# dentsu TRACKING

**Dentsu Aegis Network** DATA DICTIONARY v1.4.5

This document details the Data Dictionary for EU Secondary Repository and Router.

#### Summary of changes

Summary of Date	Version	Done by	Comment		
17.01.2019	0.1	Dentsu Aegis Network	Internal Draft		
05.02.2019	0.2	Dentsu Aegis Network	First Draft shared with stakeholders		
21.02.2019	1.0	Dentsu Aegis Network	First release		
08.03.2019	1.1	Dentsu Aegis Network	Minor changes		
28.03.2019	1.2	Dentsu Aegis Network	Minor changes		
16.09.2019	1.3	Dentsu Aegis Network	Addition of the GS1 EPCIS, EDI interface. Improvement of the Validation and address field split.		
16.10.2019	1.4	Dentsu Aegis Network	Addition of the validation error codes and the EventTimeLong field.		
17.10.2019	1.4.1	Dentsu Aegis Network	<ul> <li>Update of the Message Time Long.</li> <li>Update the definition of the Arrival validation to remove the FID control.</li> <li>Update the VAL_EVT_24H definition to a warning returning a Http status 299.</li> </ul>		
20.12.2019	1.4.2	Dentsu Aegis Network	Update EOID, FID and MID, Error codes		
31.10.2020	1.4.3	Dentsu Aegis Network	Update of the country codes in preparation for Brexit. Consolidation of optional features into the main documents		
15.04.2021	1.4.4 DRAFT	Dentsu Aegis Network	<ul> <li>Clerical changes:</li> <li>Moving the definition of the technical and the business validation from the list of specification to the Data Dictionary</li> <li>IDA sample.</li> <li>Augment the M_Producer, M_Model, M_Number to 200 characters.</li> </ul>		
21.05.2021	1.4.4 DRAFT2	Dentsu Aegis Network	Update of the sequence validation summary table.		
15.06.2021	1.4.4	Dentsu Aegis Network	Update of the technical Regular expressions in the datatype table.		
07.07.2022	1.4.5 DRAFT	Dentsu Aegis Network	<ul> <li>Validation <ul> <li>Relaxation of the location validation on aggregation and disaggregation performed outside the EU</li> <li>Event Time and Message time long technical validation</li> </ul> </li> <li>Optional feature <ul> <li>Optional extention of the deactivation event 2.3</li> <li>Optional disaggregation acknowledgement confirmation</li> </ul> </li> </ul>		
26.08.2022	1.4.5 DRAFT2	Dentsu Aegis Network	Add the TotalupUI limitation. Update the time validation to 72H		
08.09.2022	1.4.5	Dentsu Aegis Network	Publication		

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Distribution		
Date	Version	Submitted to
05.02.2019	0.2	Mail to stakeholder
21.02.2019	1.0	Published
08.03.2019	1.1	Published
28.03.2019	1.2	Published
16.09.2019	1.3	Published
16.10.2019	1.4	Published
17.10.2019	1.4.1	Published
20.12.2019	1.4.2	Published
31.10.2020	1.4.3	Published
15.04.2021	1.4.4 DRAFT	Mail to Primary Providers and ID Issuer
21.05.2021	1.4.4 DRAFT2	Mail to Primary Providers and ID Issuer
15.06.2021	1.4.4	Published
07.07.2022	1.4.5 DRAFT	Mail to Primary Providers and Competent Authorities
26.08.2022	1.4.5 DRAFT2	Mail to Primary Providers and Competent Authorities
08.09.2022	1.4.5	Published



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# 1 Introduction

This document defines a data dictionary for Dentsu Tracking System. It will include information about data base entities and flows, authentication, operational and transactional methods, security edge case, router definition, error messages, registration process, message validation and an overall connection diagram.

**Note:** For the description of the Repositories system components, architecture, processes, data flows, list of interfaces and messages, see the List of Specifications document.

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# 2 Data description

#### 2.1 Data types

There are some types used along the document, which need to be defined.

Data Type	Description	Туре	Example or regular expression
ARC	Administrative Reference Code (ARC) or any successive code adopted under the Excise Movement and Control System (EMCS)	Text(30)	'15GB0123456789ABCDEF0' Validation RegEx: ^[a-zA-Z0-9]*\$
aUI	Aggregated level unique identifier coded with: either The invariant set of ISO646:1991 and composed of four blocks: (a) ID issuer's prefix in accordance with ISO15459-2:2015, (b) serialization element in the format established by the ID issuer, (c) tobacco facility identifier code following the Data Type: FID and (d) timestamp following the Data Type: Time(s) or The invariant set of ISO646:1991 forming a code structured in accordance with ISO15459- 1:2014 or ISO15459-4:2014 (or their latest equivalent))	Text(100)	
Boolean	Boolean value	Boolean	<ul><li>0 (false/disabled)</li><li>1 (true/enabled)</li></ul>
Component	A data type defined in the data dictionary		Aggregation
Country	Country name coded with ISO-3166-1:2013 alpha-2 (or its latest equivalent)	Text(2)	'DE'

