

# WELCOME TO THE FUTURE OF HYPERSCALE ANALYSIS

## Meeting The Moment For 5G

The massive volume of data created by mobile, 5G and other connected sources has created large-scale data analytics opportunities for telecommunications operators and mobile service providers to develop and roll out new capabilities. This could mean developing a private 5G Network-as-a-Service offering, monetizing IoT and sensor data, increasing correlated KPIs that monitor cell performance data, or predicting the impact on bandwidth of streaming devices and products across the 5G network.

## Introducing Ociant

Built to scale to quadrillions of rows of data, Ociant's high-performance, hyperscale enterprise data warehouse platform enables telecommunications providers and mobile operators to scale big data analytics in a cost-effective manner while maintaining performance on full resolution datasets. The Ociant Hyperscale Data Warehouse executes complex OLAP-style queries and machine learning 10x-50x faster than other solutions at scale so that customers can quickly find needle-in-the-haystack insights on full resolution datasets scaling from hundreds of terabytes to petabytes.

- ✓ **Increased granularity** and extended look-back periods
- ✓ **Enriched data analysis** with a broad range of data types
- ✓ **Flexible deployment options** including on premises, in the OciantCloud™, or on a public cloud

### CASE STUDY

## Ociant powers 50x faster insights for lawful network analysis at petabyte scale while reducing costs by 60%

### Business Challenge

Leveraging network traffic patterns to detect criminal activity is critical for law enforcement. In order to power real-time insights on petabytes of data, a leading telecom provider needed to transform and explore IPFIX data from network probes in full-resolution and retain records for future analysis. The agency also required advanced data correlation capabilities at massive scale across mobile, broadband, and wifi metadata.

### Ociant Solution

Ociant provided a single platform to ingest, transform, and stream IPFIX data, making it available for query in seconds. The system scaled to enable higher data resolution and retention on the multi-petabyte dataset, and eliminated costly data pipelines, batching, and storage costs. Ociant's powerful SQL engine enabled complex queries at petabyte scale, providing the customer with the functionality to gather intelligence faster.

### KEY RESULTS

- **50x faster insights** on a full resolution multi-petabyte dataset
- **2x increase in data collected**, stored, and retained for up to 12 months
- **60% reduction in cost of ownership**
- Network intelligence generated **within minutes** for law enforcement

## Not Just Another Data Warehouse

Engineered from the ground up for the world's largest datasets, Ocient's Compute Adjacent Storage Architecture™ (CASA) for NVMe SSDs maximizes compute at the I/O layer. Built-in streaming and transformation make data available for ad hoc analysis using SQL semantics and machine learning in near real time. Ocient enables customers to co-locate mixed OLAP-style workloads on a single, unified platform, re-use data across silos, and serve thousands of concurrent users while maintaining performance. Efficient compression and erasure coding deliver enterprise-grade availability and reliability while reducing the storage footprint by 80% or more over copy-based systems.

### Leveraging Ocient for Hyperscale 5G Data Analytics

5G Network Visibility	Security & Lawful Intelligence	Network Performance	5G Monetization	Operational IT
Netflow & Subscriber-Awareness	Cybersecurity	Planning & Optimisation	Audience Building & Subscriber-Based Marketing	Capacity Management
Quality of Experience Improvement	Lawful Intercept	Bandwidth Patterns & Predictions	5G Network-as-a-Service	Cost Reduction
Location-Based Analytics	Fraud Detection & Piracy	Modeling the Impact of Streaming Devices & Products	Multidimensional Behavioural Insights	Operational Analytics-as-a-Service
App Metadata Analysis	Network Traffic Monitoring	Correlated KPIs for New Devices (4G to 5G)	Content, Feature & Service Improvements	
IoT & Sensor Data Analytics	Threat Hunting & Incident Response			

### Full-Service Data Engineering, Flexible Deployment Options

Ocient's commitment to customer success includes full-service data engineering support to design, configure and build enterprise-grade production solutions. Ocient's engineers can work closely with customers to design a pilot program and test an end-to-end working solution prior to production deployment, saving customers critical time and operational costs.

Ocient's flexible deployment options enable customers to select the environment that works best for their businesses, including as a fully-managed service on premises or as a cloud-based deployment in the OcientCloud™ or public cloud

**Ready to See Ocient in Action?**

Get in touch to book a demo: [sales@ocient.com](mailto:sales@ocient.com)

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