

CIMBench

Dr. Wolfram Krause EWE / Michael Gründler BTC



Agenda



1. Introduction
2. CIMBench
3. CIMBench demonstration
4. Conclusion

Introduction: Authors



Dr. Wolfram Krause



Research & Development

Fon: +49 (0) 44 88 5220 -101 EWE
Fax: +49 (0) 44 88 5220 -120 Tirpitzstr. 39
Wolfram.krause(at)ewe.de D-26122 Oldenburg
www.ewe.de



Michael Gründler



Software Engineer

Fon: +49 (0) 441 36 12 – 0 BTC AG
Fax: +49 (0) 441 36 12 – 39 Escherweg 5
99 D-26121 Oldenburg
Michael.gruendler(at)btc-ag.com www.btc-ag.com



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

The need of CIMBench

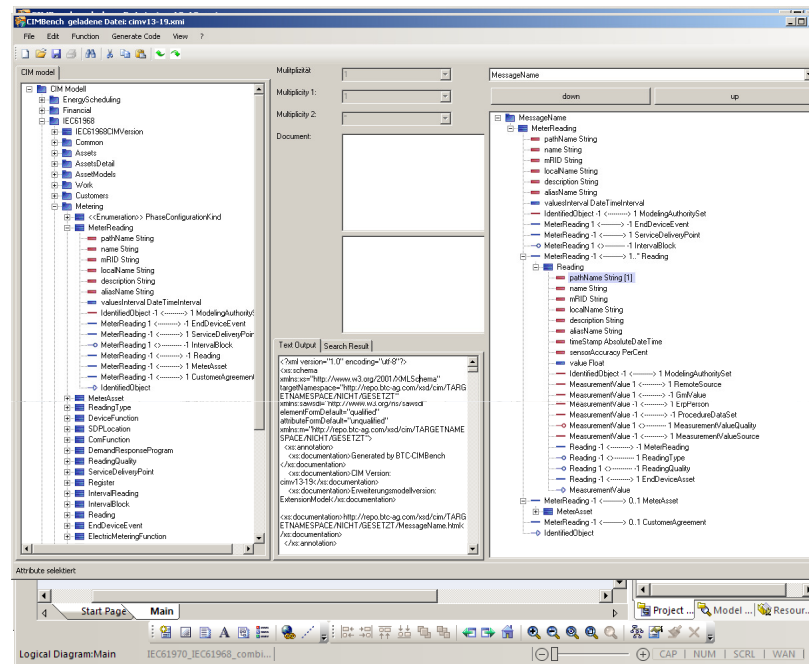


- Ensure the conformability to IEC 61968 and IEC 61970
- Comfortable generation of CIM based XML Schema per drag 'n' drop
 - exploring the model for details
 - searching for classes, attributes
 - translating the CIM
 - generating different APIs in C# or C++
 - comparing 2 versions of the CIM
 - generating documentation for our CIM Repository Server

