HPA© *for* **Calypso**

Boost user satisfaction
and streamline daily operations

Monitor and optimize Nasdaq Calypso
performance

Lower costs and mitigate risks with
seamless integration and real-time
analytics

Accelerate and safeguard strategic
projects — including upgrades,
infrastructure, business operations, and
regulatory compliance.

*Hexagon Performance Analytics© The ultimate
observability platform for* **Calypso**

Why choose HPA?

HPA empowers all stakeholders involved in managing Calypso to gain deep insights into system behavior, analyze trends, and anticipate performance issues before they arise.

By identifying high-impact areas for optimization and facilitating faster collaboration with Nasdaq Calypso teams, HPA significantly reduces response times for diagnosis and resolution during performance incidents.

HPA delivers the most relevant KPIs for Calypso at every level — from high-level health dashboards to detailed automated JVM dumps.

HPA Key Capabilities

- Continuous production data collection
- Standardized data format and content
- Ready for direct analysis
- Enables proactive maintenance
- End-to-end monitoring – from Navigators to back-end servers
- Real time alerting
- Minimal impact on CPU and response times
- 20,000 metrics collected every 15 seconds
- Storage optimization
  Example: 1 year of historical data stored within 500 GB

- Compatible with all Calypso configurations, including customized code
- No source code changes required, no reliance on logs
- Standalone solution, integrates seamlessly with existing customer observability platforms
- Designed for flexibility and scalability
- Supports Calypso versions V14 to V19

Calypso global health
Multi environment monitoring
Live mode & up to one year of historical data

Drill down analysis for each Calypso components
Most consuming objects highlighted and sorted by weight for a any period of time

Data collection

HPA includes a powerful **Data Collection** feature designed to simplify the capture of critical information on Calypso health and process status — essential for analysis by both client teams and Nasdaq Calypso support.

Data is collected across Calypso components and servers and is automatically packaged using naming conventions defined with **Nasdaq**.

Data Collection can be triggered:

— On demand: One-click trigger from the HPA interface

— Automatically: In response to predefined alerts

Each collection is tailored to the context, with options to include:

— JVM data captured by component family and/or instance

— Complete thread and memory dumps

— Full Calypso logs with specified levels and categories

— Selected configuration files, technical and functional metrics

— Historical data exports for health checks and trend analysis

Fully compatible with both native and custom Calypso components.

Data collection triggered on events or on demand. Data collection directly usable by Nasdaq Calypso Technical support

Context Tracer

The **Context Tracer** reveals the full technical and functional context of each process execution.

For any API, method, or request call, HPA offers a configurable mechanism to collect detailed contextual data in real time.

A default configuration is provided and can be adapted to client-specific needs.

Key features include:

— Automatic capture of stack traces and enriched data for major Calypso objects and extendable to custom code

— Recording of functional data such as trade ID, message ID, legal entity, risk analysis, and workflow context

— Capture of technical data such as method arguments, return values, and SQL bind parameters