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Currency	Currency name coded with ISO 4217:2015 (or its latest equivalent)	Text(3)	'EUR'
Date	A UTC data in text corresponding to the following format: YYYY-MM- DD	Text(10)	E.g. '2017-03-31'
Decimal	Number values, decimal allowed	Decimal	E.g. '1' or '22.2' or '333.33'
Email	Maximum 80 characters	Text(80)	<pre>E.g. 'info@test.com' Validation RegEx: ^((([a-zA- Z] \d [!#\\$%&amp;'\*\+\- \/=\?\^_`{\ }~] [\u00A0 -\uD7FF\uF900- \uFDCF\uFDF0- \uFEF])+(\.([a-zA- Z] \d [!#\\$%&amp;'\*\+\- \/=\?\^_`{\ }~] [\u00A0 -\uD7FF\uF900- \uFDCF\uFDF0- \uFEF])+)*) ((\x22)((( (\x20 \x09)*(\x0d\x0a)) ?(\x20 \x09)+)?(([\x01- \x08\x0b\x0c\x0e- \x1f\x7f] \x21 [\x23- \x5b] [\x5d- \x7e] [\u00A0- \uD7FF\uF900- \uFDCF\uFDF0-\uFFEF])</pre>
EOID	Economic operator identifier code corresponding to the format established by ID issuer coded with the invariant set of ISO8859- 15:1999 EOID starts with the alphanumeric characters that constitute the ID issuer identification code, followed by alphanumeric sequence	Text(50)	

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	which is unique within the code pool of the ID issuer.		
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)	
Integer	Rounded number values, no decimal numbers	Integer	E.g. '1' or '22' or '333'
IIID	ID Issuer code in line with the issuing agency codes of ISO/IEC 15459	Text(35)	E.g. 'FTR'
ITU	Individual transport unit code (e.g. SSCC) generated in accordance with ISO15459- 1:2014 (or its latest equivalent)		'00791234560000000018'
List	Must be only one of the values present in the 'Values' column		
MID	Machine identifier code corresponding to the format established by ID Issuer coded with the invariant set of ISO8859-15:1999	Text(50)	
MRN	Movement Reference Number (MRN) is a unique customs registration number. It contains 18 digits and is composed of the following elements: (a) last two digits of the year of formal acceptance of export movement (YY), (b) country name coded with ISO3166- 1:2013 alpha-2 (or its latest equivalent) of the Member	Text(18)	'19IT9876AB88901235' Validation RegEx: ^[0-9]{2}[A-Z]{2}[a-zA- Z0-9]+[0-9]{1}\$

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	State to which the declaration was sent, (c) unique identifier for entry/import per year and country, and (d) check digit.		
PN	Product number – numeric identifier used in the EUCEG system to identify product presentations (e.g. GTIN (Global Trade Identification Number) of the product)	Text(30)	'00012345600012'
SEED	Excise number composed of: (a) country name coded with ISO-3166-1:2013 alpha-2 (or its latest equivalent) (e.g. 'LU') and (b) eleven alphanumeric characters, if needed, padded to the left with zeroes (e.g. '00000987ABC').	Text(13)	'LU00000987ABC' Validation RegEx: ^[A-Z]{2}[a-zA-Z0- 9]{11}\$
Serial	Number corresponding with the invariant set of ISO646:1991 used for serialisation		
SSCC	SSCC-18 container code generated in line with ISO6346:1995 (or its latest equivalent)	Text(20)	00791234560000000018
Text (X)	Alphanumeric values coded with ISO8859-15:1999 limited to X characters		E.g. 'Abcd' or '123455588845'
Time(s)	UTC (Coordinated Universal Time) time in the following format: YYMMDDhh	Text(8)	'19071619'
Time(L)	UTC (Coordinated Universal Time) time in the following format: YYYY-MM- DDThh:mm:ssZ	Text(34)	E.g. '2020-03- 31T23:16:45Z'
Time(ms)	Time(ms) format format : yyyy-MM- ddTHH:mm:ss.fffZ		E.g '2020-08- 13T16:01:34.477Z'

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TPID	Tobacco Product Identifier (TP-ID) – numeric identifier used in the EU-CEG system in the format: NNNNN-NN- NNNN	Text(14)	'02565-16-00230' Validation RegEx: ^[0-9]{5}-[0-9]{2}-[0- 9]{5}\$
upUI(L)	Unit packet level unique identifier coded with the invariant set of ISO646:1991 and composed of three blocks: (a) ID Issuer's prefix in line with ISO154592:2015, (b) middle block in the format established by ID Issuer and (c) timestamp following the Data Type: Time(s)		
upUI(s)	Unit packet level unique identifier coded with the invariant set of ISO646:1991 and composed of two blocks: (a) ID Issuer's prefix in line with ISO154592:2015 and (b) serialisation element in the format established by ID issuer (i.e. UI made visible in the human readable format on the unit packets)		

# 2.2 Priority types

Туре	Explanation
Mandatory (M)	The variable must be completed.
Optional (O)	The variable is for optional fields which could be filled depending on the record status or type.

### 2.3 Cardinality types

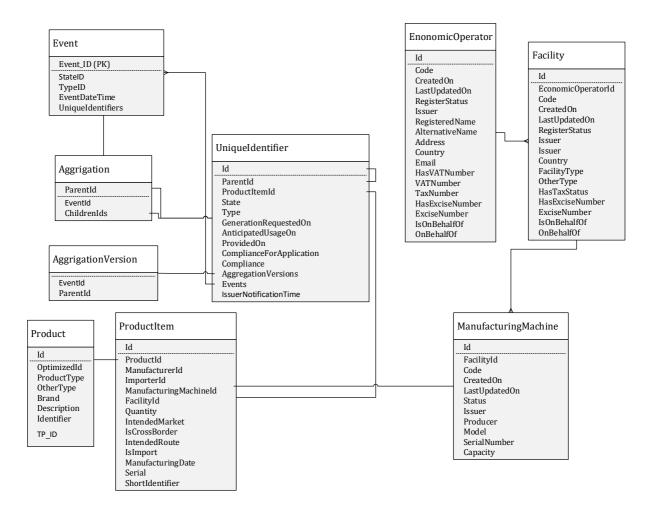
Туре	Explanation
Simple (S)	Single value
Multiple (M)	Multiple values

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#### 2.4 Minimum Data model

The minimal data model describes the contents, format, and structure of a database and the relationship between its different elements. Note: the Minimum Data Model may be extended.



