eCl@ss –
Industry 4.0, the role of eCl@ss here and an implementation at SAP"

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Board Member, eCl@ss e.V.
Standard Architect SAP SE
Addes value of eCl@ss for users and companies
eCl@ss in the context of smart manufacturing
How eCl@ss standard supports users of SAP Asset Intelligence Network?
Added value of eCl@ss for users and companies

eCl@ss in the context of smart manufacturing

How eCl@ss standard supports users of SAP Asset Intelligence Network?
Added Value of eCl@ss

Future/Today

Retailer

ERP

Marketplaces

ERP

Shop

Catalogs (print)

Catalogs (electronic)

Product data sheet

EDI

After Sales Service

Producers

ERP

PLM

CAX

PIM

Smart Machines

Smart Things

<?XML?>

eCl@ss

Customers

ERP

PLM

CAX

PIM

Engineering company

ERP

PLM

CAX

PIM

Retailer

ERP

Marketplaces

ERP

Shop

Catalogs (print)

Catalogs (electronic)

Product data sheet

EDI

After Sales Service

Producers

ERP

PLM

CAX

PIM

Smart Machines

Smart Things

<?XML?>

eCl@ss

Customers

ERP

PLM

CAX

PIM

Engineering company

ERP

PLM

CAX

PIM

Request for quotation
Orders
Catalogs (print)
Catalogs (electronic)
Product data sheet
EDI
After Sales Service

New scenarios
Motivation for introducing eCl@ss

Customer requirements are crucial

Customer requirements are the most important business motive for introducing eCl@ss.

Almost three-quarters of companies describe customer requirements as a more or less important motive for introducing eCl@ss. By contrast, targeted internal process optimizations are rated as unimportant or rather unimportant by more than every second company; Requirements from suppliers even from around two-thirds of the companies.

This shows that, above all in customer business, impulses are being created for the introduction and use of standards. The potential of eCl@ss for internal process optimization, on the other hand, is still rated as less important.

Source: Survey IW Consult
Expectation by introducing eCl@ss

Extended sales opportunities is #1 expectation at eCl@ss launch

With the introduction of eCl@ss, companies are particularly likely to expand their sales opportunities. Second is the optimized use of the ERP system, followed by simplified supplier management.

Semantics for the Internet of Things (IoT) or savings potential in procurement are expected by very few companies.

Source: Survey IW Consult
Companies have savings in purchasing

ECI@ss savings are most common in purchasing: barely one in four companies can save money here.

This is followed at some distance by sales: Here, about 15% of companies make savings. In the areas of logistics, scheduling and production, few companies were able to generate savings.

It should be noted that eCI@ss is used primarily in purchasing and sales. Accordingly, there is greater potential for savings in these areas.
Added value of eCl@ss

► eCl@ss can reduce efforts in master data management

► eCl@ss can ease the exchange and the understanding of data between different players

► eCl@ss can ease interaction between different players

► eCl@ss can reduce mappings and migrations efforts

► eCl@ss can support IoT and smart manufacturing scenarios

► eCl@ss has a working technical infrastructure, release and content management

► eCl@ss will invest and further develop to support these new scenarios
  > Fast track
  > New content
  > Adaption of data model to new requirements
Added value of eCl@ss for user and companies

eCl@ss in the context of smart manufacturing

How eCl@ss standard supports users of SAP Asset Intelligence Network?
Industry 4.0 - Different systems and assets in one plant

What is Industry 4.0?

Autonomy of systems and assets

- Sensors
- Actuators
- Electrical drives
- Fluid technology
- Controls
Industrie 4.0

Every asset needs its administration shell to be integrated in Industry 4.0

- The connection is made using the I4.0 communication
- The administration shell is the digital part
- The asset is the real part
- Sub models consist of properties, that describes aspects of an asset
Industrie 4.0

Standardized vocabulary

- ecl@ss
- parameters
- process variables
- properties

Standardized aspects/sub models

Aspekt 1
- Tellmodell1
- Merkmale

Fully standardized description of asset
Properties, process variables, parameters

Virtual world

- nominal capacity
- nominal speed
- nominal current
- nominal voltage
- nominal frequency
- power factor
- safety class
- mode

Real world

Each property has an IRDI (International Registration Data Identifier) that will be used for communication between players

Description according to IEC 61360

Nominal current

0173-1#02-AAC824#007
Industrie 4.0

Sensor  →  ID + Value  →  Controller

Sender  →  101011101+ 111011101  →  Receiver

Symbol/ Character

Reference via ID to dictionary

eCl@ss

Dictionary
Informations- modelle (nach IEC61360)

Standardized vocabulary
A standardized and referable semantic is one of the key enabler for smart manufacturing (Industrie 4.0) with minimized migration and installation effort.