Works with both native and custom Calypso code

Customizable view displaying functional data captured by the Context Tracer
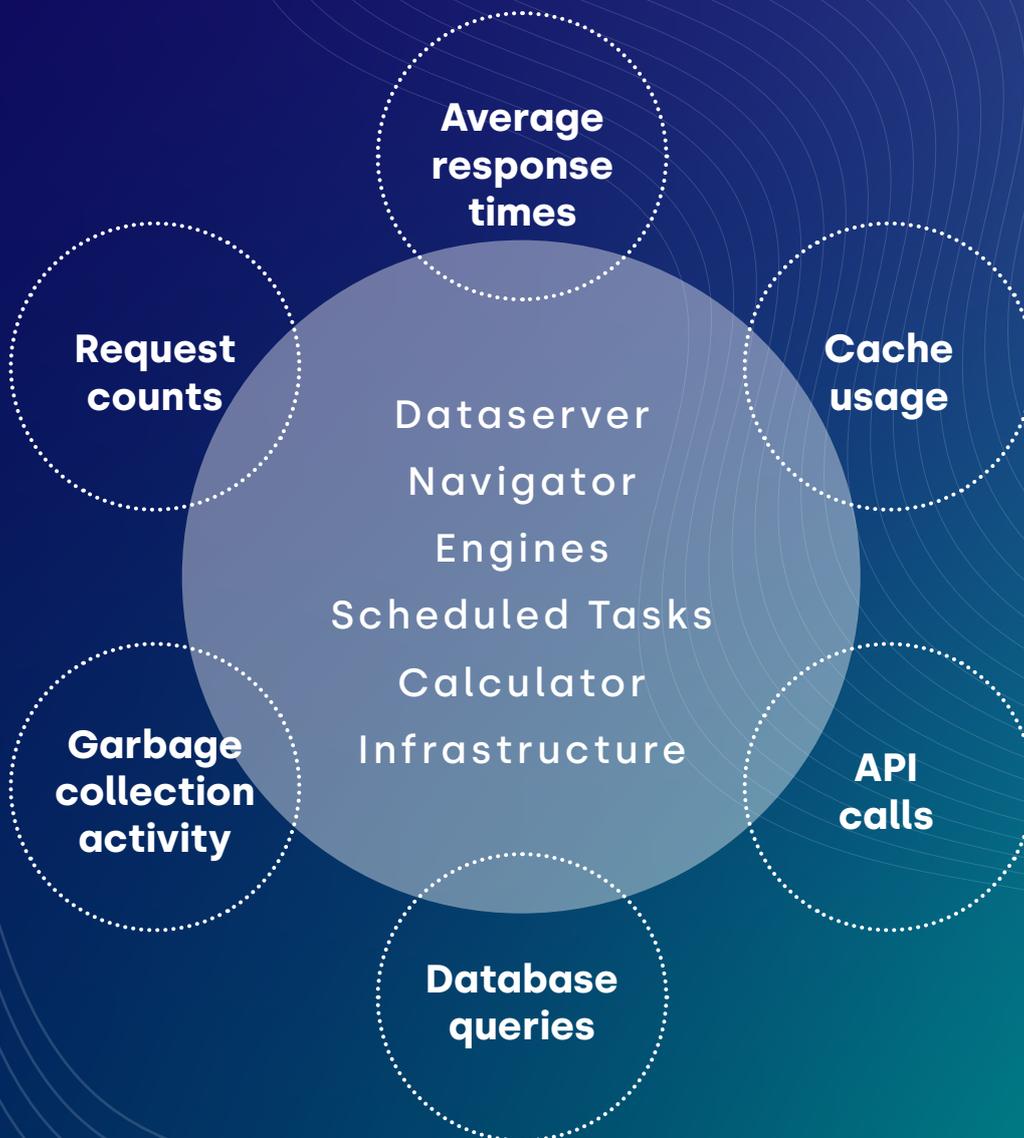

Json content with all data captured and context execution like stack trace and metrics involved

HPA
Metrics x Calypso assets

HPA delivers the most relevant metrics for all Calypso components.
"One single source of truth for End-to-End Observability"

Average response times

Request counts

Cache usage

Dataserver
Navigator
Engines
Scheduled Tasks
Calculator
Infrastructure

Garbage collection activity

API calls

Database queries

HPA
Key figures

Leverage the full benefits of a dedicated Observability platform for Calypso.

Fast installation, low overhead, pre-configured alerts, health-check and data collection automation, seamless integration with existing monitoring solution.

Less than one year pay-back.

2 hours
for installation

1 day
for full Calypso performance assessment

45 alerts
pre-configured

9 months
for return on investment. Thanks to time saved on research into the root causes of incidents (Based on customer experience using a large Calypso instance)

2%
maximum CPU overhead

90%
time reduction for data collection

Book your HPA pilot now!

Benefit from Hexagon's technology, to monitor your Calypso platform from day one.

HPA installation

— 2-hour installation

— no root required minimal prerequisites

— ½ day

Pilot Implementation

— Evaluate HPA benefits for your production and development teams

— A few weeks

Book a demo

or

contact us:
contact@hexagon-perf.com

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