

Case Study

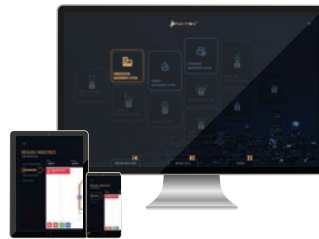
Building Automation Solution
for a Middle East Customer

Summary

Building management system was developed for Middle east customer and solution was developed using the latest stack to manage end to end management and transactions of a medium to large sized buildings. It uses latest tech stack and a seamless User interface for easy management of Buildings.

Main Features:

- Organization Management System
- Attendance Management System
- Smart Physical Access System
- Power/UPS Management System
- Hospitality Management System
- Smart Parking System
- Smart Security
- Smart Energy Management
- Smart Metering
- Elements Management System
- Reporting System
- Alert Management System
- Admin Panel



Frontend Web and Mobile devices



Backend



KAA IoT Platform



Security Gateway

Door Controllers

Access Card

Card Readers

Other security & access hardware

Parking Sensors

Temperature

Smart Light

Technology	Scope
SiPass	Access control integration framework
KAA	Open source IOT platform
Angular2, HTML5, CSS3, Bootstrap	Frontend development - Web
Java & Spring MVC	Backend development & API development
Web & Mobile	Responsive web
Database	MS SQL

Organizational Management System

- Organizational Information Setup
- Unified Access-Control Keycard
- Key Card Management
- Access and Organizational Information Management
- Access Privilege Management
- Logging & Reporting
- Mode Setting

Attendance Management System

- Smart Attendance Management
- Leave Management
- Working Profile Management
- Logging and Reporting
- Mode Setting

Smart Physical Access System

- Customized Security Zones Management
- Access Permission Management
- Visitor Management
- Remote Access Management
- Logging & Reporting

Hospitality Management System

- Unified Access Mechanism
- Smart Meal Vouchers
- Order & Reservation Management
- Meal Planner
- Logging & Reporting

Power/UPS Management System

- Profile Management
- Remote Power Management
- Scheduled Power Management
- Logging and Reporting

Video Call System

- P2P Video Call
- Speed Dial
- Missed Calls
- Call Waiting
- Favorites
- Logging and Reporting

Smart Parking System

- Booking & Reservation
- Spot Status Grid
- Statistics, Logging & Reporting

Admin Panel

- System Configuration
- Scheduled Tasks
- Statistics, Logging and Reporting
- Global Mode Setting

Smart Security

- Anti-Theft Protection
- Fire Alarm
- Smoke Alarm
- Water Leak Alarm
- Window & Door
- Breach Alarm
- Safe Breach Alarm
- Indoor Surveillance
- Threat Mitigation Workflow
- Panic Button
- Security Patrol Management
- Logging and Reporting

Smart Metering

- Smart Electricity Meter
- Smart Gas Meter
- Smart Water Meter
- Unified Bill Management
- Remote Access(Excluding Water Meter)
- Logging & Reporting

Reporting System

- Customized Security Report
- Customized Energy
- Optimization Report
- Alarm Analysis
- Real-time inquiries
- Mode Setting

Smart Energy Management

- Smart Lighting Management
- Scheduled Tasks
- Appliance Grid
- Temperature Grid
- Logging & Reporting

