SITEALERT™ MONITORING & ANALYTICS
for the Food Industry

"Who is watching the mission critical equipment in YOUR business?"

SiteAlert™ by Gridata is a web-based business intelligence service that monitors food production equipment located in distributed sites, analyzes the data feeds for patterns and unusual activity, and creates highly effective alerts so facilities managers jump into action before small problems become costly failures.

For managers of food production facilities, the thresholds within which equipment must operate are tight. Every day presents risks that threaten the integrity of the business. SiteAlert™ finally provides an affordable monitoring and analytics solution that collects vast amounts of data from many sites, sifts through it automatically to detect emerging problems long before they cause a crisis, and create invaluable alerts so managers can avert thousands of dollars of losses.

REFRIGERATION & HVAC

Gridata has recognized that as consumers demand fresher, more organic, and increasingly diverse foods, refrigeration and comfort equipment has become mission critical for food businesses. SiteAlert™ was created to help protect inventory highly sensitive to changes in temperature, humidity, and lighting, by detecting equipment problems that are a leading cause of major losses.

AVERTED LOSSES

The type of losses that are averted with the use of SiteAlert™ include:

1. Lost inventory **($ thousands)**
2. Lost business **($ tens of thousands)**
3. Damaged reputation & slow rebound **($ 100s of thousands)**
4. Compliance in health, franchise metrics **($ entire business)**

MULTIPE SITES

SiteAlert™ is specifically designed to provide coverage of food businesses with multiple sites. The system provides convenient features like:

1. Geographic mapping of sites
2. Aggregation of data and analytics
3. Local displays for each site
4. Site-specific catalog of equipment
5. Site-specific users and roles
6. Central displays for management and service

MULTIPE ROLES

Business owners configure SiteAlert™ for different types of users in their business, and assign business functions to each according to their responsibilities. For example:

Facilities Manager – monitors real-time data from all sites, receives alerts of violated thresholds in all sites, receives results of trends and analytics about equipment and sites over time.

Site Manager – monitors daily reports from the site, receives alerts of violated thresholds in the site, reviews weekly trend and threshold reports.

Service Partner – receives equipment analytics and problem alerts.

Gridata – monitors the sensor equipment for robustness of data collection and functioning of analytics and alerts.

AUTOMATED PROCESSING

Gridata learned from early monitoring services that managers of facilities don't have the time to manage data. As a result, SiteAlert™ is a fully automated system, including all the data collection, transmission, management, processing, analyzing, presentation, and messaging. So now, managers can breathe easier and focus on their business of food.

How it Works

REMOTE MONITORING

SiteAlert™ begins with the installation of sensors in the sites of the business by your trusted equipment service partner. The sensors are selected by Gridata specifically for the challenges presented by the individual type of business. Selection criteria include:

1. Size of sites
2. Type of business
3. Ranges of temperatures
4. Ranges of power consumption
5. Types of equipment to monitor
6. Other measures to monitor
7. WiFi, WiMax, DSL, Cable, or cell

In the case where your business already has sensors or data collection systems in place, Gridata provides connection software to tap into these data sources as needed.

ALERTS & MESSAGING

SiteAlert™ allows users to easily put in place basic triggers on the data feeds from sensors at the business sites, based on thresholds in energy, temperature, humidity, occupancy, even doors and windows opening or closing – whatever activity or measure needs monitoring. Once triggered, the alerts are sent as messages to specific email addresses, phones with text capability, or a remotely controlled light or sound in the site itself. Dozens of options and configurations can be put in place to assure that the event that gave rise to the alert can be addressed.

Even more valuable are triggers based on derived information, including the results of aggregate and detection analytics.

EQUIPMENT PARTNERS

Gridata works with regional equipment partners to provide the trusted installation services and the front-line support to your business, as they always have. Our training programs for refrigeration, HVAC, electrician, and kitchen equipment technicians assure that these partners are well informed about sensors and SiteAlert™ related technology. For equipment partners who provide fast response services, SiteAlert™ can be used to send alerts and messages directly to their technicians.

TRY BEFORE YOU BUY

SiteAlert™ can be installed on a single site to start, so you can get to know the capabilities of this multi-site solution.

SECURE COMMUNICATION

SiteAlert™ sensors communicate with Gridata servers over encrypted sessions, so that your business data is kept private. On the Gridata servers, the SiteAlert™ screens are accessed via a password protected login session, identifying the individual user. Each user session is then only given the information that is explicitly assigned to that user. Users are not able to see sites, data, or dashboards that they are not authorized to.

PRIVATE STORAGE

The power of SiteAlert™ really kicks in with the analytics that can be run over millions of historical records collected over time from the sensors. This data is stored securely in Gridata databases, and kept private with a mix of industry best practices plus a proprietary privacy architecture. For example, the actual data readings are stored separately from the

location and business information, so that the readings are useless on their own.

DASHBOARD VIEWS

SiteAlert™ begins to deliver value the moment a facilities manager logs in and sees information aggregated from all the sensor readings. The screens include historical charts showing trends in the data, real-time feeds of activity in the business, and cost calculations about energy usage. The dashboard also accesses the many analytics that are subscribed to by each business, and any business metric that is selected to be displayed.

Dashboards come in several flavors: Web-based displays for your PC and laptop; mobile-based displays for your smart phone; tablet-based displays you can carry through your facilities. Each is configurable with the information you want at your fingertips.

AGGREGATE ANALYTICS

SiteAlert™ provides a wide range of summation, averaging, roll-up, statistics and other aggregate analytics that present a comprehensive overview of the sites of the business. Often for the first time, facilities managers can see real, measured trends in their equipment and operations.

Aggregate analytics also form the foundation for deep statistical analyses, sifting out effects of weather, occupation, time of day, and other effects, finally revealing understanding of how equipment and people perform.

DETECTION ANALYTICS

Using a combination of historical data, aggregate analytics, and statistical methods, SiteAlert™ detection algorithms process new data as it comes in from the monitored sites, constantly looking for signals and outliers that indicate events of all kinds. Initially, the system presents detected events in a manner that allows users to confirm each event. Over time, it uses these confirmations to refine the detection. When a facility manager grows confident that detected events have a high chance of being correct, the user can link the event detection to trigger an alert, and send out messages to users.

SMART METER CONNECTION

SiteAlert™ includes sensors that can connect to the utility's Smart Meter, if the utility has enabled its communication features. With this capability, the system can present the information sent by the utility, in real-time to your convenient location.

ERP INTEGRATION

Over time, the information created by SiteAlert™ becomes valuable enough to consider integrating into your primary business systems. Gridata supports standard webservice integration capabilities, so that such integration is straightforward to accomplish.

SERVICE PARTNER INTEGRATION

The alerts and messages from SiteAlert™ are immediately useful to the service partners who support the equipment in the business, and can be configured to reach them without special integration. The next step for some partners is to proactively review performance information about the equipment in the field, allowing them to offer better response times, reduced outage times, and preventive maintenance contracts. SiteAlert™ webservice integration can enable analytics to flow directly into the work order, customer information, or other systems used by service partners to deliver on their promise.