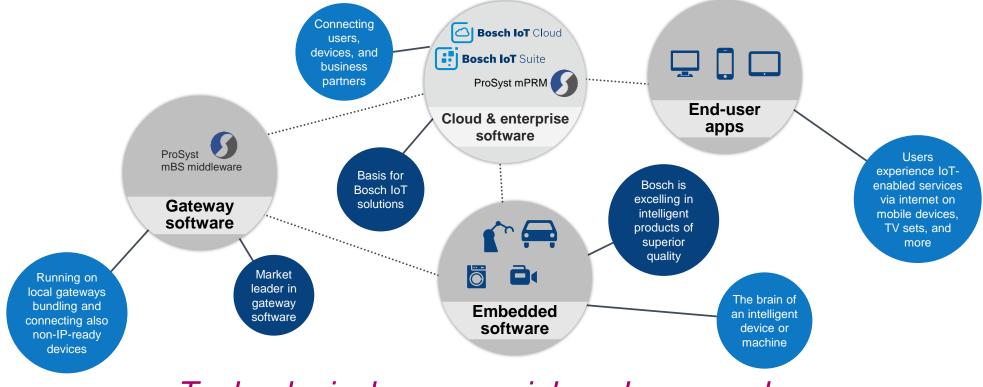
HOW THE OSGI-STANDARDS BASED GATEWAY MIDDLEWARE CAN BE USED WITH IQRF

Kai Hackbarth Evangelist & Co-Chair OSGi Residential Expert Group Bosch Software Innovations GmbH

Software components Strategic impact on IoT applications



Technological, commercial, and user angles covered through Bosch

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Our open standards approach Leading industry standards make IoT work



Bosch Software Innovations is actively involved in open standards organizations and open source communities. Additionally, our products support many additional industry standards.

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OSGi Alliance Background

Proven, Mature Software Architecture

> **Transparent Development Process**

Strategic Partnerships/ Collaboration



Global Ecosystem

Best Practices

Industry & End User Adoption

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OSGi Alliance Modularity and Services

Modular Software architecture

- Execution environment, APIs, device abstraction
- Application development framework
- Common architecture is applicable to Cloud, Enterprise, M2M & IoT architecture
- Can run locally on one device, all the way through to distributed across 1,000's of servers

Dynamic Service lifecycle enables:

- True 24/7 remote maintenance
- Remote software updates
- Aftermarket sales of upgrades and extensions

Portable and re-usable software modules enable

- Faster time-to-market
- Increased agility and reduced development effort and project risk
- Reduction in maintenance costs
- Ecosystem based solutions

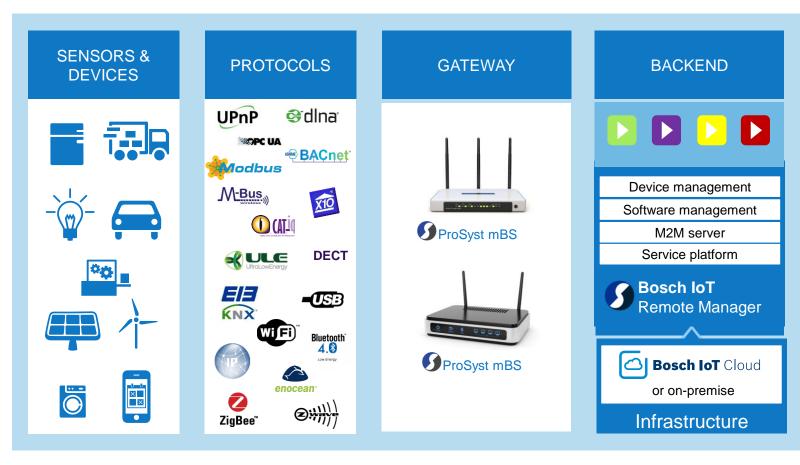
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How to visualize, evaluate and manage machine data Prosyst end-to-end open standard IoT middleware



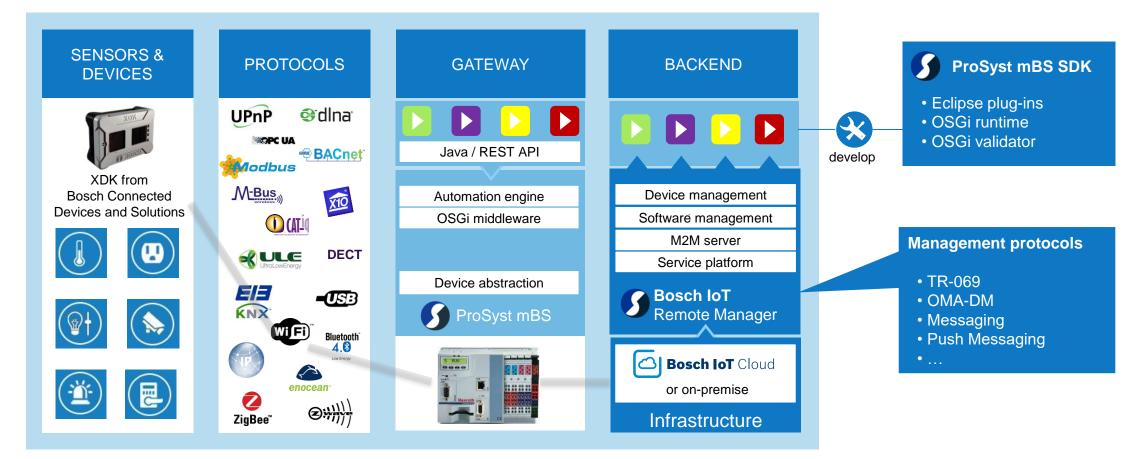
- Provides connectivity to the edge devices and machines
- Runs apps and automation logic
- Enables device management
- Remote monitoring and support
- Easy and quick access to machine data from anywhere in the world
- Reporting and performance tracking

