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Dentsu Aegis Network

EU SECONDARY REPOSITORY SPECIFICATIONS CHANGES FROM VERSION 1.3 TO 1.4 FOR ECONOMIC OPERATORS

This document details the changes in the List of Specifications and Data Dictionary from version 1.3 to version 1.4 for the EU Secondary and Router.

Summary of changes

Date	Version	Done by	Comment
17.10.2019	1.0	Dentsu Aegis Network	

Publication

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17.10.2019	1.0	

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1 Introduction

1.1 Purpose

This document describes the changes proposed to the Data Dictionary version 1.3 and the List Of Specifications version 1.3.

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

The version 1.4 of the Data Dictionary and the List of Specification 1.4 introduce the following changes.

- Correction of a number of Clerical Errors
- Message Size limitation update
- Addition of the Message Time Long information in a number of messages in order to implement the sequence validation
- Clarification of the validation definitions and control implementations

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 1.3.

1.5 Impact

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

Change	Secondary Repository and Router	ID Issuer	Primary Provider	Service Provider	Economic Operator Manufacturer / Importer	Economic Operator Distributor / Retail Outlet
Message Size limitation update	X		X	X	X	X
Addition of the Message Time Long information in a number of messages.	X		X	X	X	X
Validation control implementation	X		X	X	X	X

2 List Of Specifications 1.4 Updates

2.1 [Technical] Maximum number of UI in Events

Section: "5.2.10.2 Maximum number of UI"

Description of the change: The enforcement of strict online sequence validation on UI level requires the limitation of the number of UI within messages.

Action: The number of UI within the messages described in the list bellow must be limited to 50 000 UI or aUI

Message Type	Annex II Reference	Message description	Number of UI
IDA	(2.3)	Request for deactivation of UIs	50 000
EUA	(3.1)	Application of unit level UIs on unit packets	50 000
EPA	(3.2)	Application of aggregated level UIs on aggregated packaging	50 000
EDP	(3.3)	Dispatch Event	50 000
ERP	(3.4)	Reception event	50 000
ETL	(3.5)	Trans-loading event	50 000
EUD	(3.6)	Message to report an UID disaggregation	50 000
EVR	(3.7)	Report the delivery carried out with a vending van to retail outlet	50 000
EIV	(4.1)	Message to report an invoice	50 000
EPO	(4.2)	Purchase order	50 000
EPR	(4.3)	Payment record	50 000

2.2 [Cosmetic] Correction of Symbology Identifier for SSCC

Section: "6.1.2.2 Self-Generated aggregated UIs"

Description of the change: Correct the Symbology identifier related to the SSCC.

Action: Change]d2 to]C1

2.3 [Functional] UI Sequence Validation

Section: "8. Validation"

Description of the change: implementation of additional UI sequence validation.

Action: update the validation including the validation responsibility matrix.

Control	Description	Scope
VAL_UI_EXIST_APP	UI validity Exists without Timestamp in the repository. (has never been applied). This validation fails if the upUIs is not found and has not been reported.	*EUA*
VAL_UI_DUPLICATE_APP	UI validity Check if the upUIs has already been applied to a upUI(L)	*EUA*
VAL_UI_FID_APP	Validation of the FID defined in the IRU message (2.1).	*EUA*

Control	Description	Scope
VAL_UI_EXIST_TIME	UI validity upUI exists and Active (the UI has not been part of any deactivation message) in the repository.	*IDA – EUA – EPA (Children) – EDP – ERP- ETL- EUD- EVR – EIV – EPO*
VAL_UI_EXIST_AUI	aUI validity aUI has been aggregated (part of an EPA) and has not been disaggregated nor deactivated.	*IDA – EUA – EPA (Children) – EDP – ERP- ETL- EUD- EVR – EIV – EPO*

Control	Description	Scope
VAL_UI_ORD_REACTIVATION	upUI(s) that has been deactivated should not allow any application event (EUA).	*EUA*
VAL_UI_ORD_DEACTIVATED	UI – presence of UI in a message after being deactivated.	*EPA – EDP – ERP- ETL- EUD- EVR – EIV – EPO – EPR - IDA*

