

Introduction To



FAVORIOT PLATFORM

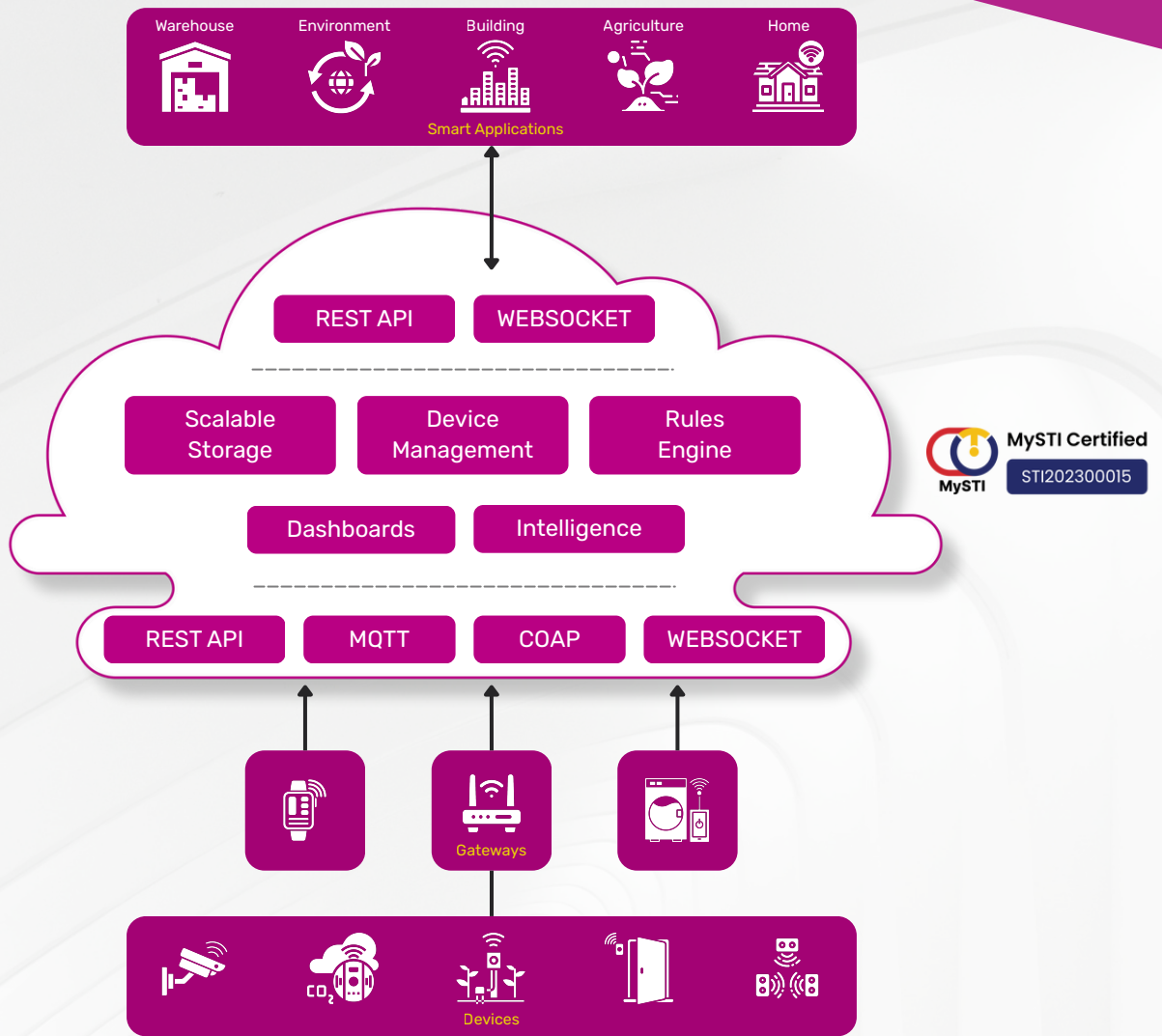
ENTERPRISE

with Intelligence



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Favoriot Platform Enterprise



Favoriot Platform Framework Diagram

The Favoriot Platform Enterprise is a specialized subscription plan designed for organizations that require a self-hosted, permanent IoT infrastructure. Unlike the standard plans (Free, Lite, Beginner, and Developer), the Enterprise plan provides a Perpetual License, allowing users to host the Favoriot Platform on their own preferred servers, whether on-premise or within a private cloud.

This plan is built for enterprises and public sector agencies that prioritize data sovereignty and long-term cost efficiency. By moving away from Favoriot platform cloud-based subscription models, organizations gain full control over their data lifecycle and system environment.

Beyond hosting flexibility, the Favoriot Platform Enterprise provides an extensive set of tools to manage complex IoT operations. It enables the centralization and standardization of diverse device streams while utilizing Favoriot Intelligence to transform the platform into a proactive decision-making engine. By integrating advanced Machine Learning, the platform moves beyond simple monitoring to provide predictive insights—allowing organizations to anticipate trends, detect anomalies in real-time, and automate complex workflows. With unlimited parameters and multi-tier organizational management, the platform serves as a scalable foundation for turning raw data into high-value intelligence while maintaining complete independence from public cloud dependencies.



