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Dentsu Aegis Network

EU SECONDARY REPOSITORY SPECIFICATIONS CHANGES FROM VERSION 1.4 TO 1.4.2 FOR ECONOMIC OPERATORS.

This document details the changes in the List of Specifications and Data Dictionary from version 1.4 to version 1.4.2 for the EU Secondary and Router.

Summary of changes

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1 Introduction

1.1 Purpose

This document describes the changes proposed to the Data Dictionary version 1.4 and the List Of Specifications version 1.4.

1.2 Type of updates

In order to provide a better understanding of the proposed updates, each change is categorized as following.

- **Cosmetic:** the change corrects typo or wording elements without changing the feature purpose
- **Technical:** The change completes the current feature or correct minor omissions.
- **Functional:** the change adds or modifies the initial feature.

1.3 Summary of changes

This update only clarifies the implication of the Sequence Validation Control described in the List of Specification 1.4 provided on October 17th. These technical implications have been discussed in a number of Questions and Answers documents.

This clerical update clarifies the following elements that are directly linked to the sequence validation

- Clarification on Implicit Disaggregation
- Clarification on Recall processing
- Clarification on the Sequence Validation Grace Period

1.4 Technical Backward Compatibility

The changes proposed in the specification are optional or additions to the existing List Of Specification and Data Dictionary version 1.4.

1.5 Impact

The changes require development on IT systems for the following stakeholders.

Update	Secondary Repository and Router	ID Issuer	Primary Provider	Service Provider	Economic Operator Manufacturer / Importer	Economic Operator Distributor / Retail Outlet
Clarification on Implicit Disaggregation	X		X			
Clarification on Recall	X		X	X	X	X
Clarification on Sequence Validation Grace Period	X		X	X	X	X

2 List Of Specifications 1.4.2 Updates

2.1 [Cosmetic] Additional Validation response clarification

Section: "8.1.2 Validation Response"

Description of the change: Clarification of the usage of the http response messages.

Action: addition of the section.

Validation response

The Https status of the response provide information on the way the receiving system is handling the data.

- Http status **200 – 202**: the message is processed successfully
- Http status **299**: the message contains one or more errors (validation failure), the message is processed even with the errors. (some processing might be limited). The response contains the list of failed validations.
- Http status **400**: the message contains one or more validation errors. The message will NOT be processed. An audit of the message and its corresponding response will be stored on the EU Secondary. The response contains the list of failed validations.

http status 299 is used in multiple circumstances. This warning status is used to informing the sending system of an unrecognized UI during the "Transition Period" as well as out of sequence event during the grace period. This status is also used in case a message is reported outside the 24hour (defined on the validation VAL_EVT_24H). The response message contains the list of validations failures that caused the warning.

