



Cloud-Based OT Data Management to Enable Analytics & Optimization

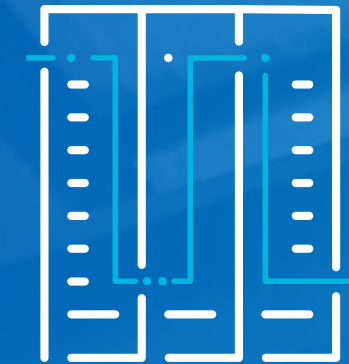
Simple, secure, reliable movement of OT data to the cloud, at scale



CIOs and CDOs at leading industrials have made the decision to embrace the cloud. ERP, data lakes, even MES are being deployed in the cloud. Analytics toolsets abound in the cloud.

What's been missing is the ability to move OT data to a company's cloud environment, at scale at a reasonable cost.

As in: *all of the OT data.*



OT data for analytics and insights

Without the ability to mash up transactional data with OT/process data, insights are limited.

The ability to bring OT data to the cloud at scale unlocks the full potential of analytics for industrial companies. This potential remains unrealized because the technology that combines the capabilities of an operational historian with cloud native deployment hasn't existed.



The OT Data Management Standard: Operational Historians

Operational historians have a place in industrial plants for a reason: they are designed to handle large volumes of streaming process/time series data.

They provide built-in, reliable data collection tools designed for the industrial use case:

- Hundreds of industrial protocols
- Store and forward to handle network instability
- Industrial data compression at the source and in the server – reducing data transport, compute, and storage resources
- Ability for plant floor users to query data via tools such as Excel
- Data retrieval from last month or 10 years ago at speed
- Simplified ways to manage data and create value – such as performing aggregations and returning the average value over a time period without building complex queries