#### 2.4.1 Event

Field	Description	Data Type	Mandatory	Comments
Id <i>(PK)</i>	Internal identification number of this event	Integer	Μ	
StateID	The state of the event	EventState ID	Μ	EventState Type

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TypeID	The type of the event	EventType ID	Μ	EventType Type
EventDateTime	Date and Time when the event occurs	Time(L)	Μ	
Content	Full content of the event.	Component	Μ	

#### 2.4.2 Product

Field	Description	Data Type	Mandato ry	Comments
Id (PK)	Internal identification number. This number is generated by the ID Issuer	Text(4)	M	
EO_ID (FK)	Economic operator identifier code of the submitting entity (either EU manufacturer or EU importer)	EOID	Μ	
F_ID	Facility identifier code	FID	М	
Process_Type	Indication if the production process involves machinery	Boolean	Μ	0 – No (only for fully hand made products) 1 – Yes
M_ID	Machine identifier code	MID	0	
P_Type	Type of tobacco product	Integer	М	See TobaccoProductT ype
P_OtherType	Description of other type of tobacco product	Text(200 )	M, if P_Type = 11 (other tobacco product)	
P_CN	Combined Nomenclature (CN) code	Text(200 )	0	
P_weight	Average gross weight of unit packet, including packaging, in grams with 0,1 gram accuracy	Decimal	Μ	
P_Brand	Brand of tobacco product	Text(200 )	М	
TP_ID	The identification number of the product used in the EU-CEG system.	TPID	M, if Intended_ Market is an EU country	

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TP_PN	Tobacco product number used in the EU-CEG system	PN	M, if Intended_ Market is an EU country	
Intended_Market	Intended country of retail sale.	Country	Μ	
Intended_Route1	Indication if the product is intended to be moved across country boarders with terrestrial transport.	Boolean	Μ	0 – No 1 – Yes
Intended_Route2	The first country of terrestrial transport after the product leaves the Member State of manufacturing or the Member State of importation.	Country	M, if Intended_ Route1 = 1	
Import	Indication if the product is imported into the EU	Boolean	Μ	0 - No 1 - Yes
Req_Quantity	Requested quantity of unit packet level UIs	Integer	Μ	
P_OtherID	Optional Product ID	Text(20)	0	

#### 2.4.3 TobaccoProductItem

Field	Description	Data Type	Mandator Y	Comments
Id (PK)	The identification code (i.e. unique identifier) of the product item as required by Article 15(2)	upUI(L)	M	
ProductId (FK)	The identification code of the product	Product Id	Μ	
ManufacturerId (FK)	Identifier of the manufacturer of this tobacco product	MID	Μ	
ImporterId (FK)	The identifier of the importer into	EOID		

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	the Union, if			
	applicable			
ManufacturingMachine_ Id (FK)	The identifier of the manufacturin g machine	Manufacturin g Machine MID	Μ	
FacilityId (FK)	The identifier of the manufacturin g facility. This date is the one used for requesting the issuance of codes.	Facility FID	Μ	
IntendedMarket	Intended country of retail sale	Country	Μ	
IsCrossBorder	Indication if the product is intended to be moved across country boarders with terrestrial transport	Boolean	Μ	0 - No 1 - Yes
IntendedRoute	The first country of terrestrial transport after the product leaves the Member State of manufacturin g or the Member State of importation	Country		M, if Intended_Route 1 = 1
IsImport	Indication if the product is imported into the EU	Boolean	М	0 – No 1 – Yes
ManufacturingDate	Date of manufacturin g. This date is the one used for requesting the issuance of codes	Time(s)	Μ	
Serial	Serial number provided by the ID Issuer	Serial	М	

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ShortIdentifier	Short unique identifier	upUI(s)		
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### 2.4.4 UniqueIdentifier

Field	Descriptio n	Data Type	Mandator y	Comments
ID (PK)	Unique identifier of the unit packets or aggregated packaging level	Text(50)	M	
State	The state of the unique identifier	UniqueIdentifier State ID	Μ	UniqueIdentifier State Type
Туре	The type of the unique identifier	UniqueIdentifier Type ID	Μ	UniqueIdentifier Type Type
GenerationRequested On	Date and Time when the generation was requested	Time (L)	Μ	
AnticipatedUsageOn	Date and Time when the generator intends to use it	Time (L)	Μ	
IssuerNotificationTim e	Date and Time when the generation was notified to the storage	Time(L)	Μ	
ParentId	The identifier of the parent element that contains this item	UniqueIdentifier ID	0	