Unplanned or lose communication will be possible.

eCl@ss is the broadest and most matured provider of semantics.
Agenda

Added Value of eCl@ss for user and companies

eCl@ss in the context of smart manufacturing

How eCl@ss standard supports users of SAP Asset Intelligence Network?
A variety of information can be shared between business partners: SAP Asset Intelligence Network (AIN)

**OPERATOR**
- Operator #1
- Operator #2
- Operator #n

**MANUFACTURER**
- Manufacturer

**BUSINESS VALUE**
- Lower asset life cycle costs
- Establish one channel to many manufacturer’s, EPCs and Service providers
- Higher asset availability
- Reduce manual asset search effort
- Receive notifications, service work summaries and service bulletins
- Push communication and alerts to manufacturers / service providers
- Reduce master data maintenance effort
- Higher process safety by transparent and bundled product – service offerings from manufacturer

**OPERATOR**
- Send & receive data

**MANUFACTURER**
- Specifications & drawings
- Product & service feedback

**SAP AIN**
- Usage information
- Recommendations & updates
Classification Modeling is done in the Templates application

- Structural objects
  - Classes and Subclasses
  - Templates for Models, Equipment, Locations, Spare Parts, and Systems

- Attribute Groups, Attributes, Code Lists (associated with an attribute) – all are associated with a Class, a Subclass and/or a Template

Consumption of Classification objects is done in the Data Sheet section of a business object that has Subclass and/or Template assigned
Classification in SAP AIN – **Modeling Concepts**

**Abstract**

- **Class**
  - **Subclass 1**
  - **Subclass 2**

**Concrete**

**Class und Subclass** – provided by SAP AIN (based on Industry Standard) or Classification Standard provider

Class/Subclass can have attributes/attribute groups which will be inherited to child objects.

**Example:**
- **Class:** Transformer
- **Subclass 1:** Power transformer
- **Subclass 2:** Dry-type transformer

**Model Template** – usually provided by manufacturer (or a service provider)

Each model template can have attributes/attribute groups which will be inherited to child objects

**Example:**
- Model Template 1: SDT - Small dry type transformers
- Model Template 2: SDT-100x - Small dry type transformer series 100x

**Equipment Template** – usually provided by operator (or service provider).

Each equipment template can have attributes/attribute groups which will be inherited to child objects

**Example:**
- Equipment Template: MC - My company’s small dry type transformers
Classification in SAP AIN – Modeling Example

Template System

CLASS: Transformer

SUBCLASS: Power

CLASS: Motor

CLASS: Pump

CLASS: Switchgear

CLASS: Transformer

SUBCLASS: Power

CLASS: Motor

CLASS: Pump

CLASS: Switchgear

MODEL Template

E-23

MODEL

E-23-8384

EQUIPMENT

E-23-8384
Ser No: 981 4981

EQUIPMENT

E-23-9547
Ser No: 978 2547

EQUIPMENT

E-24-7487
Ser No: 898 8742

EQUIPMENT

E-24-8748
Ser No: 257 6884

MODEL Template

E-24

MODEL

E-24-7487

SUBCLASS: Instrument

CLASS: Motor

CLASS: Pump

CLASS: Switchgear

CLASS: Transformer

SUBCLASS: Power

CLASS: Motor

CLASS: Pump

CLASS: Switchgear

CLASS: Transformer

SUBCLASS: Power

CLASS: Motor

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CLASS: Pump

CLASS: Switchgear

CLASS: Transformer

SUBCLASS: Power

CLASS: Motor

CLASS: Pump

CLASS: Switchgear

CLASS: Transformer

SUBCLASS: Power
Classification in SAP AIN – Use Case Implementation

**Use Case 1:** Customer wants to use only one standard-delivered Classification content

- eCl@sps Class
- 1:n
- eCl@sps Subclass 1
- eCl@sps Subclass 2
- eCl@sps Subclass 3
- eCl@sps Attr.grp 1
- eCl@sps Attr.grp 2

**Use Case 2:** Customer wants to use only one standard-delivered Classification content

- eCl@sps Class
- 1:n
- eCl@sps Subclass 1
- eCl@sps Subclass 2
- eCl@sps Subclass 3
- eCl@sps Attr.grp 1
- eCl@sps Attr.grp 2

**Use Case 3:** Customer wants to use multiple standard-delivered Classification content

- ISO Class
- 1:n
- ISO Attr.grp 1
- ISO Attr.grp 2
- ISO Subclass 1
- ISO Subclass 2
- ISO Subclass 3
- eCl@sps Attr.grp 1
- eCl@sps Attr.grp 2

**Use Case 4:** Customer wants to use standard-delivered Classification content + Customer-created templates/attributes

- ISO Class
- 1:n
- ISO Attr.grp 1
- ISO Attr.grp 2
- ISO Subclass 1
- ISO Subclass 2
- ISO Subclass 3
- eCl@sps Attr.grp 1
- eCl@sps Attr.grp 2

**Use Case 5:** Customer wants to use only Customer-created templates/attributes

- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
- ISO Attr.grp 1
- ISO Attr.grp 2
- Equipment
- Model Template 1
- Customer – Attr. grp
SAP Asset Intelligence Network and eCl@ss
eCl@ss Web Site


At our eCl@ss wiki you will find a list of all our cooperation Partners.
Some of the most important cooperations of international significance are briefly presented here:

On February 12, 2018, SAP SE and eCl@ss e.V. launched a partnership that integrates eCl@ss into the SAP Asset Intelligence Network (SAP AIN). With SAP AIN, manufacturers, service providers and equipment operators can exchange data and information through a cloud-based platform. Integrating eCl@ss into the network establishes standardized product information, which allows users to compare and evaluate products.

