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EU SECONDARY REPOSITORY SPECIFICATIONS CHANGES FROM VERSION 2.0 DRAFT TO 2.0

This document details the changes in the List of Specifications and Data Dictionary from version 2.0 DRAFT to the final version of 2.0 for the EU Secondary and Router.

Summary of changes

Date	Version	Done by	Comment
15.09.2023	1.0	Dentsu International	First version

Publication

Date	Version	Submitted to
21.09.2023	1.0	Published

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1 Introduction

1.1 Purpose

This document describes the changes between the DRAFT version of Data Dictionary 2.0 and List of Specifications 2.0 circulated on the 21st of August 2023 to the final version of Data Dictionary 2.0 and the List of Specifications 2.0 published on the 21st of September 2023 taking into consideration all the feedback received by stakeholders.

1.2 Summary of changes

Several changes compared to the DRAFT, the majority making the document more precise and resolving inconsistencies thanks to the feedback reported by all stakeholders.

2 List Of Specifications 2.0 Updates

Section 2 Definitions:

- Corrected a typo (“nay me” for “may be”) on the Machine Part definition.

Section 3.5 Secondary Repository test environment:

- Added “and will always be available” as a last sentence.

Section 3.6 Secondary Repository User Acceptance Environment:

- Added the fact that the User Acceptance Environment is only applicable from 21st of December 2023 onwards and will be used to host a new version of the specifications for the testing period before the implementation of a major version (essentially allowing the existing QA environment to be the Regression environment and the UAT environment to be the one in which to test the new implementations): *“This environment will be staged after 21st of December 2023 (as per the regulation) and only available for a limited time in case that a major update is done in the system, so that the QA environment becomes the “regression environment” with the previous version of the specifications and the “user acceptance environment” hosts the new version.”*

Section 4.1.3.1 Description – De-registration of Economic Operator Identifier code:

- Added the word “all”: *“In both cases, this must lead to the automatic deactivation of **all** the related Facility Identifier codes and **all** Machine Identifier codes.”*
- Added a note: *“**Note**: All Machine Identifier codes include all fixed and mobile parts.”*

Section 4.1.6.1 Description – De-registration of a Facility Identifier code:

- Added the word “all”: *“The de-registration of a facility identifier code shall lead to the automatic de-registration of **all** related machine identifier codes by the ID issuer.”*
- Added a note: *“**Note**: All Machine Identifier codes include all fixed and mobile parts.”*

Section 4.1.9.1 Description – De-registration of a Machine Identifier code:

- Reworded to reflect that when de-registering/de-activating a Machine Identifier code that represents an Entire machine, the MOBILE machine parts shall not be automatically de-registered/de-activated if they are linked to additional Machine Identifiers.
    - *”In case that a Machine ID that contains identifiable parts, is de-registered, all parts of type “Fixed” linked with it will be automatically de-registered. Machine Parts of type “Mobile” that are linked to at least another Machine ID shall NOT be automatically de-registered as they are declared to be part of another Machine ID, due to their mobile nature. If the Mobile Part is only linked with one Machine ID (the one that is being de-registered) then the Mobile Part shall be de-registered as well.”*
    - *“Mobile Machine Parts shall not be automatically deactivated if they are linked to more than 1 Machine. If the Mobile Machine Part is linked only to the Machine being deactivated, then it shall be automatically deactivated.”*

Section 4.7 Third Party Logistic Operator Scenario

- Subsection “4.7.1 Overview” removed
- Section renamed to *“Recording and transmission of information on supply chain events”*
- Section re-written.

Section 5.2.11.2 Maximum number of UI

- Increased the Number of UI (upUI + aUI) to 5000 for IRR, EUA, EPA, EDP, ERP, ETL, EUD, EVR, EDX, EIV, EPO, EPR. Note that message IDA stays at the limit of 1000.

- Clarified that the limit for EUA is the sum of max 2500 upUI(L) and 2500 upUI(s).

