

ESCom project

Version 2.0 release

ESCom XML
ESCom Standard Phrase Catalogue
July 2015



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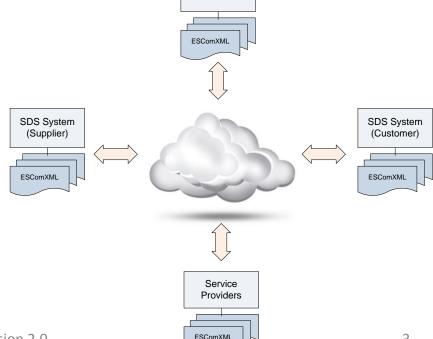


ESCom activities fall under Action Area 3 of CSR/ES Roadmap¹ as they aim to further develop IT tool and standardisation to exchange Exposure Scenarios for communication along the supply chain.

The two branches are tightly bound because the more the information generated by a system is standardized, the more easily it can be exchanged by different actors in the supply chain and processing by IT systems can be automated.

Implementing ESCom will help to exchange standardized information in the supply chain





CSR Tool

¹ For more information, refer to: <u>CSR/ES Roadmap</u>



What are the benefits of the improvement in communication?

- Quality
 - Completeness of information
 - Tailored information
 - Consistency and clarity of exchanged data
 - Avoid human errors
- Automation
 - Eliminate manual indexing/data extraction
 - Facilitate processing of voluminous information
 - Visibility and tracking data exchange



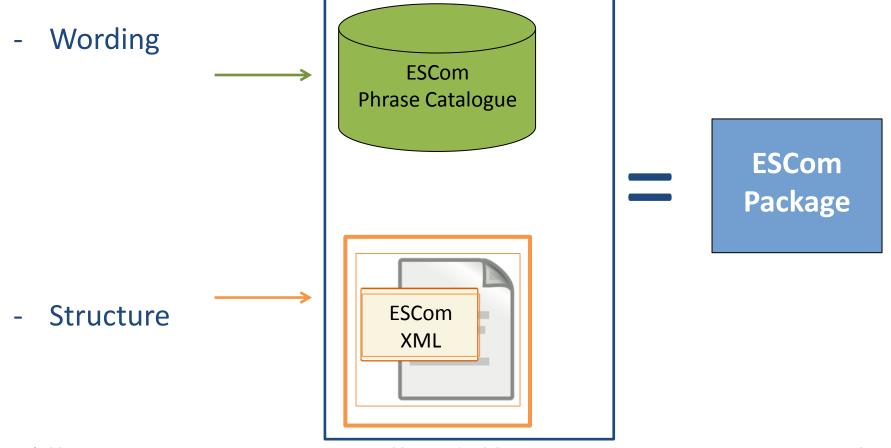
ESCom project is naturally linked to many other activities under the CSR/ES Roadmap. In particular, the release 2.0 has a direct connection with:

- Improved sector Use maps: in Use maps' template, title phrases should be included only using standard phrases with the associated Phrase ID, but also other fields can be populated by making use of the standard phrases in the catalogue, like LCS, UDs, ...
- SPERCs, SCEDs, SWEDs: the development of these exposure assessment determinants should be translated into specific sets of standard phrases to be used in the ES
- Chesar development: possibility to generate ES using ESCom XML format via Chesar to use them as first input to the supply chain
- Harmonization of format for the ES: fields needed for the phrases have been defined and phrases developed for them.

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To support the exchange of information via the ESs for communication along the supply chain, standardization is required at different levels:





The release 2.0 of the ESCom Package aims at supporting the effective communication of ESs information for substances between M/I, Formulators and DU's.

The package 2.0 includes:

- An updated version of the Standard Phrase Catalogue
- An updated version of the ESCom XML Schema

How were these elements developed?

