

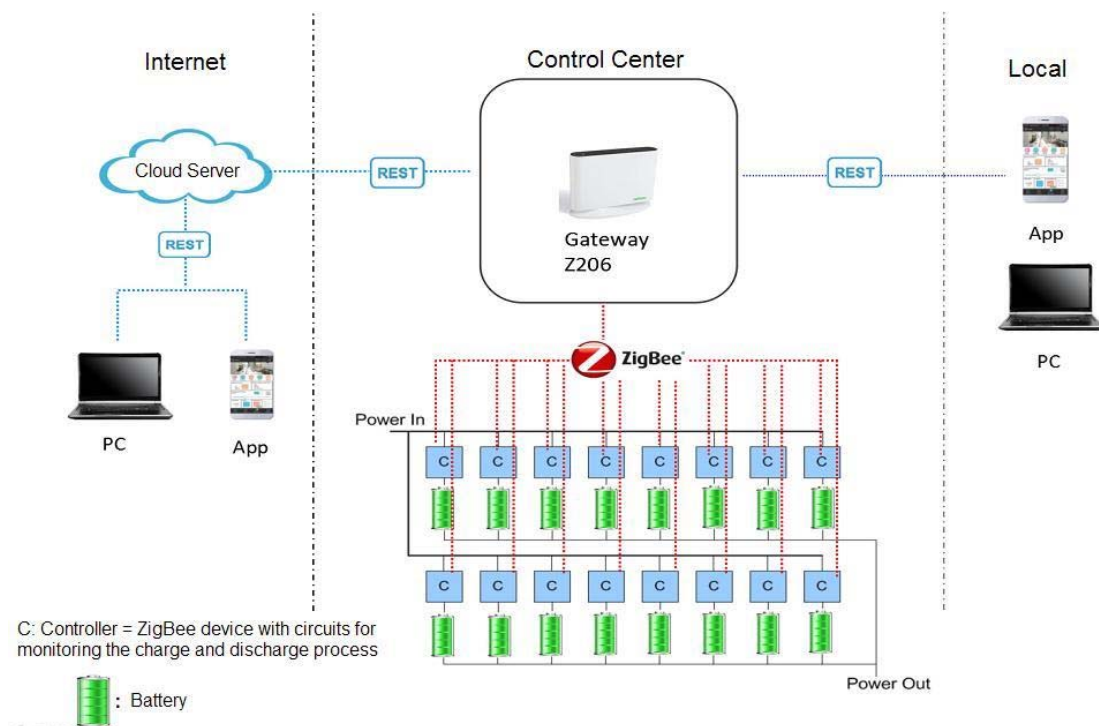


IoT Battery Monitoring Solution -- Real-time Monitoring and Emergency Treatment

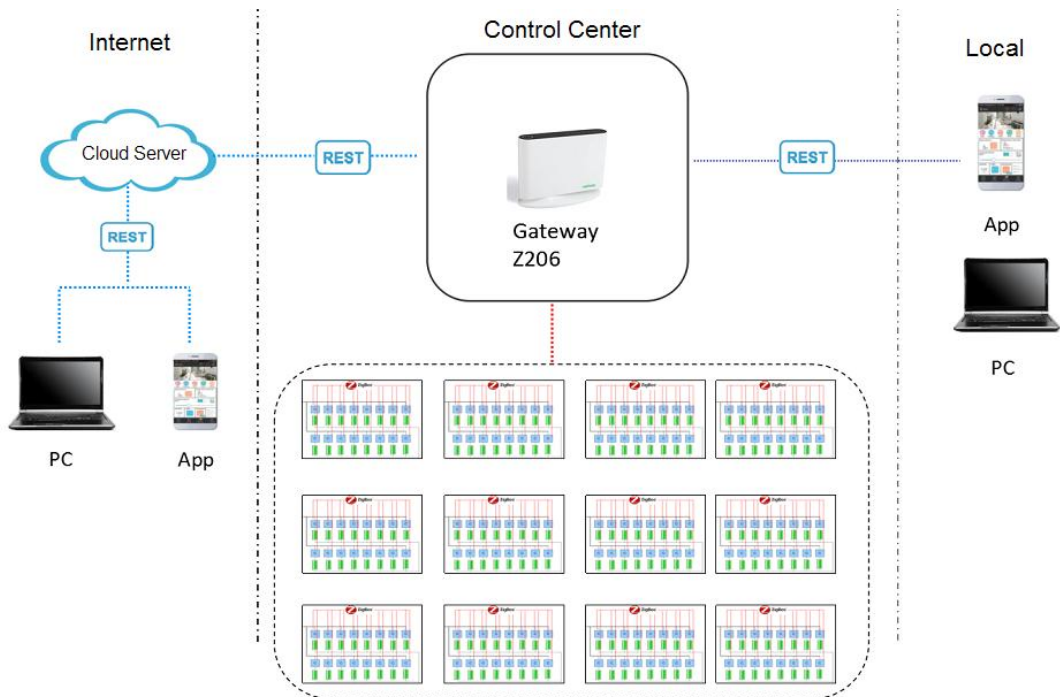
In the discharge and charge process of batteries, Netvox IoT Battery Monitoring Solution provides real-time data collection and device status monitoring of multiple sites simultaneously from the same software. The system will send an alert as soon as an emergency happens for timely emergency treatment and ensures normal operation of devices and safety in manufacturing.

