Intelligent IOT gateway: pushing analytics at the edge

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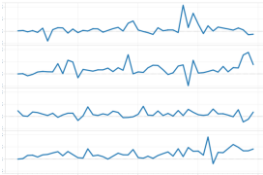
Agenda

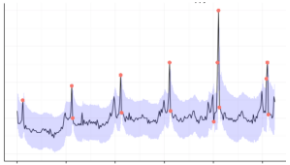
Edge analytics
IOT Architecture
Intelligent IOT gateway

Eurotech

- Founded in 1992, headquartered in Amaro (UD), Northeast of Italy
- Global footprint with subsidiaries in US, Japan, UK, France
- Behind the products of more than 20 Global 500
- World top player in the Embedded Computers market
- 20+ Years of experience in M2M and distributed systems
- Leading innovator in IoT integration platform
- Public Company, in the STAR segment of Borsa Italiana since 2005

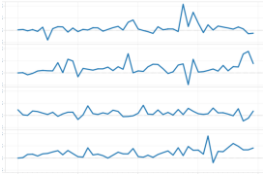
Edge analytics?

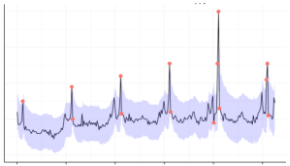




- analytics is performed at the point where (or very close to where) the data is collected.

Edge analytics?





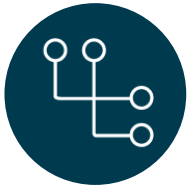
- IDC FutureScape for IoT report found that by 2018, **40%** of IoT data will be stored, processed, analyzed and acted upon at the edge of the network where it is created.

