CASE STUDY

DATA CENTERS / ENERGY

Flex the Grid, Not the Compute

NATS.io is the unified data plane powering Verrus's grid-flexible data centers — treating battery storage as a shock absorber for the AI era.

verrus™

"We have not only a **telemetry system**, but also a **queryable data plane** that rides the same substrate. It's **not an additional system bolted on** — and that is huge for us."

- Christopher Coco · Principal Software Engineer, Verrus

THE CHALLENGE Verrus needed real-time telemetry, battery monitoring, and a demand-response messaging backbone—but MQTT couldn't cluster natively without vendor lock-in.

THE SOLUTION NATS became Verrus's unified namespace—one open-source data plane carrying telemetry and microservices securely to the cloud.

Architectural consolidation

One system is both a telemetry system and a queryable data plane, replacing four or five tools and a handful of operators.

Operational simplicity

Running NATS has been "easier than running Kubernetes," bootstrapped via Synadia's control plane and Crossplane.

Correctness & security

Request-reply, queue groups, interest topics, and atomic matching, largely out of the box.

Synadia