Building Automation at codecentric Headquarters

A Look Behind the Scenes

Christina & Anna

codecentric
WHO ARE WE?

CHRISTINA

ANNA
codecentric AG
10x in Germany
WHY?

Laziness
WHY?

- Improvement
- Security
- Fun
ARCHITECTURE

Sensor system — AWS — Message Broker — openHAB — bus system — Browser — User
BUS SYSTEM

- heating, BacNet
- window, KNX
- shutters, KNX
- lamps, KNX
- ...

(codecentric)
WHY KNX?

new building
standard
future-proof

sensor support
shutter controlling
lamp controlling

our electrician knows KNX
WHY openHAB?

- KNX independent
- multi. Bindings
- OpenSource
- KNX, BacNet
- UI-App
- Rule Engine
- MQTT
WHY MQTT?

UI

MQTT Broker

openHAB

Other Apps

AWS
WHY MQTT?

UI

MQTT Broker

openHAB

Other Apps
WHY MQTT?
SmartBuildingBoard
Cafeteria

22.99

CAFETERIA_DECKENLEUCHTE_EINGANG
Aus

CAFETERIA_DECKENLEUCHTE_MITTE
Aus

CAFETERIA_DECKENLEUCHTE_TEIL
Aus

06.09.2018 11:40 - 12:40
Abstimmung Projekt XY

06.09.2018 12:40 - 13:40
Bewerbungsgespräch
SmartBuildingBoard

Accessible  Intuitive  Clear
ALTERNATIVES

- Other Framework
- Commercial Solution
- openHAB
SO WHY WRITE OUR OWN?

Hackathon  BabylonJS  extendable
WHAT ELSE?

- Meeting rooms
- Pool table
- Coffee machine
- ...

Sensor

AWS IoT

AWS

UI

- Database
- AI
- App
- ...

Rest
LESSONS LEARNED?

- isolation
- fallback
- naming
- closed system

- intuitive
- extendable
- use case
- challenge
Stay connected

Our mission – to promote agile development, innovation and technology – extends through everything we do.

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QUESTIONS?

COME TALK TO US!

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