

ESCom project

Version 2.0 release

8th Meeting of the Exchange Network on Exposure Scenarios (ENES 8)

Helsinki, 20-21 May 2015

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(on behalf of the ESCom Standard Phrases Working Group and of the XML Working Group)

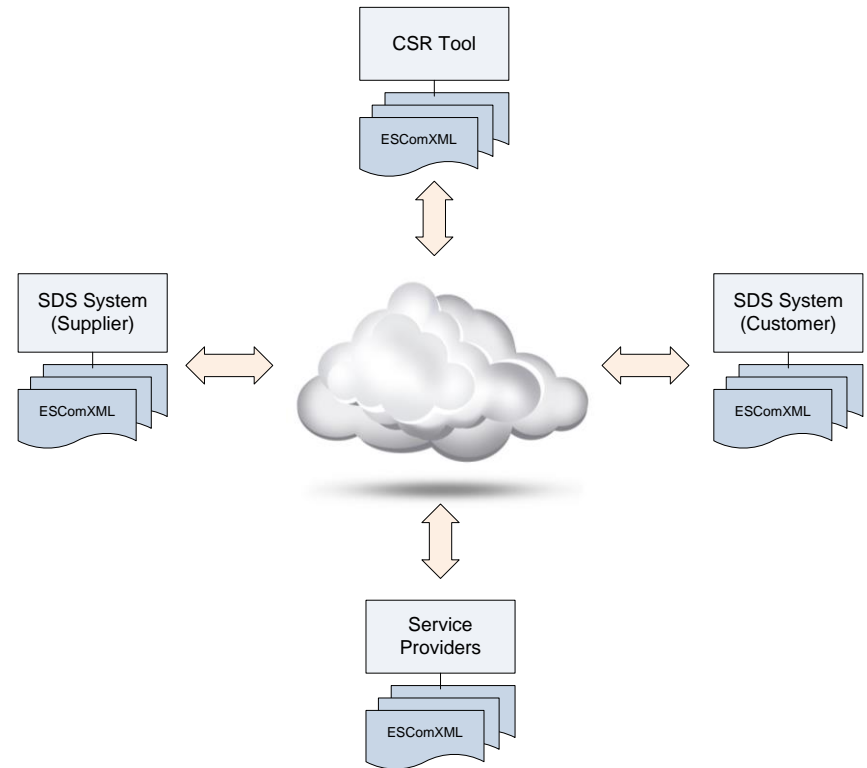
Agenda:

- I. Introduction:** why ESCom is needed, where does it fit and how the package is structured
- II. Updates on the state of play:** ESCom package, release Version 2.0
- III. ESCom implementation:** How to use it in practice

I. Introduction

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

Implementing ECom would help to exchange standardized information in the supply chain



ENES 8

Session 3 – ESCom

I. Introduction

What are the benefits of the improvement in communication?

