



Peppol

The future is open

Statistics Reporting

EUSR Specification Change

19.09.2023

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End User Statistics Reporting Specification Change

Background:

An Error Correction change was issued and published 1.7.2023.

This is about the change to End User Statistics Reporting Specification, the Transaction Statistics Reporting Specification is NOT changed.

The Error Correction relates to two findings in an upstream Data Analysis (from Analytics Reports to Data Source):

1. Usage of "Sender Country" and "Receiver Country" is not usable.
2. Several Data Dimensions are not Summarizable.

The findings, the resolution and the impact on the End User Statistics Reporting will be explained in this presentation.

EUSR: Sender Country – Receiver Country issue

Planned Country data foundation was Transaction oriented with Sender Country and Receiver Country.

Since:

- Corner 2 (C2) Access Point data collection can only establish the number of Sending End Users (C1) per Sender End User Location (Country).
- Corner 3 (C3) Access Point data collection can only establish the number of Receiving End Users (C4) per Receiver End User Location (Country).

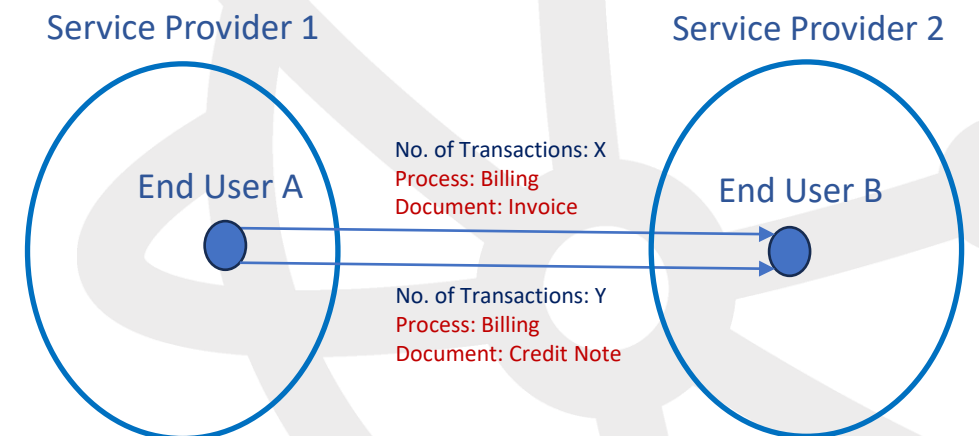
the previous data collection structure would not accommodate the required reports.

Resolution: View Country as a dimension of Origin of Counting, will make it possible to meet the requirements of the Peppol Authority Reports.

EUSR: Dimension Summarizable issue

Not summarizable:

- End User A has sent at least one "Invoice" in the Process "Billing", therefore counting as one (1) for the End User Reporting of Service Provider 1 in subset Number of Sending End Users of Document "Invoices" in Process "Billing".
- End User A has sent at least one "CreditNote" in the Process "Billing", therefore counting as one (1) for the End User Reporting of Service Provider 1 in subset Number of Sending End Users of Document "Credit Note" in Process "Billing".
- Summarization to the Number of Sending End Users of any Documents in Process "Billing" would Summarize as two (2), where it should be one (1).



End User Statistics Reporting Specification Change

Summary of issues and impact on End User Statistics Reporting Specification.

- Summarizable issue:
 - Resolution: More data, covering the non-summarizable Dimension hierarchy granularities of the above dimensions, is needed.
 - Resolution in End User Statistics Reporting Specification:
 - Add subset: End User Country (across all Processes and Document Types)
 - Add subset: Document type, End User Country (across all Processes)
- Sender Country – Receiver Country issue:
 - Resolution: View Country as a dimension of origin of Counting, instead of Transactional viewing it as Sender Country and Receiver Country, will make it possible to meet the requirements of the Peppol Authority Reports.
 - Resolution in End User Statistics Reporting Specification:
 - Change Process, Document type, Sender Country, Receiver Country to Process, Document type, End User Country

End User Statistics Reporting Change (visual)

Interpretation:

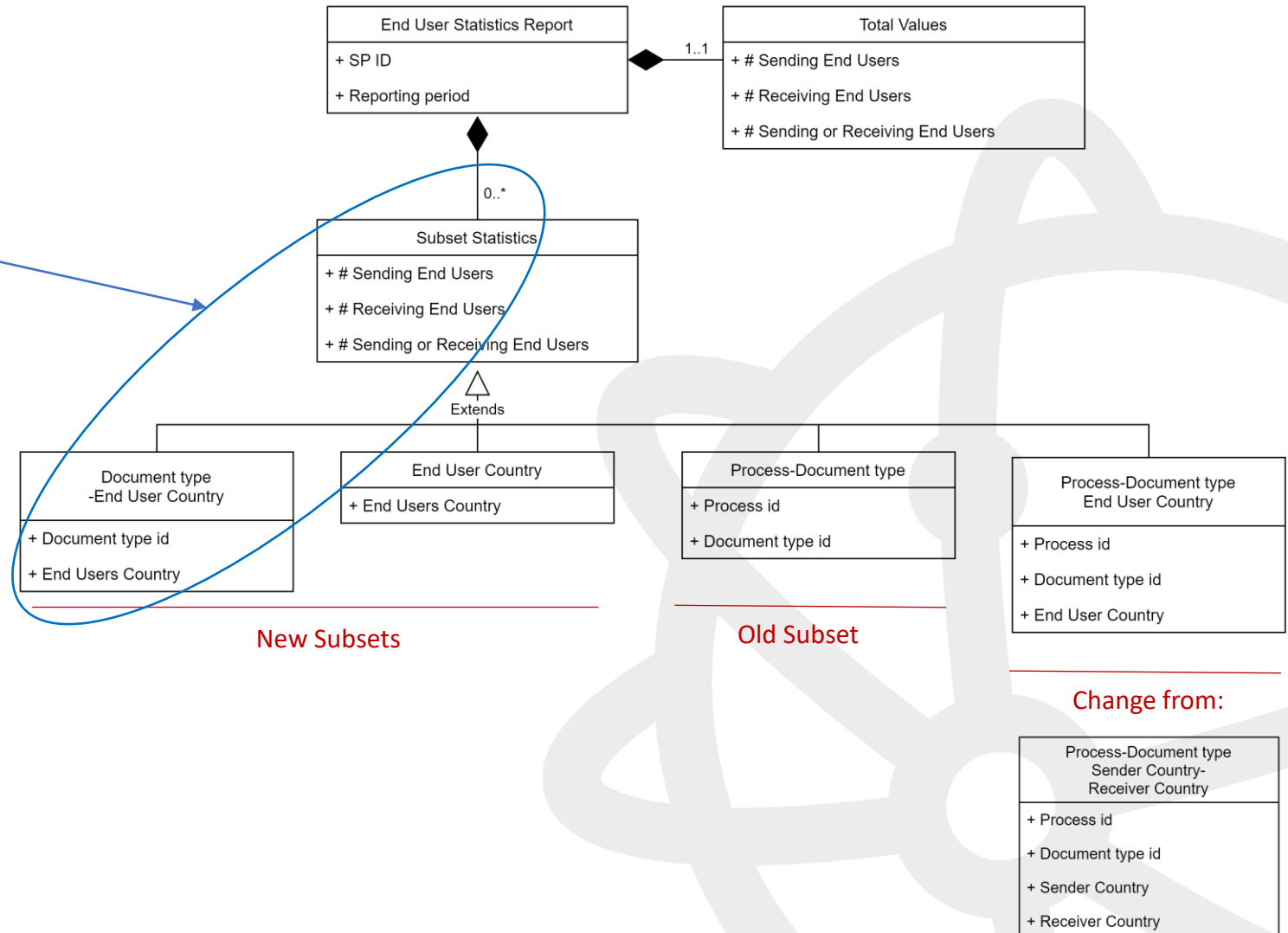
Example:

Number of

- Sending End Users
- Receiving End Users
- Sending or Receiving End Users

per

- Document Type
- End User Country



End User Statistics Reporting Change (visual)

