Product Information

IIoTNext Platform

A scalable, robust and secure Industrial IoT Application enablement platform to monitor and manage distributed assets

Features

User Interface

- Interactive HTML5 based web UI

- Dashboards to represent your asset hierarchy

- Visualization using state-of-the art Charts, Trends, Gauges, Timeseries tables, Cards, Labels etc.

- Drill down dashboards for deeper analysis

- Configure, Control and Manage your assets remotely

- Unlimited web clients

- Mobile ready UI based on inherently responsive design

- Access your application from Android or iOS device

- Available on Tablets or any hand-held device with a web browser

- Locate your assets on interactive Maps

Reports

- Customizable reports for optimal business insights

- Generate reports for any time period with appropriate aggregation intervals

- Apply statistical functions like Min, Max, Average, Sum and Count

- Export reports in PDF or MS Excel format

- Automatically generate & send reports via email

Alerts & Notifications

- Comprehensive Alerts & Notifications Management

- Propagate Alarms from device level to related assets

- Raise Alarms on device inactivity or disconnect events

- Create Alerts from statistical functions applied on historical data

- Create custom conditions to raise alarms

- Email, SMS or other collaboration apps like MS Teams

Application Building

- Create dashboards by drag-and-drop of widgets

- Extensively customizable widgets to achieve your design goals

- JavaScript based customization for advanced users

- In-built widget library

- Control Widgets to manage assets and sites remotely

- Custom widgets enriches your widgets library

- Create custom widgets with HTML, CSS & JavaScript knowledge

- New custom widgets can be based on existing widgets.

- High performance timeseries database

Data Sources

- MQTT, RESTful APIs, or OPC-UA as primary data sources

- LoRa, Azure IoT, AWS IoT, CoAP as alternate sources

- Publish telemetry in simple key-value pair JSON format

- Data Converters for custom data formats

Asset Management

- Asset Hierarchy support to represent real-world scenario

- Aggregate data populated automatically from related devices

- Groups and categories for better management of assets

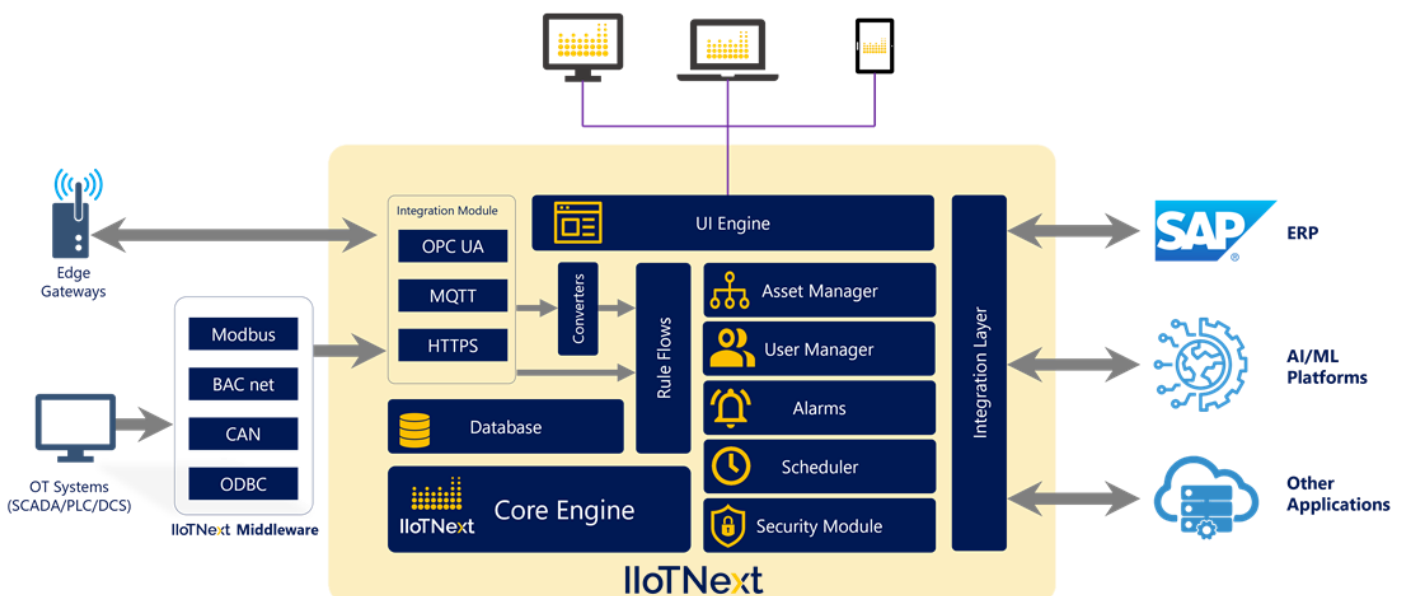- Custom relations to represent complex relationships between assets