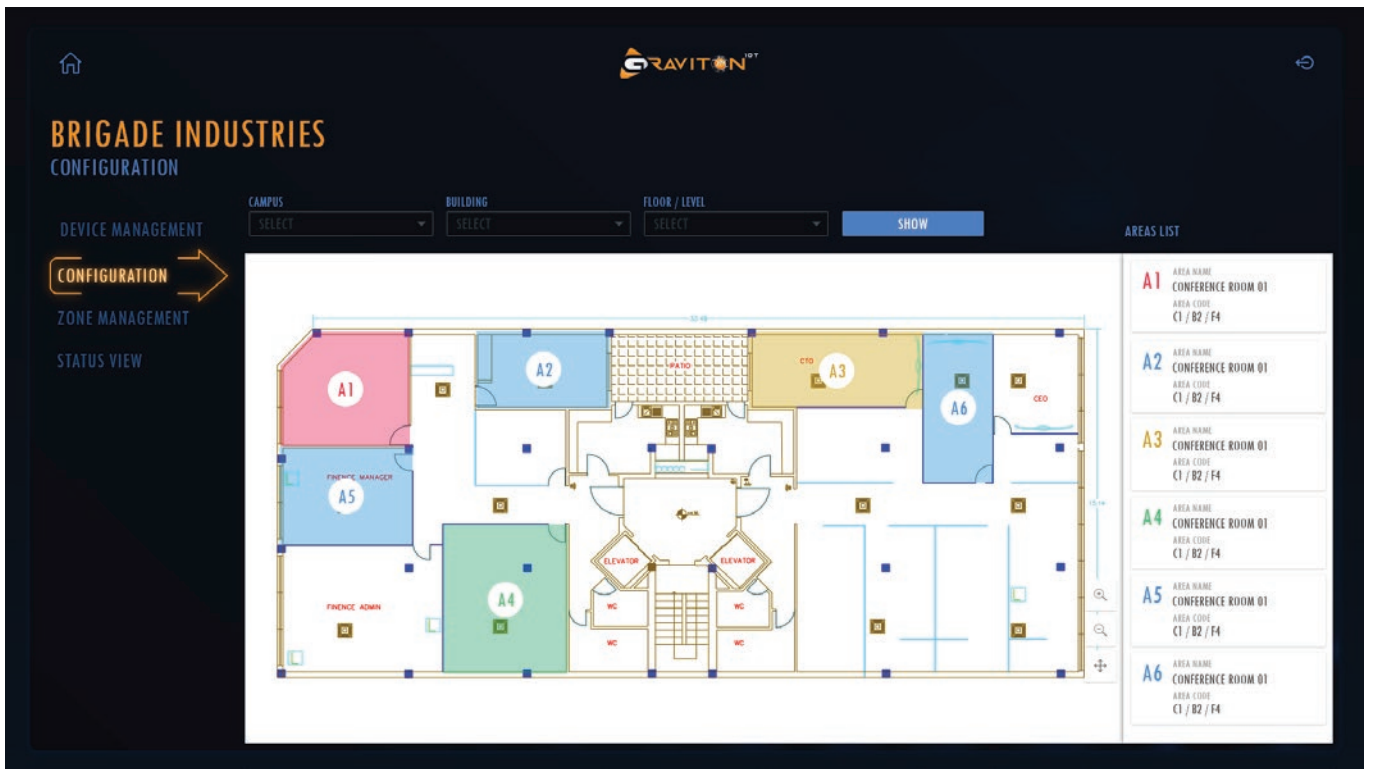
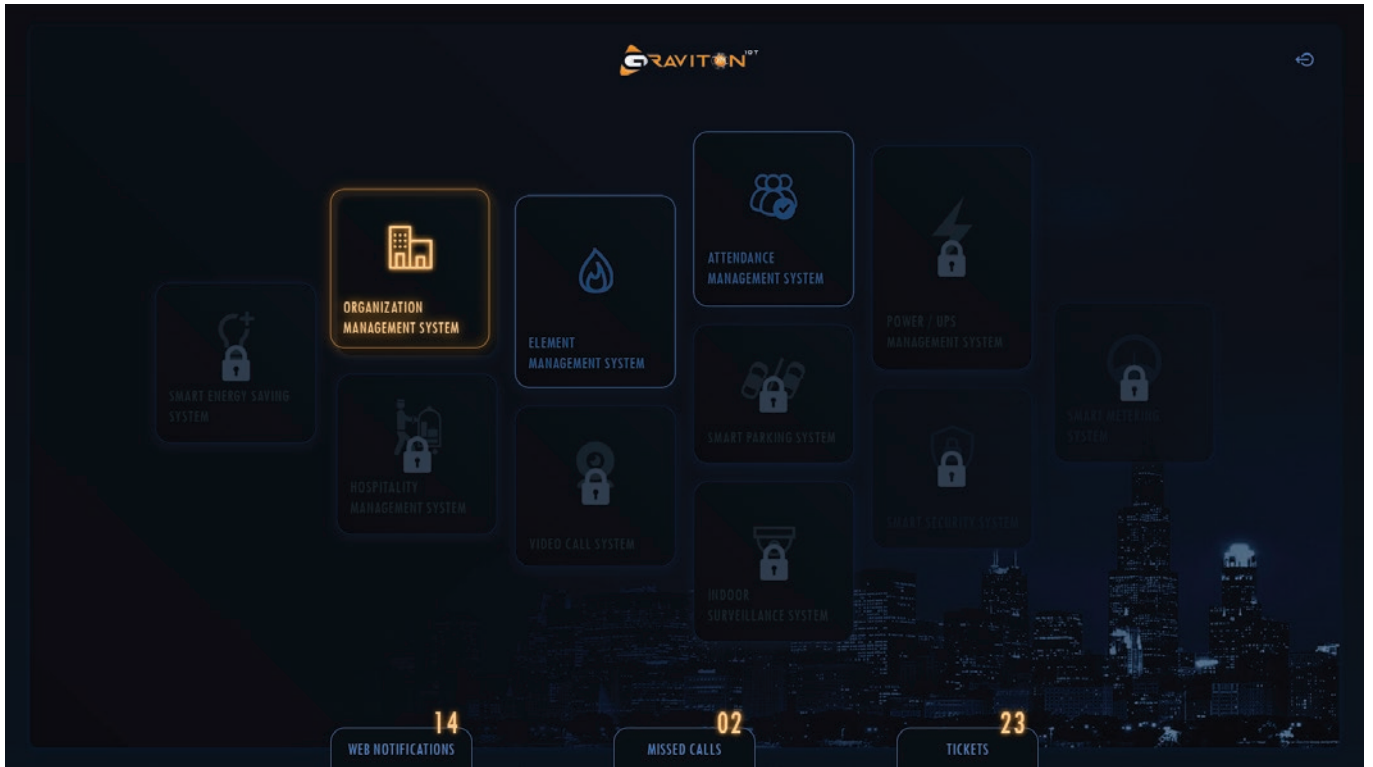
Elements Management System