Section 5.2.13 Message Sequence

- Modified the text to separate in different paragraphs the obligations of Primary Providers towards the Secondary Repository and the Service Providers / Economic Operators towards the Router. Changes in bold:
    - *« The Primary Repositories must report the messages reported by the manufacturer/**importer** in the same sequence. The reporting of messages **by the Primary Repository** to the Secondary Repository is completed upon reception of an acknowledgement message by the Secondary Repository »*
    - ***« The service providers and economic operators reporting to the Router must report the messages reported in sequence. The reporting of messages to the Router is completed upon reception of an acknowledgement message by the Router. »***
    - *« Note**: When transmitting a message to the Secondary Repository or the Router if** two messages **affect** the same group of UIs **and the sender does not wait** for the acknowledgment from the Secondary Repository or the Router **between the messages**, both messages are considered to be reported simultaneously and **NOT in sequence**. By "affecting the same group of UIs" it refers either explicitly mentioned UIs between the messages or implicitly calculated UIs based on previous messages (i.e. hierarchy related UIs). »*

Section 5.2.18 Identification of the message originator

- This is a new section to explicitly explain how the system differentiates between a message originator (i.e. a Service Provider) VS the Economic Operator ID submitting the message as explicitly mentioned in the regulation's Annex II.

3 Data Dictionary 2.0 Updates

Section 2.1 Data types:

- Country definition: Deleted the exceptions in regards to XI/XZ and instead added *"Please refer to section 2.6.1 for the list of countries including any applicable exception."*
- EOID: Changed the accepted charset to reflect what's in the regulation (From ISO8859-15:1999 to ISO646:1991).
- FID: Changed the accepted charset to reflect what's in the regulation (From ISO8859-15:1999 to ISO646:1991).
- MID: Changed the accepted charset to reflect what's in the regulation (From ISO8859-15:1999 to ISO646:1991).

Section 2.5.1 EconomicOperator

- Field EO_mail, changed data type from "Text(5000)" to "Text(80)"

Section 2.5.2 Facility

- Added fields "longitude" and "latitude" for reporting the optional GSP coordinates.

Section 2.6.1 Country Codes

- Field "GB", removed "and Northern Ireland" from the description

Section 3.3.3.5.1 Sequence Validation Overview

- Modified a mistake in a transition which was wrong in regards to IRR:
  - IRR followed by ERP => Not allowed
  - IRR followed by ERP (return) => Not allowed

Section 3.3.3.7 Identification Code Validation

- Added EDX to the scope of VAL_ENT_ACTIVE_FID

Section 3.3.4 Validation Scope

- Added EDX to the scope of VAL_ENT_ACTIVE_EOID for the Router only
- Added EDX to the scope of VAL_ENT_ACTIVE_FID for the Router only
- Removed IRA from the scope of VAL_UI_ORD_REACTIVATION_NOT_ALLOWED
- Added IRR to the scope of VAL_UI_ORD_REACTIVATION_NOT_ALLOWED

Section 3.4.1.2 REO 1.1 - Description of the fields

- Field EO_mail, changed data type from "Text(5000)" to "Text(80)"

Section 3.4.2.2 CEO 1.2 - Description of the fields

- Field EO_mail, changed data type from "Text(5000)" to "Text(80)"

Section 3.4.3.1 DEO 1.3 – Description

- Added *"including fixed and mobile parts".* Which means that a de-registration/de-activation at EO-ID level will de-register/de-activate all the related items in the hierarchy below (all F-IDs, all M-IDs regardless if they are entire machines, fixed machine parts or mobile machine parts).

Section 3.4.4.2 RFA 1.4 – Description of the fields

- Field “OtherFID_N” was missing “List of FIDs” in the value, added.

Section 3.4.5.2 CFA 1.5 – Description of the fields

- Field “OtherFID_N” was missing “List of FIDs” in the value, added.

Section 3.4.5.4 Request sample

- Amended example for field “F_municipality”, value is now “City” instead of “myNewCity” to avoid confusion as F-IDs should not be reused for different locations.

Section 3.4.6.1 DFA – Description

- Removed the Exception.
- Added *“and related machine parts (regardless if they are fixed or mobile).”*. Which means that a de-registration/de-activation at F-ID level will de-register/de-activate all the related items in the hierarchy below (all M-IDs regardless if they are entire machines, fixed machine parts or mobile machine parts).