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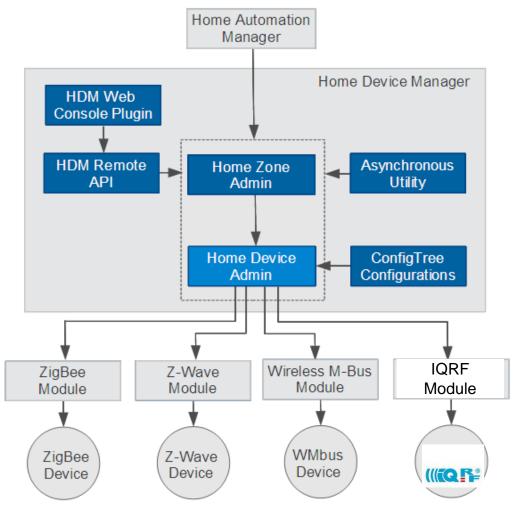
Demo: Connecting Bosch XDK & gateway to Bosch IoT Cloud Mastering the variety of protocols



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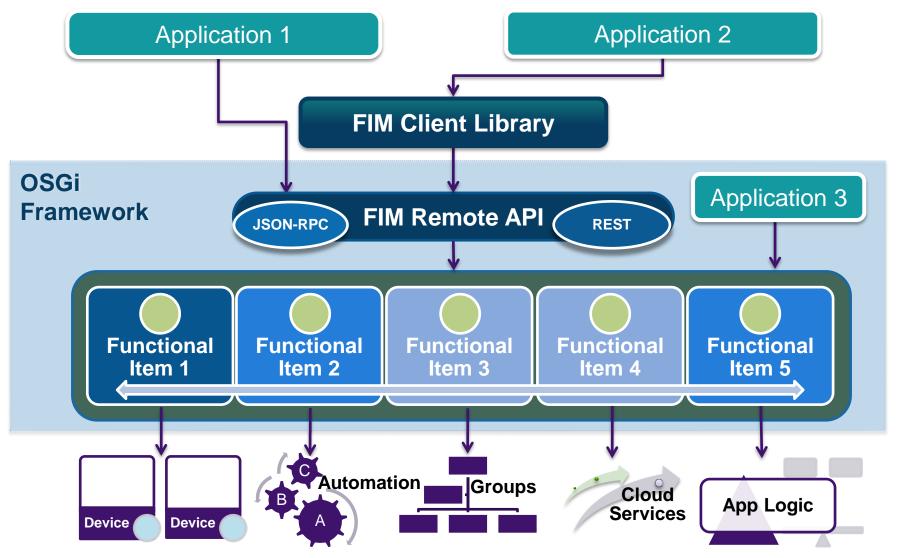
How could this work with IQRF?



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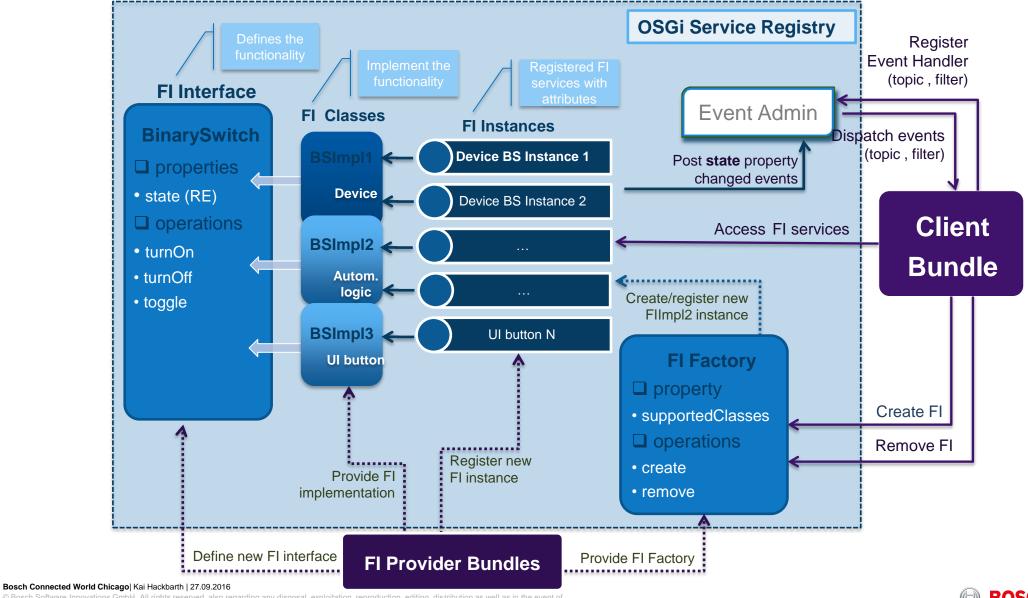


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Possible Liaison with OSGi Alliance

Joint Marketing Activities

- Cross Promotion of Events
- Joint Webinars
- etc.

-

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11

- Joint Technical Activities

- Standardized IQRF interface for OSGi
 - Incl. RFP, RFC, Reference Implementation and Compliance Tests

OSGi already liaises with other IoT organizations

- HGI, oneM2M, EnOcean Alliance

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Bosch CONNECTED WORLD THE INTERNET OF THINGS CONFERENCE BERLIN MARCH 15-16

Save the Date!

2017

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Bosch ConnectedWorld 2017 will take place March 15-16 at Station Berlin

THANK YOU FOR YOUR ATTENTION!

Kai Hackbarth

Evangelist & Member Board of Directors OSGi Alliance kai.hackbarth@bosch-si.com Tel +49 (221) 6604-410

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