



## Adapting to the Elements:

# How Oper8 Global Engineered a Tailored Micro Data Centre Solution for the Bank of South Pacific

In an increasingly digital world, data centre reliability is not just a need but a critical necessity for financial institutions.

Recognising this imperative, BSP took it upon themselves to future-proof their digital assets and introduced small, energy-efficient, and secure Data Centres. However, the Bank of South Pacific (BSP) grappled with outdated, inefficient, and unreliable server rooms that were ill-suited for their ambitious plans. This case study delves into the collaboration between Oper8 Global and BSP, where Oper8 Global took the initiative to design and implement a tailored Micro Data Centre solution. The objective was not only to fulfil BSP's specific requirements but to surpass them, delivering a solution characterised by adaptability, robustness, and cost-effectiveness.

## The Challenge

BSP's legacy infrastructure relied on rooms retrofitted into server rooms, cooled by domestic Split-Cycle air conditioning units. These makeshift arrangements were prone to frequent failures and led to overheating, unexpected system shutdowns, and unpredictable operational costs.

Adding to the challenge were the adverse environmental conditions in the Pacific Islands, marked by elevated humidity levels and a notable salt content in the air. These factors posed additional tests to the limitations of their current setup.

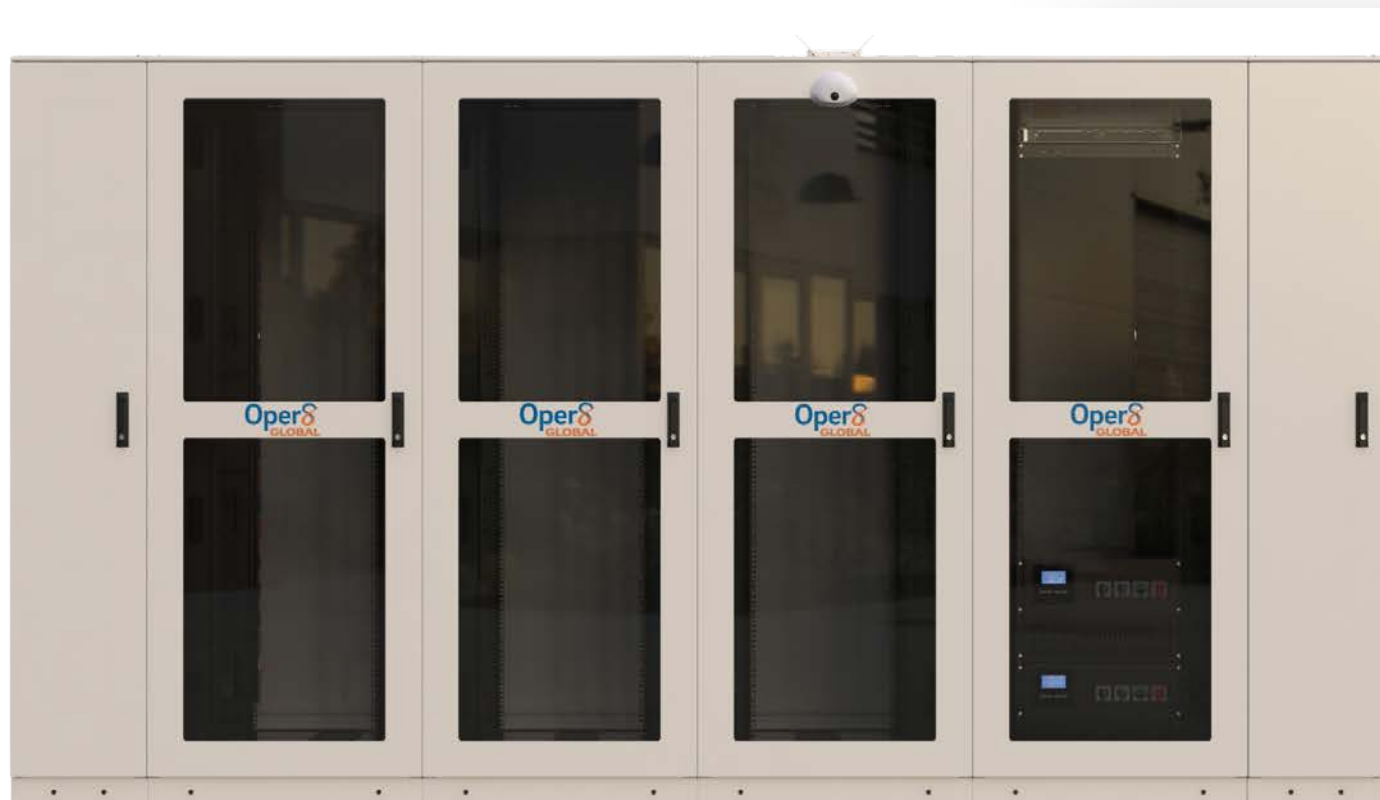
BSP sought a versatile and robust solution but found the market dominated by providers offering rigid, "off-the-shelf" options that lacked the flexibility to address their unique challenges.

