

# ESComXML – State of Play

## ENES7 Update

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**ESComXML IT Provider Group**  
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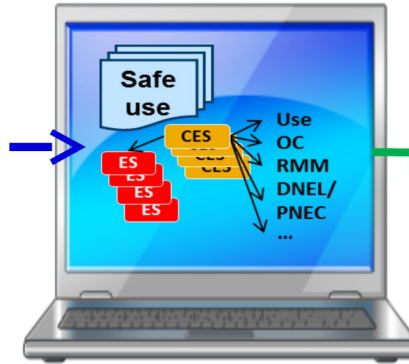
# IT-System: Required Interfaces for ESComXML

## CSR Tool



Interface to load ESComXML files

## EHS / Hazmat Management System



Interface to generate ESComXML files

## Customer



## Supplier



# ENES6: Two ESComXML Data Model Alternatives

## ➤ First format based on the ECHA Guidance 2010/12 for the ES-Format

Part D: Exposure Scenario Building Version 2.1 November 2012  
Part F: CSR format

Table D.2.2.3: Standard exposure scenario format for uses of substances by workers<sup>10</sup>

Exposure Scenario Format (1) addressing uses carried out by workers	
9.x. Title of Exposure Scenario number x: .....	
List all the uses of the substance in the uses under it, include market sector (by PC), if relevant.	
Name of contributing environmental scenario and corresponding ERC	
List all the contributing PROCs	
Further explanations (if needed)	
<b>9.x.1 Exposure Scenario</b>	
<b>9.x.1.1 Contributing environmental scenario</b>	
Name of contributing environmental scenario	
Further explanations (if needed)	
<b>Product related conditions</b>	
Product related conditions, e.g. the concentration of the substance in a mixture; viscosity of product; package design affecting exposure	
<b>Amounts used</b>	
Daily and annual amount per site (for uses in industrial setting) or daily and annual amount for wide disperse uses;	
Frequency and duration of use	
Intermittent ( used < 12 times per year for not more than 24 h) or continuous use/release	
<b>Environment factors not influenced by risk management</b>	
Flow rate of receiving surface water (m <sup>3</sup> /d, usually 18,000 m <sup>3</sup> /d for the standard town by default; please note: the default flow rate will be rarely changeable for downstream uses.	
<b>Other given operational conditions affecting environmental exposure</b>	
Other given operational conditions: e.g. technology or process techniques determining the initial release of substance from process (via air and waste water), dry or water based processes; conditions related to temperature and pressure; indoor or outdoor use of products; work in confined area or open air;	
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Process design aiming to prevent releases and hence exposure to the environment; this includes in particular conditions ensuring rigorous containment; performance of the containment to be specified (e.g. by quantification of a release factor in section 9.x.2 of the CSR);	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Technical measures, e.g. on-site waste water and waste treatment techniques, scrubbers, filters and other technical measures aiming at reducing releases to air, sewage system, surface water or soil; this includes strictly controlled conditions (procedural and control technology) to minimise emissions; specify effectiveness of measures; specify the size of industrial sewage treatment plant (m <sup>3</sup> /d), degradation effectiveness and sludge treatment (if applicable);	

++ strong structure, thus easy validation

-- content changes require definition changes

## ➤ Second format based on the simplified (Simplified) ES-Format

### Annex 1

ES format for workers activities  
Contributing scenario for the environment

Product (article) characteristics	PC
Amount used, frequency and duration of use (or from service life)	AFD
Technical and organisational conditions and measures	TOM
Conditions and measures related to treatment of waste (including article waste)	Waste
Other conditions affecting environmental exposure	OOC
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	AGPA

ES format for consumers activities  
Contributing scenario for the environment

Product (article) characteristics	PC
Amount used (or contained in articles), frequency and duration of use/exposure	AFD
Technical and organisational conditions and measures	TOM
Conditions and measures related to personal protection, hygiene and health evaluation	PPE
Other conditions affecting workers exposure	OOC
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	AGPA

Contributing scenario for consumers

Product (article) characteristics	PC
Amount used, frequency and duration of use/exposure	AFD
Measures related to information and behavioural advice to consumers including personal protection and hygiene	PPE
Other conditions affecting consumers exposure	OOC

-- weak structure jeopardizes benefits of XML technology

++ easy to extend if necessary

# Decision within the IT Provider group

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## Decision:

8 out of 10 IT providers in favour of an

“**Extended ESComXML Format based on ECHA Guidance 2010**”

## Extensions:

- **Remark fields** allow to transport content which is not otherwise covered.
- **Structured Short Titles are supported** in addition to current titles

# Mapping of ESCom Phrases to ESComXML attributes

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- **ECHA performed mapping** of the ESCom 1.4 phrases to attributes in the ESComXML Schema (based on draft schema from June 3<sup>rd</sup> 2014).
- Findings that will trigger a change in the ESComXML Schema were discussed with IT providers and Phrase Working Group on Oct. 24<sup>th</sup> 2014:
  - **Section structure changes**  
(e.g. merge RMM Worker organizational and technical)
  - **Section content changes**  
(e.g. remove attributes for RMM Worker Eye and RMM Worker Oral)
  - **Attribute changes**  
(e.g. rename RMM Consumer to Consumer Protection)

All major change proposals are agreed, but editing work still necessary.

## Next Steps

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- Incorporate **results from phrase mapping into current draft** and **add ~20 phrase based attributes** to Exposure Scenario sections 1, 3 and 4 of the ESComXML schema definition
- Discuss and **decide on feedback** from the industry in regard to the ESComXML Schema
- Finalize and **release ESComXML version 2.0** (by the end of Q1 2015)

Then...

**Implement interfaces for IT-Systems to generate and load ESComXML files**