

CoHendrix

Structure-Aware Telemetry Reduction

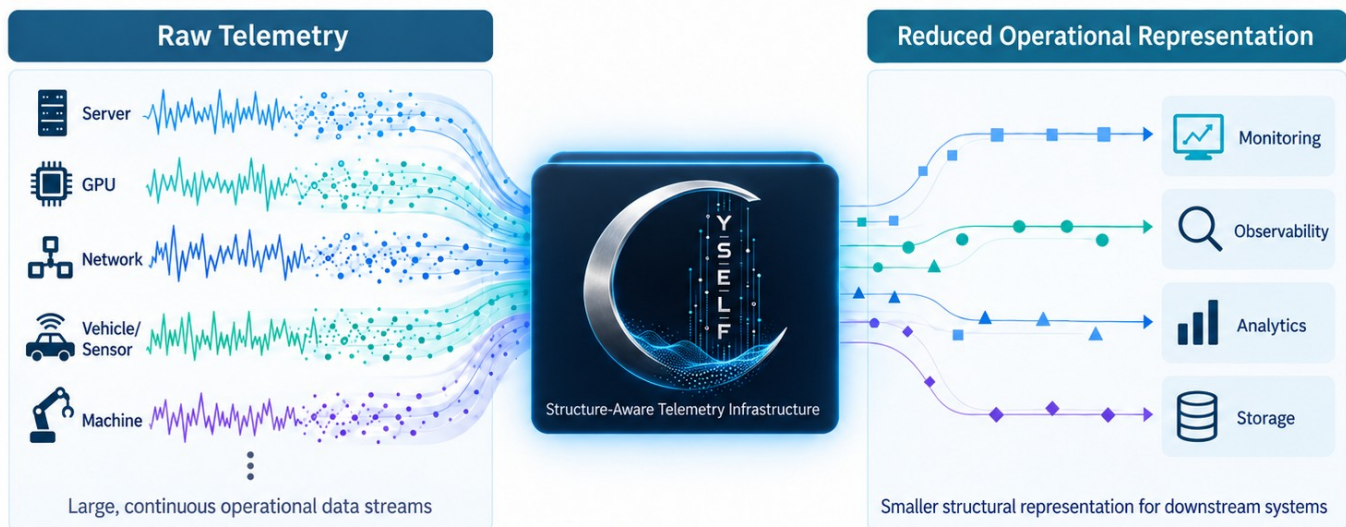
WHY THIS EXISTS

Modern systems generate enormous amounts of telemetry simply to understand whether they are operating correctly. Servers, GPUs, networks, vehicles, machines, sensors, and other complex systems continuously report utilization, performance, temperature, load, power, traffic, state, and thousands of other measurements. That information is valuable, but it also creates an infrastructure burden because it must be collected, moved, processed, stored, queried, and analyzed even when the underlying operating behavior is relatively stable.

CoHendrix was developed to reduce that burden without blindly treating every observation as equally informative. It evaluates telemetry for structural activity through time and produces a substantially reduced operational representation designed to preserve tested downstream monitoring behavior.

THE IDEA IN PLAIN ENGLISH

The amount of information carried forward depends on what the telemetry is actually doing. CoHendrix produces a smaller operational representation designed to continue into the monitoring, observability, analytics, and storage systems an organization already uses. Structural selection happens first; representation compression comes afterward. That is why CoHendrix is better understood as telemetry infrastructure than as a conventional compression product.



REPORTED RESULTS | Packaged Alibaba GPU telemetry evaluation [1]

>95%

Effective telemetry
burden reduction

>95% each

Event recall, event precision
and score correlation

>30x

Representation
compression

Same frozen engine evaluated across four telemetry datasets without retuning. [1]

Conceptual illustration. Results are evaluation-specific. Numeric representation metrics are not measured production infrastructure or financial savings.

DON'T RELY ONLY ON OUR BENCHMARK.

Evaluate the same frozen CoHendrix engine against telemetry you select.

Your telemetry stays local. No engine retuning.
Protected implementation remains undisclosed.

WHY IT MATTERS

Telemetry costs more than storage. Each observation can create work across transport, indexing, retention, alerting, analytics, and investigation. If the operational information that downstream systems need can be preserved in a substantially smaller representation, an organization gains a credible opportunity to reduce multiple forms of infrastructure burden at once.

Representation reduction does not automatically equal production cost reduction. CPU, GPU, network, storage, energy, staffing, latency, and financial effects are deployment-specific. The significance of the current results is that the reduction is large enough to make those production effects worth measuring on an evaluator's own systems.

WHAT HAS BEEN DEMONSTRATED

CES-v07 is an eight-test controlled validation environment around one frozen CoHendrix engine. It evaluates structural reduction, representation compression, streaming behavior, cross-system consistency, effective telemetry burden, downstream monitoring preservation, alert preservation, and multi-metric behavior. [2]

The same frozen engine has been evaluated across four substantially different telemetry datasets without retuning. In the packaged Alibaba GPU telemetry evaluation, reported results include greater than 30x representation compression, greater than 95% effective telemetry burden reduction, and greater than 95% each for event recall, event precision, and score correlation. [1]

Preservation is tested rather than assumed: a separate downstream-style evaluator examines the complete telemetry and the reduced/reconstructed representation, and its results are compared. The reference events come from a controlled evaluator, not labeled production incidents, failures, or production ground truth. [1]

HOW IT FITS

CoHendrix is designed to sit upstream of existing monitoring and observability systems rather than replace them. The first evaluation therefore does not require an organization to redesign its stack. It asks a much narrower question: does CoHendrix produce a useful reduction on telemetry the organization already understands?

Telemetry -> CoHendrix ->
Reduced representation -> Existing monitoring

CONTROLLED EVALUATION | THEIR-DATA

Cyself provides a local Docker evaluation using the same frozen engine as the packaged reference tests. An evaluator supplies an authorized telemetry CSV; processing remains in the evaluator's environment and the engine is not retuned. Applicable tests depend on the usable telemetry channels provided. [2]

Buyer-facing results are disclosure-controlled. They support an initial assessment of reported performance on the evaluator's data; deeper technical verification is addressed under a separately agreed diligence framework.

Certain CoHendrix technology is patent pending. Specific implementation mechanics remain protected as trade secrets. Deeper technical disclosure can occur later under separately negotiated protections if the buyer-data results justify it.

BOUNDARIES

CoHendrix is monitoring-oriented telemetry infrastructure. It is not represented as lossless compression, autonomous control, production failure diagnosis, universal telemetry compatibility, or a guarantee of production or financial savings. [1, 2]

THE DECISION

Does CoHendrix warrant a controlled evaluation against representative telemetry from your own systems? The purpose is to assess reported reduction and preservation on data your team understands, then decide whether deeper technical and commercial diligence is warranted.

Evaluate the system, not the pitch. | cyself.ai | cyselfcorp@gmail.com

Sources: [1] CES-v07 EXTERNAL_REPORT.json and EXTERNAL_SUMMARY.txt, packaged reference evaluation. [2] CES-v07 external evaluation guide, OUR-DATA / THEIR-DATA workflows and boundaries.