# 2.5 Registered entities

# 2.5.1 EconomicOperator

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Field	Description	Data Type	Mandatory	Comments
Id (PK)	Economic operator's registered ID	EOID	Μ	
CreatedOn	Timestamp when the registration has been accomplished	Time(L)	Μ	
LastUpdatedOn	Timestamp of the last change on the register	Time(L)		
RegisterStatus	Status of the registration	Integer	М	RegisterStatu s Type
Issuer	Identification number of the ID Issuer solution that has processed the registration	IIID	Μ	
EO_Name1	Economic operator's registered name	Text(100)	Μ	
EO_Name2	Economic operator's alternative or abridged name	Text(100)	0	
EO_Address	Economic operator's address – street name, house number, postal code, city	Text(300)	M	
EO_CountryReg	Economic operator's country of registration	Country	M	See Country
EO_Email	Economic operator's email address; used to inform about registration process, incl. subsequent changes and other required correspondence	Text(5000 ) (Regex protected)	Μ	
VAT_R	Indication of the VAT registration status	Boolean	Μ	<ul> <li>No</li> <li>VAT</li> <li>registration</li> <li>VAT</li> <li>number</li> <li>exists</li> </ul>

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	<b>F</b> i	$T_{ab}$ $(20)$	NA :6	
VAT_N	Economic operator's VAT number	Text(20)	M, if VAT_R = 1	
TAX_N	Economic operator's tax registration number	Text(20)	M, if VAT_R = 0	
EO_ExciseNu mber1	Indication if the economic operator has an excise number issued by the competent authority for the purpose of identification of persons/premise s	Boolean	Μ	- No SEED number - SEED number exists
EO_ExciseNumber 2	Economic operator's excise number issued by the competent authority for the purpose of identification of persons/premise s	SEED	M, if EO_ExciseNumber 1 = 1	
OtherEOID_R	Indication if the economic operator has been allocated an identifier by another ID Issuer	Boolean	Μ	– No – Yes
OtherEOID_N	Economic operator identifier codes allocated by other ID Issuers	Text(5000 )	M, if OtherEOI D_R = 1	List of EOIDs
Reg_3RD	Indication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco trade	Boolean	Μ	– No – Yes
Reg_EOID	Identifier of the economic operator that acts on behalf of a retail outlet operator not	EOID	M, if Reg_3RD = 1	

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	otherwise involved in the tobacco trade			
EO_OtherID	Optional identifier	Text(50)	0	
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	Μ	

### 2.5.2 Facility

Field	Description	Data Type	Mandatory	Comments
EO_ID(FK) Economic operator identifier code		EOID	Μ	
F_ID (PK)	Facility code from the RFA code issuer call	FID	Μ	
CreatedOn	Timestamp when the registration has been accomplished	Time(L)	Μ	
LastUpdatedOn	Timestamp of the last change on the register	Time(L)		
RegisterStatus	Status of the registration	Integer	М	RegisterStatus Type
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	Μ	
F_Country	Facility's country	Country	Μ	See Country
F_Type	Type of facility	Integer	М	See FacilityType
F_Type_Other	Description of other facility type	Text(5000)	0	
F_Status	Indication if a part of the facility has a bonded warehouse status	Boolean	Μ	0 - No 1 - Yes

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F_ExciseNum ber1	Indication if the facility has an excise number issued by the competent authority for the purpose of identification of persons/premises	Boolean	Μ	0 - No SEED number 1 - SEED number exists
F_ExciseNum ber2	Facility's excise number issued by the competent authority for the purpose of identification of persons/premises	SEED	0	
OtherFID_R	Indication if the facility has been allocated an identifier by another ID Issuer	Boolean	Μ	0 - No 1 - Yes (possible only for non-EU facilities)
OtherFID_N	Facility identifier codes allocated by other ID Issuers	Text(5000)	M, if OtherFID R = 1	List of FID
Reg_3RD	Indication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco trade	Boolean	M	0 - No 1 - Yes (possible only if F_Type = 3)
Reg_EOID	Identifier of the economic operator that acts on behalf of a retail outlet operator not otherwise involved in the tobacco trade	EOID	M, if Reg_3RD = 1	

### 2.5.3 ManufacturingMachine

Field	Description	Data Type	Mandatory	Comments
M_ID (PK)	Machine identifier received from the RMA request made to the code issuer.	MID	М	
F_ID (FK)	Facility identifier code	FID	М	
CreatedOn	Timestamp when the registration has been accomplished	Time(L)	Μ	
LastUpdatedOn	Timestamp of the last change on the register	Time(L)		

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Status	Status of the registration	Integer	Μ	RegisterStatus Type
M_Producer	Machine producer	Text(20)	М	
M_Model	Machine model	Text(20)	М	
M_Number	Machine serial number	Text(20)	М	
M_Capacity	Maximum capacity over 24hour production cycle expressed in unit packets	Integer	Μ	

# 2.6 Master Data Types

#### 2.6.1 Country Codes

Code	Value		
AD	Andorra		
AE	United Arab Emirates		
AF	Afghanistan		
AG	Antigua and Barbuda		
AI	Anguilla		
AL	Albania		
AM	Armenia		
AO	Angola		
AQ	Antarctica		
AR	Argentina		
AS	American Samoa		
AT	Austria		
AU	Australia		
AW	Aruba		
AX	Åland Islands		
AZ	Azerbaijan		
BA	Bosnia and Herzegovina		
BB	Barbados		
BD	Bangladesh		
BE	Belgium		
BF	Burkina Faso		
BG	Bulgaria		
BH	Bahrain		
BI	Burundi		
BJ	Benin		
BL	Saint Barthélemy		
BM	Bermuda		
BN	Brunei Darussalam		
BO	Bolivia (Plurinational State of)		
BQ	Bonaire, Sint Eustatius and Saba		
BR	Brazil		
BS	Bahamas		
BT	Bhutan		
BV	Bouvet Island		
BW	Botswana		
BY	Belarus		
BZ	Belize		

