

Industrial IoT — Digital transformation of the factory

CloudRail

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Agenda

- Industrial Internet of Things (IIoT)
- Customer reference
- CloudRail solution
- Live demo
- IIoT starter bundle
- Summary
- Q&A



IoT devices

What is IoT?

IoT refers to the connection of physical devices to the internet.

Why do devices need to be interconnected with the internet?

- Gather and analyse collected data
- Trigger control functions
- Tracking of devices



Example: Benefits for the operator of smart solar panels

Trigger alarms in case of malfunctions or anomalies

Monitor the energy generation from a central system

Switch on electronic devices to consume generated energy



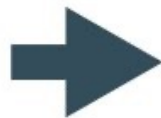
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Industrial IoT (IIoT)

Connect machines to cloud-services to:

- Real-time production monitoring
- Acquisition of process parameters
- Analyse gathered production data
- Enable Predictive Maintenance



Value created by IIoT services:

- Maintenance process improvement
- Reduction of waste
- Supply chain integration
- Vendor asset monitoring



Customer: Healthcare manufacturing organization

- Top 5 pharmaceutical manufacturer
- Over \$30B annual revenue
- More than 70 manufacturing sites across 32 countries
- Provides healthcare solutions across 170 countries



Customer challenge: Lack of valuable production insights

Use case:

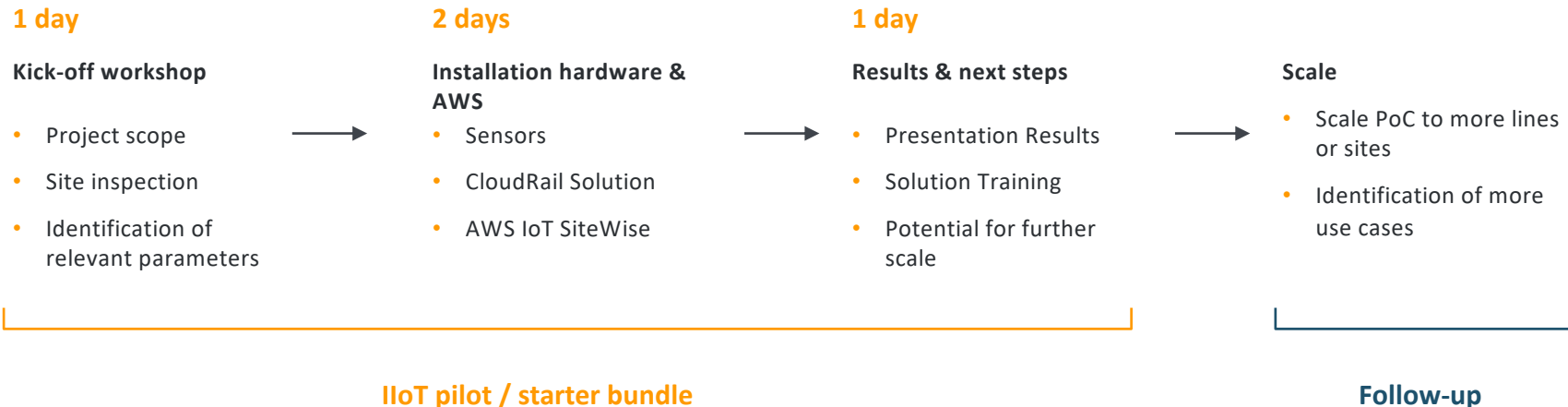
- Producing tablets in tubes at 220 tablets per minute
- Limited quality assurance at only 4 checkpoints

Missing insights:

- Scrap factor
- OEE factor
- KPIs
- Potential for higher efficiency



IIoT implementation with Bechtle



Improved KPI tracking with Bechtle



Central tracking of KPIs

- Processing time
- Scrap analysis
- KPIs & OEE



Project completed realized within 4 days



Next steps and process improvements defined



Scrap rate reduction from 20% to 8%
(7k€ savings / day)



