

Current situation in our selected industries

Product/equipment data modelling tools

- product description
- classifications
- methodologies for exchange of data
 - ISO 15926-7
 - OntoML
 - ISO 10303-21
 - BMEcat
 - various XML schemas
- catalogues
- Knowledge Mgmt

Plant Life Cycle

- Feasibility and definition
- Plant Design / Planning
- Equipment Procurement
- Plant construction / assembly
- Plant operation
- plant maintenance
- plant decommissioning

data models / dictionaries / ontologies / interfaces for products and equipment

- plant structure
 - ISO 15926
 - Gellish
- equipment description
 - process equipment
 - PIDX
 - eClass
 - AEX
 - PAS1040
 - instrumentation and control
 - NE100 (engineering)
 - PIDX (business processes)
 - eClass (procurement)
 - ISO13584-501 (engineering?)
- environment description
 - instrumentation and control
 - NE100
- operational data
 - ISO15926-PWlxx
 - OPC (protocol for accessing data)

Services

- outsourcing of some of the other areas

actual plant equipment

- process equipment
- instrumentation and control
 - hardware
 - software
 - supplied with equipment
 - application configuration software

Transactions / business processes

- internal within a plant
- external, between companies
- transactions existing in current practice, = first priorities
 - request
 - offer
 - technical + commercial
 - RFx
 - order
 - invoice
 - remittance advice
- transactions under development = 2nd priority
 - logistics
 - catalog management
 - payment
 - ...
- relevant standards
 - chemical industry
 - CIDX
 - oil and gas
 - PIDX
 - general
 - UNCEFACT
 - electronic equipment
 - RosettaNet
 - Pulp and paper
 - Papinet
 - general
 - Opentrans?
 - general
 - EDIFACT

Footnote: Product and equipment mean the same from different perspectives: Product is the view of the manufacturer, equipment is the view of plant owner