Added to the specification

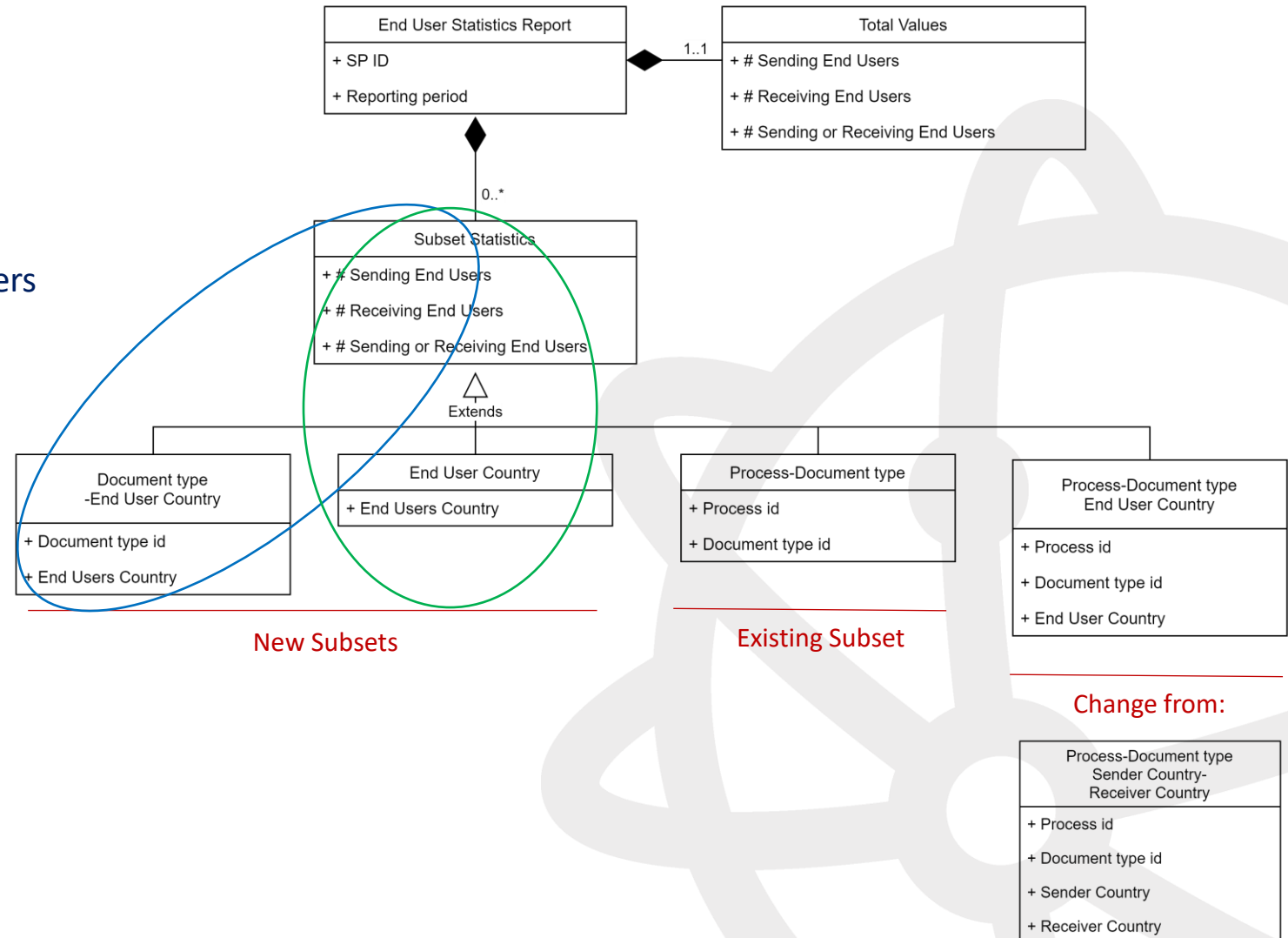
- Number of Sending End Users
- Number of Receiving End Users
- Number of Sending or Receiving End Users

per (blue subset)

- Document Type
- End User Country

per (green subset)

- End User Country



End User Statistics Reporting Change (visual)