2.2 [Cosmetic] Additional Message Transmission clarification

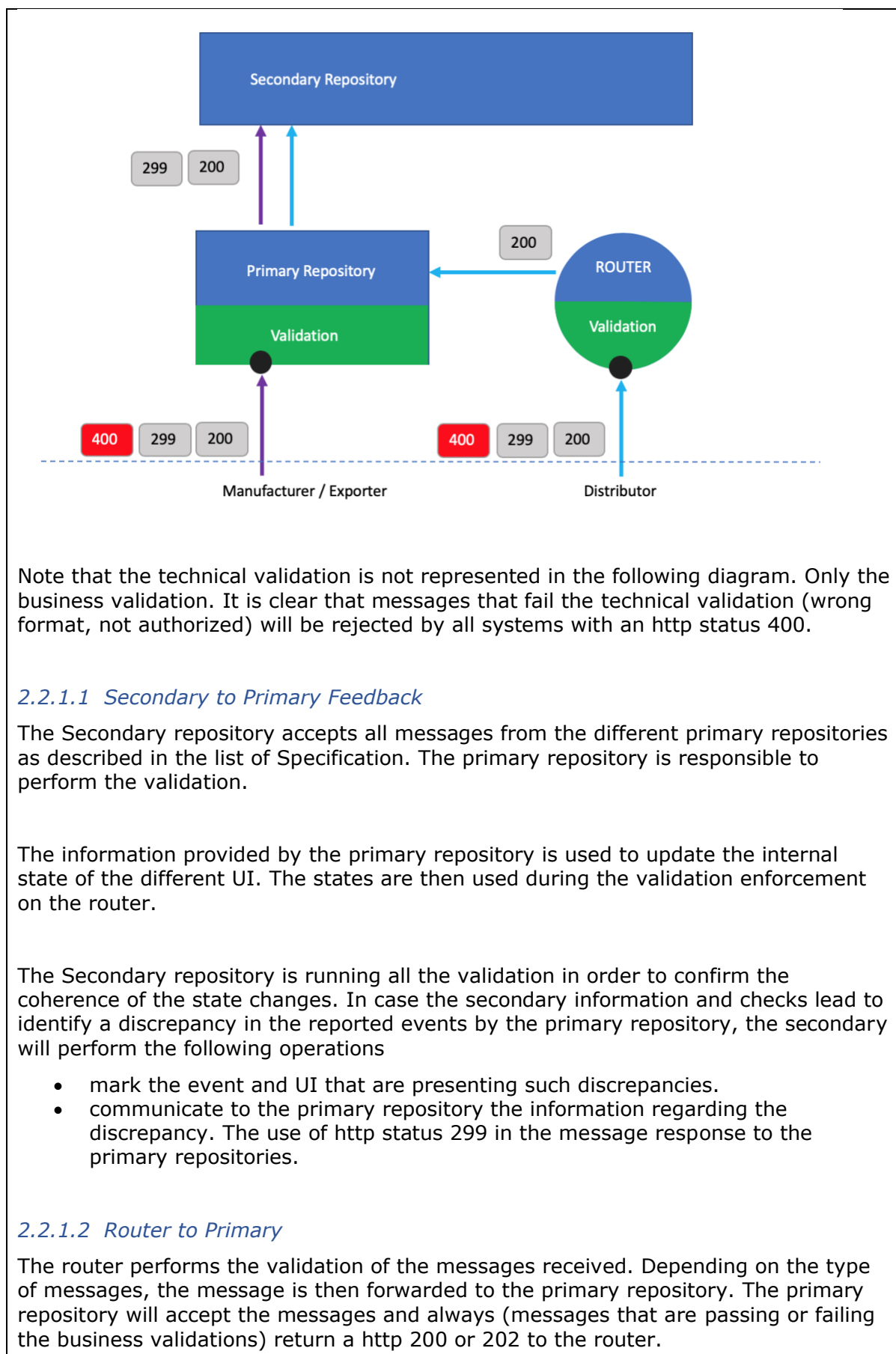
Section: "8.1.4 Message Transmission overview"

Description of the change: Clarification of the processing of the different messages.

Action: addition of the section.

Message transmission overview

The following diagram describes the different message transmission and response options.



2.2.1.3 Router and Primary to EO

The messages from the Economic operators are validated at the first point of entry. For the manufacturer and importer, the messages are transmitted to the primary repositories.

The messages from the distributors are validated by the router based on the information processed on the secondary repository.

Depending on the content of the message, the EO might receive a successful response (http 200 or 202) a warning (http 299) or a rejection data (http 400).

2.3 [Cosmetic] Implicit disaggregation clarification

Section: "8.2.5.3 Implicit disaggregation"

Description of the change: Clarification of the implicit disaggregation event.

Action: addition of the section.

Implicit disaggregation

Since disaggregation events are only mandatory when the parent aUI is reused, Implicit disaggregation event will happen.

2.3.1.1.1 Triggers

These events will be detected / triggered when a child UI is identified on one of the following messages: IDA (2.3), EPA (3.2), EDP (3.3), ERP (3.4) of type Return, EUD (3.6) and EVR (3.7).

Note that transactional events are not triggering any implicit disaggregation.

2.3.1.1.2 Disaggregated state

Once the UI is implicitly disaggregated, the UI should be considered disaggregated and should not be part of any subsequent product movement (3.x). The definition of implicit disaggregation is that the affected parent aUI is considered completely unlinked from all the children it had at the moment of the implicit disaggregation trigger ("Open"). If a reported UI has more than one linked parent at the moment of the reporting, all parents should be implicitly disaggregated, this includes grand-parents and recursively upwards linked UIs.

2.3.1.1.3 Recall

It is important to note that implicit disaggregation should be rolled back in case the event that triggered them is Recalled.

2.3.1.1.4 Explicit disaggregation after implicit disaggregation

The scope of the VAL_UI_ORD_IMPLDISAGG and VAL_UI_ORD_DISAGG have been removed from EUD (3.6). This means that it is possible to disaggregate an aUI after being part of an implicit disaggregation (as a parent).