CloudRail solution

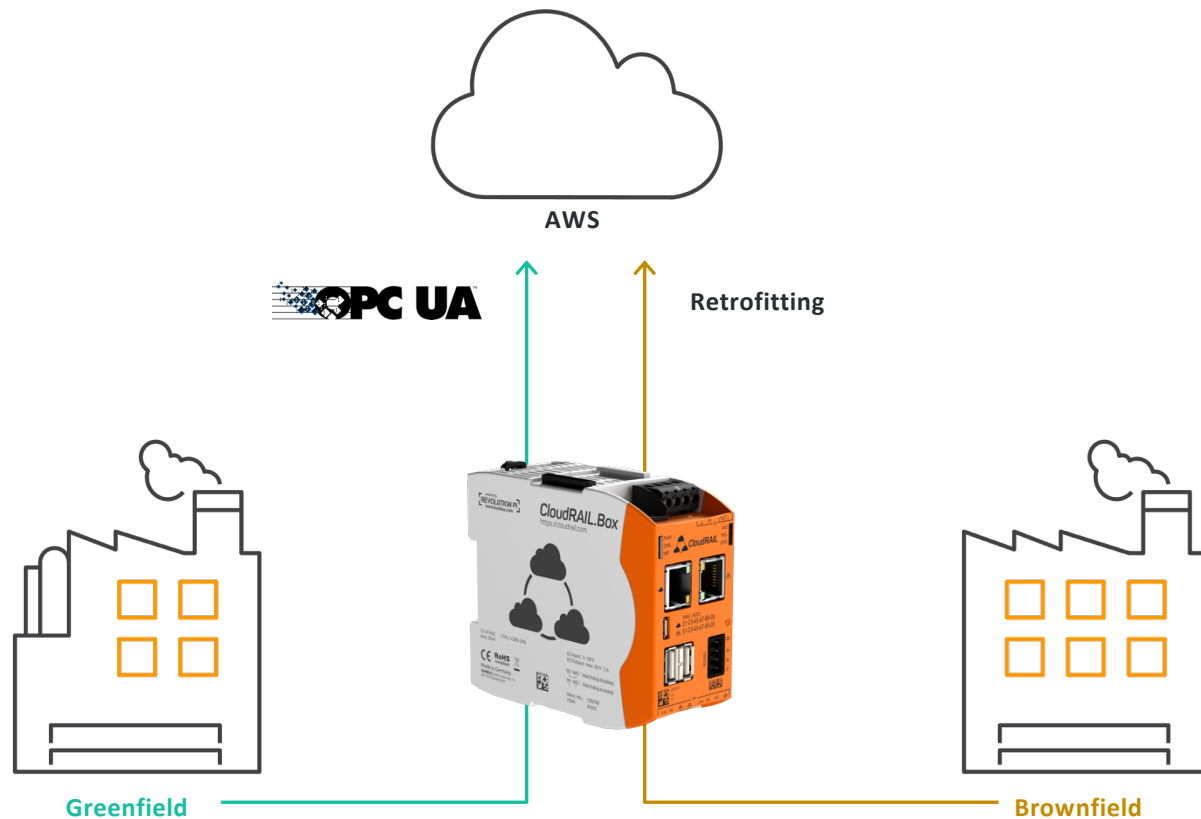
Challenges connecting to IIoT



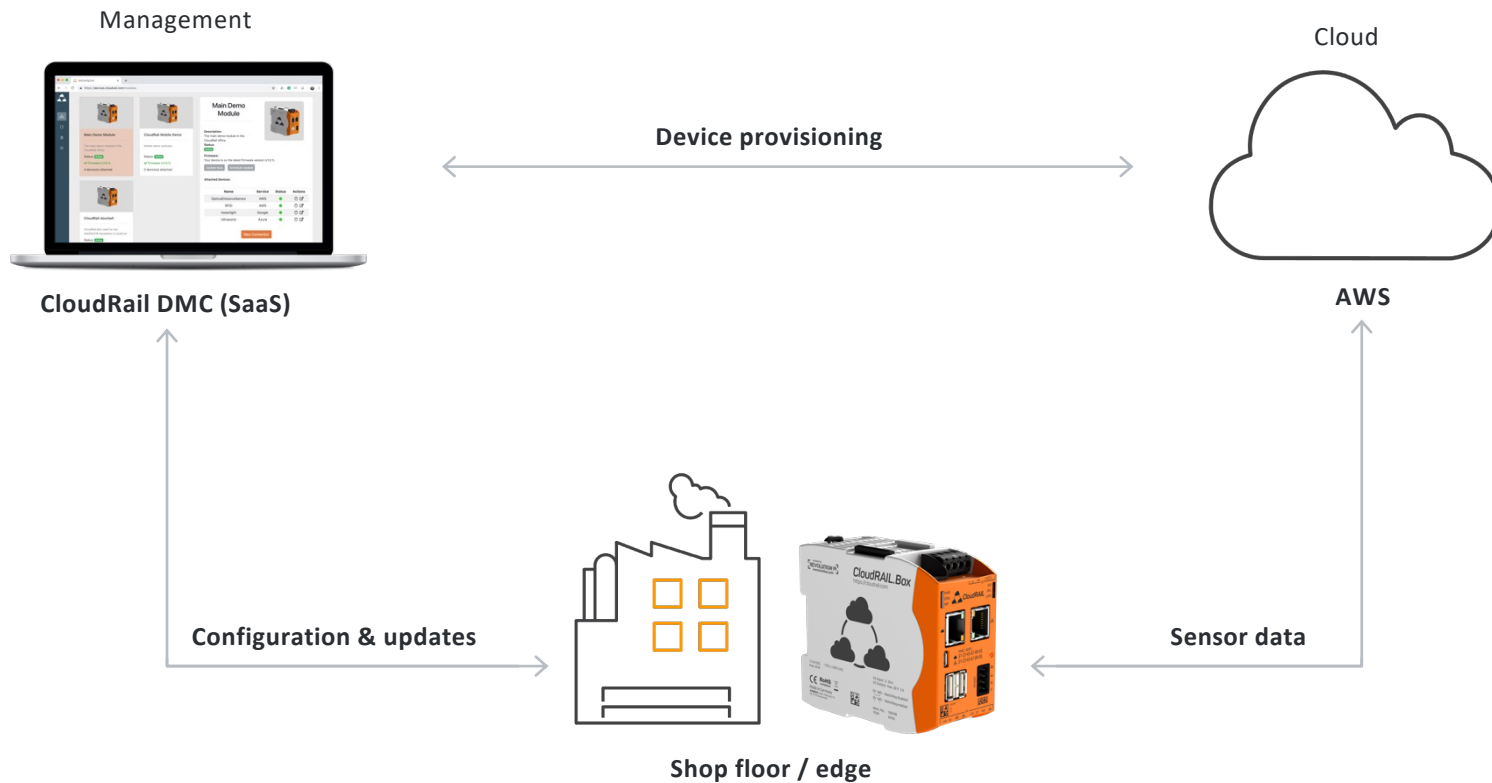
Connectivity challenges

- OT / IT compatibility
- Security
- Scale
- Cost

CloudRail on AWS



CloudRail solution

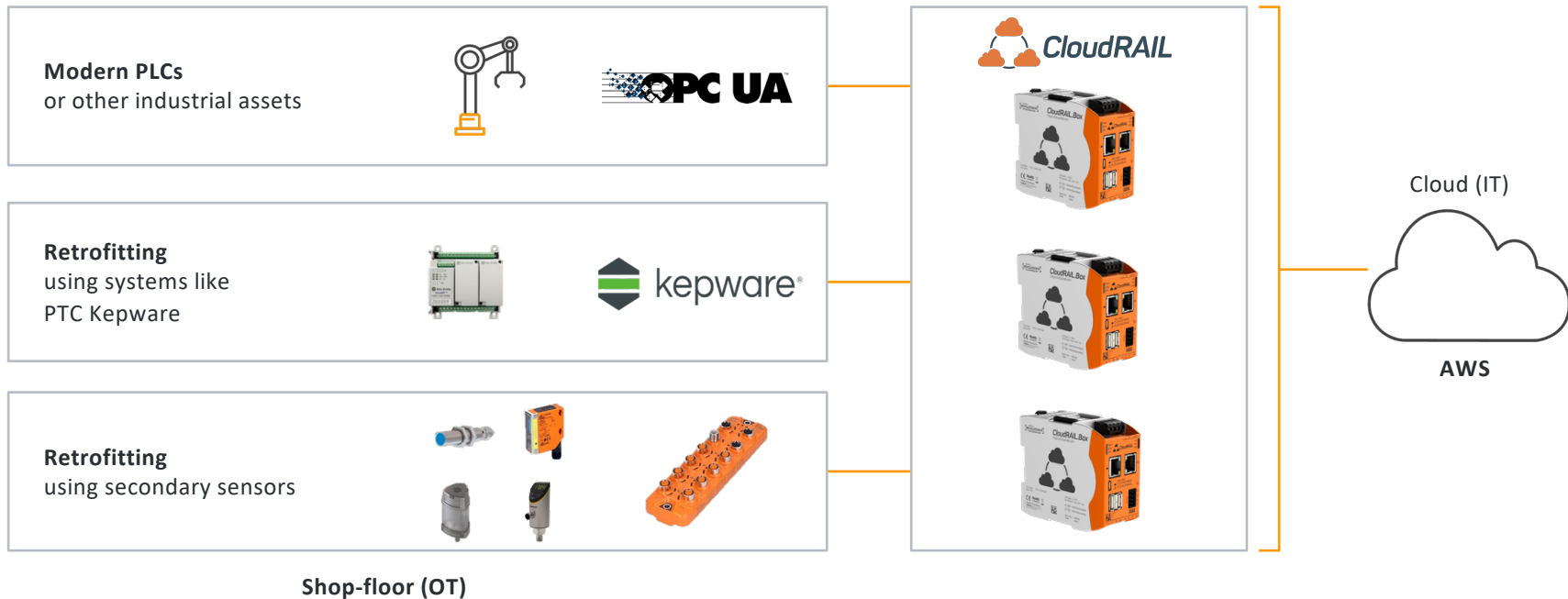


Live demo

CloudRail & AWS IoT SiteWise

Connect any type of industrial machinery to the cloud

CloudRail acquires all data from the shop-floor (OT) and provides it ready-to-use for IIoT applications (IT)



Bechtle & IIoT starter bundles

IIoT starter bundles

Components



Sensors



Gateway



Platform



Professional service

- Kick-off workshop
- Implementation
- Configuration
- Hands-on training
