

Reliable and high-quality control of temperature and humidity with constant access to monitoring data is an important condition for storing of thermosensitive drug and raw materials for medicines. The Vypin team has implemented a solution for a global pharmaceutical company. The IoT app has helped to optimize processes and costs.

CLIENT

Pharmaceutical company

MAIN REQUEST

24/7 access to the monitoring data, and notifications

MUST-HAVE REQUIREMENT

Data loss is unacceptable and critical

Outcomes

+36% energy efficiency

+24% profit



Problem

for pharmaceutical manufacturers, in particular regarding the storage conditions and the control system to comply with those restrictions. More about FDA regulations The customer asked Vypin to replace the current system. The previous one doesn't meet

The Food & Drug Administration (The FDA) has strict requirements and recommendations

the FDA standards, which leads to fines and the potential risk of drug or components damage. As they say in the medical field, the patient had certain complaints. First of all, the one related to the data loss. The existing devices could go offline for various reasons (from network issues to power outage). Respectively, the transmission or recording of telemetry was not happening, while the client knew nothing about these losses. And this was the second complaint. The current system has not been providing a notification mechanism. In addition, monitoring data was not accessible remotely. Therefore, in the scheduled environmental monitoring reports there

were gaps in the tables and graphs. The FDA to fine for such violations. And round-the-clock rotation of operators to control the temperature and humidity in the warehouse is not the best solution, agree?

easily fulfilled our requirements. It is easy to adapt, has highly flexible implementation options and includes a broad suite of integration and visualization capabilities out of the box.

The ThingsBoard platform has, within a short space of time,

Oneserve Limited

CTO of smart energy management platform

Mark Hunt

Solution



Diagnosis has shown that the existing solution of the client doesn't meet the basic criteria: it is not reliable and not always user friendly. To solve

Installed sensors and gateways throughout

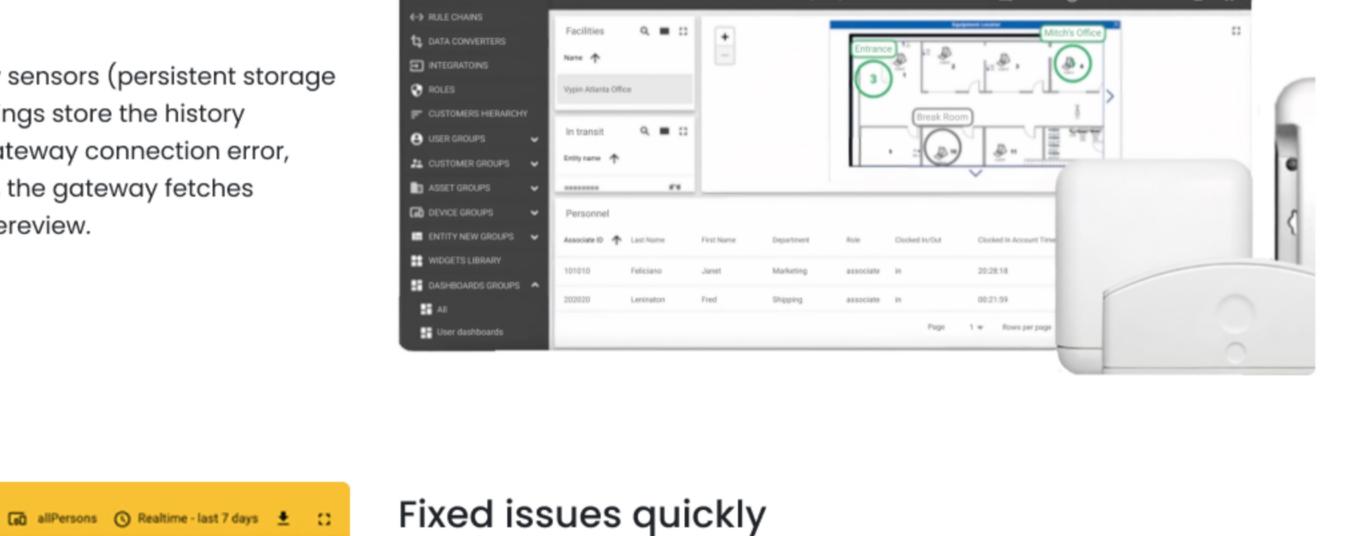
the problem, the Vypin team proposed an integrated Vypin-Whereview system (powered by ThingsBoard). The company built a wireless network, installed sensors and gateways.

If we recall the initial issue (data loss), with new sensors (persistent storage enabled) the problem has been solved. New things store the history

db v1.0 Alarms

No data loss

of readings on the device itself. Now with the gateway connection error, the data loss doesn't occur. When online again, the gateway fetches the accumulated telemetry and sends it to Whereview.



Q = m B :: Person Alarms Created time 2020-03-16 Q = m B :: Device Alarms Realtime - last 7 days 2020-03-16

The application, built on ThingsBoard platform, solved the remaining customer's problems. First of all, the responsible employee of the client

the warehouse

got access to the monitoring data at any time. Managers also received the required access. To see the Dashboard with graphs and tables, it is enough just to open the corresponding tab in your own browser and log in. It makes sense

to highlight that based on the Rule engine and Device profiles Vypin set up a notification system. In case of violations of the specified conditions (for example, exceeding the temperature thresholds), those who should be aware of these violations are received notifications. This allows you to respond instantly and even take preventive measures.

Conclusion

Everyone understands that it's better (easier, cheaper, less time consuming) to prevent a disease than to treat it. With the new warehouse monitoring system, the client (patient) has the opportunity for prevention. "With the help of Vypin's sensors and Whereview backend software, any abnormalities in the temperature or humidity in the environment were instantly highlighted and alerts

were sent were instantly highlighted and alerts were sent to our customer's personnel

to immediately address the problem."