Edge analytics benefits

REDUCED CLOUD COSTS

REDUCE DATA TO BE ANALYSED

LOCAL REACTION

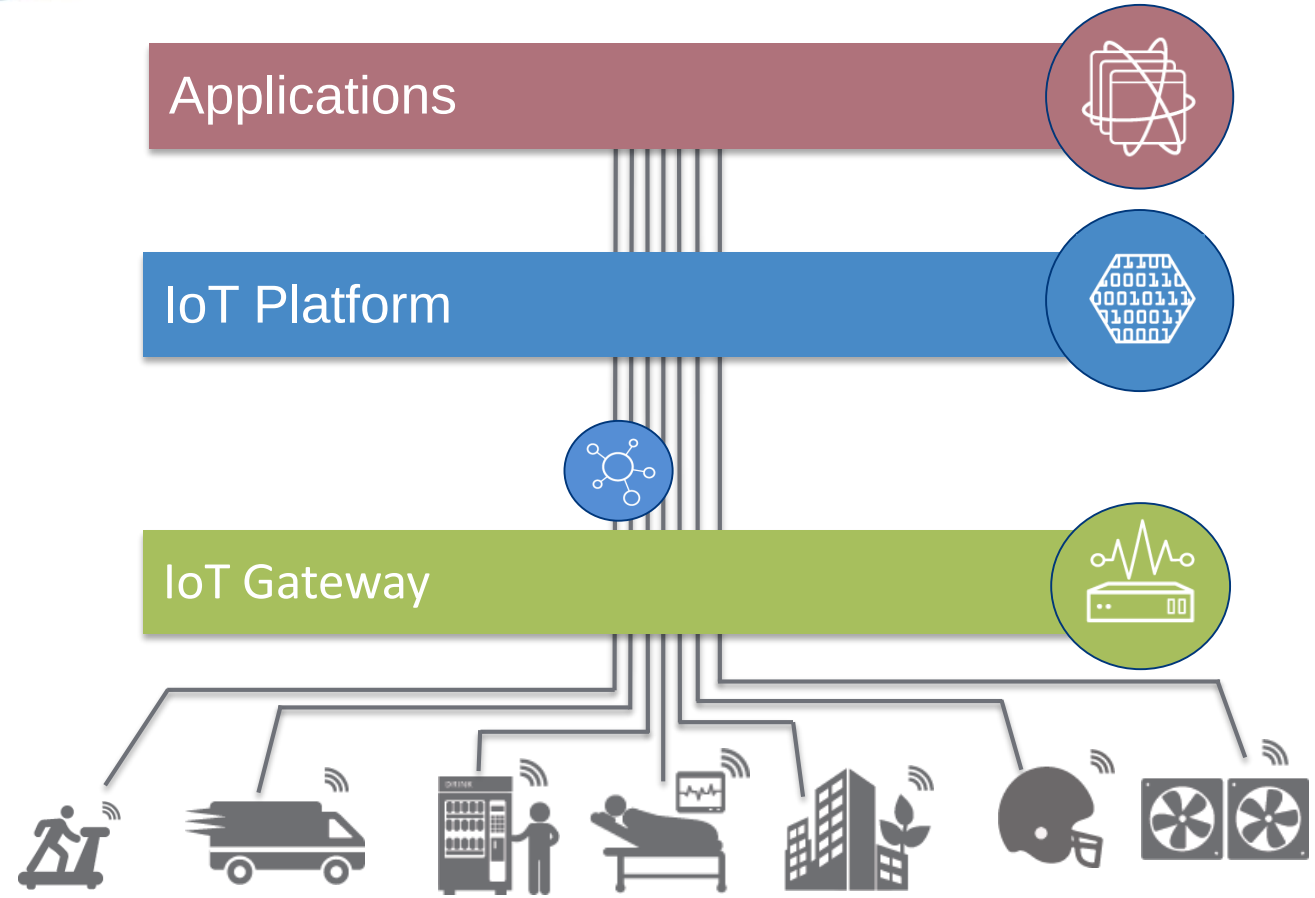


BANDWIDTH AND NETWORK RESILIENT

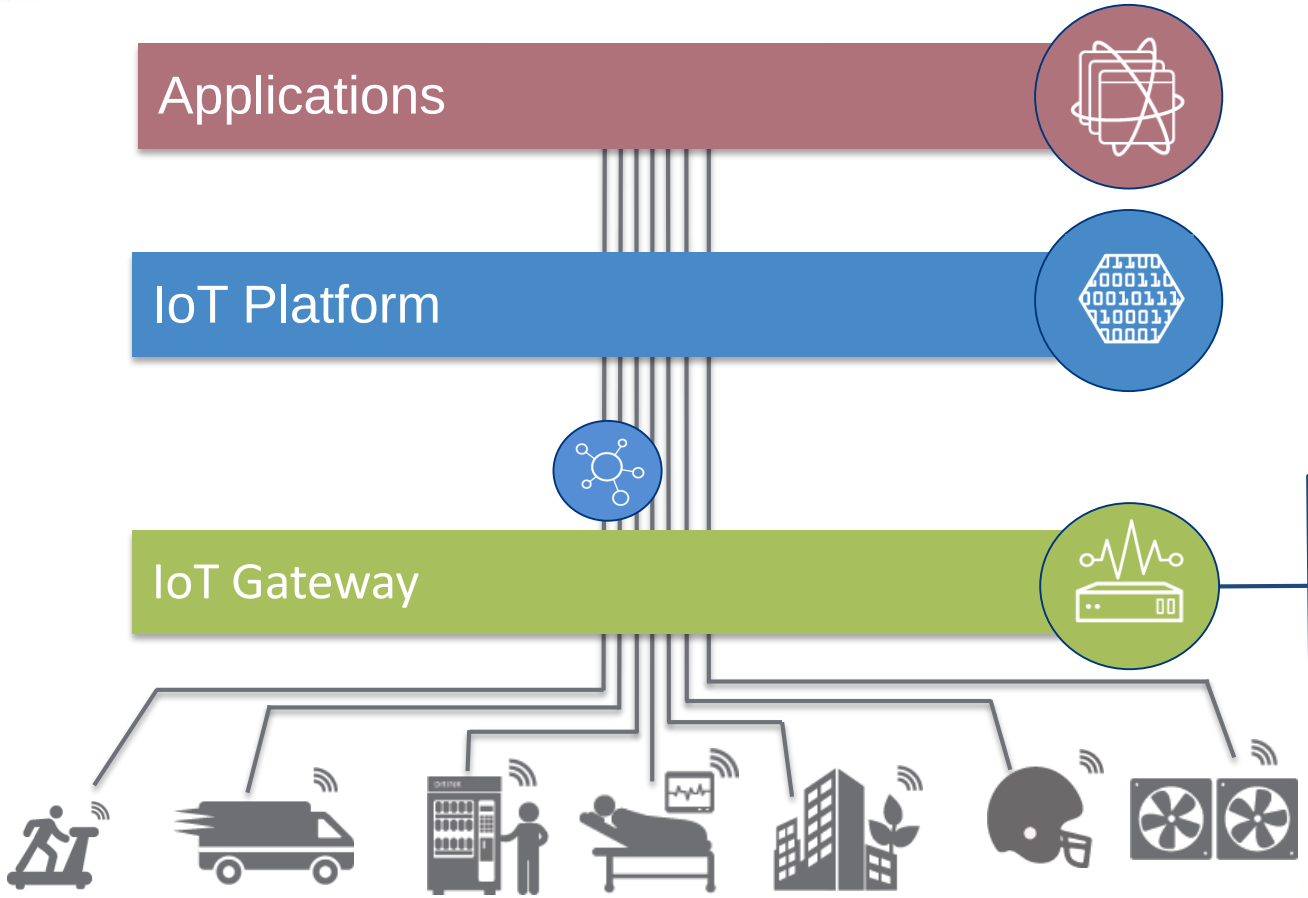
INCREASED SYSTEM SCALABILITY

