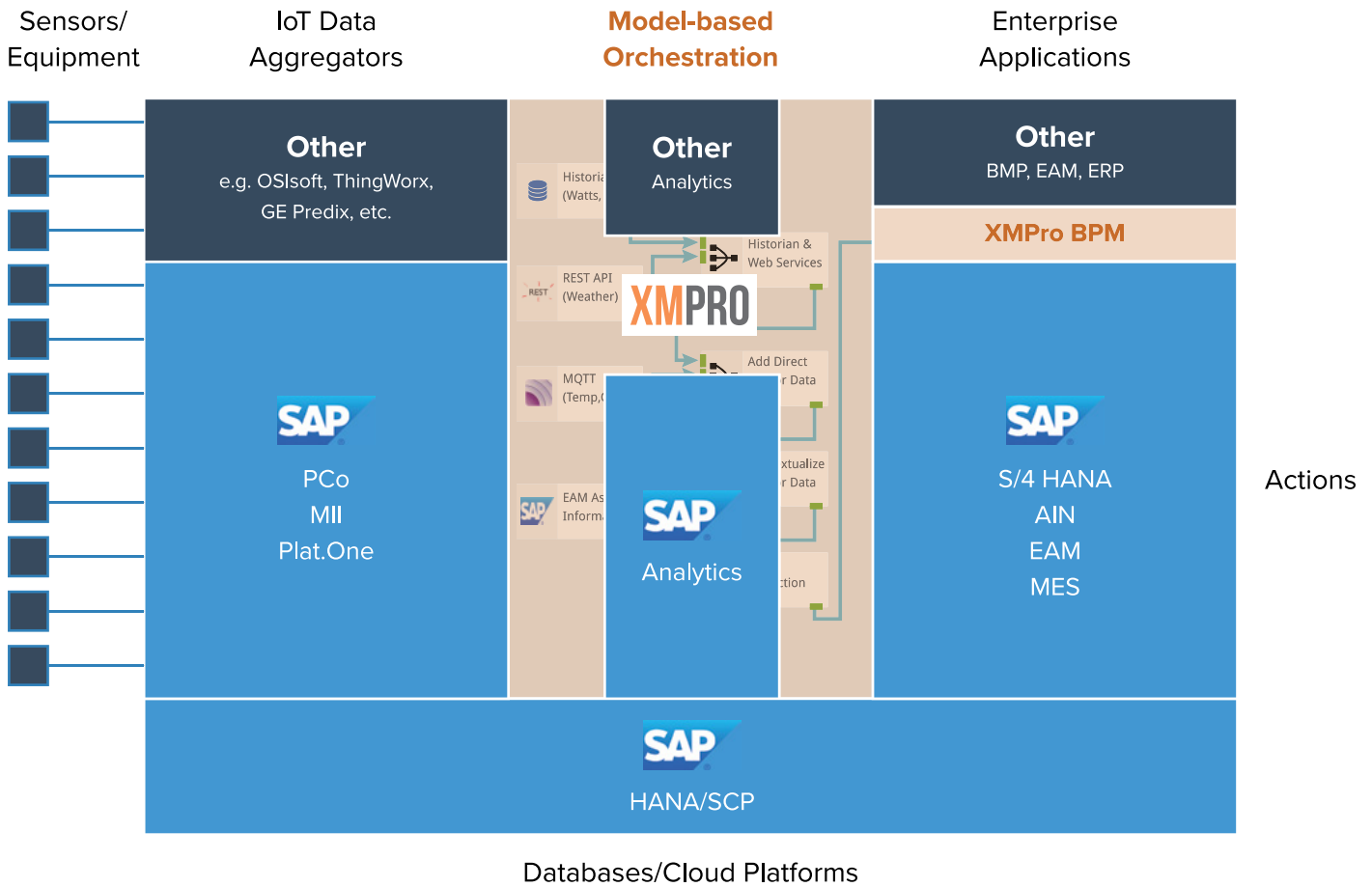
Bridging the Gap Between OT and IT for IIOT

XMPro provides a visual, model-based approach for creating industrial IoT applications. This enables subject matter experts and engineers to prototype and deploy real-time IoT applications for a range of different use cases with little or no coding. The net result is that IoT use cases can be deployed in an agile, incremental fashion with the flexibility to change or refine applications as your needs evolve.

Integrated with SAP HANA and EAM

As an SAP Startup Focus partner, XMPro has gained "Powered by HANA" certification and has integrated its model-based orchestration capability with SAP data aggregators like PCo and MII as well as enteprise applications like SAP EAM and S/4 HANA.

With XMPro, one of the world's largest oil and gas companies saved $8M in 6 months through improved asset integrity and utilization

The diagram shows a layered architecture with columns labeled:

Sensors/Equipment | **IoT Data Aggregators** | **Model-based Orchestration** | **Enterprise Applications**

- IoT Data Aggregators: Other (e.g. OSIsoft, ThingWorx, GE Predix, etc.); SAP PCo, MII, Plat.One
- Model-based Orchestration: Other Analytics; Historian (Watts); REST API (Weather); MQTT (Temp); EAM Asset Information; XMPRO; Historian & Web Services; Add Direct Data; Contextualize Data; SAP Analytics
- Enterprise Applications: Other (BMP, EAM, ERP); XMPro BPM; SAP S/4 HANA, AIN, EAM, MES; Actions
- Databases/Cloud Platforms: SAP HANA/SCP

XMPro's model-based orchestration integrates with SAP and 3rd party data aggregators, analytics and enterprise applications to deliver end-to-end IoT applications for targeted use cases.

XMPro customers can integrate their application with SAP HANA using pre-configured connectors that make it easy to monitor tables for new records, read contextual data and write data to SAP systems. By leveraging the unique in-memory capabilities of SAP HANA, XMPro's solution can process large volumes of industrial IoT data at high speeds. Exceptions and analytics can then initiate actions in SAP EAM and other business systems from SAP or 3rd parties.

Integration with Heterogeneous Environments

XMPro offers built-in drivers for thousands of sensors and equipment interfaces, including OT data aggregators like OSIsoft PI and ThingWorx as well as direct sensor interfaces like MQTT and AMQP. The solution also supports interfaces to SAP HANA PAL (Predictive Analytics Library) and 3rd party machine learning and analytics engines such as Azure ML and IBM Watson, as well as interfaces to popular enterprise applications such as Sharepoint, Salesforce and many others.

XMPro provides a visual way of configuring and managing the orchestration of all of these components to create unique solutions for specific use cases.

About XMPro

Founded in 2009, XMPro has a proven track record of helping organizations in asset-intensive industries such as Manufacturing, Oil & Gas, Mining and Energy/Utilities improve operational excellence and increase asset utilization through its Agile IoT Application Suite and Business Process Management products.

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