2.4 [Functional] Recall Rules Clarification

Section: "8.2.8 Recall Validation"

Description of the change: Clarification of the "only the recall of the last event for each UI" rule.

Action: addition of the section.

2.4.1.1 General recall rules

The sequence validation on the product movement introduce additional controls on the recall process. In order to maintain the consistency of the history of the UI, only the recall of the last event for each UI will be authorized.

If a message to be recalled, contains a UI (any in the reported list) that has a subsequent event, the subsequent event must be recalled first.

For the sake of clarity, the following scenarios describe the process of recall. An EO report two product movements on a UI. (Event 1 and Event 2). If the EO wishes to recall Event 1, the EO has first to recall Event 2 and only after recall Event 1. Moreover, Event2 must be the last event occurred on all UIs contained in Event2 for Event2 could be recalled.

2.4.1.2 Transaction events

Transaction events (4.x) are not subject to this rule as they are not impacted by the sequence validation control and therefore, transaction events (4.x) can be recalled at any time.

2.5 [Technical] Update scope of the VAL_UI_ORD_ARRIVAL

Section: "4.5.2 Recalls of requests for aggregated level Unique identifiers (aUIs)"

Description of the change: The implementation regulation states that on the request from the economic operator to the ID Issuer can be recalled.

Action: Remove the section

Control	Description	Scope
VAL_UI_ORD_ARRIVAL	<p>Validation that a UI is part of a prior reported dispatch or transloading event (EDP 3.3, ETL 3.5) for the specified destination.</p> <p>This validation concerns the sequence of events.</p> <p><i>Exception:</i> Imported products</p> <p><i>Exception:</i> arrival of type return that were delivered (EDP, EVR)</p>	ERP

2.6 [Technical] Update VAL_EVT_TIME to warning

Section: "8.2.6 Message Event Time Validation"

Description of the change: Update the description of the VAL_EVT_TIME description.

Action: Update the section

Control	Description	Scope
VAL_EVT_TIME	<p>"Within 24 hours prior to the occurrence of the event" rule for dispatch and trans-loading event messages is a strict rule and the system shall reject non-compliant messages. Control is based on the "actual date - Event Time" time difference.</p> <p>This validation should not be blocking but rather generating a warning to the sender system</p>	EDP - ETL

2.7 [Functional] remove the VAL_EVT_RECALL control

Section: "8.2.6 Message Event Time Validation"

Description of the change: since the IRU and IRA are out of scope of the recall message, this control is therefore deprecated.

2.8 [Technical] Split the recall validation controls

Section: "8.2.8 Recall Validation Controls"

Description of the change: Split the actual recall validation into two controls.

Control	Description	Scope
VAL_RECALL_EXIST	Check if RecallCode exists	RCL
VAL_RECALL_LAST	Check if for all UIs related to the event identified by RecallCode is the very last unrecalled event occurred on all such UI including related implicitly disaggregated parents.	RCL

2.9 [Functional] update the VAL_UI_EXIST_APP control description

Section: "8.2.4.2 Application Validation"

Description of the change: TBD.

Control	Description	Scope
VAL_UI_EXIST_APP	<p>upUIs has been received as part of an IRU message.</p> <p>UI validity</p> <p>Exists without Timestamp in the repository. (has never been applied).</p> <p>This validation fails if the upUIs is not found and has not been reported.</p>	EUA - IDA

2.10 [Cosmetic] update the existence control description

Section: "8.2.4.3 Existence"

Description of the change: For the sake of clarity and after a number of comments, the VAL_UI_EXIST_TIME and VAL_UI_EXIST_AUI have been split in the following controls. The content and the actions to be performed have not changed but the validation control grouping has been updated.

Control	Description	Scope
VAL_UI_EXIST_UPUI	<p>UI existence</p> <p>upUI exists and has been successfully applied</p>	EIV – EPO – EPR
VAL_UI_EXIST_AUI	<p>aUI existence</p> <p>aUI has been aggregated (part of an EPA)</p>	EIV – EPO – EPR
VAL_UI_EXIST_UPUI_SEQ	<p>UI validity</p> <ul style="list-style-type: none"> upUI exists and has been successfully applied upUI has not been part of any deactivation message. 	EPA (Children) – EDP – ERP- ETL- EVR
VAL_UI_EXIST_AUI_SEQ	<p>aUI validity</p> <ul style="list-style-type: none"> aUI has been aggregated (part of an EPA) and has not been disaggregated (including implicit disaggregation) nor deactivated. 	IDA –EPA (Children) – EDP – ERP- ETL- EVR

2.11 [Functional] Description of the deactivation processing

Section: "8.2.5.1.1 Deactivation reason"

Description of the change: description of the processing related to the deactivation reason.

