

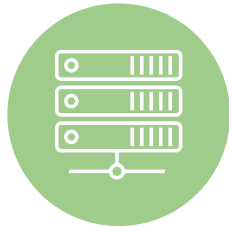
RF CODE helps DataVita to maintain SLAs with real-time environmental monitoring solutions.

DATAVITA

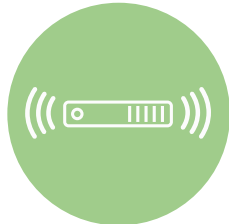
Where your data comes to life

DataVita is the UK's only Uptime Institute-certified Tier 3 data center north of London and its first life sciences and healthcare compliant data center. In commissioning this central Scotland-based facility, DataVita required a granular monitoring system which aligned well with a dynamic colocation facility – versus traditional wired BMS monitoring – to ensure efficient operations and uptime for their clients.

200
RACKS UNDER
MANAGEMENT



300
SENSORS



“

We have a 100% SLA and we pay our customers if we don't maintain that SLA for even one second. RF Code's real-time technology gives us complete transparency, which allows us to show our customers that we're hitting those SLAs
— Graeme Logie, Operations Director at DataVita

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The Problem

In commissioning their 4,000 sq. m. data center, DataVita determined that to ensure efficient operations and support their clients they needed cost effective rack-level temperature and humidity monitoring. Their service level agreements (SLA) with customers guarantee 100% uptime – if availability drops for even a second, DataVita returns 25% of a customer's quarterly fees. The company sought an experienced partner to design and deploy a rack-level monitoring solution that would protect both their customers and their revenue.

The RF Code Solution

When looking for a partner, DataVita required accurate and preferably wireless sensors for monitoring their advanced data centre facility. RF Code had the expertise in integrating with the systems and technologies specified by DataVita, and their solution had the necessary equipment and reporting capabilities to meet DataVita's needs.

RF Code deployed 300 sensors across all 200 racks under management in all live data halls involved in this project. These sensors monitored temperature, humidity, hot aisles, returns, ducting and cooling systems. The team then fully integrated RF Code's real-time data capture with the data hall cooling controls in parallel with the building management system. The initial plan was to monitor temperature and humidity across all point of delivery (POD) conditions. The scope expanded to include:

- Deploying holistic environmental monitoring and alerting
- Enhancing physical security and monitoring, including alerting to unauthorized access to racks via video monitoring
- Integrating RF Code as the primary, real-time control system for the indirect adiabatic cooling solution, and designating the cooling system control sensors as back-up
- Implementing dashboard-based service desk monitoring and alerting, with incident creation, escalation, and analysis

With this installation, DataVita was able to move from simply monitoring the building management system controllers to utilizing RF Code's real-time sensor data to dynamically control the cooling systems.

RF CODE has helped DataVita and other industry leaders save over \$100 million.

The Results

The partnership with RF Code provided DataVita with several benefits:

- 10% improvement in cooling equipment efficiency from not overcooling the environment and wasting energy
- Protection of SLA 100% uptime guarantee with easy temperature and humidity measurement and monitoring
- Immediate notification of issues to the network operating center (NOC) to prevent downtime
- Real-time notification to security team to identify when rack doors have been opened and by who
- Improved visibility and auditability of operations

Updating the environmental monitoring of this data center required a partner like RF Code that understands critical operational concerns and is able to validate the design at the time of commissioning to ensure no downtime during the project. "We have a 100% SLA and we pay our customers if we don't maintain that SLA for even one second," says Graeme Logie, Operations Director at DataVita. "RF Code's real-time technology gives us complete transparency, which allows us to show our customers that we're hitting those SLAs."



ABOUT RF CODE

RF Code's unique data center efficiency solutions give you real-time visibility into the lifecycle of your most valuable data center assets and the environmental conditions around them. Combining easy-to-deploy wire-free sensors with a dedicated and secure infrastructure and powerful data management software, RF Code solutions increase efficiency, eliminate manual processes, ensure regulatory compliance and deliver an immediate return on investment. Ensure uptime, reduce costs, and keep track of what really matters with RF Code.

ABOUT DATAVITA

At DataVita, our goal is to be at the heart of Scotland's digital economy by offering innovative, agile services delivered from the world class Fortis datacentre.. Opened in 2016 the Fortis datacentre is Scotland's largest and most advanced purpose-built colocation facility. It is also the first facility in the UK to be Tier III certified for both design and construction. Operated by DataVita, the site up to 2,000 racks, all powered by 100% renewable energy. With a PUE of 1.18 the centre can provide significant cost savings to major organisations who choose to move away from inefficient in-house computer rooms to agile colocation solutions.

Schedule a consultation today to see how **RF Code** can help you save money in your data center with our real-time critical asset tracking and environmental monitoring solutions.

Visit www.rfcode.com