

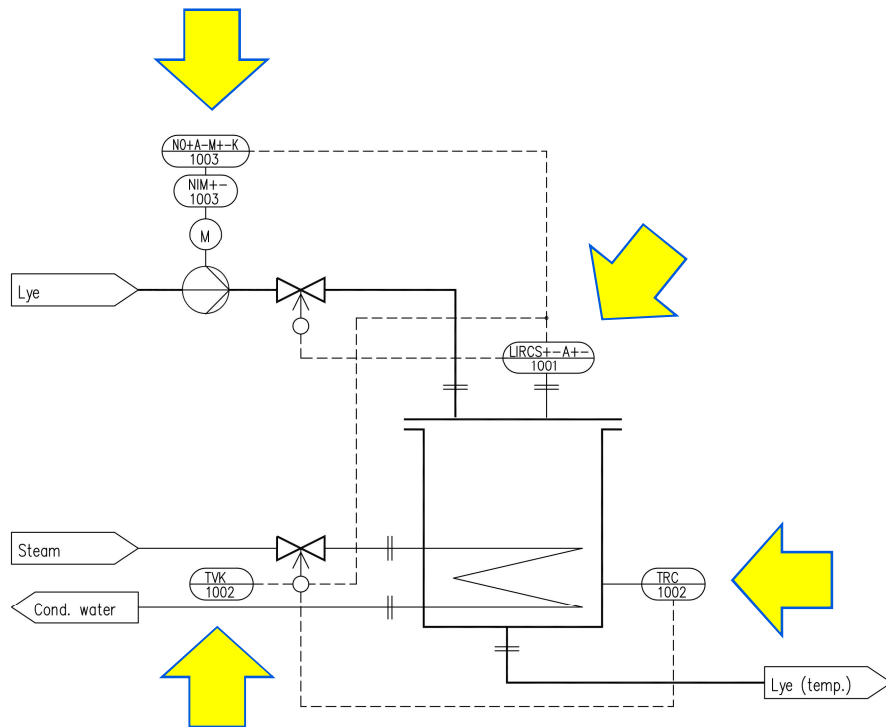


Rainer Drath, ABB AG Corporate Research Center Ladenburg

Namur Data Container

Fast standardization of PCE requests (PLT-Stellen, Mess-Eier)

The NAMUR Data Container



In short: We have developed an electronic data model for PCE requests = NAMUR Data Container.

This has not be achieved for decades.

It bases on 2 key innovations.