Added to the specification

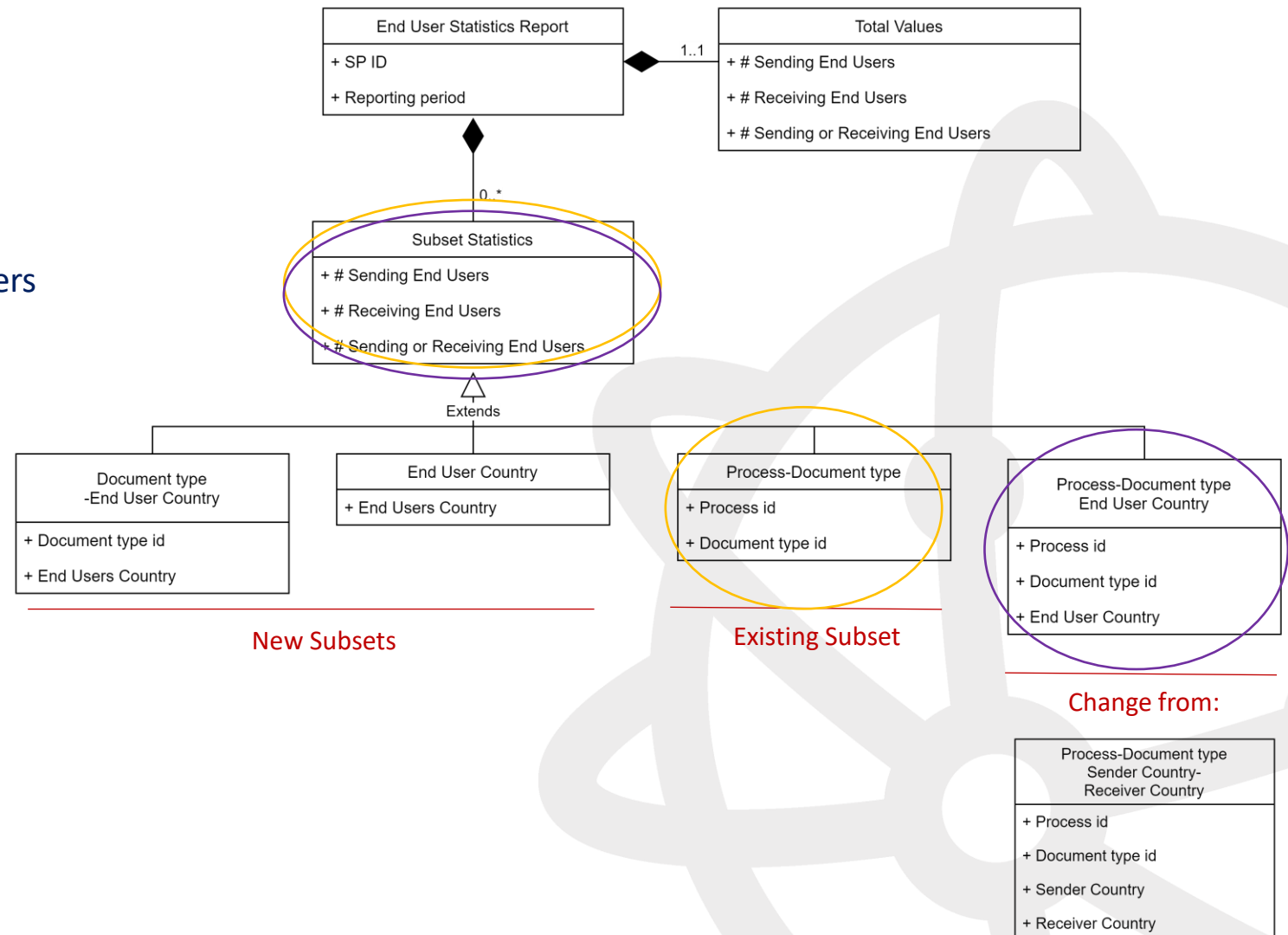
- Number of Sending End Users
- Number of Receiving End Users
- Number of Sending or Receiving End Users

per (yellow subset)

- Process
- Document Type

per (violet subset)

- Process
- Document Type
- End User Country



Status quo

Highlights for
EUSR Update 1.1.0

- Transaction Statistics Reporting (TSR) specification 1.0.1 is published
 - <https://docs.peppol.eu/edelivery/specs/reporting/tsr/>
- End User Statistics Reporting (EUSR) specification **1.1.0** is published
 - <https://docs.peppol.eu/edelivery/specs/reporting/eusr/>
- Peppol Business Message Envelope specification 2.0.0 is published
 - <https://docs.peppol.eu/edelivery/>
- 6 month „implementation period“ until **December 31st, 2023** – for all 3 specs
- We have **points in time** for
 - Start collecting data: per January 1st, 2024
 - First reporting period (month) that needs to be reported: January 2024
 - First reports need to be sent to OpenPeppol in February 2024

