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Dentsu Aegis Network

DATA DICTIONARY AND LIST OF SPECIFICATIONS CHANGES v1.2 TO v1.3 FOR ECONOMIC OPERATORS

This document details the Data Dictionary and List of Specifications changes v1.2 to v1.3 of the EU Secondary Repository and Router.

Summary of changes

Date	Version	Done by Comment			
16.09.2019	1.0	Dentsu Aegis Network	Addition of the GS1 EPCIS, EDI interface. Improvement of the		
			Validation and address field split.		

Distribution

Date	Version	Submitted to
16.09.2019	1.0	Published

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1 Introduction

1.1 Purpose

This document describes the changes proposed to the Data Dictionary version 1.2 and the List Of Specifications version 1.2.

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 1.3 of the Data Dictionary and the List of Specification 1.3 introduce the following changes.

- Correction of a number of Clerical Errors
- Introduction to EPCIS and EDI optional interfaces
- Addition to a granular flat file management using alternate lookup files.
- Technical Split of the Address field into 5 data fields allowing validation and reporting.
- Add the IRU Expiry time calculated by the Router (message 2.1 response)
- Implementation of Message retransmission validation. This validation on the router and primary will improve reporting and event visibility by reduce of the number of retransmissions of successfully processed messages.
- Add the ICM message allowing the validation of the successful transmission of an IRU message to the primary repository.

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 1.2.

2 List Of Specifications 1.3 Updates

2.1 [Technical] Maximum message size limit from 8MB to 6MB

Section: 5.2.9 "Message size"

Description of the change: The maximum message has been reduced from 8MB to 6MB due to technical restrictions of the underlying infrastructure.

Action: Update the text

The maximum message size is 6MB.

2.2 [<u>Cosmetic</u>] Clarification on the general message encoding

Section: 5.2.3 "Message Encoding" *Description of the change:* All messages are encoded in UTF-8

2.3 [Technical] Duplicate message Validation

Section: 5.2.13 "Duplicate message validation"

The message retransmission validation mechanism should reject a message that was received and processed successfully by the Router. This will avoid the sender to send multiple time the same messages that have been **processed successfully**.

Section: 8.2.2 "Message Structure validation"

Description of the change: Add the message payload duplicate control.

Control	Description	Scope
VAL_MSG_DUPLICATE	Message payload already processed successfully by the Router or Primary should be rejected.	IRU - IDA - EUA - EPA - EDP - ERP- ETL- EUD- EVR - EIV - EPO - EPR- ULO - PLO
VAL_MSG_CODE_DUPLICATE	Message identified by a Recallcode that has already been processed successfully should be rejected.	All messages

Validation Responsibility

Primary	Router	Secondary
repository		repository

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Technical validation			
VAL_MSG_DUPLICATE	Х	X	Х
VAL MSG CODE DUPLICATE	Х		Х

2.4 [<u>Technical</u>] Message level Unique message validation clarification

Section: '8.2.4.1 Message level validation'

Description of the change: extend the scope of the message scope and clarify the message validation regarding the aggregation message.

Control	Description	Scope
VAL_UI_MULT_MSG	Multiple duplicate UI present in the messages. For EPA (message 3.2), the validation on the parent UI should also be performed in order to avoid first level cyclical reference.	IRU - IDA - EUA - EPA - EDP - ERP- ETL- EUD- EVR - EIV - EPO - EPR

2.5 [Technical] UI level validation clarification

Section: '8.2.4.3 Duplicate'

Description of the change: clarification of the duplicate during the application process in order to avoid one upUIs being applied multiple times with multiple Timestamps.

Control	Description	Scope
VAL_UI_DUPLICATE_APP	UI validity Check if the upUIs has already been applied to a upUI(L)	EUA

2.6 [Functional] Optional EPCIS and EDI interface

Section: '5.3 EPCIS and EDI Support'

Description of the change: Additional EPCIS and EDI interface implementation.

2.7 [Functional] Additional Flat File type II format support

Section: '5.4.3 Flat Files'

Description of the change: Additional flat file type II format support.