Multi Tenancy

- Host & manage multiple customers from a single account

- Keep your customer's data and application completely isolated from each other

Device Management

- Manage 1,000s of IIoT gateways

- In-built Connectivity & Activity status monitoring

- Over The Air (OTA) firmware updates

- Remote Procedure Call (RPC) commands to control the remote device

- Bulk Provisioning of gateways

Software Architecture

White-labelling

- Rebrand the platform with your company logo and colour scheme
- Zero coding white-labelling
- URL white labelling

Fault-tolerance

- All IIoTNext servers are identical. Node failure is automatically detected and replaced without downtime

Rule flow

- Low code flow-based visual programming environment for developing your application
- Event driven environment for complex data processing
- Filter, enrich and transform incoming data originated by devices and other data sources
- Trigger notifications or communication with external systems.
- Drag-n-drop nodes to create custom flows

Integration

- Integrate to external systems like ERP or CMMS using REST APIs
- Provide data to third-party data processing systems like AI/ML Predictive Analytics Platforms
- Provide processed data to external MQTT Brokers
- Extensive RESTful APIs to extend your application

Cyber Security

- Advanced Role Based Access Control (RBAC)
- Tenant Administrator manages the account and all it's resources
- Tenant administrator can create multiple customer accounts and assign it to a customer administrator
- All customer data and resources are isolated from each other
- Custom roles can be created, and access permissions can be controlled in a granular level
- Encrypted data communication between IIoT Gateways and IIoTNext platform
- Device tokens for authentication and identification
- Audit Trails to track successful logins, failed logins and other operations and user activities
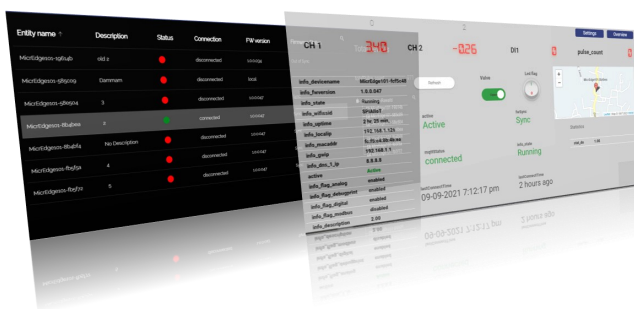
Deployment Models

IIoTNext Cloud (PaaS)

- Highly Scalable
- Fully Managed
- Disaster recovery database
- Hosted on Amazon Web Services
- Simple Pricing Structure
- Pay as you grow
- No contract lock-in
- Free upgrades, bugfixes

Self Hosted (PaaS)

- Scalability depends on Computing Infrastructure
- Initial Setup Fee Applicable
- Software Managed by IIoTNext team
- Can be hosted on any cloud
- Monthly Fee Model
- Pay as you grow
- No Software Purchase
- Free upgrade, bugfixes

Perpetual License

- Scalability depends on Computing Infrastructure
- Initial Setup Fee Applicable
- Optional AMC applicable
- No Monthly Fee
- One-time Software License Purchase
- Optional AMC for upgrades and bug fixes

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