Consolidated Retail and Restaurants Powered by BitBox

Retail establishments have pioneered the use of data-driven insights to drive customer insights and retention for decades, yet retail and QSR have often overlooked their physical store infrastructure as a valuable source of actionable information.

Rapidly new technologies have entered the retail space to take brick and mortar locations beyond merely being the structures to showcase merchandise. New technologies such as location services and mobile customer applications bring the customer and the retailer closer through the connectivity of information.

With all of this technology entering the market enabled by the Internet of Things (IoT), multi-site retail has struggled to connect all of the information available to allow for actionable analytics to be drawn. This is particularly complex for establishments with many locations and specialized equipment to monitor such as QSR. Beyond the typical HVAC, fire alarm, security, and surveillance systems; refrigeration, inventory, and even kitchen equipment is becoming IoT ready to further enable business insight.

Implementation of these smart technologies is a juggling act for retailers. Separate monitoring software applications are typical for different technology solutions. Data from these separate systems often cannot reference other adjacent technologies in the building or business to make intelligent decisions collectively. Often this leads to operator confusion and abandonment of well-intentioned technology solutions.

BitBox offers a straightforward path to harness data across hundreds or thousands of sites.

The Bitbox Powered Platform for Retail and Restaurants allows both an operator and franchiser to generate actionable outcomes for controlling operational building expenses; simplifying operation for store/restaurant managers, and meeting the evolving demands digital demands of customers, and enterprises alike.
Collect

One BitBox per site gathers data from all of the typical building systems in a retail establishment, including fire detection, refrigeration monitoring, kitchen equipment, HVAC, surveillance, and access control. Additionally, the Bitbox can handle data collection from advanced solutions such as indoor geospatial positioning, Point of Sale, inventory, public wifi, and a host of others. The Bitbox is a simple to retrofit appliance that easily can be installed in existing locations or new construction and requires no on-site setup beyond wiring.

Organize

Setup of BitBox equipped sites is simple and done in the cloud. Data is organized automatically in the BitEngine into a unified data-collection including all locations. Optionally, you can choose to house your data in AWS, Azure, GCP, Digital Ocean, or internal I.T. infrastructure.

Deliver

The BitAPI, driven by the BitEngine, provides a web-accessed dashboard allowing for a centralized view of all sites and performance criteria with simple to configure alarming; capable of sending SMS and email messages of out-of-bounds critical conditions. The dashboard also allows sophisticated reports to be generated to foster preventive maintenance across the portfolio. Beyond building performance; the BitAPI provides a secure GRPC or REST API to any 3rd party applications or microservice analytics providers to generate data-driven decisions. This easily enables a multitude of IoT driven services such as LUCID, Google IoT, Amazon, IOT, DGLux, Domo, various IWMS packages, and many more.