Key technical innovations



Innovation 1: Mixed Semantics



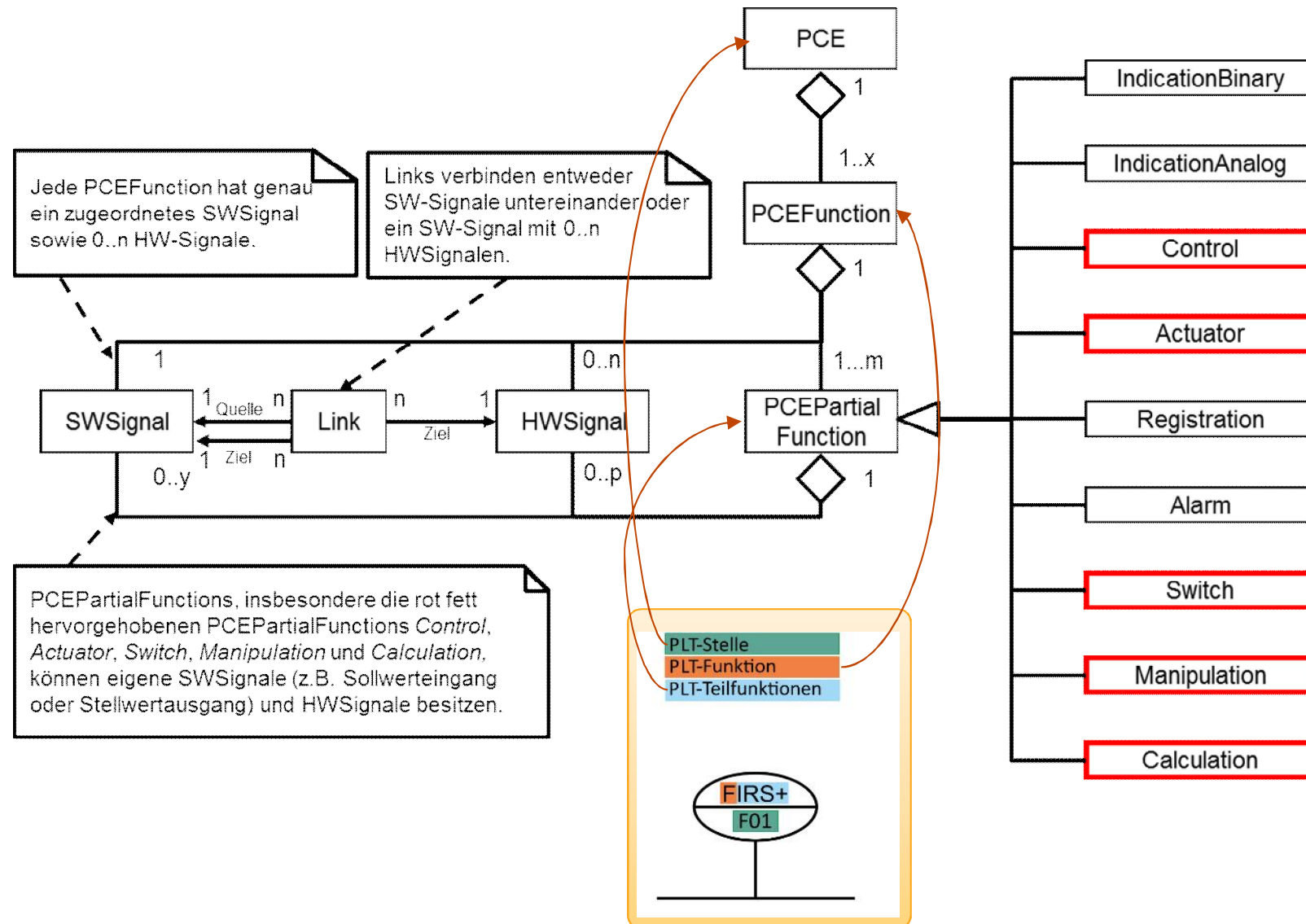
Innovation 2: Agile and innovative standardization process

[Drath R., Barth M.: Wie der Umgang mit unterschiedlichen Datenmodellen beim Datenaustausch im heterogenen Werkzeugumfeld gelingt. AUTOMATION 2013, VDI/VDE GMA, Baden-Baden, Germany, 2013.]

[Tauchnitz, T.: Schnittstellen für das integrierte Engineering. atp – Automatisierungstechnische Praxis 56 (2014) H. 1-2, S. 30-34.]

Data model of a PCE-Request

Technical Details, combining AutomationML with NE150



Status: Namur Data Container

Participants

| Company | Speaking partner |
|------------------------------------|-----------------------|
| ABB | Dr. Rainer Drath |
| Aucotec | Martin Imbusch |
| BASF SE | Meinrad Rämisch |
| eCI@ss / PROLIST | Jürgen George |
| Emerson | Raimund Kahl |
| ESP | Jürgen Bannert |
| Evonik | Thomas Scherwietes |
| Helmut-Schmidt-Universität Hamburg | André Scholz |
| Honeywell | Matthias Rose |
| NAMUR | Dr. Thomas Tauchnitz |
| Pepperl + Fuchs | Jürgen George |
| Rösberg | Martin Dubovy |
| RWTH Aachen University | Andreas Schüller |
| Sanofi-Aventis | Dr. Thomas Tauchnitz |
| Schneider Electric | Marcel Rameil |
| Siemens | Martin Westrich |
| Technische Universität München | Johann Hufnagel |
| VDI/VDE-GMA | Dr. Heinz Bedenbender |
| Yokogawa | Tim-Peter Henrichs |

Achievements within 10 month

→ Data format agreed: AutomationML

→ Data model developed based on NE 150

→ SW interfaces developed for 7 engineering tools (ABB, Siemens, Yokogawa, AucoTec, Rösberg, ESPLan)

→ All results are presented 2014 at the Namur Main Meeting by Dr. Tauchnitz (Sanofi Aventis) in front of chemical and pharmacy industry.

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