PLANTFORMANCE CASE STUDY · INTEGRATION AND DATA

Streaming factory data to Azure in one click across 31 factories

A multi-site abrasives manufacturer · Abrasives

An abrasives manufacturer wanted local data from 31 factories in its Azure cloud without new security approvals per site. Plantformance built one central connection and an Ignition module that lets developers stream any tag with a click.

31
factories in scope

5 s
default send interval

10k
tags per aggregated batch

THE PROBLEM

The client wanted local factory data streamed to its Azure cloud for a scope of 31 factories. At the same time, it wanted local developers to stay free to choose what gets sent to the cloud. Nothing was forwarded yet, and adding interfaces was hard because of IT security requirements. A separate connection per plant would have meant a long approval cycle at every site.

HOW WE DID IT

Plantformance created a single data connection from a central instance, a NiFi cluster, to Azure Event Hubs. With that in place, we built an Ignition module that adds a "Data streaming" section to the tag browser. Developers select one or many tags, edit the properties and turn streaming on. From then on, every change on those tags is aggregated, compressed and sent to the cloud at a regular interval, every 5 seconds by default. A single batch can carry up to 10k tags.

BEFORE

No data was forwarded to the cloud, in an environment where adding interfaces is difficult because of IT security requirements.

AFTER

Any designer with editing rights can add or remove streamed tags with a click. Data arrives automatically in the enterprise Azure Event Hubs subscription.

RESULTS

- One central cloud connection instead of one per factory
- Local developers choose which tags to stream, with no new interface work
- Data lands automatically in the enterprise Azure subscription
- The stream now feeds multiple data applications, from performance management to AI and ML studies

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PLANT FORMANCE

NEXT STEP

Planning a project like this?

Talk to an Ignition engineer about your sites, timeline and architecture. We will tell you honestly what it takes.

Contact Plantformance

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Plantformance is an Inductive Automation Alliance Partner that helps enterprises deploy, secure, and scale Ignition across sites through plug-and-play modules, turnkey zero-maintenance HMI hardware, and 24/7 managed infrastructure.

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