Tapadia Tech IoT

Projects  Development  Training  Consultant  Software
200.4 million devices in 2019
That's a lot of money

700.4 million devices by 2025
And a lot of users

32% adoption rate
Estimated adoption rate each year!
What are we offering?
IOT solutions for Telecom Industry

- BTS
- Cell Site
- MSC
- Data Centre
- Outlets
Benefits of adopting **IoT solution**

1. Efficient resource utilization
2. Increased efficiency of equipment
3. Reduced human efforts
4. Reduced downtime
5. Real time information
6. Decision analytics
7. Low on OPEX
8. Helps reduce carbon foot prints
Designed for

- Energy Management
- Access Control
- Asset Management
- Mobile App
- Security Systems
- Air Monitoring
- CMS Software
- Utility Software
Energy Management

- Grid
- Diesel Gen
- Battery
- Fuel
Energy Management

Grid Power
- Real Time Monitoring
- Power Fail Alerts
- Over usage Alerts
- Instant Email on Triggers
- Instant Notifications on Mobile

DG Power
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Battery Management

1. Monitor real-time power consumption generated by **DG and Grid**.

2. Get notified if the consumption is larger than the allocated limit.

3. A detailed report provided by the system makes it easy to identify and rectify a weaker area and **control power consumption**.

4. Smart utilization of energy saves the operational cost and also helps save the environment.
With today’s complex environmental compliance issues we must have a reliable system for monitoring fuel consumption.

1. To address this problem we provide a simple solution where it makes possible to monitor the fuel level in real-time, get notified with alerts and emails if fuel level reaches threshold limits.

2. Monitoring such aspects helps us to track fuel theft, track generator performance, fuel tank leakages, fuel quality etc.

3. Saving fuel not only contributes to generating profits but also contributes to reduces Carbon footprints.
Security Systems

- Fire Alarm System
- Access Control system
- Intruder Alarm System
The security and surveillance industry is changing, and solutions have moved far past basic alarm monitoring to live video surveillance and other remote security features have increased visibility for organizations that want to safeguard their people, assets, and buildings.

The Internet of Things (IoT) is helping create safer cities, homes, and businesses by enabling both private and public organizations to securely and remotely monitor facilities.
Air Quality Monitoring

Carbon

Humidity

Temperature
The product is designed to give a real-time information to the user about the actual air quality inside the shelter. The following parameters are measured.

1. Temperature & Humidity inside the room
2. Outside weather conditions (optional)
3. Carbon concentration
4. LUX level (Optional)
5. Earthquake Detection (Optional)
We can define geofencing as “creating a virtual boundary in which a device, individual or asset can be tracked and monitored or detected if the boundary is violated.”

In other words, geofencing is a tool that creates and tracks virtual boundaries. It uses GPS technology along with dedicated software to track equipment and people.

The software also sends users alerts and notifications about the premises that they’re tracking.
Tapadia Tech IoT is a end to end solution with a app front end that works on iOS and Android platform to control Arduino, Raspberry Pi and other boards with a different manufacturer for implementation of IoT.

Our application is not tied to some specific board or shield. Instead, it supports the hardware of your choice and is a cross platform solution. Whether your Arduino or Raspberry Pi is linked to the Internet over Wi-Fi, Ethernet or this new ESP8266 chip, our application will get you online and ready for the Internet Of Your Things.
Mobile Application

Note: Real-time Dashboard
Sensors Available

- Temperature
- Temperature three-foot probe
- RTD high temperature
- RTD low temperature
- Duct temperature
- Water temperature
- Humidity
- Water detection
- Water rope
- Open/closed
- Dry contact
- 0–5 volt meter
- 0–10 volt meter
- 0–50 volt meter
- 0–20 amp AC current meter
- 150 amp AC current meter
- 1–50 volt detection
- Voltage detection
- 0–20mA current meter
- Single-input pulse counter
- Button
- Wireless Infrared Motion Detection
- Wireless 500VAC/VDC Voltage Meter
- Wireless Accelerometer—Tilt
- Wireless Accelerometer—Impact Detection
- Wireless Accelerometer—G-Force Snapshot
- Wireless Accelerometer—Vibration Meter
Remote Monitoring Software – Admin Console

Implementing IoT remote monitoring for your facilities and assets increases visibility into asset performance by predicting equipment failure and alerting you to fix the problem before downtime occurs & saving you from dreaded emergency maintenance.

All of this data is available to you real time on a single view dashboard through our application.

Note: Real-time Dashboard
### Remote Monitoring

**Note:** Real-time Dashboard

#### Time series to columns

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#### Table Display

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#### Column Styles

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  - **Type:** Date
  - **Format:** YYYY-MM-DD HH:mm:ss

- **Name or regex:** /.*
  - **Type:** Number

- **Coloring:** Cell
  - **Thresholds:** 270, 275
  - **Colors:** Green, Orange, Red

- **Unit:** Fahrenheit (°F)
  - **Decimals:** 0
Remote Monitoring

Note: Real-time Dashboard
Remote Monitoring

Note: Real-time Dashboard
Remote Monitoring

- Power Usage: 372 W
- UPS Battery Charge: 100%
- WAN Latency: 13.99 ms
- WAN RX: 64 kbps
- WAN TX: 25 kbps
- LAN Traffic: 1 Mbps
- EST Time: 18:08
- LAN1 VPN Latency: 15.30 ms
- LON1 VPN Latency: 15.43 ms
- WAN Data Transfer Today So Far: 273 GiB
- DNS1: 21/s
- DNS2: 0/s
- Tank Disk I/O: 0 Bps
- Tank Cool: 45 °C
- Tank Storage: 30.22 TIB
- XRP USD: $2.0275
- BTC USD: $14.479K
- WAN Traffic: 716
- Plex Movies: 7.00 TiB
- Plex TV Episodes: 14834
- Plex Viewing Time Today: 19.4 TiB
- Tank Load: 0.34
- Remote Plex

Physical Host Temperatures: 39 °C, 41 °C
Copper CPU: 40%
Argon CPU: 9%
Copper Memory: 1.35
Argon Memory: 0.05
Copper Load: 0.34
Argon Load: 0.34

5° and falling
Light rain stopping in 45 min.
Wind: 12 mph (SE)
Avoid Instrument downtime and Penalties, also increase productivity with Utility Software to assist the Origination with Vendor management and timely reminders for Service Maintenance, Break down, Utility bill payments etc.

1. **Reminders**
   - Advance reminders for Utility Bills, Service Schedules etc.

2. **Schedulers**
   - User defined Schedulers / Reminders.

3. **Task Manager**
   - Task manager allows you to get notified for all completed and pending task.

4. **Reports**
   - Get detailed report for all task completed, pending and performance report.
## Setup Architecture and features of current product

### Ready in current product
- API's for data transfer
- MQTT protocol
- Server for Mobile APP
- Data Visualising
- Database for Mobile App
- Data Alerts Handler
- Mail Server
- Data Publishing

### Product roadmap coming soon..
- Server for CMS
- Security Layer
- Big DATA
- OTA Server
- Data Analytics
- AI Cloud
- Google Tensor Flow (AI)
- Output
Reach Us

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