- Follow-up workshop

4.500 €

(excl. VAT)

Offering

- Components
- 3-month subscription
- Prof. services



Bechtle & CloudRail drives your IIoT journey by...

1

...enabling faster IIoT projects at lower cost



- Automated plug & play device provisioning connects industrial assets to any cloud within hours instead of weeks
- Centralized & cloud-based management lowers maintenance costs
- Starter bundles include all required components and services

2

...providing secure edge-to-cloud communication



- Fulfilment of IT security and compliance requirements for enterprise customers from industries such as FMCG, pharma & healthcare and industrial equipment
- Automatic remote updates and security patches

3

...enabling future-proof data acquisition



- Single standardized solution for brown- and greenfield data acquisition
- Scalable solution from the first PoC to the roll-out of an IIoT-ecosystem with up to millions of installations

4

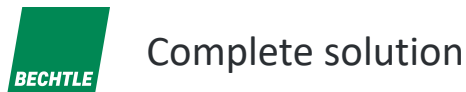
...providing strong project know-how



- Largest Systems Integrator in EMEA
- Certified AWS experts at 70 sites across DACH
- Strong IoT expertise

Summary & next steps

Partnership



Start your IIoT journey:

- Discuss your IoT needs
- Request a live demo
- Talk to IoT experts
- Order an IoT starter bundle

<https://cloudrail.com>

Thank you!



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