Control	Description	Scope
VAL_UI_ORD_AGG_MULT	Validation that a parent UI has not been part of any prior aggregation event (as parent) without being part of a disaggregation event. This control prevents the reuse of an aUI without prior disaggregation.	*EPA*
VAL_UI_ORD_DISAGG	Validation that an aUI has been disaggregated cannot be part on any product movement prior of being aggregated.	*EDP - ERP – ETL - EVR*
VAL_UI_ORD_IMPLDISAGG	Validation that an aUI has been implicitly disaggregated cannot be part on any product movement prior of being aggregated.	*EDP – ERP – ETL - EVR*
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– EDP – ERP – ETL – EUD- EVR*

Control	Description	Scope
VAL_UI_ORD_ARRIVAL	Validation that a UI is part of a prior reported dispatch or transloading event (EDP 3.3, ETL 3.5) for the specified destination. This validation concerns the sequence of events. *Exception:* Imported products *Exception:* arrival of type return that were delivered (EDP, EVR) to a retail outlet.	*ERP, EDP, EVR*
VAL_UI_ORD_DISPATCH	Validation that a UI last location (FID) matches the	*EDP*

	source location (FID) of the dispatch event. The UI must have been: - Applied or aggregated on that specific location (FID) - Arrived on that location.	

Action: Proposal of the validation warning.

Control	Description	Scope
VAL_EVT_24H	Validation that the Events are reported within 24 hours from the occurrence of the event. This validation is performed on the Event Time compared to the Record Time of the Primary repository or the Router. **This validation should not be blocking but rather generating a warning to the sender system** NOTE: this validation will be reduced to 3 hours after 20 May 2028.	*EUA – EPA – EVR – EIV – EPO – EPR*

3 Data Dictionary 1.4 Updates

3.1 [Technical] Message_Time_Long

Sections:

"3.4 Unique Identifier Management"

"3.5 Reporting Operational"

"3.7 Reporting Transactional"

Description of the change: Addition of the Message Time Long field, addition precision to the event reporting information.

Message_Time_Long	Message sending Time	Time(L)	S	M	

Action: addition of the Message Time Long to the following messages

Message Type	**Annex II Reference**	**Message description**
IRU		Response for unit level UIs
IRA	(2.2)	Request for reporting the issuance of serial numbers at aggregated level
IDA	(2.3)	Request for deactivation of UIs
EUA	(3.1)	Application of unit level UIs on unit packets
EPA	(3.2)	Application of aggregated level UIs on aggregated packaging
EDP	(3.3)	Dispatch Event
ERP	(3.4)	Reception event
ETL	(3.5)	Trans-loading event
EUD	(3.6)	Message to report an UID disaggregation
EVR	(3.7)	Report the delivery carried out with a vending van to retail outlet
EIV	(4.1)	Message to report an invoice
EPO	(4.2)	Purchase order
EPR	(4.3)	Payment record
RCL	(5.0)	Recall messages

3.2 [Technical] New MessageTime field on the Recall Event

Section: "3.9 Recall"

Description of the change: Addition of the MessageTime Long field, on the RecallEvent. This field will be used for the time limit validation.

Action: addition of the Event Time fields to the Recall message

Message_Time_Long	Time of event occurrence	Time(L)	S	M	

3.3 [Technical] Response on IRU RecallExpiry_Time field update to Time(L)

Section: "3.4.2 IRU Message to report"

Description of the change: Addition precision to the Expiry Time information returned to the ID Issuer. Change on the priority of the field. The Router will always provide this field. T

Action: Change of the type of the Field from Time(s) to Time(L)

RecallExpiry_Time	Calculation of the Expiry date	Time(L)	S	M	

3.4 [Functional] Technical Ownership field in the Registry

Section: "4.1 Economic Identifier"

Description of the change: Addition of the ID Issuer identifier that is managing the record (Economic Operator, Facility and Machine). This information is used on a technical level to allow the ID Isuser to update the information of the record preventing any unauthorized data update. This mechanism is used to perform the transfer of the record from one ID issuer to another.

Action: Addition of the technical owner field into the EO records.

Technical_Owner	The IIID that has the ownership of the record.	IIID	M	

3.5 [Technical] Update of the Error Code List

Section: "5 Error Code List"

Description of the change: Update of the error code list