Section 3.4.7.2 RMA – Description of the Fields

- Changed data type for field M_Producer from Text(200) to Text(20).
- Changed priority for field M_Producer from M to M, if M_entirety = 1
- Changed data type for field M_Model from Text(200) to Text(20).
- Changed priority for field M_Model from M to M, if M_entirety = 1
- Changed data type for field M_Number from Text(200) to Text(20).
- Changed priority for field M_Number from M to M, if M_entirety = 1
- Added Values “List of MIDs (parts)” for field M_plist

Section 3.4.8.1 CMA – Description

- Added the Exception: *“EXCEPTION: It must be not allowed to modify an existing M-ID from entire machine to part and vice-versa. The field “M_entirety” cannot be modified.”*

Section 3.4.8.2 CMA – Description of the fields

- Changed data type for field M_Producer from Text(200) to Text(20).
- Changed priority for field M_Producer from M to M, if M_entirety = 1
- Changed data type for field M_Model from Text(200) to Text(20).
- Changed priority for field M_Model from M to M, if M_entirety = 1
- Changed data type for field M_Number from Text(200) to Text(20).
- Changed priority for field M_Number from M to M, if M_entirety = 1
- Added Values “List of MIDs (parts)” for field M_plist

Section 3.4.9.1 DMA – Description

- The part in bold was added: *“All associated Machine Parts **of type “FIXED”** will be automatically de-registered as well.”*
- The following paragraph is added *“Machine Parts of type “Mobile” shall NOT be automatically de-registered because of this message if they are associated with multiple Machine IDs. If the mobile part is associated ONLY to the M_ID that is being deregistered, then it shall be automatically deregistered.”*

Section 3.4.10.1 ICV – Description

- Added *“For the specific case of MIDs with the addition of Machine Parts, the interface will also return if the queried MID is a machine part or not.”*

- Added the technical functionality for ID Issuers to be able to query if Machine IDs are a Machine Part or an Entire Machine:
    - Request: ICV_Type added the type 2.
    - Response: Added the field M_IDS_PARTS that is returned only for ICV_Type 2.

Section 3.5.6.1.1 Product deactivation

- Added a paragraph: *"It is only possible to declare IDA with Deact_Reason1 = 2 for upUIs as long as the upUIs have been produced (meaning, they have been associated with a successful 3.1 Activation EUA message prior to the declaration of the IDA message). If this is not the case, a UI_SEQUENCE_ERROR has to be returned by the repositories system, as product that is not produced yet cannot be physically stolen."* This validation is necessary because otherwise non-produced upUIs could be declared as stolen and later introduced somewhere in the supply chain with the new message IRR, which is not consistent.

Section 3.5.6.1.2 UI Deactivation

- Modified slightly the first paragraph, changes in bold: *"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 **hierarchy related UIs (implicit UIs)** would still **be** existing in the Secondary as active"*

Section 3.5.6.1.3. Deactivation upUI

- Added 2 paragraphs:
    - *"For upUIs that are GENERATED by the ID Issuer via IRU message to the Repositories System but have not received an Activation message (3.1 – EUA) only the upUI(i) representation of the upUI will be used in message 2.3 – Deactivation. This means that before producing the upUIs, the upUI(s) (Human Readable) representation of the upUI **cannot be used** to deactivate the upUI, as this has not been applied yet to any product. If an IDA is received with the upUI(s) before the product has been applied, the repositories system will reply with a "UI_NOT_EXIST" error."*
    - *"After the upUI has been produced (declared as part of a 3.1 Activation message), then the 3 representations may be used to deactivate it (upUI(s), upUI(i), upUI(L)). Note that this is the case before the v2.0 of the specifications."*

