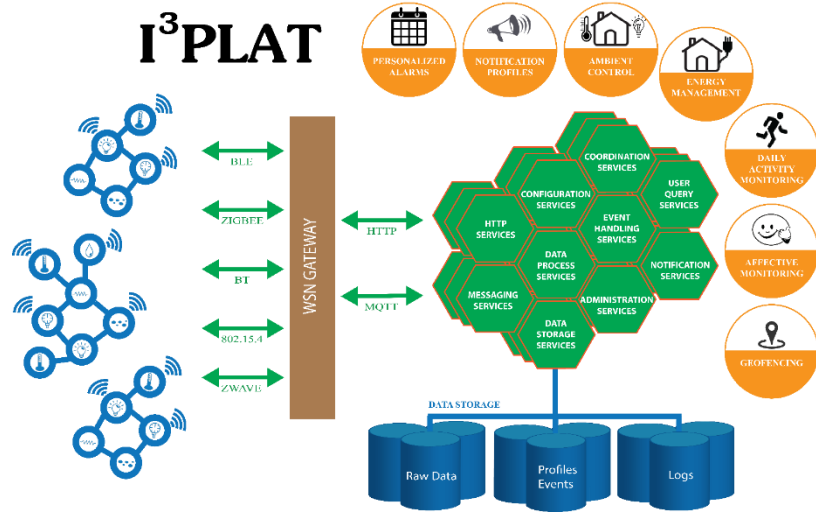# I³PLAT

Interconnect Interoperate Interact
Seamlessly

I³PLAT Services

Small autonomous applications based on microservices architectural pattern

Types of services:

- *Communication services:*
  - **HTTP**
  - **Messaging**
- *Coordination services*
- *Data Handling services:*
  - **Storage**
  - **Online/Offline analysis**
- *Event Handling services*
- *Notification services*

Applications developed in I³PLAT

- *Geofencing*
- *Home Automation:*
  - **Energy Management**
  - **Water Management**
  - **Ambient Control**
- *Daily activity monitoring*
- *Affective Monitoring*
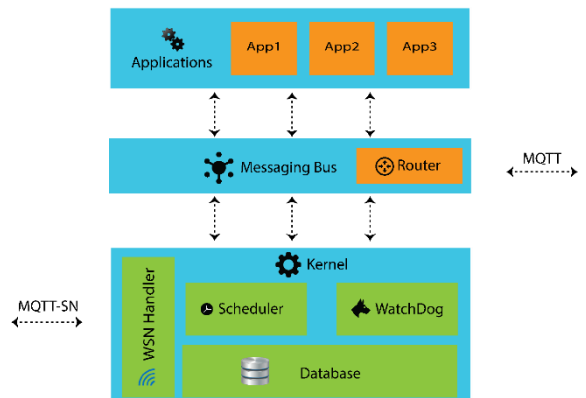- *Notification Profiles*
- *Personalized Alarms*

I³PLAT Gateway Implementation

- *Flexible Addition, Deployment, Configuration and management of Application*
- *Decoupling of dynamic application components from core gateway components*
- *Homogenized Messaging passing protocol approach for both WSN and Backend communications*
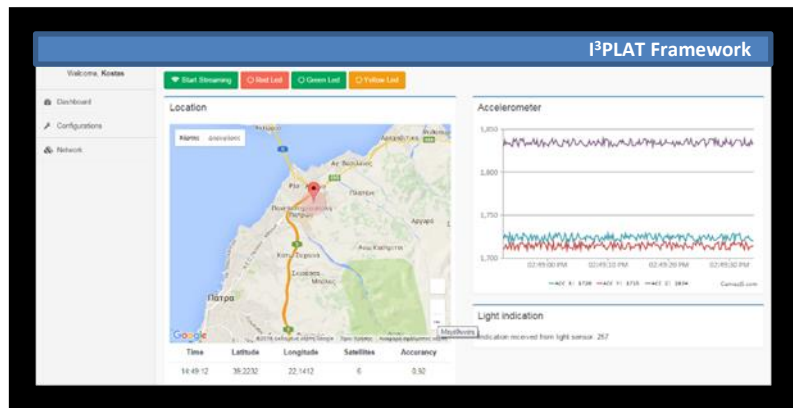
I³PLAT

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Monitoring in I³PLAT

- *Web interface*
- *Real-time monitoring*
- *Message filtering*
- *Configuration management*
- *Services:*
  - **Monitoring**
  - **Reconfiguration**
- *Wireless sensor network management:*
  - **Gateways' management**
  - **Sensors' Reconfiguration**

I³PLAT Framework

Data Handling in I³PLAT

- *Polyglot persistence*
- *Real-time data analysis*
- *Offline data analysis*
- *End users queries through APIs*

Wireless Sensor Networks supported by I³PLAT

- *Communication heterogeneity support*
- *Multiple communication technologies*
- *Indoor & Outdoor sensor networks*
- *Communication over MQTT-SN*

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