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CD Congo,	voire	
CD Congo, CF Central CG Congo CH Switzerl CI Côte d'I CK Cook Isl CL Chile CM Camero CN China CO Colombi CR Costa R CU Cuba	Democratic Republic of the African Republic and voire	
CF Central CG Congo CH Switzerl CI Côte d'I CK Cook Isl CL Chile CM Camero CN China CO Colombi CR Costa Ri CU Cuba	African Republic and voire	
CG Congo CH Switzerl CI Côte d'I CK Cook Isl CL Chile CM Camero CN China CO Colombi CR Costa Ri CU Cuba	and voire	
CH Switzerl CI Côte d'I CK Cook Isl CL Chile CM Camero CN China CO Colombi CR Costa R CU Cuba	voire	
CI Côte d'I CK Cook Isl CL Chile CM Camero CN China CO Colombi CR Costa R CU Cuba	voire	
CKCook IslCLChileCMCameroCNChinaCOColombiCRCosta RiCUCuba		
CL Chile CM Camero CN China CO Colombi CR Costa Ri CU Cuba	lands	
CM Camero CN China CO Colombi CR Costa R CU Cuba		
CN China CO Colombi CR Costa R CU Cuba		
CO Colombi CR Costa R CU Cuba	on	
CR Costa R CU Cuba		
CU Cuba	а	
	ica	
LUV LUDO VE	erde	
CW Curação		
	as Island	
CY Cyprus		
CZ Czechia		
DE German	V	
DJ Djibouti		
DK Denmar		
DM Dominic		
	an Republic	
DZ Algeria		
EC Ecuador	· · · · · · · · · · · · · · · · · · ·	
EE Estonia		
EG Egypt		
	n Sahara	
ER Eritrea		
ES Spain	Spain	
ET Ethiopia		
FI Finland		
FJ Fiji		
FK Falkland	l Islands (Malvinas)	
FM Microne	sia (Federated States of)	
FO Faroe Is		
FR France		
GA Gabon		
	Kingdom of Great Britain and Northern	
Ireland		
GD Grenada	3	
GE Georgia		
GF French (		
GG Guernse		
GH Ghana	·1	
GI Gibralta	r	
GL Greenla		
	nu	
GN Guinea		
GP Guadelo	•	
	ial Guinea	
GR Greece		
GS South G	eorgia and the South Sandwich Islands	

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GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	
ID	Hungary Indonesia
IE	Ireland
IL	Israel
	Isle of Man
IM	
IN	India British Indian Oscar Tarritany
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JE	Jersey
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea (Democratic People's Republic of)
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
ME	Montenegro
ME	Saint Martin (French part)
MG	Madagascar
MH	Madagascal Marshall Islands
MK	Macedonia, the former Yugoslav Republic of

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N 4 1			
ML	Mali		
MM	Myanmar		
MN	Mongolia		
MO	Масао		
MP	Northern Mariana Islands		
MQ	Martinique		
MR	Mauritania		
MS	Montserrat		
MT	Malta		
MU	Mauritius		
MV	Maldives		
MW	Malawi		
MX	Mexico		
MY	Malaysia		
MZ	Mozambique		
NA	Namibia		
NC	New Caledonia		
NE	Niger		
NF	Norfolk Island		
NG	Nigeria		
NG	Nicaragua		
NL	Netherlands		
NO	Norway		
NP	Nepal		
NR	Nauru		
NU	Niue		
NZ	New Zealand		
OM	Oman		
PA	Panama		
PE	Peru		
PF	French Polynesia		
PG	Papua New Guinea		
PH	Philippines		
PK	Pakistan		
PL	Poland		
PM	Saint Pierre and Miquelon		
PN	Pitcairn		
PR	Puerto Rico		
PS	Palestine, State of		
PT	Portugal		
PW	Palau		
PY	Paraguay		
QA	Qatar		
RE	Réunion		
RO	Romania		
RS	Serbia		
RU	Russian Federation		
RW	Rwanda		
SA	Saudi Arabia		
SB	Solomon Islands		
SC	Solomon Islands Seychelles		
SD	Sudan		
SE			
SG	Sweden		
50	Singapore		

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<u></u>	
SH	Saint Helena, Ascension and Tristan da Cunha
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
SS	South Sudan
ST	Sao Tome and Principe
SV	El Salvador
SX	Sint Maarten (Dutch part)
SY	Syrian Arab Republic
SZ	Eswatini
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Тодо
TH	Thailand
TJ	Tajikistan
ΤK	Tokelau
TL	Timor-Leste
ТМ	Turkmenistan
TN	Tunisia
ТО	Tonga
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan, Province of China
ΤZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying Islands
US	United States of America
UY	Uruguay
UZ	Uzbekistan
VA	Holy See
VC	Saint Vincent and the Grenadines
VE	Venezuela (Bolivarian Republic of)
VG	Virgin Islands (British)
VG VI	Virgin Islands (U.S.)
VN	Viet Nam
VU	Vanuatu
WF	Wallis and Futuna
WS	Samoa
YE	Yemen
XI	Northern Ireland
YT	Mayotte
ZA	South Africa
ZM	Zambia
ZW	Zimbabwe
<u>~ v v</u>	ZIIIDUDWC

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### 2.6.2 DeactivationReasonType