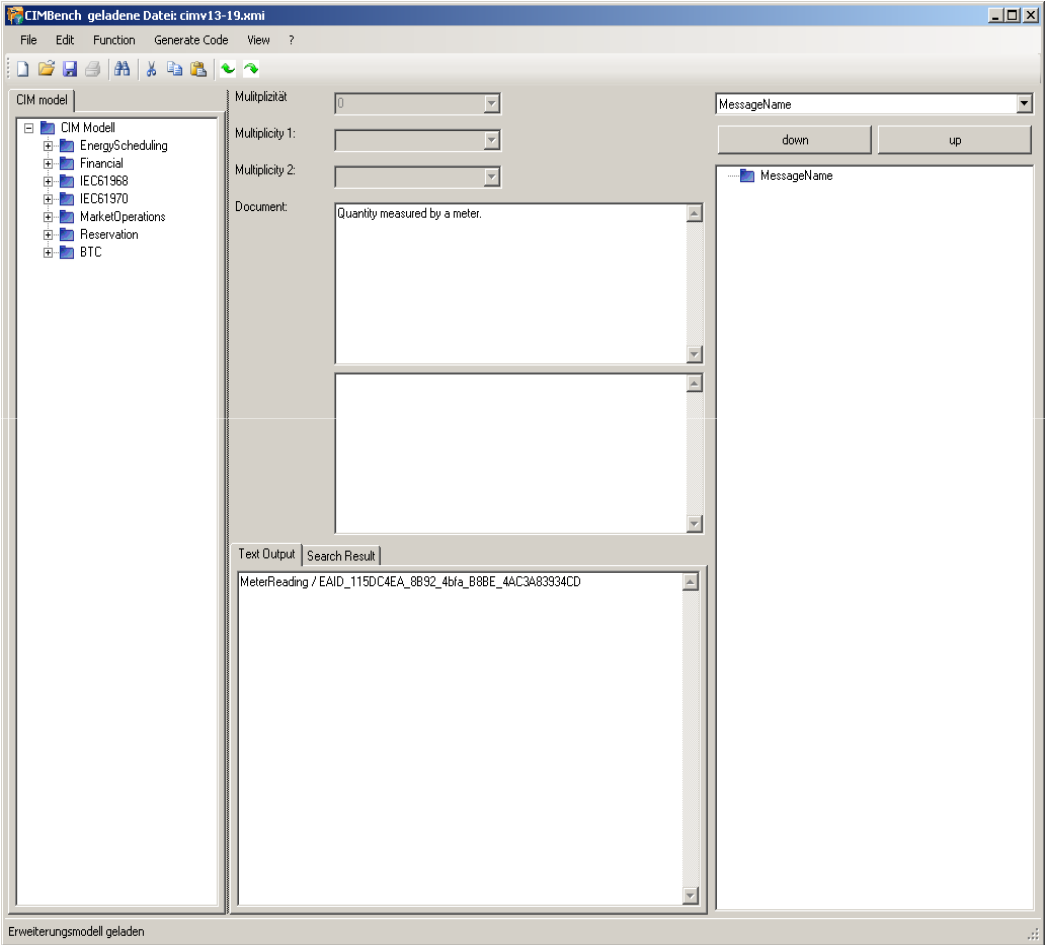
4 Steps from CIM to XML Schema



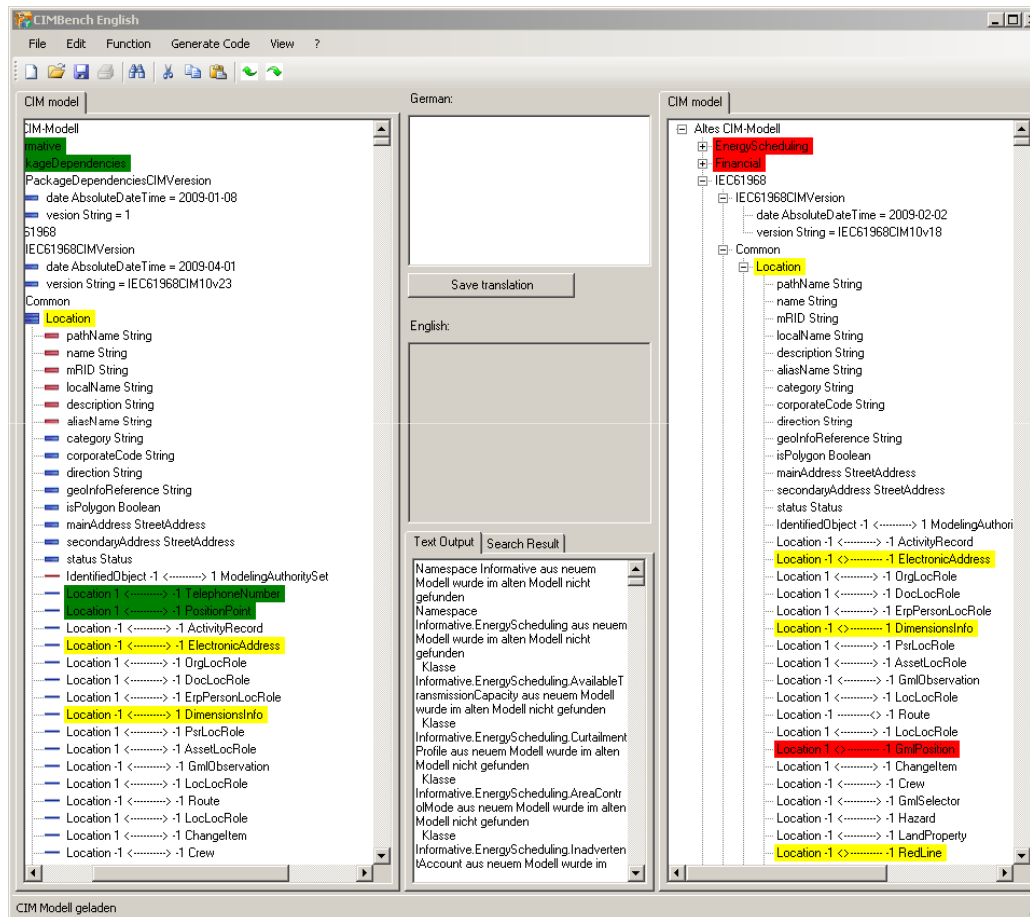
- 1 Get CIM model as EA Project from CIM Users Group
- 2 Export CIM model as XMI
Develop extension model and Export as XMI
- 3 Load CIM model as XMI
Load extension model as XMI
- 4 Develop and generate CIM based XML Schema with CIMBench



Demonstration of the CIMBench



Comparing of two CIM versions



Yellow: Differences of the element between old and new CIM

Red: Element is no more part of the new CIM

Green: Element is new and not part of the old CIM

Conclusion



- CIMBench became a central tool for our CIM related development process covering the functionalities
 - development of CIM based XML Schema
 - exploring the CIM
 - comparing CIM models
- If you are interested at CIMBench please contact
 - wolfram.krause(at)ewe.de or
 - ralf.walther(at)btc-ag.com

Thank you for your attention.

EWE Aktiengesellschaft

Tirpitzstraße 39

26122 Oldenburg

Germany

T +49 441 803-0

www.ewe.de