DATA SUMMARIZATION

Enterprise Grade IOT Architecture



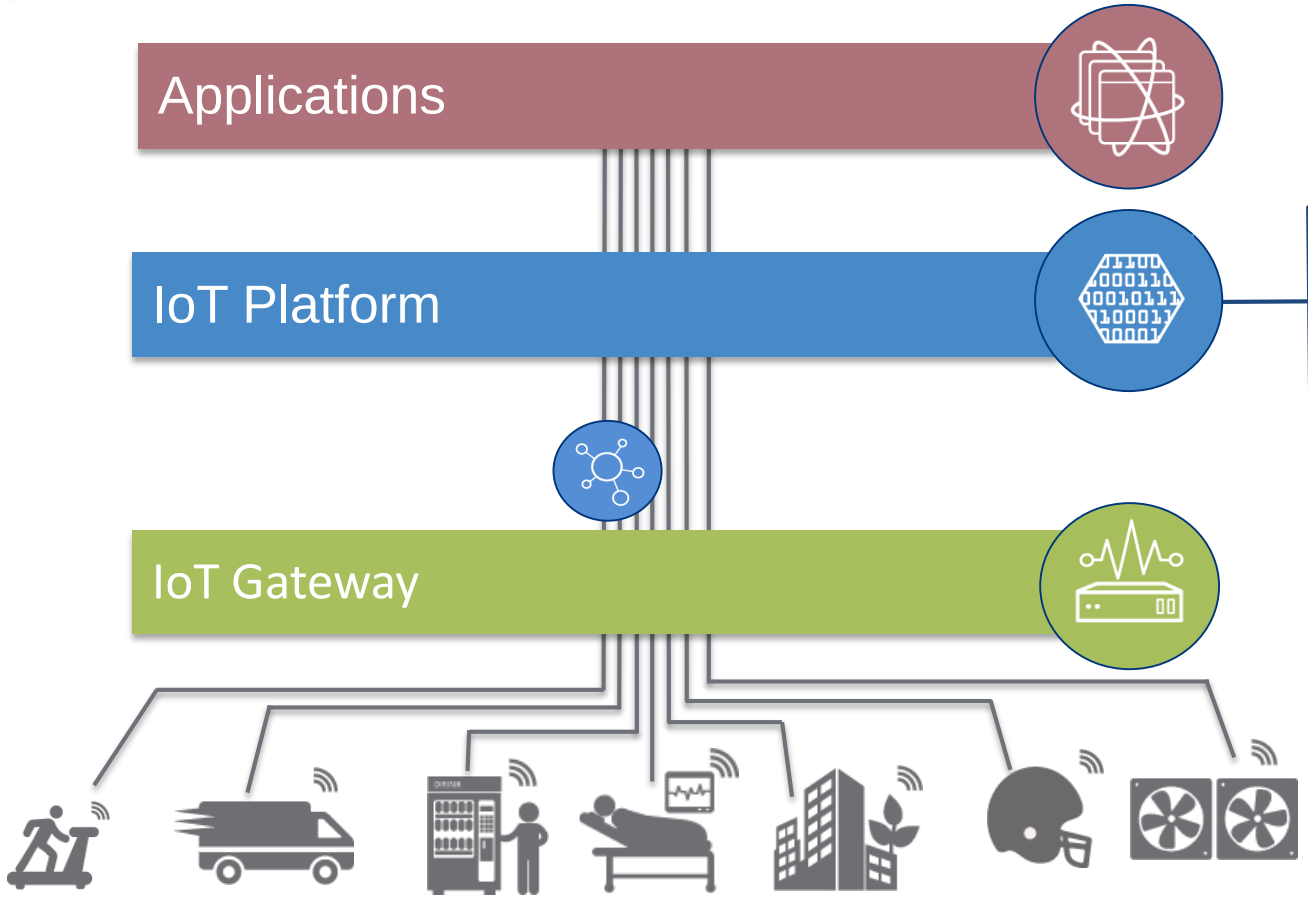
Enterprise Grade IOT Architecture



Main functionalities:

- Multiple cloud communications
- Field data acquisition protocols