Value	Name	
1	Product destroyed	
2	Product stolen	
3	UI destroyed	
4	UI stolen	
5	UI unused	
6	Other	

#### 2.6.3 EventState

Value	Name	Description
1	Received	Initial state. The Data Acquisition component has just received the event and stores it.
2	Valid	The Data Processing component has verified that the format and contents are correct.
3	Invalid	The Data Processing component has found some issues regarding the format or the contents. Event is promoted to invalid for further analysis by the storage provider.
4	Routed	The Data Processing component has routed (or copied) successfully the event to the other Data Storage.
5	Consolidatio nInProgress	The Data Processing attempts to consolidate the information included in the event, if possible.
6	Consolidated	If the consolidation has been done, it is then promoted to Consolidated.
7	Orphaned	If the consolidation has not been possible because some prior events were missing, it is promoted to Orphaned.
8	Cancelled	Final state if the System receives a recall message regarding this event.

#### 2.6.4 EventType

Value	Name
REO	Registration of an Economic operator
REOD	Registration Data of an Economic operator
CEO	Correction for an economic operator identifier code
DEO	De-registration of economic operator identifier code
RFA	Request for a facility identifier code
RFAD	Data for a facility identifier code
CFA	Correction of information concerning the facility identifier code
DFA	De-registration of facility identifier code
RMA	Request for a machine identifier code
RMAD	Data for a machine identifier code

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СМА	Correction of information concerning the machine identifier code		
DMA	De-registration of machine identifier code		
ICV	Identifier code verification		
ICM	Validation of the IRU Message successful transmission to the Primary repository		
ULO	Flat file and registry File upload		
PLO	Partial Flat file and registry transmission		
ISU	Request for unit level UIs		
IRU	Response for unit level UIs		
ISA	Request for reporting the issuance of serial numbers at aggregated level		
IRA	Response for reporting the issuance of serial numbers at aggregated level		
IDA	Request for deactivation of UIs		
EUA	Application of unit level UIs on unit packets		
EPA	Application of aggregated level UIs on aggregated packaging		
EDP	Dispatch Event		
ERP	Reception event		
ETL	Trans-loading event		
EUD	Message to report an UI disaggregation		
EVR	Report the delivery carried out with a vending van to retail outlet		
EIV	Message to report an invoice		
EPO	Purchase order		
EPR	Payment record		
RCL	Recall messages		
LUP	Download Offline flat file		
СТМ	Connectivity Test Messages		

# 2.6.5 FacilityType

Value	Name
1	Manufacturing site with
	warehouse
2	Standalone warehouse
3	First retail outlet
4	Other

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#### 2.6.6 InvoiceType

Value	Name
1	Original
2	Correction
3	Other

#### 2.6.7 NotificationType

Value	Name	Description	
1	Informative	The notification only includes descriptive information, but not related to any error or abnormal situation.	
2	Warning	The notification includes information about some alert or warning to be considered.	
3	Alarm	The notification includes information about some alarm triggered by the System.	
4	InternalError	The notification includes information about some error that has occurred within the System.	
5	Other	The notification includes information about some other situation, not listed above, that has occurred within the System.	

#### 2.6.8 PaymentType

Value	Name	
1	Bank transfer	
2	Bank card	
3	Cash	
4	Other	

#### 2.6.9 RecallReasonType

Value	Name	
1	Reported event did not materialise	
2	Message contained erroneous information	
3	Other	

#### 2.6.10 RegisterStatus

Value	Name
1	Registered
2	De-registered

#### 2.6.11 TobaccoProductType

Value	Name	
1	Cigarette	

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2	Cigar		
3	Cigarillo		
4	Roll your own tobacco		
5	Pipe tobacco		
6	Waterpipe tobacco		
7	Oral tobacco		
8	Nasal tobacco		
9	Chewing tobacco		
10	Novel tobacco product		
11	Other		

#### 2.6.12 TransportMode

Value	Name	
0	Other	
1	Sea Transport	
2	Rail transport	
3	Road transport	
4	Air transport	
5	Postal consignment	
6	Fixed transport installations	
7	Inland waterway transport	

#### 2.6.13 UniqueIdentifierState

Value	Name	Description	
1	Generated	The ID Issuer reports the issue of some codes and the Secondary repository creates a unique identifier record with the initial state (i.e. Generated).	
2	Activated	The unique identifier, after being verified by the manufacturer, matches one unique identifier stored in the Secondary repository under the status "Generated". Additionally, the information contained in the date element of information matches the valid activation date for that unique identifier.	
3	Deactivated	The manufacturer reports the deactivation of that unique identifier. Other cause of deactivation is when manufacturers tries to activate a unique identifier whose date element of information does not match the valid activation date for that unique identifier.	
4	Expired	The Secondary repository promotes to "Expired" the codes that have been issued, but their activation has not been reported within a certain period of time (i.e. expiration time).	
5	Delivered	The distributor or wholesaler reports that this tobacco product item has been successfully dispatched to the final retailer.	

#### 2.6.14 UniqueIdentifierType

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Value	Name	Description
1	UnitPacket	Unique identifier at unit packet level
2	AggregatedPackaging	Unique identifier at aggregated packaging level

# 3 Messages

#### 3.1 Message types to be exchanged

Described in the Regulation Annex II "Key messages to be sent by the economic operators"

5 categories of messages, related to:

- Identifier codes for economic operators, facilities and machines
- Unique identifiers for unit level UIs and aggregated level UIs
- Recording and transmission of information on product movements
- Transactional events
- Recalls

The following table summarizes the JSON formatted messages.