- Smart Sensor Management
- Smart Zone Management
- Smart Policy Management
- Smart Power
- Socket Management
- Alarm Filtering & Analysis

Alert Management System

- Alert Lists
- Customized Alert
- Action Definition
- Alert Type Management
- Statistics, Logging and Reporting

Screenshots



Screenshots

BRIGADE INDUSTRIES
CONFIGURATION

CAMPUS: CAMPUS 01 | BUILDING: BUILDING 2 | FLOOR / LEVEL: FLOOR 4 | SHOW

A1 CONFERENCE ROOM 01
(1 / 87 / 14)

FINENCE MANAGER

AP1 (CAMERA)

TYPE	CAMERA
SUB TYPE	SUB TYPE 01
BRAND	SONY
MODEL	ZK120H12231
SERIAL NO	854643876365ECS
IP ADDRESS	-----
INSTALLATION LABEL	-----

WP1

DEVICE TYPE: SELECT TYPE
 DEVICE SUB TYPE: SELECT SUB TYPE
 BRAND: SELECT BRAND
 MODEL# / NAME: SELECT MODEL
 SERIAL NO: ENTER SERIAL NO
 IP ADDRESS: ENTER SERIAL NO
 INSTALLATION LABEL: ENTER SERIAL NO

CANCEL SAVE

SENIOR RECRUITER
WORK TIME POLICY LIST

CREATE | NEXT POLICY

1 SHIFT 1

WORK

START TIME	09:30 AM	END TIME	06:30 PM	DURATION	9 HRS
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MEAL

START TIME	01:00 PM	END TIME	02:00 PM	DURATION	1 HRS
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MARK AS DEFAULT

2 SHIFT 2

WORK

START TIME	09:30 AM	END TIME	06:30 PM	DURATION	9 HRS
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MEAL

START TIME	01:00 PM	END TIME	02:00 PM	DURATION	1 HRS
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3 SHIFT 3

WORK

START TIME	09:30 AM	END TIME	06:30 PM	DURATION	9 HRS
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MEAL

START TIME	01:00 PM	END TIME	02:00 PM	DURATION	1 HRS
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SUBSIDIARY / DEPT MANG / SUB-DEPT / DESIGNATION | BACK

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