- Real-time data analytics
- Real-time actions/rules
- Remote application management
- Enterprise application environment
- Flow Programming

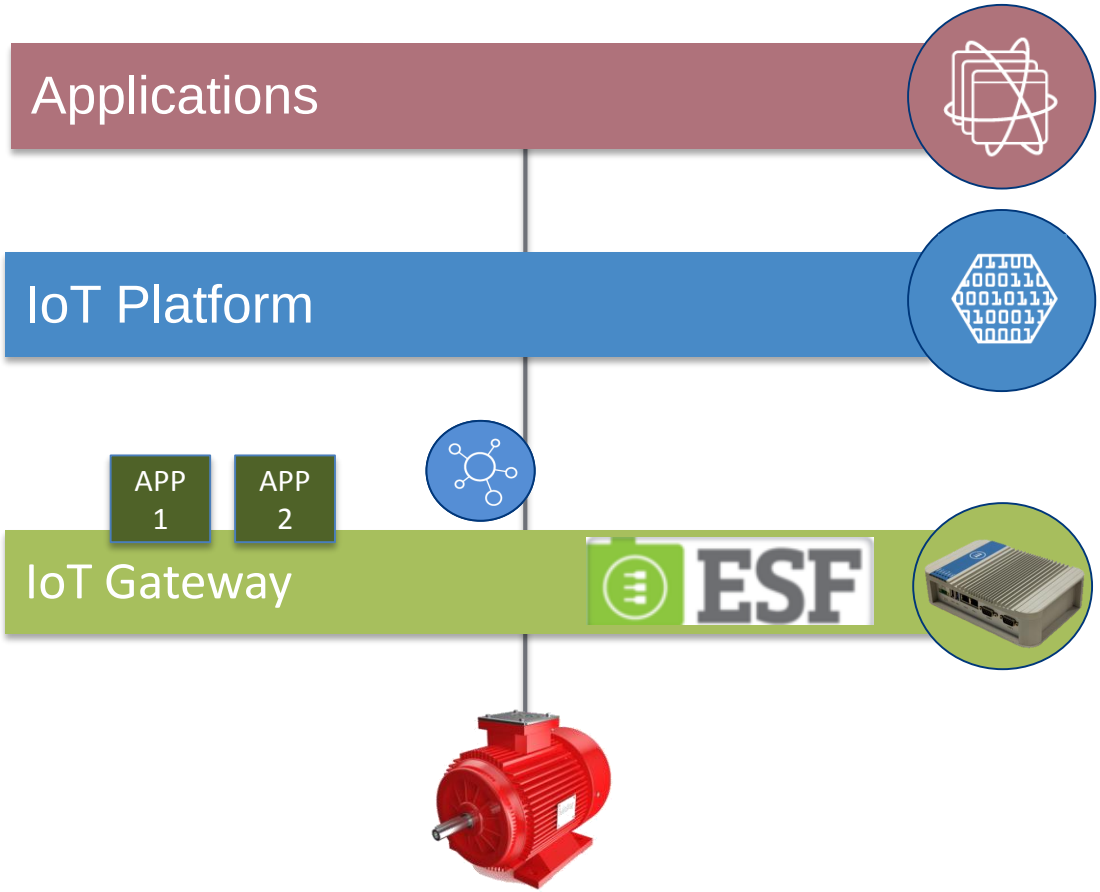
Enterprise Grade IOT Architecture



Main functionalities:

- Connectivity / Message Routing
- Device Management
- Real Time Data Management
- Long Term Storage
- Event Management
- Enterprise Integration

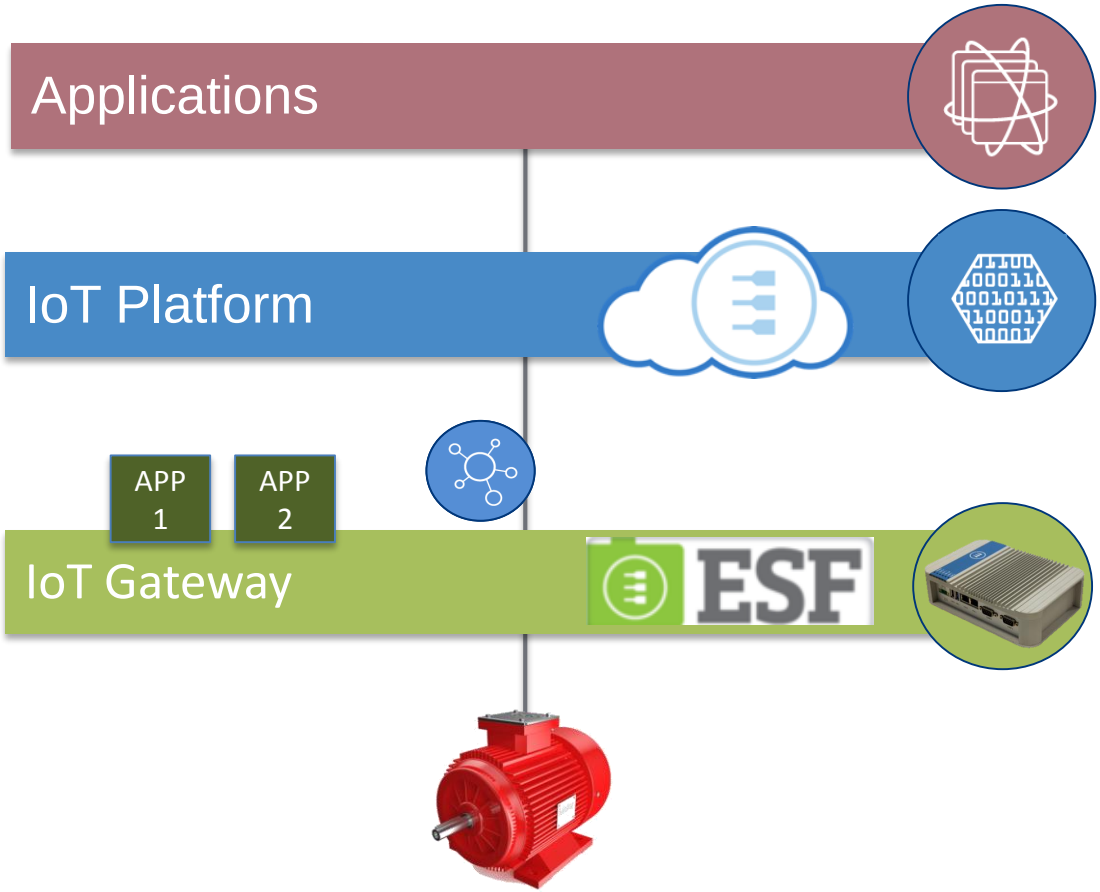
Framework for edge analytics



Everyware Software Framework™

MIDDLEWARE FOR IoT GATEWAYS

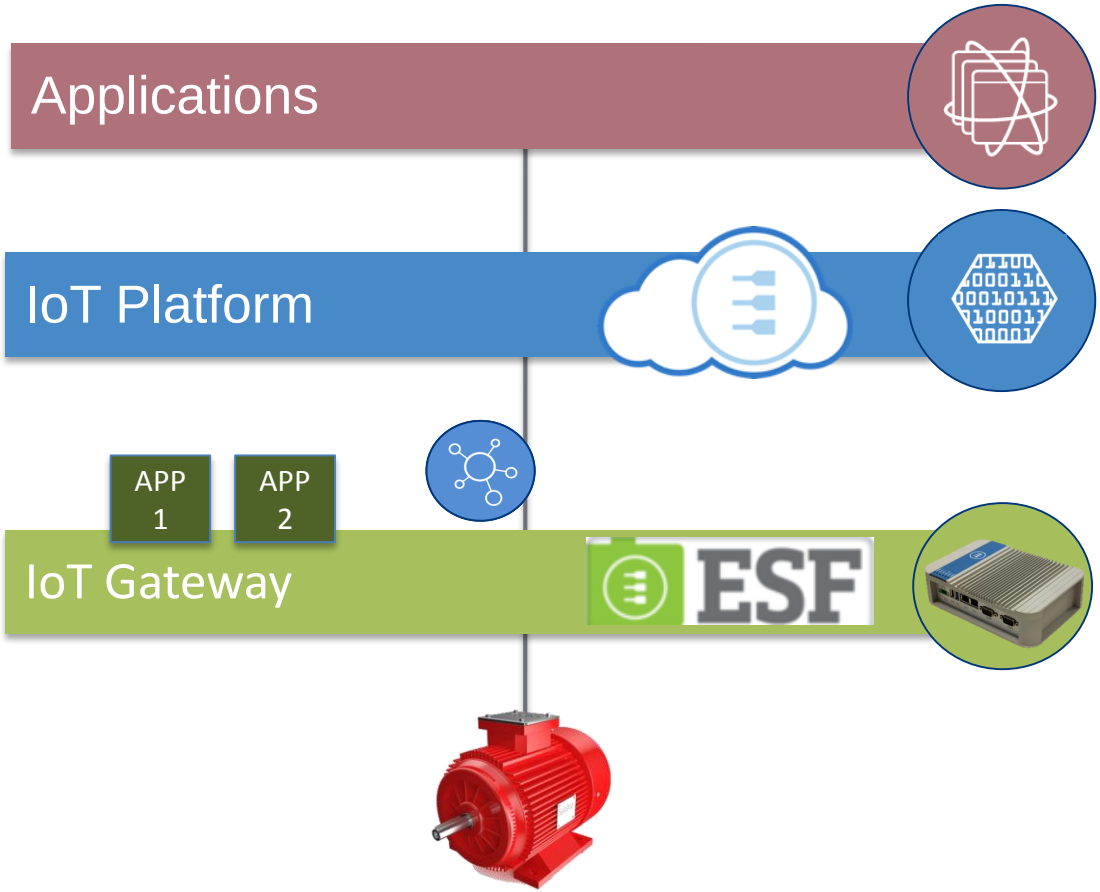
Framework for edge analytics



Everyware Cloud™
IoT INTEGRATION PLATFORM

Everyware Software Framework™
MIDDLEWARE FOR IoT GATEWAYS

Framework for edge analytics

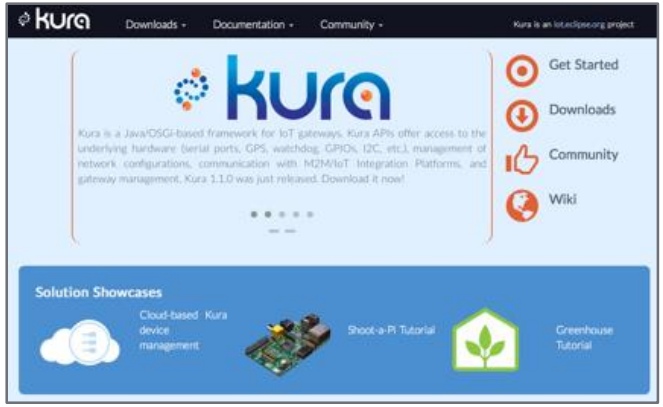


Everyware Cloud™
IoT INTEGRATION PLATFORM

RED HAT® OPENSHIFT

Everyware Software Framework™
MIDDLEWARE FOR IoT GATEWAYS

IOT and open source



Java/OSGi Open Stack for IoT Gateways

Code base donated by Eurotech

Most Active Eclipse IoT Project

Modular IoT Cloud Platform

Code base donated by Eurotech

First release Dec 2016

IBM redhat. BOSCH intel EUROTECH

IOT intelligent gateway

redhat.

POWERED BY RED HAT

- Powerful Industrial-grade IoT Gateway
- Many connectivity & I/O options
- Ships loaded with software, including Red Hat Enterprise Linux and ESF, Eurotech's Java / OSGi based Middleware for IoT Edge Computers

Gracias