Message Type	Annex II Reference	Message description
REO	(1.1)	Registration of an Economic operator
REOD		Registration Data of an Economic operator
CEO	(1.2)	Correction for an economic operator identifier code
DEO	(1.3)	De-registration of economic operator identifier code
RFA	(1.4)	Request for a facility identifier code
RFAD		Data for a facility identifier code
CFA	(1.5)	Correction of information concerning the facility identifier code
DFA	(1.6)	De-registration of facility identifier code
RMA	(1.7)	Request for a machine identifier code
RMAD		Data for a machine identifier code
СМА	(1.8)	Correction of information concerning the machine identifier code
DMA	(1.9)	De-registration of machine identifier code
ICV		Identifier code verification
ICM		Validation of the delivery of an IRU message
ULO		Flat file and registry File upload
ULOD		Flat file and registry File upload callback
PLO		Partial Flat file and registry transmission
ISU	(2.1)	Request for unit level UIs
IRU		Response for unit level UIs

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IRUD		Callback for the Message to report the issuance of serial numbers at unit packet level
ISA	(2.2)	Request for reporting the issuance of serial numbers at aggregated level
IRA		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 UI 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
LUP		Download Offline flat file
LUQ		Query Messages
LDI		Lookup Dispatch Interface
СТМ		Connectivity Test Messages

#### 3.1.1 Optional II2MN II2DW interfaces

The ID Issuer defines the communication between the EO and the ID issuer corresponding to interfaces II2MN and II2DW.

The proposed messages presented in this Data Dictionary are sample messages to illustrate the overall flow of data from the EO to the Secondary repository. These messages should be considered as a Guideline with no obligation of implementation.

All messages part of the II2MN and II2DW interfaces are marked as optional in this document.

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#### 3.1.2 Message and endpoints

		Message support					
Primary Rep	Primary Repository End Point						
Primary	The primary endpoint	IRU,IRA,IDA,EUA,EPA,EDP,ERP,ETL,EUD,EVR					
Endpoint		,EIV,EPO,EPR,RCL,CTM					
Router Endp	oints						
Router	The authentication endpoint						
Router	The resource endpoint	IRU,IRA,IDA,EUA,EPA,EDP,ERP,ETL,EUD,EVR ,EIV,EPO,EPR,RCL					
Router	The flat file upload	ULO, PLO					
Router	The verification endpoint	ICV, LDI					
Secondary R	epository Endpoints						
Secondary	The resource endpoint	IRU,IRA,IDA,EUA,EPA,EDP,ERP,ETL,EUD,EVR					
Repository		,EIV,EPO,EPR,RCL					
Secondary	The Offline flat file download	LUP, LUQ					
Repository							

# 3.2 Common schema elements

3.2.1 Basic information block concerning the request

Basic information block concerning the request - schema						
Field Description		Data Type	Cardinali ty	Priority	Values	
Message_Type	The identifier of the type of message	Text(Limited to set of known message_typ es)	S	Μ	See above types of messages list	
Code	The internal code of acknowledgment of the message. Used for recall too.	Text(50)	S	Μ	property is nullable	
RejectionData	The failure data recorded in the primary should the validation fail.	FailureData (See below table)	S	0	This should only be filled if the primary validation fails.	
Reception_Time	System reception Time added by the Router or the Primary Repository	Time(ms)	S	M for Router and Primary providers (Does not apply to EO)		

Note 1: The reception Time is added by the entry point traceability system (Router or primary repository). The reception Time provided by the router to the primary repositories should be maintained and the primary repositories should accept the field and forward it to the secondary repository.

Note 2: The Code should be set to null for the initial request.

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RejectionData - schema						
Field	Description	Data Type	Cardinality	Priority	Values	
ResponseText	The response of the primary	Text(5000)	S	М		
Errors	List of the errors. Array containing Error_Code, Error_Descr, Error_InternalId, Error_Data (string)	Array of objects	S	Μ		

If the secondary repository receives a message with this "RejectionData" non null, it will not process the message and will instead record / audit the failure. This for later analysis, used to find possible illicit trade.

#### 3.2.2 Basic information block concerning the response

Basic information block concerning the response - schema					
Field	Description	Data Type	Cardinalit Y	Priority	Values
Message_Ty pe	The identifier of the type of message that the response refers to	Text	S	М	See above types of messages list
Error	Indicates the failure of the message reception	Boolean	S	М	0 – No 1- Yes
Errors	Array containing Error_Code, Error_Data (string), Error_Descr, Error_InternalID	Array of objects	S	M if Error = 1	System error catalogue at Error! Reference source not found.
Code	Unique identifier of the message. Used for recall too.	Text(50)	S	М	
Checksum	The calculated checksum of the data received	Text(5000)	S	М	

### 3.2.3 Basic Error block description

Data Type	Description	Туре	Example or regular expression
Error_Code	Error code describing the error.	Text(30)	
Error_Data	Text field containing error related data such as values of attributes, list of UIs For all lists, use the # character as separator.	Text(5000 )	
Error_Descr	Description of the error code, that must contain the related	Text(5000 )	

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	controls, related RecallCode and fields when applicable.		
Error_Inter nalID	<b>Optional</b> internal ID of the error. This internal ID can be used for maintenance or audit purpose.	Text(50)	