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

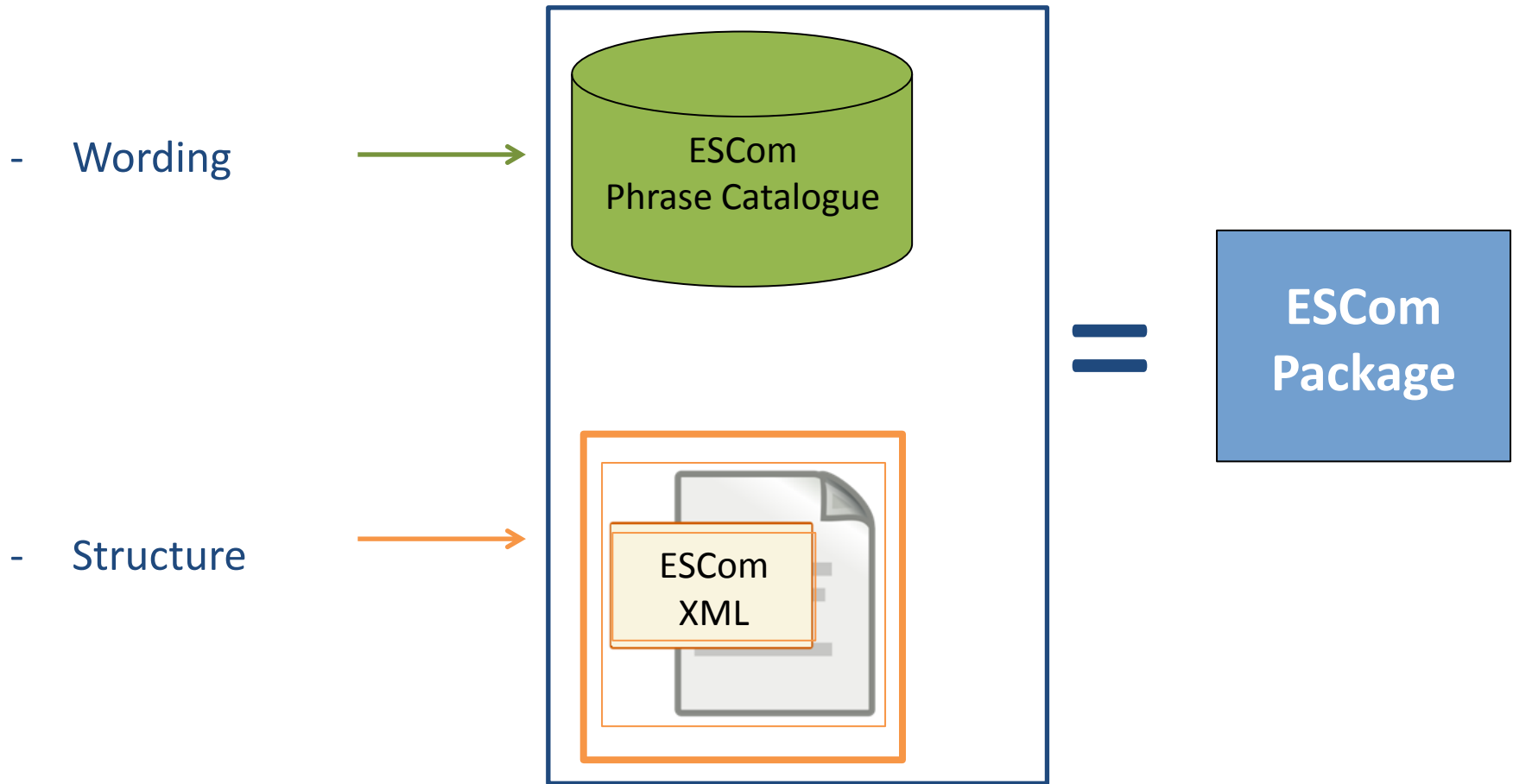
I. Introduction

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 inputs 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.
- ...

I. Introduction

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



ESCom version 2.0

II. Updates on the state of play: ESCom Version 2.0

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 Phrase Catalogue
- An updated version of the ESCom XML Schema

How were these elements developed ?

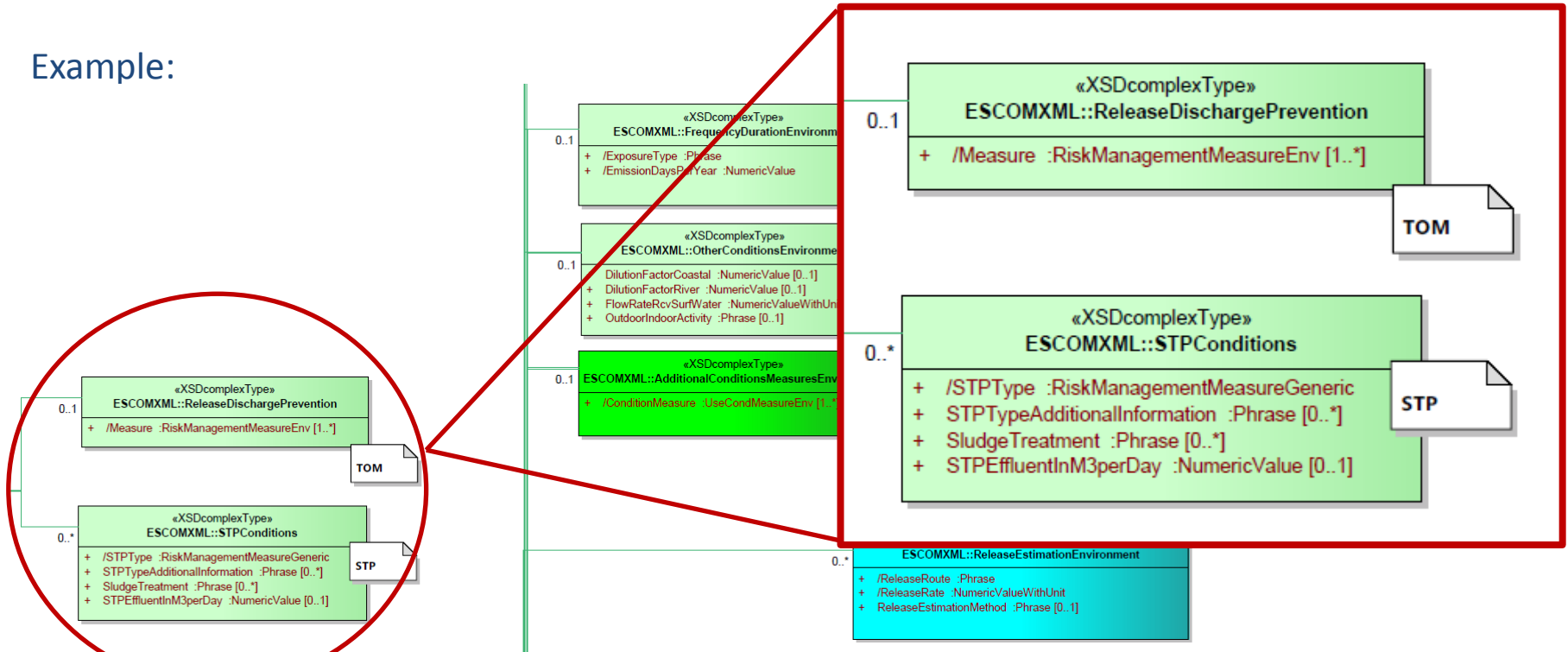
- Technical work done in close cooperation between the expert groups responsible for the maintenance of the elements in the package (Phrases WG and XML IT WG)
- Liaising with sector associations and exposure estimation tools owners, e.g. ECETOC TRA, Stoffenmanager, MEASE, ...
- Effort in alignment between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

