

IoT

Remote Lighting System

Networked LED Lighting

Sensors that Capture Real time Data

Rich Data Analytics

Energy Usage & Occupancy Patterns

Data Visualization & Dashboards

Device Management

Dashboard & Intelligent Reports

OTA upgrades



Integra Micro Software Services

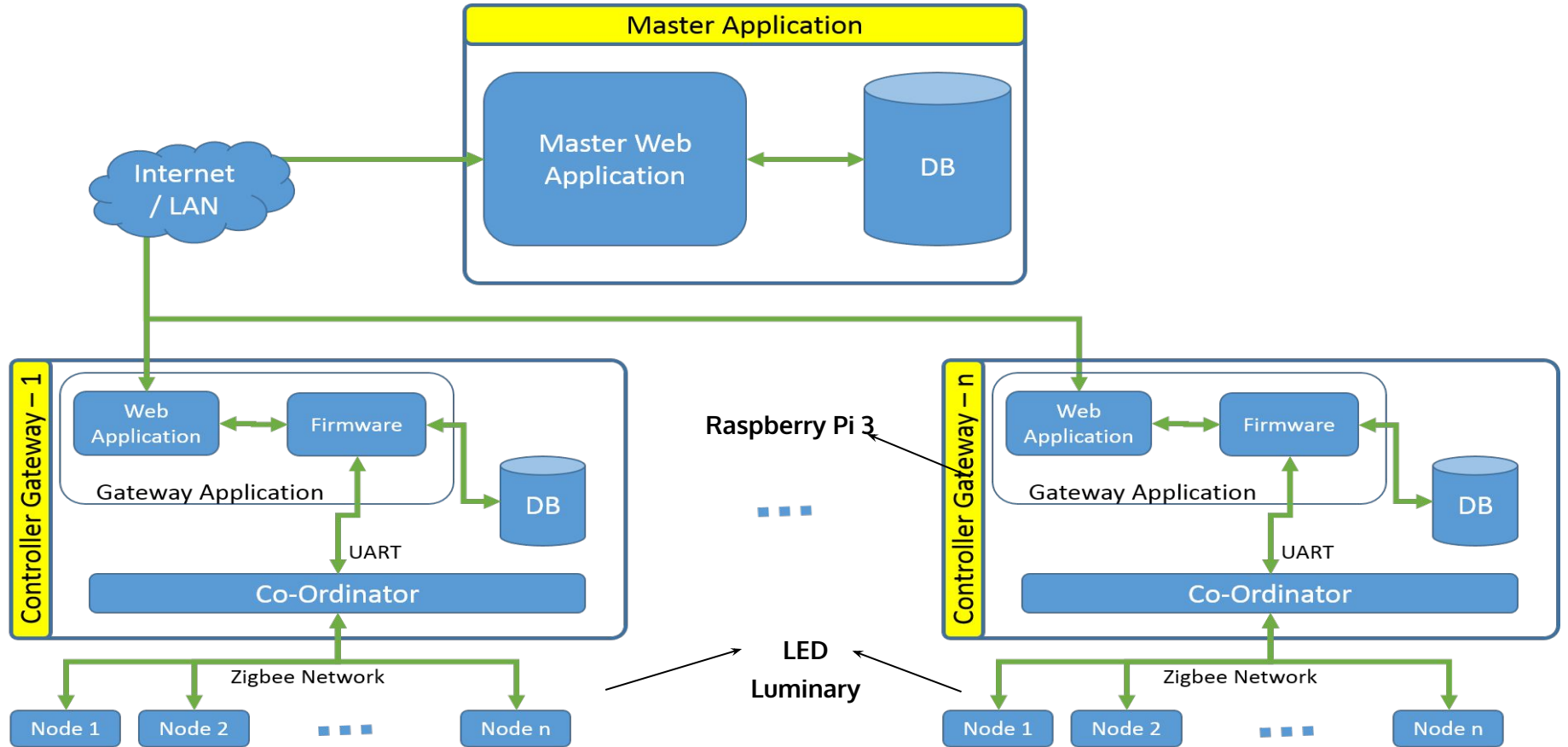
Salient Features

- Networked LED lighting
- Luminaires integrated with sensors that capture real time data
- Reliable and secure communication between sensors and the devices
- Over the air (OTA) upgrade of firmware
- RTC, POE, USB Dongles support for internet connection
- Setting of Light intensity
- Scheduling of rules for intensity control
- Web application providing rich data analytics and real time control of lighting
- Insight into the building energy usage and occupancy patterns, temperature patterns etc. using the data collected from the sensor network.
- “Visualize” and interpret “data” by means of detailed views, reports and “what-if” analysis
- “Manage” a single LED fixture OR a “group” of LED fixtures and be able to provide commands to alter its output based on the “rules” or “event”
- Dashboard & Energy consumption reports

