

CIM experience at EWE

Topology Data ESB and eTelligence

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Agenda



1. Introduction
2. Motivation of CIM at EWE
3. CIM Topology Data ESB
4. CIM at eTelligence
5. Next steps / Lessons learned

Introduction: Authors



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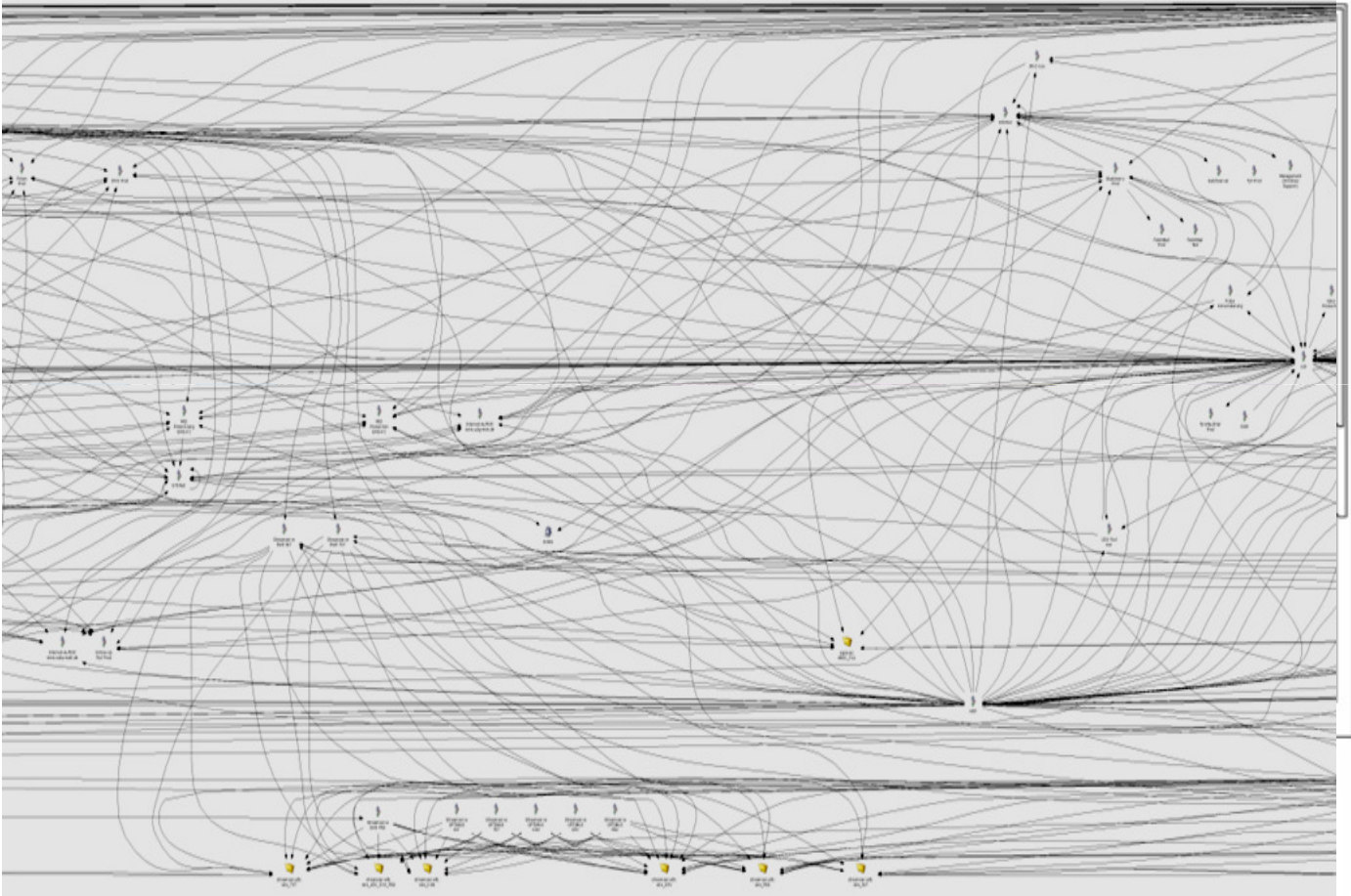