II. Updates on the state of play: ESCom Version 2.0

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 sub-section includes one or more **attributes**.

Example:



II. Updates on the state of play: ESCom Version 2.0

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** still needed, e.g. fields in ES Section 4

The version 2.0 of the ESCom XML was finalized by the IT provider Group at the beginning of May and once published with the Phrase Catalogue 2.0, **the XML 2.0 will be stable for at least 2 years.**



II. Updates on the state of play: ESCom Version 2.0

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

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

ES Phrases - Master workfile - V2.0

Phrase Identification					Catalogue Metadata				XML Metadata
Unique Phrase code	Phrase Status	Previous Phrase code	Phrase Description (English)	Phrase Originator	ES Section	Contributing Scenario Sub-header	Phrase Function	Target Group	XML Field
				1	1	1	1	Wrk	1
11133171435	A		Provide extract ventilation to material transfer points and other openings.	ESIG	Section 2 - Conditions	TOM	content	X	TechnicalOrganisationalMeasuresWorkers.Measure.MeasurePhrase
11133171436	A		Handle in a fume cupboard or under extract ventilation.	ESIG	Section 2 - Conditions	TOM	content	X	TechnicalOrganisationalMeasuresWorkers.Measure.MeasurePhrase

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 explanation** of possible metadata entries that can be assigned
- Deletion of redundant columns

II. Updates on the state of play: ESCom Version 2.0

What is new in the ESCom Phrase Catalogue? (2/2)

The work done after ENES 7 includes:

- Inclusion of the **mapping** to the XML
- Quality review for ES **Section 2** phrases → Cleaning of list after application of new rules developed by the Phrase WG and presented at ENES 7 (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 tools' phrases** reviewed
- Phrases from **on-line proposal tool**

After the 2.0 release, the Phrase catalogue will continue to be updated twice a year and the subsequent release will follow by the end of 2015 including additional cleaning, e.g. extensive quality review applied also to sections 3, 1 and 4, new phrases from proposal tools, ...

II. Updates on the state of play: ESCom Version 2.0

What other elements will support the package distribution:

- Updated guidance documents
- Attributes descriptions and definitions
- Examples of possible metadata combinations associated to the phrases
- Proposal tool: <http://content.euphrac.eu/Default.aspx?Language=en>
- Functional mailbox to direct questions and feedback

All the above information will be available on 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)

III. ECom 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 via ECom XML 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 where ESCom complement their activities.

- Promote package and its **integration with other activities** under CSR/ES roadmap
- **Gather feedback** from members on the implementation steps and suggest to ESCom WGs 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 association

Assessment 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

III. ESCom implementation

ESCom WGs (*): gather industry feedback and translate this into improvement of the package. Provide additional guidance and support where needed.

- **Phrase WG** to continue the phrases cleaning, liaising with sectors, tool owners, evaluate phrases proposals from companies and to support inclusion of new sets of phrases when a related Roadmap activity delivers
- **XML WG** to gather technical feedback received from companies and evaluate where improvement is possible
- **Members of ESCOM WGs** participating in expert WG, Task forces to promote the package and to make sure that it develops consistently

(*) Members of the ESCom WGs:

- Phrases WG*: <http://www.esdscom.eu/english/escom-phrases/workgroup-members/>
- XML WG*: 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 Weracs, a UL company

**Thank you for your
attention!**