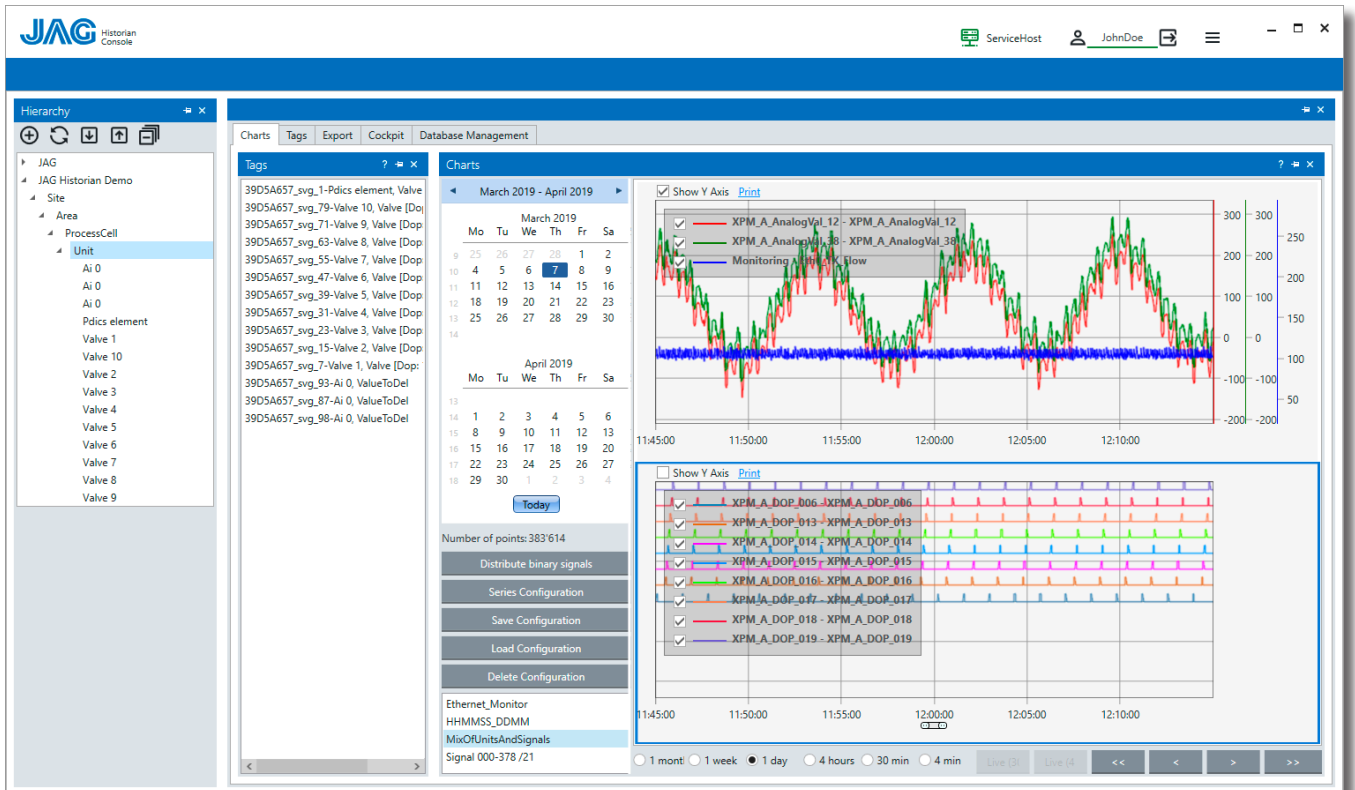# JAG HIS JAG Historian

Data is the new oil

Key features of modern production systems such as traceability, process analysis and continuous improvement rely on permanent data collection.

