The Bosch IoT Suite – Technology for a ConnectedWorld.

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Bosch Software and Systems House

Overview Bosch Software Innovations

Industry Focus
- Mobility, Energy, Industry, Banking & Insurance, City & Building

Software-Suite
- BPM, BRM, M2M, BDP

Professional Services
- Planning, Implementation, Training and Operation of Solutions, based on our Software Suite

Locations:
- Berlin, Immenstaad, Stuttgart, Chicago, Palo Alto, Singapur, Shanghai and Melbourne

Employees:
- ~ 600 worldwide
Locations

Berlin
Corporate Functions
Sales & Marketing
Product Development
Professional Services

Waiblingen
Sales
System Technology
Systems Projects
Professional Services
Product Development

Immenstaad
Corporate Functions
Sales & Marketing
Professional Services
Product Development

Singapore
Sales & Marketing
Professional Services
Product Development
Systems Projects

Shanghai
Sales

Melbourne
Sales

Palo Alto
Sales
Scouting

Chicago
Sales
Marketing
Prof. Services
Bosch Group - Business Sectors

Mobility Solutions

Industrial Technology

Energy and Building Technology

Consumer Goods
Bosch Sensortec – MEMS

1 micro-electro-mechanical-systems
Bosch Sensortec – MEMS\(^1\) Applications

MEMS\(^1\) make it possible for modern electrical appliances to “feel”.

1. Mobile
2. Home Entertainment
3. Imaging
4. Sport & Fitness
5. Augmented Reality
6. Home Appliances
7. Industrial & Logistics
8. Smart Sensors

\(^1\)micro-electro-mechanical-systems
Bosch Software Innovations

Energy
- Smart Metering
- Virtual Power Plant

Mobility
- Fleet Management
- eMobility

Industry
- Service Portal Predictive maintenance
- Smart Home Smart Heating

Building

IoT
- Individual Solutions for the Internet of Things

City
- City Navigator
- Security Dashboard

Bosch IoT Suite

Bosch Software Innovations: providing solutions for the Internet of Things

* Release end 2014
KNIME UGM 2015 - Bosch Software Innovations Partner Presentation

**Business & End User**

**User Interface**

**Design Tools**
- Editors
- Analytics Models
- Information Models
- Process Models
- Rule Models

**Design Time Repository**

**Identity Management**
- Tenants
- Users
- Roles
- Relations
- Permissions

**Common Environment**

**Business Process Management (BPM)**
- Modeling
- Simulation
- Implementation
- Execution
- Monitoring
- Reporting

**Business Rules Management (BRM)**
- Modeling
- Optimization
- Administration
- Deployment
- Execution
- Monitoring

**Big Data Processing (BDP)**
- Data Access
- Transformation
- Data Mining
- Data Analytics
- Visualization

**Device Management (M2M)**
- Device Integration
- SW-Provisioning
- Central Registry
- Event Management
Principles of the Bosch IoT Suite

Model based approach
- Homogeneous & interactive modeling tools
- All components and systems are represented and controlled by models

Service oriented
- Consistent implementation of Service Oriented Architecture (SOA) principles
- Orchestration of cloud services at runtime

Cloud based

Openness and flexibility
- Using OSGi framework based on Java Virtual Machines
- Strong use of standards and open source to maximize independence of HW/SW platforms and re-usability across domains
Big Data Processing (BDP)

- Enable domain experts, data scientist, and system integrators to perform mining and analytics of big data that is provided by or available within the Bosch IoT Suite.
- Graphical modeling approach using the KNIME Analytics Platform that combines data access, data transformation, initial investigation, powerful predictive analytics and visualization.
Example - Smart Warehouse
Thank you!

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