KEY FEATURES

COMPREHENSIVE DEVICE & DATA MANAGEMENT

- Connect and manage unlimited IoT devices and gateways securely via MQTT, CoAP, REST, and WebSocket protocols.
- Control and configure devices remotely with over-the-air commands for supported hardware.
- Manage all device operations through a single, centralized platform.
- Organize complex deployments through a multi-level hierarchy of Projects, Applications, Groups, and Devices.
- Scale without limits using unlimited API calls for unrestricted data ingestion and device-to-platform communication.
- Handle high-velocity data streams from multiple sources with support for unlimited data points per single data flow.
- Easily import data from external sources and schedule automated exports to email or manual local downloads.

EDGE GATEWAY

- Aggregate and transform device data streams through a centralized virtual gateway to remap and standardize parameters for streamlined management.

FIRMWARE OTA

- Upload and configure firmware binaries directly within the platform.
- Simplify deployment by assigning target devices and manually publishing or unpublishing firmware releases.
- Provide the flexibility to download firmware files locally for quick manual verification or offline maintenance.

DYNAMIC DASHBOARD

- Easily design responsive, role-based dashboards using a variety of drag-and-drop widgets to both visualize real-time or historical data and remotely control devices for immediate operational insight.
- Share live dashboards with others via generated public URLs.

FAVORIOT INTELLIGENCE: BUILT-IN ANALYTICS & ML

- Build operational analytics dashboards using dedicated widgets for Basic Statistics, Periodical Basic Statistics, Value Growth, Periodical Basic Statistics with Value Growth, Correlation, Decompose, and ML Results.
- Build, train, and evaluate Time-Series Forecast, Supervised, and Unsupervised models natively within the platform to generate live inference results for manual analysis or rule-based anomaly detection.
- Share live dashboards with others via generated public URLs.

ADVANCED RULE ENGINE

- Trigger automated workflows using a versatile toolkit of logic, schedule, and location-based nodes to capture critical events.
- Transform raw sensor data through a flexible processing pipeline that supports both built-in converters and custom JavaScript logic.
- Integrate trained machine learning models into live workflows using inference nodes to enable predictive and programmable anomaly detection.
- Dispatch instant notifications through Email, and Telegram or forward processed data to external systems via HTTP Post and MQTT Publish.
- Enable autonomous control by sending remote commands (RPC) back to hardware based on real-time logic.

APPLICATION INTEGRATION

- Develop and scale custom smart applications using a multi-protocol suite—utilizing REST for integration alongside MQTT, WebSockets, and CoAP for real-time, low-latency interaction.

SECURITY & ACCESS CONTROL

- Authentication: Ensure secure access across all platform levels using unique API Keys for organizational management and individual Access Tokens for device-level operations.
- Customers: Provision secure sub-accounts for external users to access designated hierarchies, dashboards, and analytics with granular Read or Read/Write permissions.

FEATURES SPECIFICATION

FEATURES	CAPABILITIES & SPECIFICATIONS
API Limit	Unlimited Daily API calls (Supports high-velocity data ingestion and massive-scale device communication without throttling)
Hierarchy (Projects, Applications, Groups, Devices)	Unlimited (Provides a full structured view from the organizational level down to individual device streams)
Edge Gateway	Unlimited (Centralize diverse streams to remap and standardize parameters for uniform data structure)
Firmware OTA	Unlimited (Supports remote Firmware Over-The-Air updates, allowing for bulk device maintenance and security patching)
Data Streams	Unlimited parameters per stream in JSON format; support data import and export
Dashboards	Unlimited Dashboards with up to 30 widgets each (Graph, Text, Card, Clock, Layout, Button, Slider, Switch, Device Connectivity Status, Map)
Analytics	Unlimited Analytics Dashboards with up to 6 widgets each (Basic Statistics, Periodical Basic Statistics, Value Growth, Periodical Basic Statistics with Value Growth, Correlation, Decompose, ML Results)
Machine Learning	Unlimited ML models (Time Series Forecasting - ARIMA, Linear Regression, LSTM Supervised - Logistic Regression, Linear Regression, SVM, Random Forest, XGBoost Unsupervised - DBSCAN, K-Means, GMM)
Rules	Unlimited with access to all nodes (Stream, Schedule, Conditional, Count Trigger, Time, Geofence, Active Status, Parameter Selector, Transform, Script, Unit Converter, Value Processor, Machine Learning, Store Stream, Email, Telegram, HTTP Post, MQTT Publish, Control)
Customers 	Unlimited (Includes Organizations for project access, Roles for Read/Write permissions, and User account creation).

TECHNICAL PREREQUISITES

EXPERT DEPLOYMENT & CERTIFICATION

- **Certified Installation:** Ensure optimal performance and security with deployment handled by a Certified Favoriot Platform Installer, guaranteeing expert configuration and adherence to technical best practices.

INFRASTRUCTURE REQUIREMENTS

The client must prepare the following environment for the On-Premise or Private Cloud installation:

COMPONENT	MINIMUM REQUIREMENTS
Server 1 (Front-End & Primary Database)	8 Core / 16 GB RAM / 320 GB Storage
Server 2 (Database Backup)	8 Core / 16 GB RAM / 320 GB Storage
Operating System	Ubuntu 20.04 LTS or newer

Note: Server 1 and Server 2 can be combined into single high-specification server if redundancy is not a primary concern for the initial phase.

