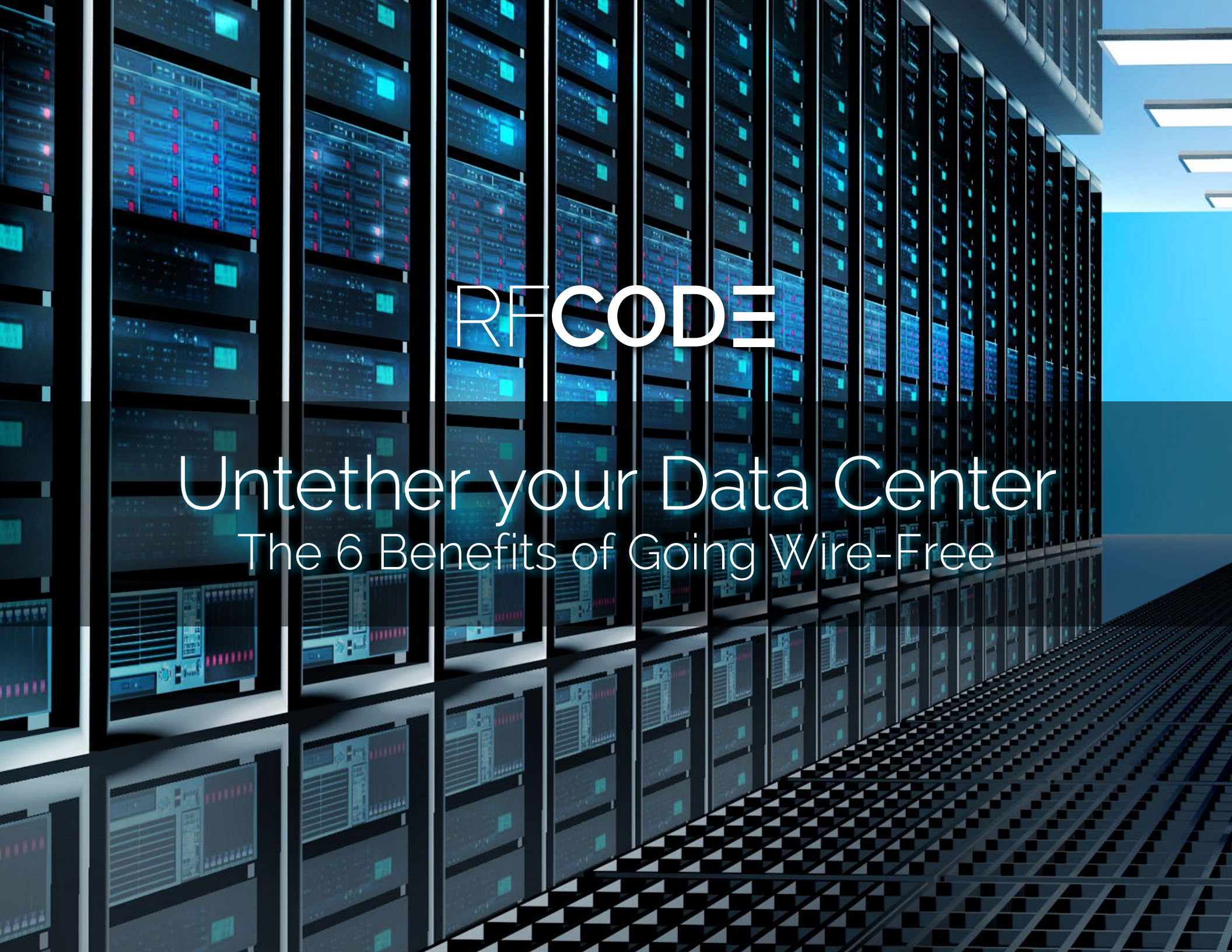




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Untether your Data Center

The 6 Benefits of Going Wire-Free

Too hot. Too cold. Too remote. Too complex. Too costly.
The challenges in today's wired data centers are endless.
IT professionals must control data center environments,
track remote locations, and manage complex and constantly
changing equipment and the wires that connect them —
all while striving to contain costs.

With these conditions negatively impacting costs and IT
workforce efficiency, companies face growing pressure to
find solutions that lower energy usage, improve operational
management, and increase IT staff productivity. As a result,
many companies are rethinking how they manage their
data centers.

One of the most effective ways to gain control and lower
costs is to lose the wires — and deploy wire-free sensor
networks. This technology offers data centers several significant
advantages that boost productivity, improve operational
management, and reduce Opex. Here are six advantages of
deploying a wire-free sensor network in your data center.