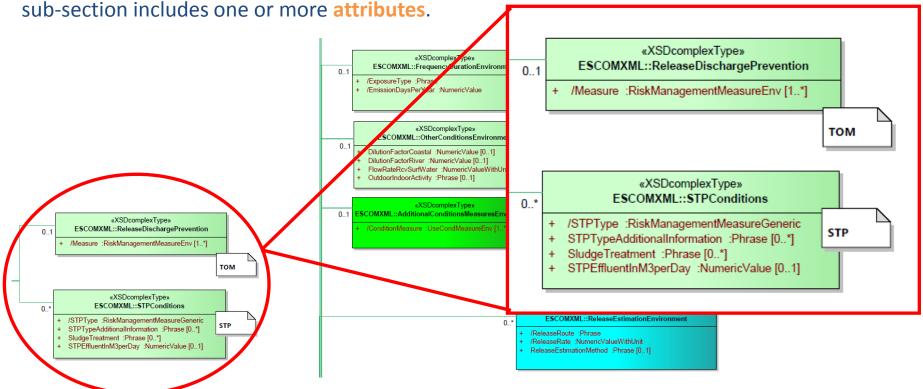
- Technical work done in close cooperation between the expert groups responsible for the maintenance of the elements in the package (Phrases WG and XML IT WG)
- Liaising with sector associations and exposure estimation tools owners (e.g. ECETOC TRA, Stoffenmanager, MEASE, RoD ...)
- Effort in alignment between ESCom package and other Roadmap activities

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What is new in the ESCom XML? (1/2)

As in the old version, the XML is composed of different **Sections and Sub-Sections** that correspond to the sections and sub-sections that can be found in the ES, such as Sewage Treatment Plant (STP), Technical and Organisational Measures (TOM), ... and each section and





What is new in the ESCom XML? (2/2)

However, changes have now been implemented to fulfil different needs:

- Mapping to phrase Catalogue: attributes' data types have been changed to be consistent with rules defined for phrases and with the content of the ES
- Support for new communication requirements: need to include additional info, e.g. attributes for ES structured short titles (SST)
- Alignment with **ES template** published by ECHA: sections and attributes included for each one of them have been modified
- Temporary elements to support adaptation period, e.g. generic sections
- Elements to support areas where future developments are still needed, e.g. fields in ES Section 4

The version 2.0 of the ESCom XML has been finalised and is now published with the Standard Phrase Catalogue 2.0; the XML will remain stable for at least 2 years.



What is new in the ESCom Standard Phrase Catalogue? (1/3) – The Structure

As in the previous version, the Catalogue includes a list of phrases and for each phrase a set of metadata is specified.

However, the structure itself of the Catalogue has been modified to improve the quality of information included:

- General 'cleaning' of already existing metadata (= categorization of every phrase) to improve readability of the phrases' list
- Inclusion of mapping to the XML
- Additional worksheets with description of possible metadata entries that can be assigned
- Deletion of redundant columns



What is new in the ESCom Standard Phrase Catalogue? - The mapping (2/3)

To ensure that catalogue and XML can work together, the meaning and intent of each phrase in the catalogue as well as where it fits in the structure of the XML needs to be clear. This clear link is referred to as "mapping".

In the 2.0 package release, the mapping is included for all phrases that are active and can be used in one of the four sections of the ES generated for a substance.

How to find the mapping in the catalogue?

The mapping is included via an additional metadata in the master file where all phrases are listed. In addition to this, an "IT readable" version of this phrases list will be included in the published package (to be used with the ESCom XML).

ES Phrases - Master workfile - V2.0												
Phrase Identification						Catalogue Metadata						XML Metadata
Unique Phrase code	Phrase Status	Previous Phrase code	Phrase Description (English)	Phrase Originato r		FS	Contribut ing Scenario Sub- header	Phrase Function	Target Group			XML Field
₩		₩	v	1 -	1 -	1 -	1 🔻	1 🔻	Wrl -	Con	Ens	1
11133171434	А		Drain or remove substance from equipment prior to break-in or maintenance.	ESIG		Section 2 - Conditions		content	×			TechnicalOrganisationalMeasures'Workers.Measure.MeasurePhrase
11133171435	А		Provide extract ventilation to material transfer points and other openings.	ESIG	E82	Section 2 - Conditions	TOM	content	×			TechnicalOrganisationalMeasuresWorkers.Measure.MeasurePhrase



