

# HEALTHCARE USE CASE

## **VERTICAL: HEALTHCARE**

### **TOPIC: REFRIGERATOR AND FREEZER TEMPERATURES**

#### **POTENTIAL CHALLENGE:**

- Loss of vaccine, medicine and samples due to unexpected medical refrigerator and freezer downtime/temperature changes causing an impact on medical facility budgets
- Nonconforming refrigerator systems may lead to improper storage and handling of vaccines
- Instability of samples and skewed test results from bacteria growth
- The need to have refrigerators monitored and fully operational 24/7

#### **POTENTIAL SOLUTION: NAGIOS XI**

#### **POTENTIAL RESULTS:**

- Increased quality of care by reducing the impact of altered laboratory results
- Ensure compliance with security and safety regulations
- Proactive awareness of temperature changes with Nagios XI notification deployment
- Refrigerators online and functioning 24/7

## **THE CHALLENGE**

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Laboratory refrigerators, used by medical facilities and professionals, are of the utmost importance. A laboratory refrigerator stores important materials such as samples, vaccines and medications. Minor temperature fluctuations can impact the stability of samples and potentially cause harmful bacteria growth, skewing test results and posing health and safety hazards. Additionally, the loss of medical vaccines and medications would significantly impact the budgets of medical facilities due to replacement costs.

The increased need to have medical refrigerators fully operational 24 hours a day creates many challenges related to deployment and management of all systems. Hospitals, surgical centers, doctor's offices, urgent care clinics and nursing homes are under constant pressure to provide top-level quality care to people in their facilities and must maintain proper medications and vaccines in order to do so.

## **THE SOLUTION**

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Medical facilities are in need of a solution that extensively monitors critical medical equipment and ensures optimal performance. Maintaining efficient vaccine storage and handling according to medical guidelines ensures compliance with security and safety regulations. Proactive awareness of any equipment changes give staff the opportunity to respond immediately. Because Nagios XI can monitor just about any device, Nagios XI anticipates any issues that may arise, reducing refrigerator downtime and ultimately reducing loss. From brand name, network attached medical refrigerators speaking SNMP, to lower cost solutions used to fill a gap and monitored with ad-hoc microcontrollers like the ESP32 chip, Nagios XI can monitor the full gambit.

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Nagios XI is the most powerful IT infrastructure monitoring and IT monitoring software alerting solution. By going beyond basic IT monitoring software capabilities, Nagios XI provides organizations with extended insight of their infrastructure before problems affect critical business processes. By deploying Nagios XI in medical facilities, they can benefit from Nagios XI's comprehensive monitoring and alerting capabilities.

## **THE RESULT**

By implementing Nagios XI, medical facilities can receive instant notifications of medical refrigerator temperature changes and loss of power. Once alerted, IT staff can resolve problems quickly, thus lessening the impact of unstable samples and spoiled vaccines and medications.