IoT Battery Monitoring Solution – System Diagram

- 16 batteries per tray



- One gateway Z206 can monitor 192 batteries (12 trays)



Application Scenario:

Requirement: Monitoring the discharge and charge process of 6400 batteries (16 batteries per tray)

Netvox Solution:

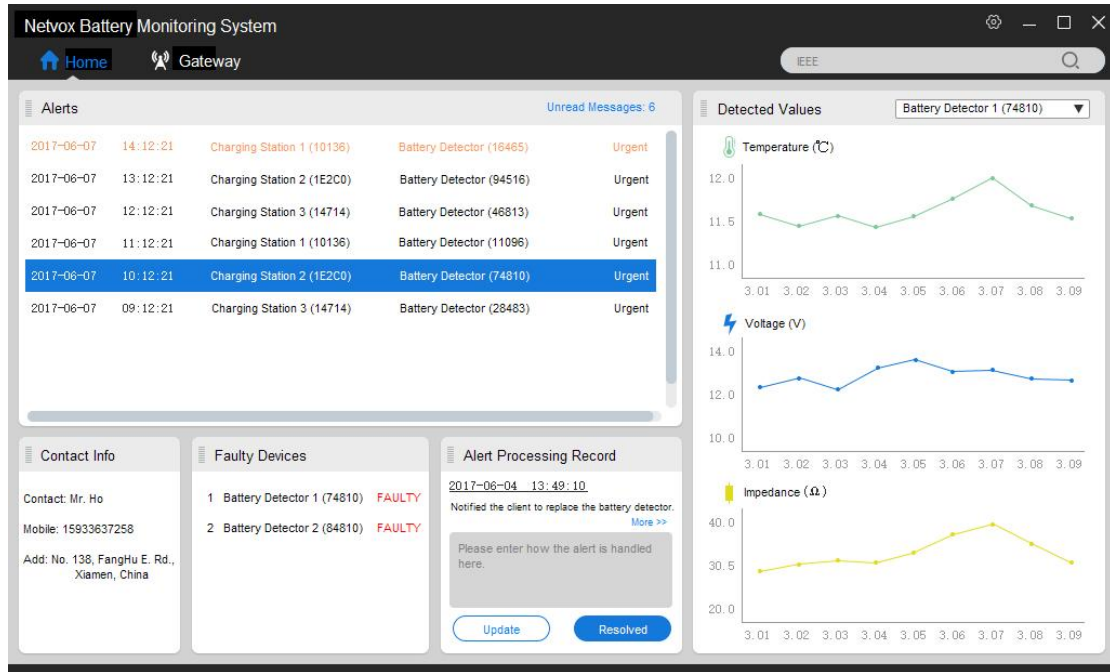
1. Cut off the power supply automatically if abnormal charging/discharging is detected.
2. Integrate the detector with sensing modules for monitoring the battery voltage, impedance and temperature change.
3. Send alerts automatically if abnormal charging/discharging is detected.
4. Set the threshold values for the battery voltage, impedance and temperature change for rule-based alert or set the interval for periodic report.
5. The 6400 batteries are placed on an 80m long, four-storey shelf.
6. Each gateway transmits data every 2 seconds.

7. Achieve real-time cloud-based data collection and perform statistical analysis with Netvox PC software.
8. Ensure stable data transmission with reliable wireless technology.



Features of Netvox PC Software:

1. Monitor the data and status of many devices simultaneously from the same software.
2. Detect the battery voltage, impedance and temperature changes of the batteries.
3. Immediately alert users of abnormal discharging/charging for timely emergency treatment.
4. Check the devices bound with different gateways on different sites by switching the gateways.



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