What is new in the ESCom Standard Phrase Catalogue? (3/3) – The content

- Quality review for ES Section 2 phrases → Cleaning of list after application of new rules developed by the Phrase WG (these rules are available in a guidance)
- Streamlining → Identification and Inactivation of duplications
- Inclusion of **new phrases** to ensure that each XML attribute is populated
- Sector phrases reviewed → Identification of phrases that can be streamlined between sectors, evaluation of suitability of phrases for communication to DU, ...
- Assessment tool's phrases reviewed
- Accepted phrases from on-line proposal tool

The Catalogue will continue to be updated twice a year and the subsequent release will follow by the end of 2015. The next version will include additional cleaning, e.g. extensive quality review applied also to sections 1, 3 and 4, new phrases form proposal tools, updated and new phrases to support use description (new R12 Guidance), additional assessment tool phrases,



What other elements support the package distribution:

- Updated guidance documents
- Attributes descriptions, definitions, and possible metadata combinations associated to the phrases
- On-line proposal tool: http://content.euphrac.eu/Default.aspx?Language=en
- Query form on ESCom webpage to direct questions and feedback

All the above information is available on the ESCom webpage: http://www.cefic.org/Industry-support/Implementing-reach/escom/

And news will be also published via Roadmap website: http://echa.europa.eu/csr-es-roadmap



III. ESCom implementation

Companies using chemicals: start aligning their IT system to ESCom 2.0 and align existing ES content to ESCom standard

- How are we managing ES creation and maintenance? Do I have an expert/team in my company that deals with ES management?
- Is my sector following ESCom activities and can act as mediator? Did my sector develop a set of standard phrases?
- Do I rely on IT system for generation/storing of ES? If yes, check with IT providers how they are going to implement ESCom
- What actions are needed to ensure that my ES in the future are following the ES standard (structure, content, process)
 - Are the ESCom phrases available within my IT system for generation of ES's?
 - Are the ESCom phrases the preferred phrases to be used in description of ES's in CSA/CSR and in the ES for communication?



III. ESCom implementation

IT Providers: support companies through implementation and discuss business needs

- As an IT provider, am I aware of the content of the package and do I plan to support ESComXML generally and the 2.0 release specifically?
- If so, define the **release schedule** of the necessary features and contact customers and discuss with them implementation steps
- Discuss with companies the business needs and strategy for sharing ES data with their customers and, according to the complexity of the company organization, within the company
- Gather feedback from customers during implementation and contact XML
 Working Group in case there are suggestions for additional needs.



III. ESCom implementation

Sectors: support companies and help them to provide feedback to ESCom WGs. Identify ESCom overlaps with their activities.

- Promote package and its integration with other activities under CSR/ES Roadmap
- Start gathering feedback from members on the implementation steps and suggest to ESCom WG where additional support and guidance is needed
- Make sure that set of phrases existing in the Catalogue can adequately support communication for the market sectors relevant for my sector

Tool owners: make sure that the package is compatible with tool content

- Make sure that set of phrases in the catalogue can cover communication needs related with the assessment tool
- Start to consider how to align its input/output with pick-lists included in the phrase catalogue



IV. ESCom Working Groups

Members of the ESCom WGs:

ESCom Standard Phrases Working Group:
 http://www.esdscom.eu/english/escom-phrases/workgroup-members/

ESCom XML IT provider Working Group (as of July 2015):
 3E Company, CGI Group Inc., ECHA, EcoMundo, EcoOnline AS, IHS, PES
 Ingenieursgesellschaft mbH, ProsiSoft Software Vertriebs GmbH, Qualisys GmbH,
 SAP SE, Selerant Software SRL, The Wercs, a UL company



Glossary

CSA Chemical Safety Assessment

CSR Chemical Safety Report

DU Downstream User

ECHA European Chemicals Agency

ES Exposure Scenario

ID Identification number

LCS Life Cycle Stage

M/I Manufacturer/Importer

SCED Specific Consumer Exposure Determinant

SPERC Specific Environmental Release Category

SWED Specific Worker Exposures Determinant

SST Structured Short Title

UD Use Descriptor