# The Oper8 Global Solution

Understanding the nuances of BSP's situation, Oper8 Global proposed a custom Micro Data Centre solution tailored to meet the bank's specific cooling, power, and built-in Fire Detection and Suppression requirements, all while being engineered to withstand the challenging environmental conditions.

## Key Features

- **Adaptability:** The Micro Data Centre design allowed modular components to evolve with BSP's business needs.
- **Central Monitoring:** The solution offered centralised monitoring and management, enabling local teams to diagnose faults and facilitate prompt maintenance – See also, Bank of South Pacific (BSP): How RfCode & Oper8 Global helped Increased Operational Efficiency
- **Cost Efficiency:** A fixed-cost scheduled maintenance plan provided BSP with predictable operational costs.
- **Vendor Neutrality:** The Oper8 Global solution did not tie BSP to any vendor-specific software or hardware, giving them the freedom to choose based on their evolving needs.



A render of BSP's Micro Data Centre Solution

# Results and Long-Term Adaptability

Implementing Oper8 Global's Micro Data Centre solution brought immediate stability and reliability to BSP's data management operations. In addition to resolving the primary challenges of overheating and system failures, the solution proved adaptable over time. As BSP's business requirements have shifted for the past seven years, the Micro Data Centre solution has flexibly accommodated these changes, reaffirming its long-term value proposition.

By listening closely to BSP's unique needs and challenges, Oper8 Global delivered a tailor-made solution that solved the immediate issues and provided a long-term, adaptable data management strategy. In doing so, Oper8 Global has reinforced its reputation for delivering client-specific solutions that are both robust and flexible, even in the most demanding environments.

Oper8 Global's approach to the Bank of South Pacific's challenges is a shining example of how understanding a client's specific requirements can lead to a lasting, effective solution that stands the test of time.



*"Working with the BSP Team was a delightful experience; they had researched the market and understood what they needed, and they took an open and collaborative approach which achieved an outstanding outcome. We are proud to be associated with the BSP Data Centre projects"*

**Mike Andrea**

EVP - Oper8 Global



*"From our first interaction with Oper8 Global, it became clear that we had chosen the right partner. Their Micro Data Centre solution has proven to be fantastic for our institution, addressing our unique challenges with precision and efficiency. Beyond the technical solution, what truly stood out was their commitment to understanding our needs and their unwavering support throughout the process. Our collaboration with Oper8 Global has been one of the most fruitful and enjoyable partnerships we've embarked upon."*

**Richard Nicholls**

Group CIO - Bank of South Pacific



# Other Oper8 Global Solutions

## Micro Data Centres

Oper8 Global's Micro Data Centre offers efficient, scalable, and rapid deployment solutions for diverse environments, supporting high-density applications and edge computing with advanced monitoring, energy efficiency, and robust security in compact, customisable units.

## Harsh Environment Data Centres

Oper8 Global's Harsh Environment Data Centres provide robust, flexible solutions for extreme conditions, offering modular scalability, state-of-the-art technology, and energy efficiency. They ensure operational reliability and safety in challenging climates, with rapid deployment and adaptability for diverse needs.

## Modular Data Centres

Oper8 Global's Modular Data Centres offer a customisable, scalable, and efficient solution for modern IT needs. They provide rapid deployment, enhanced security, and energy-efficient operations, ideal for evolving infrastructure demands with advanced monitoring and robust enclosures.

## High-Performance Compute

Oper8 Global's High-Performance Compute (HPC) Solutions are tailored to meet the escalating demands of diverse sectors such as AI, research, industry, and science. Our infrastructure is designed to accommodate the rising compute and GPU loads essential in these fields. From a baseline capacity of 30kW, our systems can handle loads up to and exceeding 180kW per IT rack.

## Data Centre Monitoring

Oper8 Global's Data Centre Monitoring Solutions offer advanced, real-time tracking for colocation, remote sites, and core data centres, ensuring asset tracking, environmental compliance, and security, optimised for industries like finance, healthcare, and energy.

## Cyber Security Solutions

Oper8 Global's cybersecurity products, including CipherTrust Security Suite, Payment HSMs, General HSMs, and CERT+, offer robust encryption, secure payment processing, and certificate lifecycle management, ensuring top-notch security and compliance for diverse digital environments.

## Private Cloud Storage

CloudBox, by Oper8 Global, is a cutting-edge private cloud storage platform offering secure, scalable, and efficient data management. It merges on-premise NAS benefits with cloud flexibility, ensuring data security, privacy, and global accessibility for businesses of all sizes.



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