What changed for EUSR

- End User Reporting v1.0.0 → v1.1.0
- In Version 1.0.0
 - PerDT-PR (Document Type + Process)
 - PerDT-PR-CC (Document Type + Process + Country Code)
- In Version 1.1.0
 - PerEUC [new] (End User Country)
 - PerDT-EUC [new] (Document Type + End User Country)
 - PerDT-PR (Document Type + Process)
 - PerDT-PR-EUC [new] (Document Type + Process + End User Country)
 - Deleted one subset

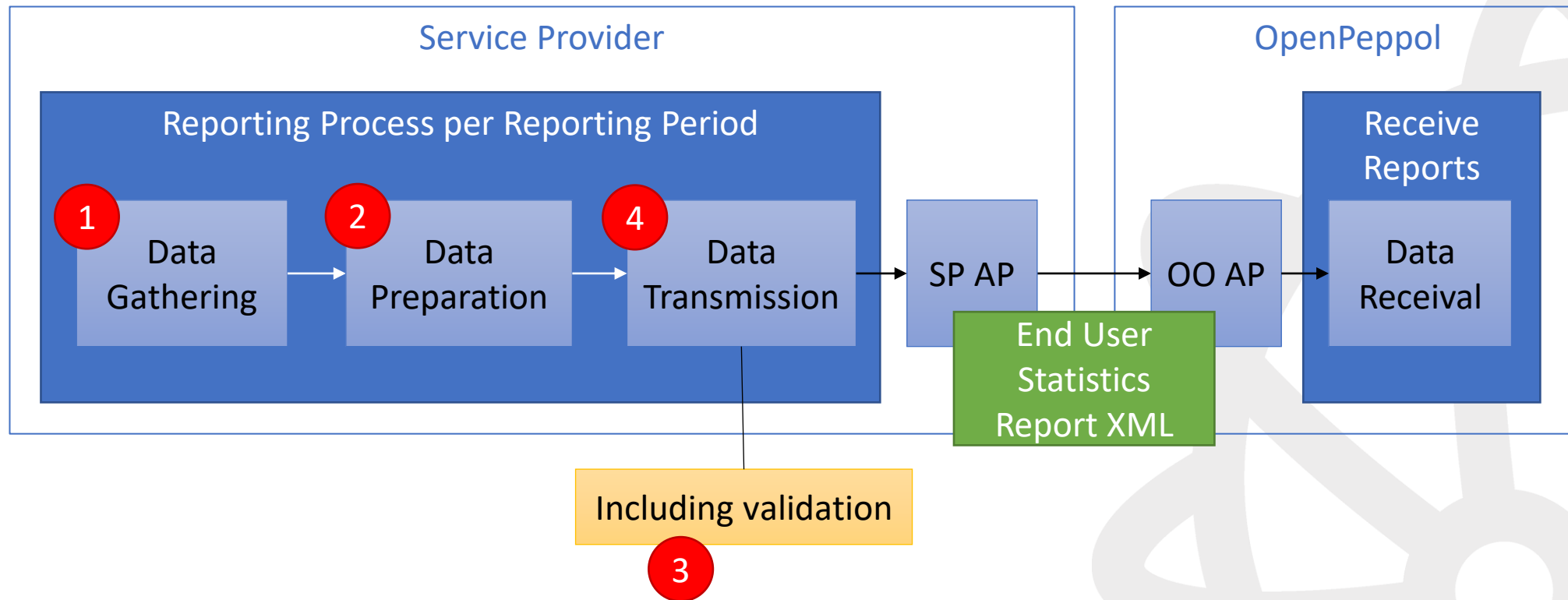
Works with the same source data fields as v1.0.0

No difference between sending and receiving side

EUC = End User Country

For C2: Country of C1
For C3: Country of C4

Quick process recap



1 EUSR Data Gathering [1/2]

1. Timing of the exchange (UTC!)

- AS4: `eb:UserMessage/eb:MessageInfo/eb:Timestamp`
- Data can be cut on second precision

No change
from v1.0.0

Data sources:

- AS4
- SBDH
- SP context

2. Direction of the exchange (incoming or outgoing)

- Based on the context of data collection

3. Peppol Dataset Type (Document Type ID and Process ID)

- Document Type ID
 - Either from AS4: `eb:UserMessage/eb:CollaborationInfo/eb:Action`
 - Or from SBDH: `StandardBusinessDocumentHeader/BusinessScope/Scope [Type="DOCUMENTID"]`
- Process ID
 - Either from AS4: `eb:UserMessage/eb:CollaborationInfo/eb:Service (incl. @type)`
 - Or from SBDH: `StandardBusinessDocumentHeader/BusinessScope/Scope [Type="PROCESSID"]`