SAP has also become a member of the eCl@ss Steering Committee and will play an active role in determining the association’s strategic vision for the future.

www.sap.com
eCl@ss in SAP Asset Intelligence Management

eCl@ss is a business partner in the SAP AIN

- eCl@ss has an own account in the network
- eCl@ss will upload content (= classification structures, attributes, code lists) into the network
- eCl@ss will share content with their licensees (= connected partners) in the network

eCl@ss classification content in SAP AIN

- initially eCl@ss version 10.1 will be provided:
  - In SAP Preview system
    - A subset of eCl@ss classification content will be made available for trial use to all customers in the Preview landscape
    - Trial use of the subset of eCl@ss classification content is free for all customers in the Preview landscape
    - NO migration option from Preview system to a later use in Production system
  - In SAP Production system
    - Sequential upload of eCl@ss classification content based on customer request
    - eCl@ss will share their classification content with customers who have an eCl@ss license
      - eCl@ss licensing is handled directly by eCl@ss office (contact: info@eclass.de)
**eCl@ss Structure in eCl@ss**

![eCl@ss Structure in eCl@ss](image-url)

### Table: Preferred Name, Data Type, Value List, Template, Unit

<table>
<thead>
<tr>
<th>Preferred Name</th>
<th>Data Type</th>
<th>Value List</th>
<th>Template</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Information</td>
<td>Reference</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>address of additional link</td>
<td>String</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Batteries included</td>
<td>Boolean (Yes/No)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardboard weight portion of the individual packaging</td>
<td>Real (measure)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Category</td>
<td>String</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gaseous tariff number</td>
<td>Reference</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designation of battery</td>
<td>String</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full weight portion of the individual packaging</td>
<td>Real (measure)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Reference</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net weight</td>
<td>Real (measure)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>net weight to record-weighted quantities (UEEE)</td>
<td>Real (measure)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>number of batteries/cumulations</td>
<td>Integer (count)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of customs tariff numbers</td>
<td>Integer (count)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>number of documentations</td>
<td>Integer (count)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyethylene weight portion of the individual packaging</td>
<td>Real (measure)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Classification in SAP AIN - eC1@ss Structure in SAP AIN Templates App

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell phone</td>
<td></td>
</tr>
<tr>
<td>Smartphone</td>
<td></td>
</tr>
<tr>
<td>Hands-free mobile phone car kit</td>
<td></td>
</tr>
<tr>
<td>Pager (cellular phone network device)</td>
<td></td>
</tr>
<tr>
<td>Smartwatch</td>
<td></td>
</tr>
<tr>
<td>Cellular phone network device (unspecified)</td>
<td></td>
</tr>
</tbody>
</table>

**Template Information**

- **Template ID:** 19060300
- **Description:** Smartphone
- **Long Description:**

**Attributes (6)**

<table>
<thead>
<tr>
<th>ID</th>
<th>Description</th>
<th>Long Description</th>
<th>Data Type</th>
<th>Additional Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0173.1.02-AA478.000</td>
<td>number of batteries/accumulators</td>
<td>quantitative information on the number of batteries/accumulators</td>
<td>Numeric</td>
<td>More</td>
</tr>
<tr>
<td>0173.1.02-AA492.000</td>
<td>batteries included</td>
<td>information on provided batteries</td>
<td>String</td>
<td>More</td>
</tr>
<tr>
<td>0173.1.02-AA586.000</td>
<td>Polystyrene weight portion of the individual packaging</td>
<td>mass fraction of the individual packaging for the component polymerization</td>
<td>Numeric</td>
<td>More</td>
</tr>
<tr>
<td>0173.1.02-AA589.000</td>
<td>Metal weight portion of the individual packaging</td>
<td>Mass fraction of the individual packaging for the component foil</td>
<td>Numeric</td>
<td>More</td>
</tr>
<tr>
<td>0173.1.02-AA582.000</td>
<td>Weight of the individual packaging</td>
<td>Mass fraction of the individual packaging for an article</td>
<td>Numeric</td>
<td>More</td>
</tr>
<tr>
<td>0173.1.02-AA548.000</td>
<td>Combined weight portion of the individual packaging</td>
<td>Mass fraction of the individual packaging for the component cardboard</td>
<td>Numeric</td>
<td>More</td>
</tr>
</tbody>
</table>
Classification in SAP AIN - eCl@ss Structure in SAP AIN Model App
Do you have any questions?

contact:
Oliver.Hillermeier@sap.com
www.eclass.eu