System Architecture

Nodes
- Controller: Allows the interaction and coordination of heterogeneous devices (RFID, Sensors and Actuators)
- Network Database: Provides the data storage environment and query features for service provisioning.
- RFID modules: Permit the reading and detection of RFID tag IDs, that can be associated with actions or events.
- Sensors: Obtain environment parameters measurements (temperature, humidity, light, sound, etc.) to be associated with actions or events.
- Actuators: Provide interaction with different devices in order to execute certain tasks based on system parameters or settings.

Applications and Features
- Inventory - Object Tracking
- Surveillance Systems
- Provide RFID information to devices with no RFID embedded hardware through a web application
- RFID Anti-collision mechanism
- Allows the integration of heterogeneous devices into a single platform
- Flexible and dynamic services configuration