EWE – The multi-service company

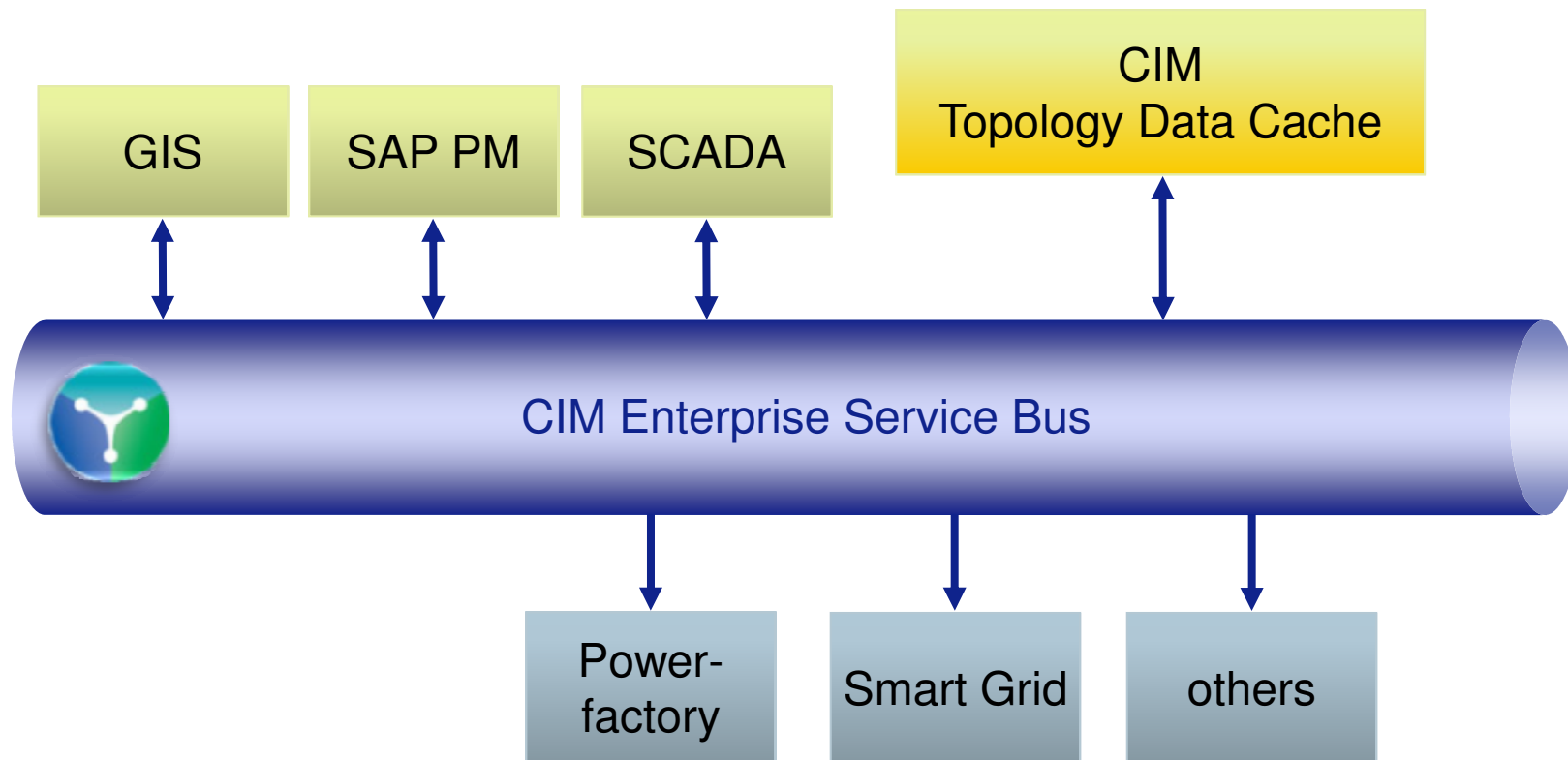


- EWE ranks among Germany's largest energy services companies
 - recorded sales of €5.8 billion in 2009
- the EWE Group supplies
 - electricity to 1.4 million customers
 - natural gas to 1.5 million customers
- EWE NETZ operates one of the safest electricity networks in Europe
- As an innovation driver EWE is strongly committed to research and development

IT at EWE and the need for standards like CIM



CIM Topology Data Cache



CIM Topology Data ESB

Facts and Benefits



Facts

count	object
21.352	Lines (medium-voltage)
223.360	AcLineSegments
17.669	Substations
5.587	Breakers
1.328.528	total CIM objects

Benefits

- Common semantic on ESB
- Reduce of integration costs
- Integrated view on topology data

Question

- How do we handle different versions of CIM?