1 Lose the wires and lower your costs.

Running wires from server to server and device to device, and managing those connections is a never-ending, complex challenge. Every time a device is replaced, retired, or repaired it requires significant reconfiguration of the wiring maze. Managing this complexity takes considerable time away from IT's other important responsibilities.

The Solution

Install a wire-free sensor network which is deployed via a simple peel-and-stick application.

The Benefits

With this simple installation, adding to and changing devices becomes infinitely faster, easier, and more flexible. As a result, IT staff's time is not squandered unplugging and plugging in miles of wires. This lowers costs and frees your IT staff to engage in more important operational tasks.

2 Control your environment.

Maintaining optimum temperature and humidity around your IT assets is vital. In fact, more property damage is caused by environmental conditions such as water leakage, temperature extremes, humidity, and power failure than by theft or fire. But measuring and monitoring environmental conditions presents enormous challenges to wired data centers.

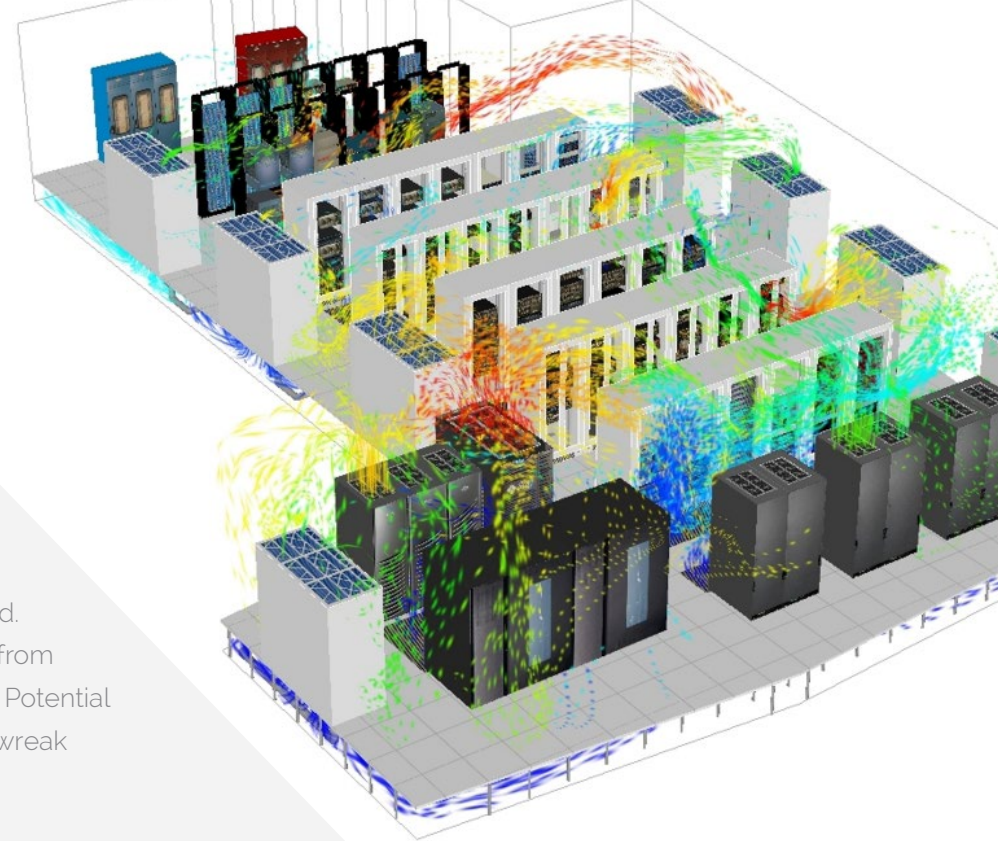
Today's smaller, more condensed, and hotter-running devices compound the difficulty. Further, the architecture of some data centers also complicates IT staff's ability to maintain optimum environmental controls.

The Solution

Leverage the real-time data from your wire-free network to accurately monitor and control environmental conditions such as temperature, humidity, and moisture.

The Benefits

Ideal environmental conditions can be easily regulated and stabilized. Additionally, early warning parameters can be set to relay warnings from remote locations when environmental conditions are compromised. Potential problems can be identified and addressed proactively, before they wreak havoc on your network.





3 Reach every corner of your network.

Whether it's in remote locations or small spaces, IT staffs have historically found it difficult and cost prohibitive to monitor 100 percent of a data center's IT assets. But, like a weak link in a chain, not being able to monitor all of your IT assets creates risk for your entire network's operation and security.

