Automating Asset Tracking in the Data Center: Flexible Solutions for Open and Closed Rack Environments

According to the Quocirca Report, "Data Centre Asset Planning: Gaining Control of the Data Centre":

- 28 percent of data center managers do not know the exact number of servers they have
- 22 percent said it could take them up to a day to find a server that had gone down
- An additional 20 percent said it could take more than a day

Do you know where all of your data center assets are? No worries. RF Code solutions built specifically for either open- or closed-rack data centers can help. We eliminate the manual intensity, human error and disruption usually associated with server tracking and physical inventory. Instead of the inefficient and costly burden of tracking your assets using a traditional approach, we give you:

1. Dynamic, real-time, continuous inventory. You don’t do inventory. You have inventory. You’re always audit ready. Down to the rack level.
2. Real-time asset location data for both open- and closed-rack spaces.
3. Instant change management. If assets move, go into break/fix, get misplaced or are retired, you don’t need an APB to find them.
4. Bottom line protection. No longer pay for SLAs, warranties or leases on missing or lost assets.
5. Complete ROI within a year.

About our Data Center Solutions
RF Code’s IT Rack Asset Tracking solutions consist of hardware and software that work together to provide a complete solution. Our active RFID hardware—tags and rack readers—are specifically engineered for use in both open-and closed-rack fixtures in densely populated data centers. Our Zone Manager location engine software collects, compares and analyzes tag and reader data to determine the precise rack-level location of each asset. Our technology works well around metal, and tag density is not an issue.

In addition, RF Code wireless temperature sensors provide rack temperature monitoring for enhanced cooling control and door sensors facilitate rack enclosure access monitoring for tighter security. These options are available for all RF Code Data Center solutions. (See other side for description of all solution components including optional wireless sensors.)

So why spend time and money tracking your data center assets when you can focus on more strategic projects? Contact us at sales@rfcode.com. Or go to: http://www.rfcode.com/data_center_solutions.
Data Center Solutions from RF Code

Both Closed (Rack Level) and Open Door (Zonal) solutions leverage Zone Manager Software. Using a location processing engine, Zone Manager works with RF Code active RFID readers and location rules to determine the exact zonal position of each RF Code active RFID tag. In addition to physical location information, Zone Manager provides tag status (online or offline) and tag sensor information gathered from RF Code active RFID tags, and makes this data available via programmatic and subscription interfaces. This allows external applications to easily obtain asset tag data and greatly reducing the complexity of implementing an active RFID asset tracking system. As for all RF Code solutions, integration is easy because of our open API philosophy.

Managing a Closed-Door Data Center Environment:
The RF Code Rack-Level Solution

Ideal for environments with four post cabinets with doors front and rear, this solution provides close to 100 percent rack level precision. It consists of the Active Tags with long battery life and Rack Readers.

Active Tags

- R100 U-Mount Tags for standard rack-mounted IT assets.
- R110 Flex-Mount Tags for blades and tower servers.
- R120 Rack Door Tags for rack cabinet doors. These enable tracking of cabinet access attempts.
- M140 Badge Tags that track personnel in the data center at a 2-second beacon rate. It can have custom labels or printed badge labels with employee photos and ID information.
- R150 Rack Temperature Tag that monitors temperature-sensitive rack assets, with a temperature range of -4 to +158 and accurate within 2°F.

Rack-mountable R200 Rack Reader kit, including low-profile dual antenna channels:

- Lives on the IP network, giving real-time inventory.
- Easily customizable coverage area.
- An integrated rules engine reduces network traffic.
- Open APIs, making it easy to integrate into leading applications.

Asset Management in the Open-Door Data Center:
A Zonal Approach

Perfect for both two- and four-post cabinets with no doors, the Zonal solution consists of:

- Active tags for each asset (see "Active Tags" at left)
- M200 Fixed Readers
- Small Footprint and Flexible Mounting Options
- High Throughput Performance for large tag populations
- Patented Anti-Collision Technology to Manage High RF Densities
- Optional Antenna Configurations for Customized Coverage Zones
- Standard 110/220 Power Supply and optional Power over Ethernet (PoE)