OCIENT FOR THE TELECOMMUNICATIONS INDUSTRY

(OCIENT)®

The telecom industry has been providing wireless services to customers for more than three decades, changing the way people work and communicate. Over the last 10 years, the cell phone has become an all-in-one communications hub supporting activities like internet browsing, shopping, social media connections, GPS/location services, streaming entertainment, and more. Providers have adapted to these new channels and methods by evolving their technology stacks, but that evolution has increased complexity across the various business functions. At the same time, costs have gone up, performance has decreased, and regulations have expanded.

Ocient combines cutting-edge technology with deep industry expertise to develop comprehensive, end-to-end solutions that address industry pain points head-on. From compliance to network security to corporate observability, Ocient helps telcos:

Simplify system architecture with built-in ETL, support for concurrent real-time and historical analysis, geospatial analytics, and machine learning.

Meet regulatory requirements with ease and obtain complex query results on streaming data in seconds or minutes.

Supercharge performance with an infrastructure designed for maximum efficiency. Ingest, analyze, and store your largest, most complex datasets with outstanding speed.

Control costs with a pricing model based on number of CPU cores used, not compute power. This approach makes the costs associated with always-on streaming datasets both low and predictable.

CASE STUDY

North American Telco Leverages Ocient to Drive High Performance Network Analytics

Business Challenge

To comply with regulations, a large telco needed to ingest millions of rows of data per second and query it within minutes, but its existing system was no longer up to the task. In addition to needing significantly better response times on thousands of daily queries, the organization was required to retain two years of network data and make it available for query rapidly.

KEY RESULTS
- **Over 1M records** ingested per second
- **15+PB** supported on a single 42U cabinet
- **80% savings** over previous solution

Ocient Solution

The Ocient Data Retention and Disclosure System, powered by the Ocient Hyperscale Data Warehouse™, enables the telco to ingest, transform, and stream call detail record (CDR) data, making it available for query in seconds. The always-on solution uses a single 42u cabinet in the customer's data center, supports geospatial functions, and handles more than 5,000 queries per day with minimum latency. It also has capacity for 3x more data than the legacy system, and it costs 80% less.

The Ocient Hyperscale Data Warehouse

Ocient's flagship product delivers outstanding performance for always-on, compute-intensive data analytics on large or complex datasets, with features including:

Zero Copy Reliability™. Ocient developed this method of ensuring reliability without replication and built it into the storage, query, and data access layers, reducing the storage footprint by up to 80% and boosting space and energy efficiency.

Compute Adjacent Storage Architecture® (CASA). By locating NVMe drives adjacent to the processor, CASA enables Ocient to unleash hundreds of millions of parallel tasks. CASA scales linearly to store and analyze trillions of data records in seconds.

Ocient Megalane™ enables users to run an extreme number of tasks in parallel, maximizing performance without requiring additional hardware.

Highly efficiency indexing. A full set of indexes, including TimeKey™ clustering, n-gram and hash, speeds querying to deliver results in near-real time.

OcientGeo™ features the industry's largest library of geospatial functions and support for up to 32 million embedded points per object.

OcientML™, a set of machine learning functionalities positioned inside the database, optimizes usability and provides easy access to current and historical data.

Get Started Faster with Customer Solutions and Workload Services

Choose our **Customer Solutions and Workload Services** offering to develop, prove, and execute a plan that delivers rapid ROI. From executing a pre-deployment cost savings analysis to facilitating the retirement of legacy systems, we'll help you make the switch with confidence.

Tap Into Deep Expertise with Ocient Management Services

With **Ocient Management Services**, our team of experts manages your Ocient Hyperscale Data Warehouse deployment so you can focus on making the most of your data. You'll get expert help with software installation, upgrades, monitoring, and more.

FLEXIBLE DEPLOYMENT OPTIONS
Deploy Ocient in the environment that works best for your business

On Premises
Deployed in your datacenter

Google Cloud Partner
aws

Public Cloud
Amazon Web Services or Google Cloud Platform

OcientCloud®
Hosted in the Ocient datacenter