With the JAG Historian we offer a reliable and easy to use solution for the capture, storage and analysis of historical data.
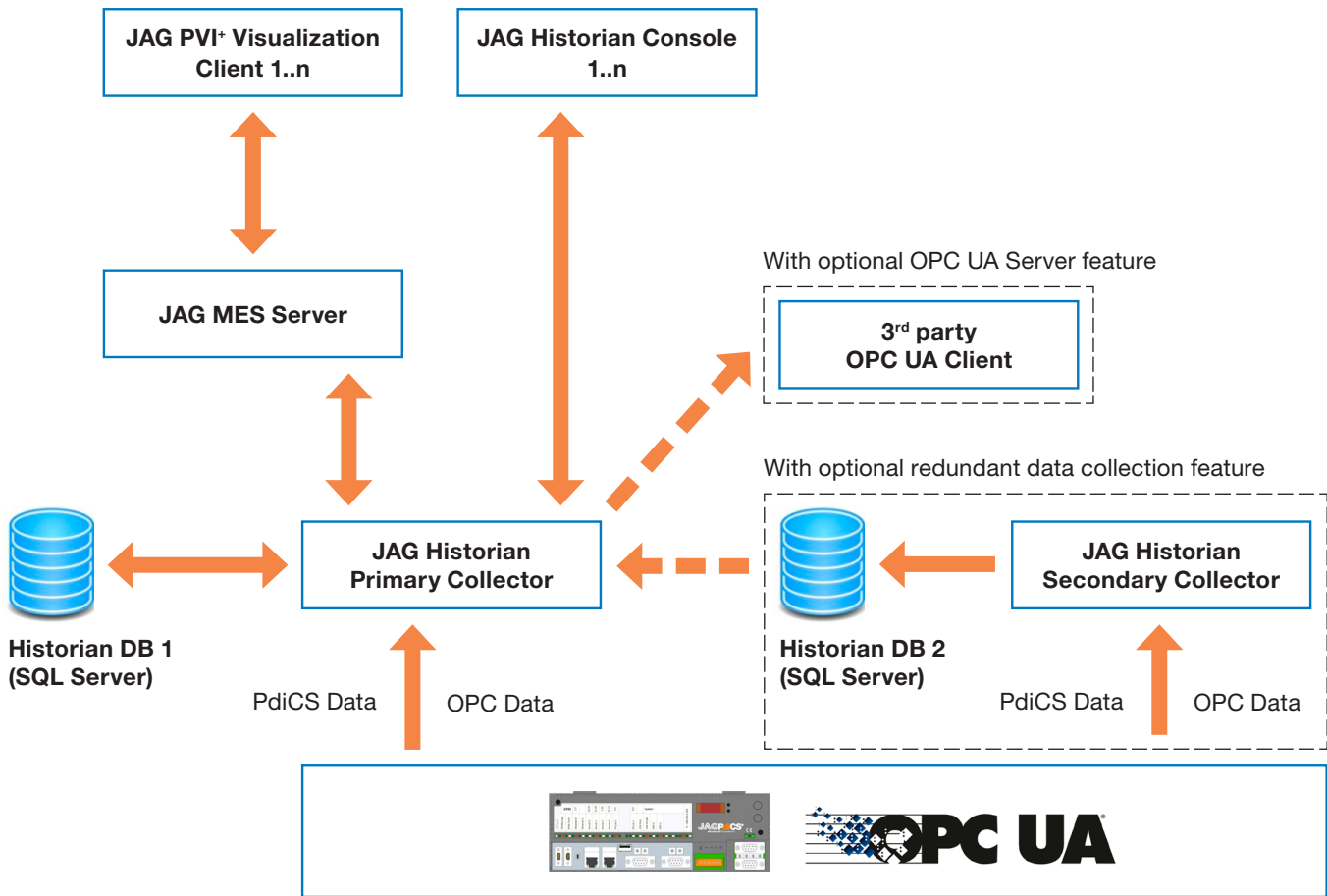
Collecting data is one thing, making sense of it another. Unlike other data historian solutions JAG Historian comes with a user interface which is dedicated to ad-hoc data analysis: the Historian Console.

It allows creating customized views by simple drag and drop. Large numbers of data points can be browsed fluidly in a modern and simple to use graphical user interface.

Features and benefits of the JAG Historian

- Collect data from JAG PdiCS modules
- Collect data from third party systems (while acting as an OPC UA Client)
- Safe, SQL-based data storage
- Powerful data compression
- Delivery of historical data to the JAG PVI+ visualization
- Ad-hoc data analysis using the Historian Console
- Optional: OPC UA Server feature to publish data for 3rd party applications
- Optional: redundant data collection feature to ensure seamless data collection

System overview

Architecture

Historian Collectors read data from JAG PdiCS modules or – in the case of third party products – from OPC UA Servers. An optional, secondary Collector can be added to ensure a seamless data collection.

The historical data is stored in SQL databases. The main advantages of the SQL-based approach are the scalability and the ease of data management (back-up, restore etc.).

The Historian Collectors offer a sophisticated and configurable data compression algorithm. This allows storing a lot of process values and retain them for a long time while creating a reasonable data volume.

The historical data is often viewed by using the JAG PVI+ visualization, which is part of the JAG MES framework. The primary Collector reads the historical data from the database(s) and forwards it to the JAG MES Server.

Unlike other process historians, JAG Historian comes with a Console designed for the ad-hoc data analysis of analog and digital process data. Custom views can be created by simple drag and drop. TAGs are chosen from a tree view structured according to the plant hiearchy (S95/S88 oriented) and are dropped into one or several charts. Thanks to the Historian Console, data analysis during commissioning and operation is made simple.

The OPC UA Server option allows publishing live and historical data to 3rd party OPC UA Clients (e.g. to OSI PI).

Licensing

Packages are available for different numbers of TAGs (data points) and in three license levels:

License level	Order number[1]
Basic	M022.240.10x.xxx
With optional OPC UA Server	M022.240.30x.xxx
With optional redundant data collection (includes the OPC UA Server option)	M022.240.20x.xxx

[1] Where xxxx is the number of TAGs divided by 10. Each JAG Historian license includes an unlimited number of Historian Console installations.

For each license level, packages with the following number of TAGs are available: 100, 300, 500, 1000, 2500, 5000, 10 000, 15 000 and 20 000.

To cover a certain number of TAGs, the next bigger license must be chosen. As an example, 2000 TAGs can be covered by a 2500 TAG license. Leaving some margin is recommended, since the number of TAGs usually increases in the commissioning phase of projects.