The Solution

Couple your wire-free sensor networks with readers and middleware to provide accurate coverage for every inch of every building.

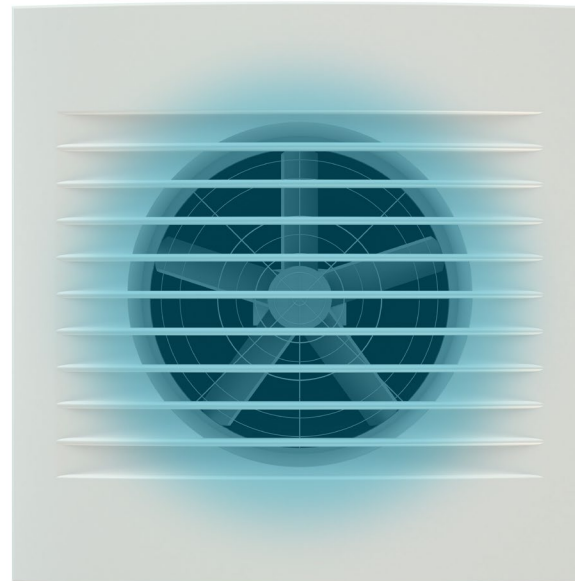
The Benefits

Wire-free sensor networks combined with readers and middleware can track sensor tags over large areas, no matter where they are located and provide the additional advantage of extending environmental monitoring into areas that were previously difficult or even impossible to reach. What's more, wire-free sensor networks' monitoring capabilities, including temperature and humidity, pressure, motion, and door status, offer comprehensive monitoring that was only previously available through physically connected measurement systems.

4 Keep cool cost-effectively.

Today's compressed technology designs are heating up data centers. Consider just one device: new blade server designs condense processing power into a smaller space. This offers several advantages and one big disadvantage: These server designs run hotter and require more power. This problem is compounded by many other compressed device designs.

All of these hotter devices mean higher energy costs to keep data centers cooler. Typically the solution is to simply run data centers at very cold temperatures. But as energy costs climb annually, data centers are tasked with finding ways to lower energy costs.



The Solution

Wire-free sensor networks offer a way to achieve greater energy optimization, because they provide the ability to micro-manage temperature and humidity levels precisely in data centers on a region-by-region basis.

The Benefits

You will have the ability to control temperatures precisely across the network, versus just blasting in more cool air everywhere. This greater level of control means greater cost savings. For example, raising rack air intake temperatures by just one degree Fahrenheit can reduce data center power costs by as much as two percent annually. But being able to determine this fine-grained level of environmental management requires the sophisticated monitoring capabilities that wire-free sensor networks provide.

5 Leverage the Internet's ubiquity.

With WiFi capabilities reaching into nearly every corner of the world, monitoring sensor networks has never been easier.

The Solution

With the accompanying wire-free network software, every condition being monitored can be viewed in real-time over the Internet, including parameters such as moisture content, relative humidity, and temperature.

The Benefits

This software capability extends vital levels of real-time access and flexibility, and ensures non-stop awareness of locations, assets, and the environment. Up to 1,400 wire-free sensors can be simultaneously monitored by one reader at a transmission range of 150 to 300 feet, depending on building construction material.



6 Boost DCIM capabilities.

Wire-free sensor networks work seamlessly with and boost the capabilities of Data Center Infrastructure Management (DCIM) systems.