Highlights

- In the Master Web Application, based on the occupancy patterns observed and the ongoing energy consumption the 'What If' analysis can be performed to know about further minimization of energy consumption on setting different intensity rules / at different percentage of occupancy states per room / per floor.
- A luminary node can be physically moved from one room / floor to another room / floor and then it can be commissioned with a respective controller gateway device and then control it remotely through the Master web application.
- If the controller gateway loses internet connection with the Master web application, then also that specific controller gateway can be accessed through LAN and its web application can be used to control its associated luminary nodes.
- The luminary nodes, controller gateways which are not actively working in the system are notified in the Master web application so that the needful corrective action can be taken as applicable by the field force.
- The Master web application can be hosted on a cloud to manage multiple organizations or can be hosted as a single instance at respective organization side.

Product Perspective



- 🏠 DASHBOARD
- 🗺 MAP
- ⚙️ **ADMINISTRATION**

- ORGANIZATIONS
- ROLES
- USERS
- ⚙️ CONFIGURATION
- ⚙️ CONTROLLERS
- ⚙️ NODES
- 📁 REPORTING

25° ☁️
📍 Bangalore

Energy Trend

YESTERDAY : 51kWh
THIS WEEK : 400kWh
THIS MONTH : 1300kWh

Occupancy (Today)
HIGHEST OCCUPANCY:

| ROOM 1 | BUILDING/FLOOR
3/WING A)

| ROOM 2 | BUILDING/FLOOR
3/WING A)

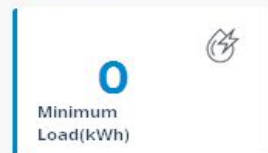
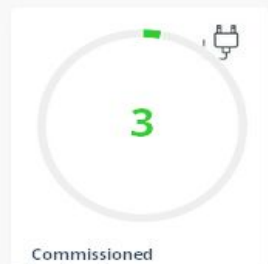
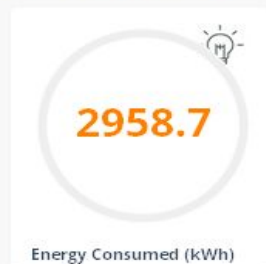
Alert Summary

| DIAGNOSTIC
EVENT
2hrs ago

| SECURITY EVENT

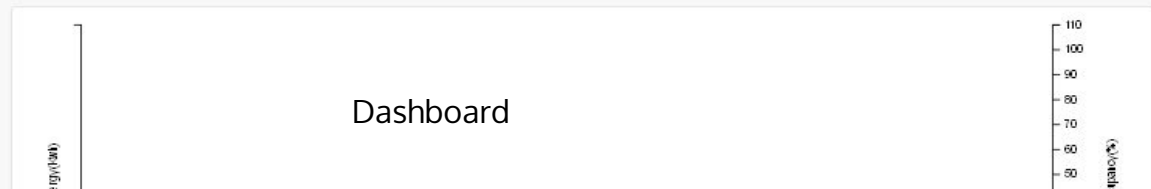
Dashboard Overview

Wednesday, 31 August 2016



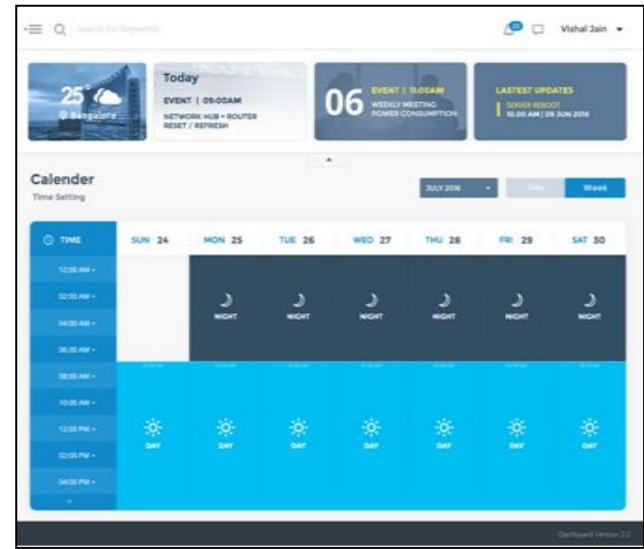
Energy Usage Report For Today

Energy in(kWh)





Rooms Occupancy Heat map



Intensity rule setting –
Calendar scheduling



Luminaries commissioning – floor map view

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Shorten the development life cycle

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