Federated data quality as a service in industrial IoT

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Problem statement – An overview of manufacturing a product
What is Data Quality

- A measure of the “health condition” of data
- Can you trust data produced by sensors during industrial process
- Can these data be used for automation and to make good decisions
What is federated in a data quality context?

**Federated data quality management** enables data quality rules to be developed, shared, used and trusted across multiple organisations.
A solution to combat the problem statement: Federated Data Quality

Synergies through shared knowledge, learning and investment

Federated Data Quality

Common data management, data governance and security model
Data Quality as a Federated Service – DQaaFS

Client apps

- App
- App

API Gateway

- Identity provider sign-on

Data Quality via Microservices

- Repair
- Stream
- Historical
- DQ - Custom

Logger

Hallmark

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Summary – take aways

• There should be more focus on data quality in industrial IoT
• Federated data quality should be widely applied to multi-actor industrial IoT
• Federated data quality can be a pre-requisite to improving federated learning
Thank you

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