2.8 [<u>Technical</u>] Clarification on Structure of unit-level unique identifiers

Section: '6 Unique Identifiers'

Description of the change: Update the section with the Clarification on Structure of unit-level unique identifiers.

3 Data Dictionary 1.3 Updates

3.1 [Technical] EO_CODE type extended to Text(50)

Description of the change: Update the EO_CODE type definition to Text(50).

3.2 [Cosmetic] Typo Event_Time as Time(s) in the examples

Description of the change: Update the example with Event_Time to Time(s).

3.3 [Technical] Basic Error Block Description

Section: 3.2 "Common schema elements"

Description of the change: Description of the errors section and correction of the Error_InternalID fields.

Data Type	Description	Туре	Example or regular expression
Error_Code	TBD	Text(30)	
Error_Data	Text field containing error related data such as values of attributes, list of UIs For the list of objects (including UI), use the # character as separator.	Text()	
Error_Descr	Description of the error code.	Text()	
Error_Internal ID	Optional internal ID of the error. This internal ID can be used for maintenance or audit purpose.	Text(50)	

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3.4 [Technical] ISU Typo on the MID and P_CN Priority

Section: 3.4.1 "ISU - (2.1) Request for unit level UIs"

Description of the change: typo on the MID and P_CN Priority.

Action: Alignment with Regulation.

	Request for unit level UIs – request						
Field	Description	Data Type	Cardinality	Priority	Values		
M_ID	Machine identifier code	MID	S	M, if Process_ Type = 1			
P_CN	Combined Nomenclature (CN) code	Text	S	O M, if Intende d_Mark et is an EU country			

3.5 [Technical] IRU Typo and missing P_Weight field

Section: 3.4.2 "IRU – Message to report the issuance of serial numbers at unit packet level"

Description of the change: typo and missing P_Weight field.

Action: Alignment with Regulation.

- 1. Correction of the M_ID Priority
- 2. Addition of the P_weight field

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3. Update the upUI Data Type

request for reporting the issuance of serial numbers at unit packet level – request						
Field	Description	Data Type	Cardinality	Priority	Values	
M_ID	Machine identifier code	MID	S	M, if Process _Type = 1		
P_weight	Average gross weight of unit packet, including packaging, in grams with 0.1 gram accuracy	Decimal	S	М		
upUI	List of unit packet level UI issued by the ID Issuer.	<mark>UI without</mark> TimeStamp	М	М		

3.6 [Technical] Address Field technical split

Description of the change: Split the Address field in multiple fields allowing validation and reporting.

The field address will remain

_Address	address	Text	S	М	
	– street name, house				
	number, postal code, city				

Will be replaced by the following fields

	and remember include				
_Address_Name	Name part of the Address	Text	S	0	
_Address_StreetOne	Street part of the Address	Text	S	М	
_Address_StreetTwo	Second Element of the Street part of the Address	Text	S	0	
_Address_City	City	Text	S	М	
_Address_PostCode	PostalCode information	Text	S	0	

Message Impacted:

Message	Description	Fields
REO	(1.1) Registration of an Economic operator	EO_Address
REOD	Data Registration of an Economic operator	EO_Address
CEO	(1.2) Correction for an economic operator identifier code	EO_Address
RFA	(1.4) Request for a facility identifier code	EO_Address
RFAD	Data Registration for a facility identifier code	EO_Address
CFA	(1.5) Correction of information concerning the facility identifier code	EO_Address

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EDP	(3.3) Dispatch of tobacco products from a facility	Destination_ID5
ETL	(3.5) Trans-loading	Destination_ID3
EIV	(4.1) Message to report an invoice	Buyer_Address
EPR	(4.3) Receipt of the payment	Payer_Address

EU-wide registry impacted

Field	Description	Data Type	Priority	Comments
EO_Address_Name	Name part of the Address	Text	0	
EO_Address_StreetOne	Street part of the Address	Text	М	
EO_Address_StreetTwo	Second Element of the Street part of the Address	Text	0	
EO_Address_City	City	Text	Μ	
EO_Address_PostCode	PostalCode information	Text	0	