

April 24, 2018

Customer

A state owned enterprise and one among the biggest telecom operators in Southeast Asia..

Problem Statement/Requirements

Over 20,000 cell towers being remotely located across Geographies at third party property owner locations, customer was facing limited control and inability to monitor the cite status such as Temperature, Fire alarm, Security, Access control, Battery health etc.

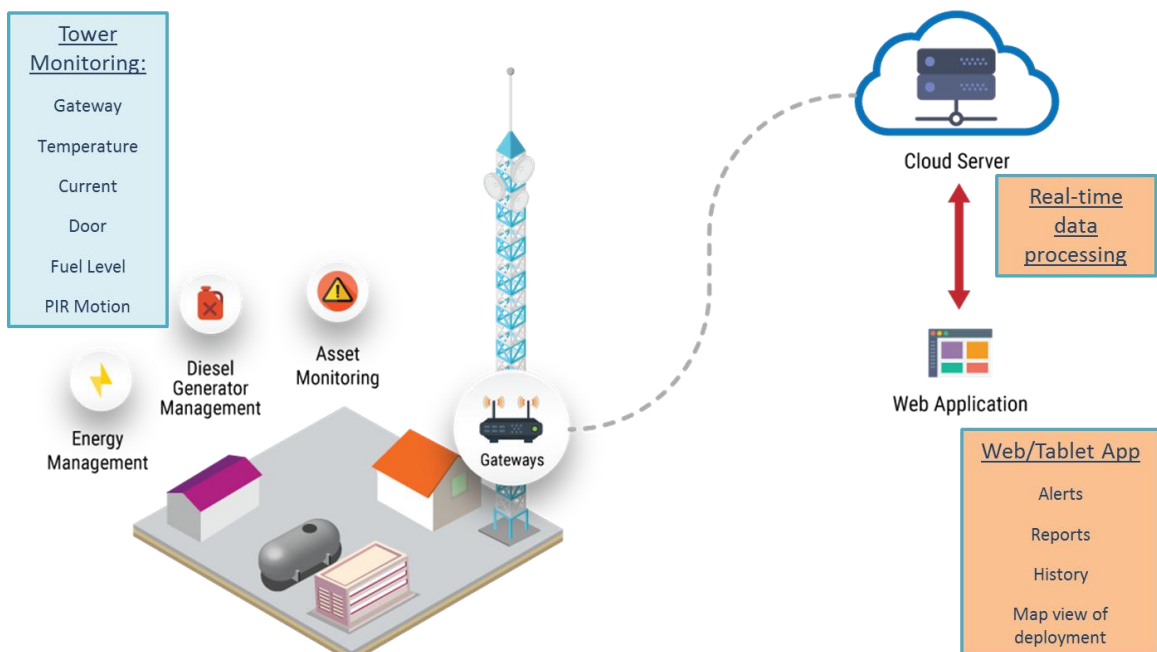
Moreover, visibility and control were lacking in other areas too:

- Prone to pilferage - diesel, battery, cable etc.
- Inability to optimize among power sources
- Inadequate control on Power drawn by tenants
- Energy billing disputes

Solution Methodology

nTower is a comprehensive suite of IoT tools that offers full control of cell tower and related equipment. Leveraging upon our industry proven IoT experience and platforms, nTower enables operators to monitor and control all your data from a remote central location, offering constant control over the technical and power equipment.

The ecosystem of sensors, Gateway and the software platform works together to enable network operators to remotely assess operating metrics such as fuel consumptions, battery level, power consumptions, operating temperatures and to set customized real time alerts.



Brief description of product:

Solution Components

A. Gateway

- ❖ Wireless gateway platform with GSM connectivity
- ❖ Wired interface with sensors
- ❖ Functional realization of following sensors
 - ❖ Door
 - ❖ Smoke
 - ❖ Current – 6 x DC and 2 x AC
 - ❖ Fuel level
 - ❖ PIR Motion
 - ❖ Temperature

B. Cloud IoT Data Server

- ❖ Cloud Application and Data server
- ❖ Data processing and reporting

C. Administration Apps – Tablet and Web

- ❖ GUI for system administration
- ❖ Alerts/notifications based on pre-configured rule

Specifications

A. Communication Interfaces

- ❖ GSM + GPRS for backhaul connection
- ❖ GPIO-Digital/Analog, ADC

B. Protocols:

- ❖ REST
- ❖ Security with TLS

C. Mechanical

- ❖ IP65 grade software

Impact

- Significant saving on energy consumption and maintenance cost
- Increased tower uptime and achieved higher asset utilization rates
- Improved site security

About SFO

SFO Technologies Pvt Ltd, the flagship arm of the diversified conglomerate, the NeST Group provides end-to-end design-engineering-software-manufacturing solutions to clients across geographies such as the USA, Canada, Europe, Middle East, South East Asia, Japan, Australia, and India. SFO has invested in building competence, scale and standards compliant process framework, in PCBA, fibre optics, Cable & wire Harness, Magnetics, High Level Assembly, VLSI design, embedded software development, etc. SFO's capabilities transcend the plain vanilla "Build-to-Spec or Build-to-Print" EMS and our ODM+ solutions are rapidly re-defining standards for the OEMs across Aerospace & Defence, Communications, Transportation, Healthcare and Energy & Industrial domains. .



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