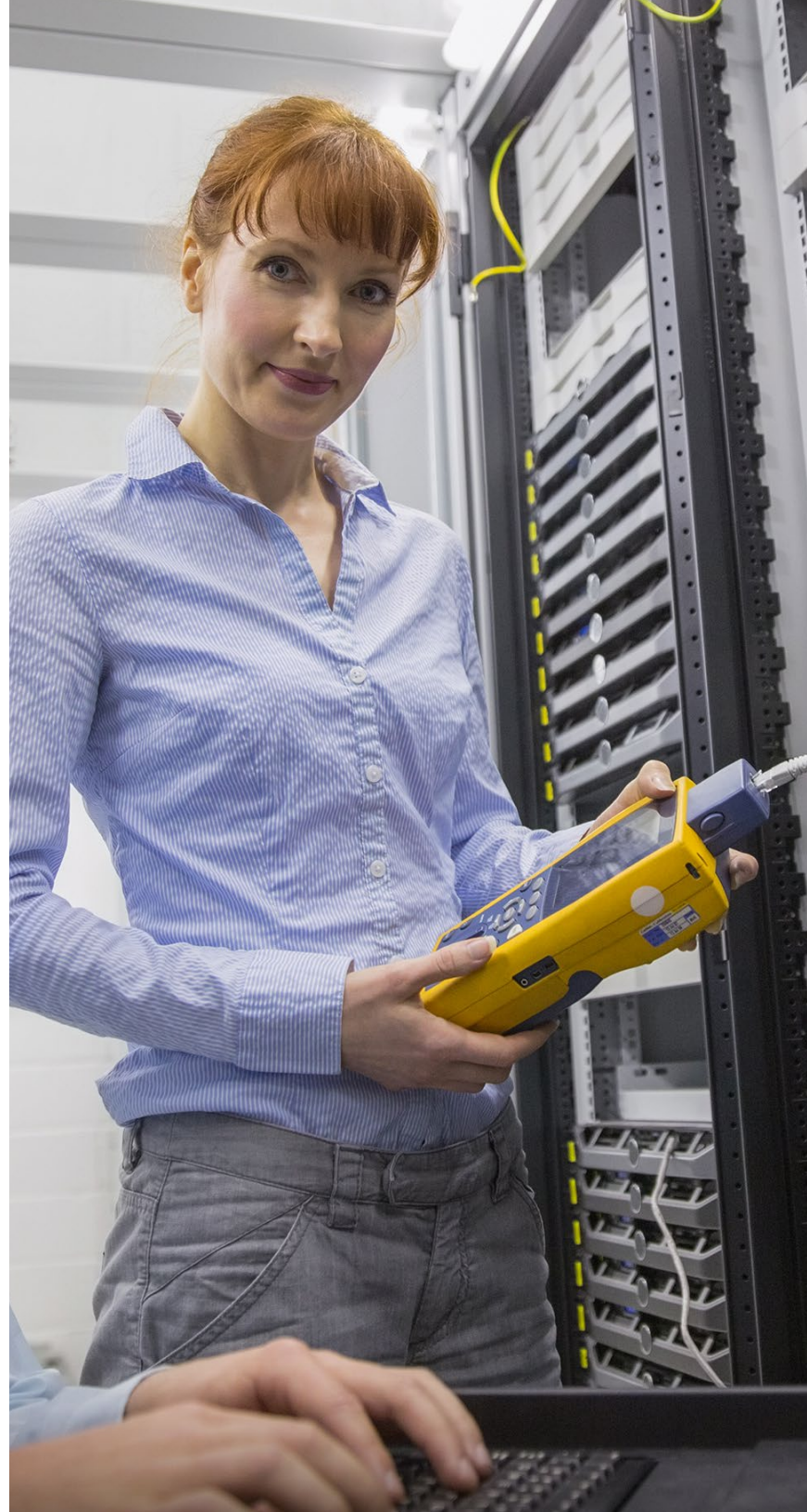
The Solution

Integrate your wire-free sensor network with your existing DCIM platform.

The Benefits

Unlike wired sensor solutions that are complex to deploy, wire-free sensors with peel-and-stick deployment are both easy and cost-effective to install. Not only is the initial installation efficient, but also all future growth and changes are simple to manage. Wire-free sensors can even be transferred from one device to another.

Sensors that feed DCIM systems critical data dramatically improve monitoring and management tasks, such as power and cooling efficiency, and capacity planning based on hardware location and equipment density inside racks.





Want to learn more? Click here to download our whitepaper, "[The Wire-Free Advantage -- Six Leading Benefits of Sensor Networks in Data Centers](#)," today.

About RF Code

RF Code provides end-to-end data center asset management, environmental and power monitoring solutions. Our unique combination of powerful software, intelligent infrastructure, and wire-free sensors reduces operational costs and protects your data center investments. RF Code solutions deliver continuous location visibility throughout an assets entire lifecycle while accurately monitoring temperature, humidity, and other key environmental factors that can damage assets or lead to costly unscheduled downtime. Featuring the sophisticated reporting, alerting, and analytics that data center operators demand, RF Code's fully automated solutions enable real-time, data-driven capacity planning and management policies that increase efficiency, eliminate manual processes, ensure regulatory compliance, save money, and deliver an immediate return on investment.

Founded in 1997 and headquartered in Austin, TX, RF Code helps manage the data centers of some of the world's largest financial services, banking, telecommunications and IT service providers, including Dell, IBM, Wells Fargo, CenturyLink, and Vodafone.

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