<p>Deactivation reason</p> <p>Depending on the deactivation reason for the parent UI.</p> <ul style="list-style-type: none"> • If the deactivation reason was Deact_Reason1 = 1 (Product destroyed) or 2 (Product stolen) then the full hierarchy is deactivated and therefore nothing needs to be done • If the deactivation reason was Deact_Reason1 = 3 (UI Destroyed),4 (UI Stolen) ,5 (UI Unused) or 6 (Other), then only the explicitly mentioned UIs are deactivated and therefore the stolen parents would be still existing in the Secondary as active. It is the responsibility of the Economic Operator to report the stolen UIs as stolen when they are aware of it (send a deactivation message for the stolen UIs) <p>Note that the Deactivation also can trigger an implicit disaggregation.</p>

2.12 [Functional] Update the VAL_UI_ORD_DEACTIVATED control

Section: "8.2.5.1 Deactivation reason"

Description of the change: This control should not be applied on EIV (4.1), EPO (4.2) and IDA (4.3) messages as the transactional events could be generated in longer period.

Control	Description	Scope
VAL_UI_ORD_DEACTIVATED	UI – presence of UI in a message after being deactivated.	EPA – EDP – ERP- ETL- EUD- EVR - IDA

2.13 [Functional] Update the VAL_UI_ORD_AGG_FID control

Section: "8.2.5.5.2 Location based controls"

Description of the change: Update the scope of the control to match the aggregation and disaggregation.

Control	Description	Scope
VAL_UI_ORD_AGG_FID	Validation that the aggregation and the disaggregation events must happen at the same facility (FID) where the products have been either created or arrived.	EPA - EUD

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3 Data Dictionary 1.4.2 Updates

3.1 [Technical] Typo EOID, FID, MID, EO_CODE ISO definition

Section: "2.1 Data Type"

Description of the change: This is a typo in the DD 1.4 for EO_CODE encoding and will be corrected. EO_CODE is a Text value and is encoded as Alphanumeric values coded with ISO8859-15:1999

Action: Change EO_CODE definition from ISO646:1991 to ISO8859-15:1999

EOID	Economic operator identifier code corresponding to the format established by ID issuer coded with the invariant set of ISO8859-15:1999 EDOI starts with the alphanumeric characters that constitute the ID issuer identification code, followed by alphanumeric sequence which is unique within the code pool of the ID issuer.	Text(50)	
EO_CODE	EO_CODE established by ID issuer coded with the invariant set of ISO8859-15:1999	Text(50)	
FID	Tobacco facility identifier code corresponding to the format established by ID issuer coded with the invariant set of ISO8859-15:1999	Text(50)	
MID	Machine identifier code corresponding to the format established by ID Issuer coded with the invariant set of ISO8859-15:1999	Text(50)	

3.2 [Technical] Remove RECALL_AFTER_ONE_WORKING_DAY

Section: "5 List of Error Codes"

EU Secondary Specifications

Description of the change: Since the Recall of IRU and Ira are not supported anymore, the error code is deprecated.

Action: removed from section.

400	RECALL_AFTER_ONE_WORKING_DAY	For requests of unit level or aggregated level UIs (ISU, IRU, ISA, IRA), recalls can be performed up to one working day after the original message.

3.3 [Technical] Remove Error code

Section: "5 List of Error Codes"

Description of the change: deprecated error codes

Action: removed from section.

400	UI_APPLICATION_DUPLICATE	upUI(s) that has been deactivated should not allow any application event (EUA).
400	UI_NOT_EXIST_OR_NOT_IN_STATE	UI - UI is not applied after deactivation. Or UID is not in correct state for activation

3.4 [Technical] Remove FID_MISMATCH

Section: "5 List of Error Codes"

Description of the change: FID_MISMATCH is duplicate error code from Location Mismatch.

Action: removed from section.

400	FID_MISMATCH	Location (FID) of the goods don't match the source location of the dispatch.

3.5 [Technical] Addition error codes

Section: "5 List of Error Codes"

Description of the change: Additional error codes.

EU Secondary Specifications

Action: added error code.

400	UI_GENERIC_ERROR	Generic sequence validation error
299	UI_GENERIC_WARNING	Generic sequence validation warning