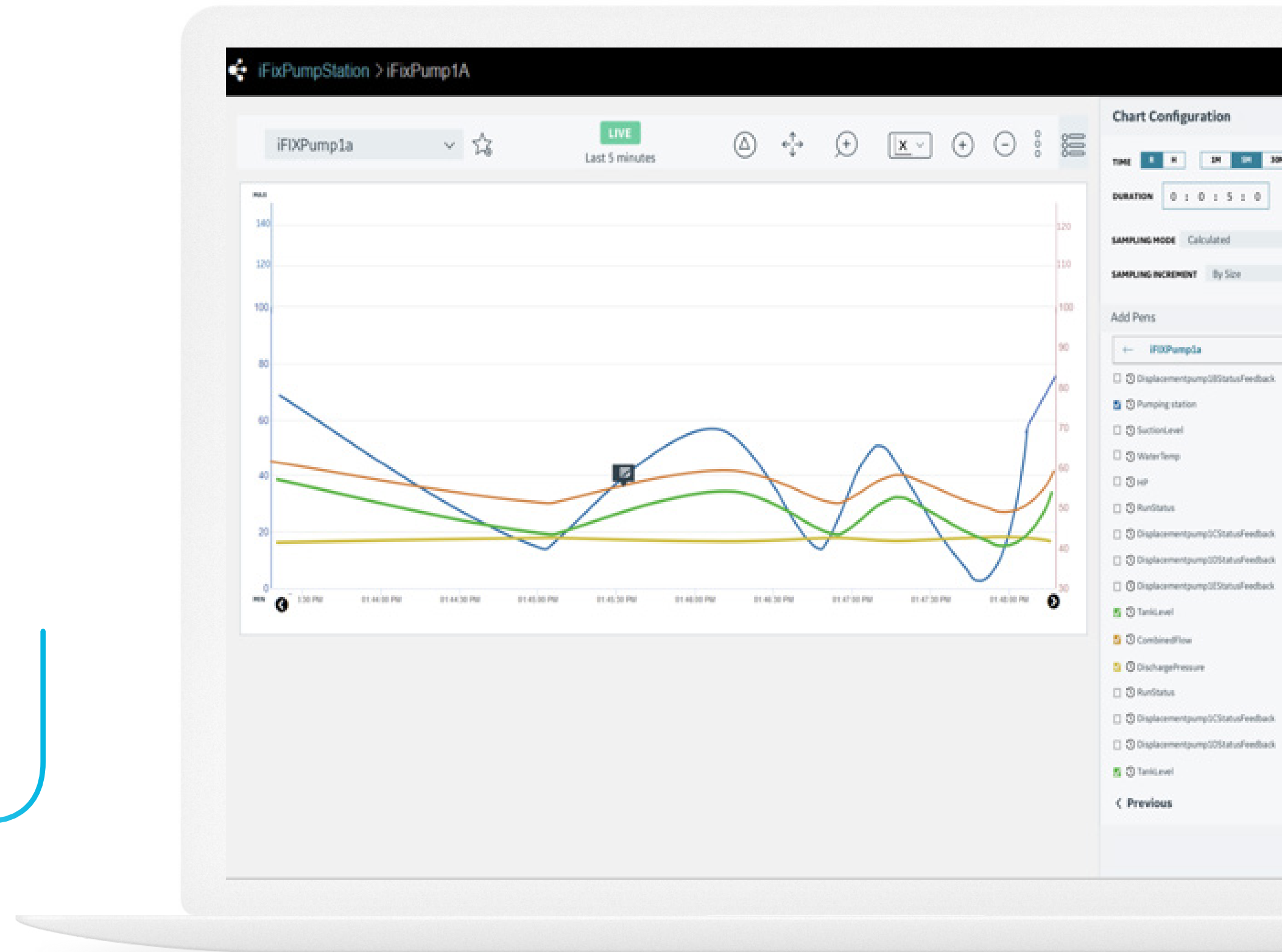


Issues with Getting OT Data in the Cloud

Obviously, cloud suppliers and other database companies have provided cloud-based solutions. Some are even focused on time series data. Unfortunately, the use case of storing web application metrics is not the same as storing high volume OT data. These solutions lack the complete functionality of an operational historian. Often, they are key value pair or RDB-based technologies which lack the capabilities of an operational historian and are very expensive to use to store high volume OT data.

The result is that industrial companies have had to make do with either expensive cloud-based storage solutions coupled with custom development to bring data to the cloud or opening up ports to enable cloud-based analytics solutions to reach down into the plant to acquire data from the local operational historians.

Neither of these solutions is optimal, but industrial organizations haven't had an alternative – until now.



World's First Cloud-Native Operational Historian

Recently, GE Digital and AWS made the first cloud-native operational historian available in the AWS Marketplace.



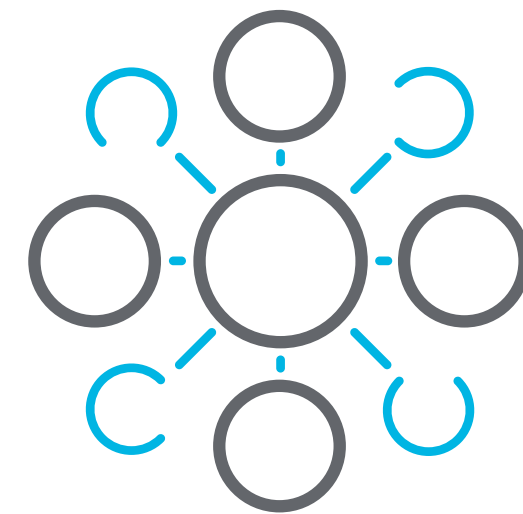
This true operational historian provides:

- Secure encrypted OT data streaming to the cloud, at up to 150,000 values per second per interface
- Store and forward to protect against data loss if the cloud or network is unavailable
- Advanced compression combined with proprietary file-based storage for very cost-effective cloud-infrastructure use

Additionally, because it is built for the cloud, GE's Proficy Historian for Cloud provides the benefits of cloud-based technologies:

- Zero downtime upgrades
- Data replication
- High availability
- Simple data integration through native interfaces to data lakes and other cloud-based analytics platforms combined with being deployed in the customer's VPC – decreasing time to value and reducing implementation costs

Whether deployed as an operational historian for a single plant or as the operational data store for an entire enterprise, this revolutionary new technology solves the riddle of enabling cloud-based analytics on high volume OT data.



Tired of paying high prices for your data historian?

For a limited time, any OSI, AVEVA, or eDNA historian customer can switch to Proficy Historian at no additional cost and save 50% on support.

Don't have a historian? Save up to 90% on Proficy Historian compared to OSI PI.*

Learn more about historian savings today!

[Claim Your Historian Savings](#)





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