

Everest ensures Reliance deliver uninterrupted high speed 4G data connectivity

SOFTWARE

Everest IOT Solution

SERVICE

Training &
24x7 Support

THE CHALLENGE

Reliance Jio Infocomm Limited, or **Jio**, is an LTE mobile network operator in India. As one of India's leading telecom operator, Reliance Jio constantly strives to create a better tomorrow, this time by ushering in a pan-India digital revolution through state-of-the-art wireless broadband 4G services, promising to bridge the digital divide.

RJIL's heterogeneous architecture for its 4G backbone network led to the main requirement of integrating IPMS / SMPS with the central alarm monitoring application at their NOC, along with monitoring of various field level entities of a 4G Tower like BMS, Energy Meters, DG Sets, PAC Units, Access Control System, Fire Alarm System etc. Apart from this RJIL was facing frequent power outages leading to outage time greater than 50% and High Annual maintenance costs. With an increased number of maintenance visits by site engineer, site security issues and fuel consumption increased too.

Everest's Real Time 4G Tower Utility Monitoring Enables An Uninterrupted High Speed Internet Access

RJIL - Reliance Jio Infocomm Limited, a subsidiary of Reliance Industries Limited (RIL), India's largest private sector company, is the first telecom operator to hold pan India Unified License. This license authorizes RJIL to provide all telecommunication services except Global Mobile Personal Communication by Satellite Service.

No doubt Internet has become the most "in" thing in today's world. But the need to be connected to the web anytime anywhere at the highest speed provided by the ISPs has become a basic necessity of life for every person.

THE SOLUTION

Reliance Jio deployed multiple equipment like BMS, SMPS, DG Sets; with sensors (Energy Meters, Fuel Sensors, etc) at multiple sites. Keeping in mind the vast spectrum of sites Everest provided a framework to monitor these equipment along with their respective parameters. This Framework, catered to RJIL's specific operational needs. It effectively collects 250+ statistic details per device and monitors them through a single platform. Along with data collection from devices located across 100,000+ sites it also stores the data in a centralized database and displays real-time value on a unified dashboard. Everest detects the performance alerts against the thresholds defined and export the alerts to central alarm management server via SNMP Trap to a 3rd party tool (which was already deployed in their network).

Following key parameters are being monitored

BMS - Current, Voltage, SOC / SOH, Temperature

SMPS - Load Current, Battery Current, DC Voltage, DC Current, DC KWh, Input Line Voltage, Mains Cumulative KWh, Battery Cumulative KWh, Manufacture Name, Serial No & Version

Energy Meter - Power KW, Energy KWh

DG - DG KWh, DG Run hours

Various Business-Critical Reports like :

- Energy Consumption Report
- Diesel Usage Report
- Vendor wise Report for Battery or SMPS
- Facility wise Parameters Report

THE PAYOFF

- Minimal or No Business Downtime
- 24 X 7 Monitoring and Response
- Predictive and Preventive Maintenance
- Run-hour Optimization for Diesel Generators, Energy Meters, and other equipment
- Real-time Performance and Availability Reports of each Tower Utilities
- Detection of Faulty Equipment sold by Vendors
- Reduced Billing overloads by the usage of Reports generated
- Ensured High Speed Data Connectivity for RJIL's targeted Key Domains
- Enabled to provide Rich Communication and Digital Services
- A significant increase in Customer Satisfaction and New Businesses

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The flexibility of Everest to extend its monitoring capability to SMPS, DG sets, Energy Meters, Fuel Cells, and provide custom on-demand reports exactly as per the required templates is what makes it stand out from the rigid monitoring tools of the past. Add to this, the ease with which it scaled up to 1,00,000+ devices convinced us that we had made the right decision in choosing Everest. This is surely a new-age monitoring tool to look out for.

--- **Manoharan Rajbhushan,**
Reliance Jio Infocomm

Highlights

- ✓ Bulk Discovery through CSV Upload
- ✓ Immediate conversion of Alarms to SNMP Trap Notifications
- ✓ Customized Tower Utilities Reports
- ✓ Improved Billing from Everest Reports
- ✓ Everest Integration with existing 3rd Party Tool

Everest is a Unified IT Infrastructure Management Solution that helps Simplify Network, Infrastructure & Systems Management by Monitoring, Managing and Optimizing System Performance and Availability across Heterogeneous IT Environments. Everest is enterprise-Proven and ensures smooth running data-centers both on-premise as well as on cloud.