Section 3.5.8.1 IRR – Description

- Reworded the first paragraph (changes in bold): "***Cancels a previous Deactivation** of UIs **due** to **"Product Stolen"**."*
- Modified the following paragraph (additions in bold): *"This message is only permitted if in a preceding message type 2.3, field Deact_Reason1 = 2 **and such message was positively acknowledged."***
- Modified the following paragraph (changes in bold): *"The reactivation can be done at a upUI or aUI level and it implies the **UIs will be considered as "received" into** the **IRR's location (the FID declared in the IRR message). In this regard, the IRR behaves like an Arrival Return – ERP Return.**"*
- Modified the following paragraph (changes in bold): *"Note that there is no location validation on the reactivation event, meaning that the UIs can be reactivated at a different location where they were reported as stolen **(or they can also be reactivated if they were reported as stolen while in transit). Note that this is the same behaviour as Arrivals Return – ERP Return.**"*

Section 3.5.8.5 Implicit Reaggregation Trigger

- Changed the section's title to "Implicit **disaggregation** trigger"

- Changed the text to (changes in bold): *"The reactivation event **may** trigger implicit **disaggregation in** the **case that the stolen goods were reported higher up in the hierarchy and the recovered goods are reported lower in such hierarchy.**"*

Section 3.6.8.2 EDX – Description of the fields

- Added the field "information" to the message to support this functionality.

Section 3.9.3.3 How to report lists

- New section for the sharing of the registry from ID Issuers to the Router. Since now there is a need to report a list of values (Machine Parts) inside a cell of the CSV file, which is transmitted via HTTP using JSON protocol, the following paragraph has been added:
  - *"In order to be able to still use the comma "," when generating a value (for example Machine Identifiers) and be able to report a list of values inside a CSV transmitted by JSON (for example, the new Machine Parts list M_plist) please use the character "#" to separate the values (See the sample below)."*

Section 3.9.3.5 Request sample

- Modified the sample to showcase the usage of the separator for machine part lists: *""File_Content":["CSVVALUE1; CSVVALUE2; CSVVALUE3", "CSVVALUE1; **CSVLISTVALUE1#CSVLISTVALUE2#CSVLISTVALUE3**; CSVVALUE3", "CSVVALUE1; CSVVALUE2; CSVVALUE3", "CSVVALUE1; CSVVALUE2; CSVVALUE3"]"*
- Added *"Note that in the sample the part with CSVLISTVALUE1#CSVLISTVALUE2#CSVLISTVALUE3 represents for example the M_plist, which is a list inside the CSV. Use « # » to separate the list values, the character « ; » is reserver to separate cells in the CSV. The character « , » may be used to identify a M_ID."*

Section 3.11.1.5.3 EO Element JSON Object

- Modified data type for EO_Email from Text(5000) to Text(80)

Section 3.11.1.5.4 Facility Element JSON Object

- Added values "List of FIDs" to field OtherFID_N

Section 3.11.1.5.5 Machine Element JSON Object

- Added values "List of MIDs (parts)" to field M_plist

Section 4.1.1 Economic Identifier

- Field EO_Email modified data type from Text(5000) to Text(80)

Section 4.1.2 Facility

- Modified priority for field F_Address_City from *"M, if registered **post** DataDictionary v2.0 go-live"* to *"M, if registered **pre** DataDictionary v2.0 go-live"*
- Modified priority for field F_Country from *"M, if registered **post** DataDictionary v2.0 go-live"* to *"M, if registered **pre** DataDictionary v2.0 go-live"*
- Added fields "longitude" and "latitude" for reporting the optional GSP coordinates.

Section 4.1.3 Manufacturing Machine

- Removed the comments from PrevMID_ID
- Added the comment to M_entirety: *"0 – No (machine part) 1 – Yes (machine)"*
- Added value to the field M_plist *"List of MIDs (parts)"*

Section 4.2.1.2 ProductLookup

- Added field P_SubType_Exist
- Added field P_SubType_Name
- Added field P_units

Section 4.2.2.2 ProductLookup.csv

- Added field P_SubType_Exist
- Added field P_SubType_Name
- Added field P_units

Section 5.2 Processing errors

- For the error 400 – NOT_THE_SAME_NUMBER_OF_ITEMS of control VAL_MSG_JSON added an example for IRU where the length of the 2 lists of UIs are not matching: *"For IRU message: The field "upUI_i" and "upUI_s" must match in length."*