



Infrastructure. Anywhere.



OPPORTUNITY OVERVIEW

CLIENT

- A World-Leading, Global Satellite Operator
(name withheld at client's request)

TECHNOLOGY REQUIREMENTS

- An IT architecture that can scale to accommodate the planned 25% increase in its satellite fleet
- Increased infrastructure processing capacity, both compute and storage, to support significant data volume increases
- An infrastructure that includes allowance for their planned migration to “big data” analysis of satellite metrics, performance and operations
- A new monitoring and reporting toolset for the company's HPE servers and storage
- Reduced VMware licensing fees
- A more standardized IT environment with automated monitoring and firmware update capabilities

INFRASTRUCTURE SOLUTION

- Hardware components included HP Enterprise (HPE) Blade Centers, HPE Gen 10 with advanced security features and a 3Par All Flash Array optimized for performance and availability.
- Software Components include HPE OneView and HPE InfoSight

A Leading, Global Satellite Operator Turns to CPP Associates and HPE to Upgrade Their IT Infrastructure to Support Their Growing Satellite Fleet

This profitable, multi-billion-dollar corporation – and world leading satellite operator - was the first to deliver a differentiated and scalable GEO-MEO offering worldwide, with over 50 satellites in Geostationary Earth Orbit (GEO) and 16 in Medium Earth Orbit (MEO).

The corporation focuses on value-added, end-to-end solutions in two key business units: Video and Networks. They connect and enable broadcast, telecom, corporate and government customers, and enrich the lives of billions of people worldwide.

As a key growth factor for a sustainable future, the company was planning a 25% expansion of their satellite fleet, and knew that they needed to add to their existing ground-based support infrastructure to handle the increased workload. In addition, the company wanted standardization, simplified monitoring, and reduced-cost management of that IT ground infrastructure. These systems also needed high redundancy, elevated levels of security, extreme performance and the ability to scale.

The company evaluated several platforms, including a Hyper-Converged Infrastructure (HCI) and a Cloud-based option as well as more traditional solutions. After talking with technology partners such as VMware, Dell and Hitachi, the company decided to partner with Hewlett Packard Enterprise (HPE) and its solution partner CPP Associates.



IMPROVING PROCESSING CAPACITY, MONITORING CAPABILITY AND STANDARDIZATION

The company's technical team consists of very experienced, senior satellite engineers. Although IT technology is just another tool for these rocket scientists, they wanted an IT expert's opinion on their IT operations, starting with a vendor-agnostic, deep-dive evaluation of their current environment, including performance, capacity, stability, cost and security.

After conducting its proprietary **Infrastructure Anywhere Assessment**, CPP recommended an on-premise solution build on **HPE Gen 10 Servers** with a **3PAR Solid State Drive (SSD)** backend. This array offered a 33% lower cost and less rack space than an equivalent VSAN solution and an even greater TCO as it related to public cloud options.

To protect the company against compromised firmware, CPP added an **HPE Gen 10 Security** which enables the company to quickly and easily resume operations from a predetermined secure recovery point in the case of a breach. This enhanced security was important to meet the company's commitment to their government customers.

The addition of **HPE InfoSight** – a predictive analytics tool built on Artificial Intelligence (AI) – gave the company global visibility and a foundation to identify and remedy potential problems before they occur. In addition to eliminating downtime, the solution cut the time that their engineers spent keeping IT infrastructure operational by 75%.

The company also extended its implementation of HPE's **OneView** "single pane of glass" monitoring and management tool. This tool helps the company by seeing all HPE servers and storage in one display, making it easy to monitor compliance with corporate standards, and reducing admin effort and risk with patches and firmware updates.

With the implementation of a new, fully integrated, on-prem HPE solution, the company's systems now featured the higher levels of redundancy, security and performance that their growing satellite fleet demands.

BUSINESS IMPACT

- With the implementation of the new capacity, the company now enjoys improved process monitoring capabilities and a more standard, monitorable infrastructure.
- The implementation of HPE's **OneView** and **InfoSite** enables the company to redirect critical engineering staff towards other revenue protecting tasks focused on improving the business use of IT data.
- The HPE on-prem solution will result in a 50% savings over the three to five years compared with a cloud-based solution, as well as a one-third reduction of the required rack space as compared to a VSAN solution.

THE ROAD AHEAD

As a result of the significant capacity expansion, the company can move forward confidently knowing they could potentially add a significant data volume to their current IT processing system before reaching utilization levels that would be problematic.

By automating both monitoring and firmware updates for their server and storage environments, the company's highly skilled engineering talent is able to redirect their attention to more mission-critical tasks that can present themselves down the road.

The trust and comfort level that the company had with the design and implementation team has positioned CPP to be their partner of choice in providing new IT infrastructure equipment as needed in the future.

ABOUT CPP ASSOCIATES

CPP Associates provides its customers and partners with responsible, consistent and repeatable solutions that will meet a customer's requirements and business needs now and in the future. Their expertise is the foundation for helping customers implement transformational IT solutions that enable revenue growth while controlling costs.

Pioneers of a new consulting approach employing their "Infrastructure Anywhere Assessment," CPP looks at various ways of deploying "cloud-like" infrastructure to maximize agility with increased utilization while at the same time, meeting demanding business requirements with a focus on technology, service level, security and costs.



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