1 EUSR Data Gathering [2/2]

4. End User Country

New

- For senders (C2): Country Code of C1 – must be known, based on KYC
- For receivers (C3): Country Code of C4 – must be known, based on KYC

Data sources:

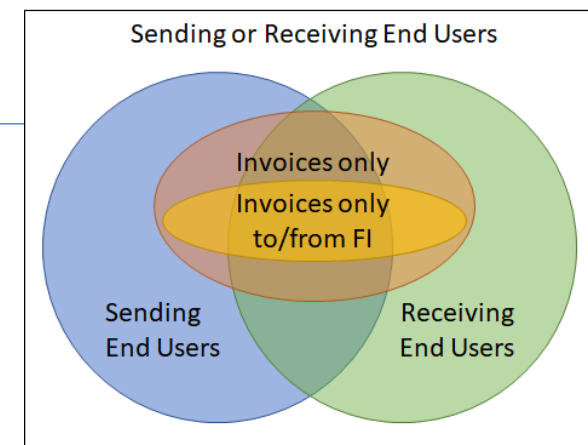
- SP context

5. Identification of the affected End User

- This is implementation specific for each Service Provider

2 Data Preparation

- Based on the Subsets to be transmitted
 - Subset Cardinality per Dataset Type and Process ID
 - **Subset Cardinality per End User Country** New
 - **Subset Cardinality per Dataset Type and End User Country** New
 - **Subset Cardinality per Dataset Type, Process ID and End User Country** New
- Usage of gathered data (from 1)
 - Timing of the exchange → assignment of the exchange to a Reporting Period
 - Direction of the exchange (incoming or outgoing) → count separately
 - All other gathered data is required for Subsets



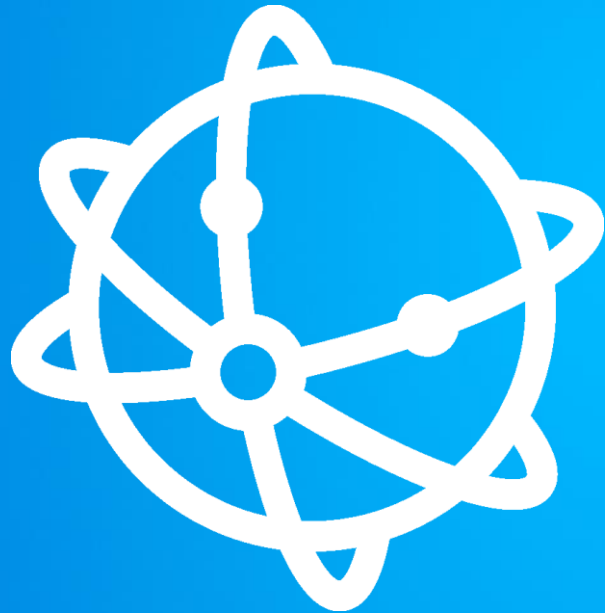
Data Validation + Transmission

- Created XML needs to be
 - Validated against matching XML Schema
 - Validated against OpenPeppol Schematron rules
- Transmission via AS4
 - OpenPeppol Participant ID: *to be provided soon*
 - Document Type ID: `busdox-docid-qns::urn:fdc:peppol:end-user-reporting:1.1::EndUserReport#urn:fdc:peppol.eu:oo:trns:end-user-report:1::1.1`
 - Process ID: `cenbii-procid-ubl::urn:fdc:peppol.eu:oo:bis:reporting:1`
- Eventually response via MLR/MLA/MLX
 - Discussed internally – no details yet

Important: new
Document Type ID
for EUSR v1.1.0

Status Update

- Service Provider Guideline for Reporting v2.0 is available
 - <https://docs.peppol.eu/edelivery/changelog/2023-08/2023-08-20%20Peppol%20Reporting%20-%20SP%20Guideline%20v2.0.pdf>
- Beta testing for Service Providers has started
- Beta testing for Peppol Authorities will start soon
- Bugfixes to the Schematron rules will be published asap (thanks Rick and Richard)
 - Testbed will be updated asap
- First Open Source Solutions available (phax/peppol-reporting)



THANK YOU!

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INFORMATION**

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