

## McKesson Delivers Pharmaceuticals Safely & Reliably with Standardized Environmental Monitoring in over 90 Distribution Centers

Founded in 1833, McKesson is the oldest and largest healthcare services company in North America. McKesson supplies branded, generic, and over-the-counter drugs to over 40,000 customers comprising more than 50% of U.S. hospitals and 96% of the top 25 health plan providers. McKesson's healthcare solutions provide one-third of all medications used every day across North America. As a national leader in pharmaceutical distribution, the company incorporates innovative technological solutions — such as electronic order processing, computerized merchandising, and asset management tools. These and other McKesson solutions ensure safe, efficient, and GDP-compliant distribution services.



*McKesson provides distribution, network infrastructure, and technology solutions across every segment and setting in the health care industry.*

### Challenge

- McKesson needs accurate monitoring and dependable alarming to ensure that products are continuously stored, processed and handled within product specifications.
- To ensure compliance, McKesson needs easily generated reports that prove adherence to regulatory requirements and satisfy the various auditors, sponsors and inspectors that visit McKesson throughout the year.
- To manage environments, the company needs a system to provide real-time information to personnel on environmental trends and any out-of-tolerance conditions.

### Solution

- The Vaisala Continuous Monitoring System provides secure, permission-based access from any PC on McKesson's existing network.
- Flexible, user-selectable notification options allow alarms to be sent via e-mail or text to PCs and mobile phones.
- Vaisala's CMS provides redundant recording: data logger histories are stored on McKesson's server, in the user's PC and each data logger's memory at the point of measurement.
- Reports are compliant with FDA 21 CFR Part 11, including audit trail and several graphing/reporting options.
- In accordance with regulatory guidance, the CMS has full IQ/OQ validation protocols.

### Benefits

- **On-Time** - McKesson's goal of a fully operational monitoring system within two years was achieved.
- **Regulatory Compliance** - Quick, easy reporting allows McKesson staff to prove compliance to multiple governmental and regulatory agencies.
- **Reduced Risk of Product Loss** - Managers now have more awareness of changing and baseline conditions with real-time trends and user-configured alerting.
- **Quick ROI** - Fast return on investment: 18 months from system implementation.
- **Below Budget** - Final costs for system installation were below initial estimates because of a lean, efficient deployment.

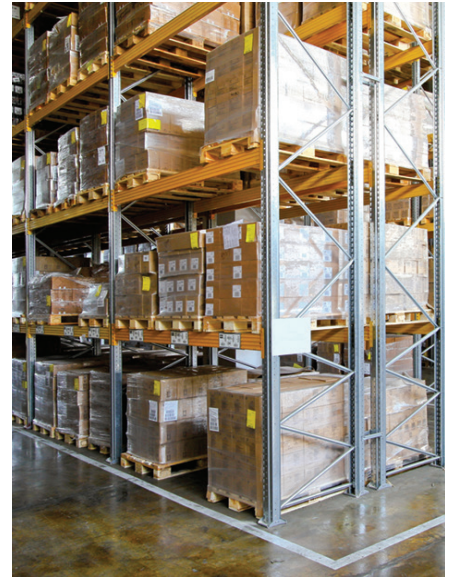
In 2011, Regional (U.S.) Facilities Manager Joe Cwiertniewicz initiated a vendor selection process to find a contemporary solution for monitoring temperature and humidity conditions in McKesson's refrigerators, freezers, warehouses and other controlled environments. Cwiertniewicz and his team evaluated several different monitoring systems through a review process that included the installation of four competing systems for testing in various McKesson environments. Each of the systems evaluated had to fulfill McKesson's criteria.

One of the systems tested, although trusted in life science applications, had a dated user interface. Another system had excellent instrumentation, but limited reporting in terms of simplicity and customization. A third system had adequate software and reporting capabilities, but couldn't offer support services to match the full span of McKesson's operations.

Cwiertniewicz and his project team selected the Vaisala Continuous Monitoring System (CMS) because it provided the capabilities McKesson required, including automated and customizable reporting, the ability

to install and validate the entire system, and on-site calibrations. These product attributes improve operational efficiency and greatly enhance the firm's environmental control capacities.

Cwiertniewicz, a thirty-year veteran of facilities management, says that reporting features were critical in the decision to go with the Vaisala CMS. "Once we learned that we could set up automated reports, we saw a significant time-saver. The staff would no longer need to go in and process reports every month. The system automatically generates and emails our reports," says Cwiertniewicz. "When you need to show compliance to multiple governmental and regulatory agencies for 2,273 temperature or humidity channels, quick reporting is a necessity."



*"The Vaisala team is well qualified, easy to work with, and became a part of our team. This relationship was a major reason that our original goal of project completion within two years was met."*

*Joe Cwiertniewicz, McKesson  
Facilities Manager*





Another important difference between Vaisala and the competing monitoring systems was Vaisala's ability to support the installation and validation of the system in McKesson's network of facilities comprising sixty distribution centers throughout the U.S. "We set an aggressive timeline to get the system operational," says Cwierniewicz. "Our original plan was to switch our facilities over completely to Vaisala's system and devices by July 2013. We met that objective because Vaisala was able to support the effort with installation, validation and technical support."

Cwierniewicz knew that a large-scale installation has an inherent risk of overshooting time and budget allocations. He says that the successful system installation within the project

timeline was due to shared effort between McKesson and Vaisala.

Cwierniewicz says, "The Vaisala team is well qualified, easy to work with, and became a part of our team. We shared the sense of responsibility to meet the requirements by the deadlines." Since the installation, Cwierniewicz says that McKesson managers are more aware of changing and baseline conditions in their areas of responsibility. They can see the trends in real-time, which gives them an in-depth understanding of their environments.

Cwierniewicz notes a fast return on investment since the Vaisala CMS became operational. He calculates that, without device calibration, the Vaisala system installation resulted

in total payback within 18 months. The successful teamwork between the companies has benefitted Vaisala as well; the McKesson team has been able to work with Vaisala software developers to further improve the system. "We support each other," says Cwierniewicz. "We can offer guidance to Vaisala on optimizing user experience with their software, especially for large installations, and they give the kind of support that guarantees our system is up and running, 24/7." Both McKesson and Vaisala are large, stable companies whose combined existence spans nearly three centuries; these characteristics created a collaborative partnership whereby both companies are improved.

**VAISALA**

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