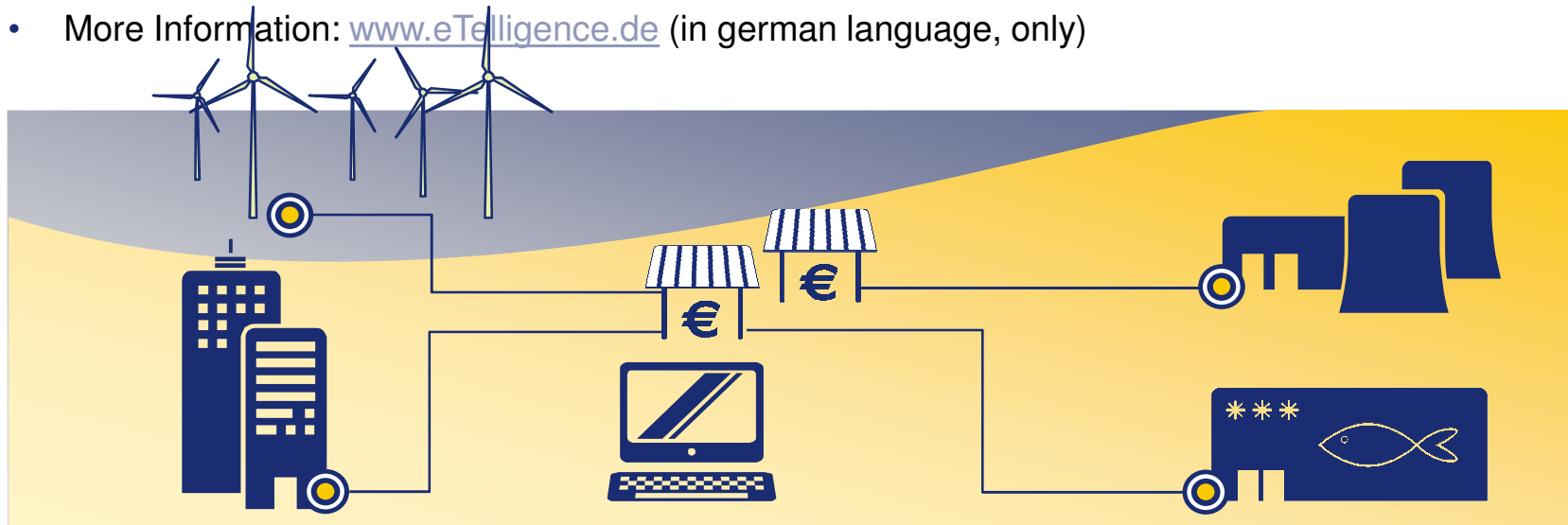
EWE – Research for the future

eTelligence in practice



eTelligence, a practical model of the energy supply of the future:

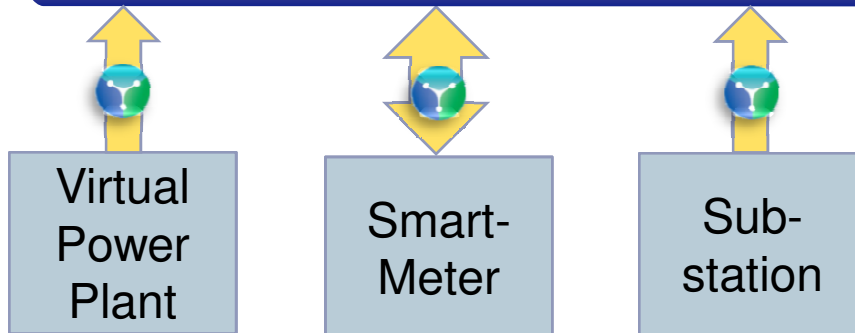
- Power producers, energy service providers, network operators and consumers are networked in an intelligent way and connected in a virtual marketplace
- The project was launched in autumn 2008 in Cuxhaven
- eTelligence is a winner of the German Federal Ministry of Economics and Technology's E-Energy technology competition
- More Information: www.eTelligence.de (in german language, only)



Communication in eTelligence via IEC 61968-9



eTelligence Enterprise Service Bus



Processes

- Get MeterReadings
- Get aggregated MeterReadings
- Send MeterReadings
- Get lost MeterReadings

Next steps



- **Collect experience with CIM in the production environment**
- **Extend Topology Data ESB with more information about assets**
- **CIM communication with PRINS NG (SCADA)**
- **Extending CIM for natural gas and water**

Lessons learned

- **There is more than one way to design a message**
- **We consider the standardisation of CDPSM than necessary**
- **Concrete examples could improve the use of standards**
- **The integration of new version of the CIM create a large amount of effort and version handling is a challenge**

Thank you for your attention.

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