# 3.2.4 Response Information block

Basic information block concerning the response - schema						
Field	Description	Data Type	Cardinalit Y	Priority	Values	
Information_ Type	The identifier of the type of information	Text(5000)	S	М		
Data	Indicates the failure of the message reception	Text(5000)	S	М	0 – No 1- Yes	
Data_List	Array of strings	Text(string limit = 5000)	М	0		



# 3.2.4.1 Information\_Type

Information_Type	Description
TotalupUI	Total number of upUI present in the event.
	This oprtional field is supported on the following requests

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Information_Type	Description
	<ul> <li>EPA - (3.2) Application of aggregated level UIs on aggregated packaging</li> <li>EDP - (3.3) Dispatch of tobacco products from a facility</li> <li>ERP - (3.4) Arrival of tobacco products at a facility</li> <li>ETL - (3.5) Trans-loading event</li> <li>EVR - (3.7) Report the delivery carried out with a vending van to retail outlet</li> <li>Please note, however, that there is a certain limitation of the feature which is that if any of the underlying tobacco packs in the hierarchy represented by the aUIs sent in the message to check was produced before 1<sup>st</sup> of July 2020, the checksum returns "-1".</li> </ul>
ChildUIList	List of children This oprtional field is supported on the following requests • EUD – (3.6)

### 3.2.5 Empty array and null values

3.2.5.1 Empty array

An array structure is represented as square brackets surrounding zero or more values (or elements).

```
{
"Errors": [],
....
}
```

3.2.5.2 Null value

A JSON null value MUST be a literal named null.



### 3.2.6 Decimal points

According to the JSON Standard RFC7159 a JSON decimal separator value MUST be a period ".".

# 3.2.7 Common Error codes

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HTTP status	Error Code	Error Description
401	SECURITY_INVALID_OR_EXPIRED_TOKEN	Invalid or Expired security token
		Please note that in this case the code or internal ID is not returned, as the message has not reached the processing service yet.
400	INVALID_SIGNATURE	Invalid signature
400	REQUIRED_FIELD_FAILED_VALIDATION MAX_LENGTH_FAILED_VALIDATION MIN_LENGTH_FAILED_VALIDATION ENTRY_LENGTH_FAILED_VALIDATION	When one or multiple fields do not contain valid format
400	PAYLOAD_NOT_UNIQUE	When the message has already been processed successfully.
400	INVALID_REQUEST_FORMAT	This error is returned when at least one of the mandatory fields are missing.
400	INVALID_MESSAGE_TYPE	When the field "Message_Type" is out of the defined list.
400	INVALID_INPUT_FORMAT	When the body of the message doesn't contain a valid JSON.
500	SYSTEM_ERROR	Internal system error.

# 3.3 Message Validation

### 3.3.1 Overview

Validation is the process to accept or reject an incoming message.

Upon the reception of reported events on UI, a certain number of calculated information called metadata are computed and managed internally on the Secondary repository and Router. The UI metadata consists of

- The **UI state information** (indicating if the UI is in stock in a location, in transit and other)
- The **UI Location FID** (current location or last known location)
- The **UI Aggregation context** (if the UI is part of an aggregation)
- The **UI Event history**

This metadata is internally used by the Secondary repository and the Router to perform the validation in real time and allows the system to meet the response time regulatory SLA.

Once the event is validated and accepted by the router or the secondary repository, the metadata for UIs are updated.

# 3.3.1.1 Principle: Duplication of validation

The complete traceability system should be considered as one system and the validation is performed at the first component of the system.

- Messages processed by the Router and transmitted to the Primary repository, should not be validated at the Primary repository level.
- Messages processed by the Primary repository and forwarded to the Secondary repository, is validated in order to ensure internal data integrity between systems.

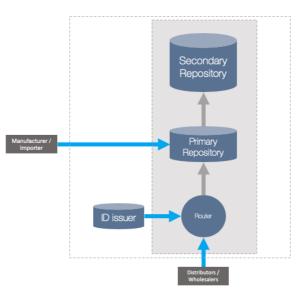


Figure 1 Validation Overview

### *3.3.1.2 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.

EU Secondary Data Dictionary, Version 1.4.5 42 / 257 The information contained in these documents is **confidential**, privileged and only for the information of the intended recipient and may not be used, published or redistributed without the prior written consent of Dentsu Aegis Network. 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.

### 3.3.1.3 Technical and business validation

The validation process is composed by a technical aspect and business validation. The technical validation ensures that the message follows the general format and message structure including field availability and predefined values. This validation is performed on all components. The business validation is performed after the technical validation and focuses on the state of business data.

### 3.3.1.4 Message transmission overview

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

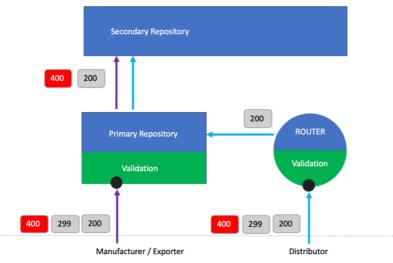


Figure 2 EU secondary validation system diagram

Note that the technical validation is not represented in the following diagram. Only the business validation. It is clear that messages that fail the technical validation (wrong format, not authorized) will be rejected by all systems with an http status 400.

3.3.1.4.1 Secondary to Primary Feedback The Secondary repository performs the full validation (technical and business validation) all messages from the different primary repositories as described in the list of Specification. The information provided by the primary repository is used to update the internal state of the different UI. The states are then used during the validation enforcement on the router.

The Secondary repository is running all the validation in order to confirm the coherence of the state changes.

In case the secondary validation process returns a negative response, the secondary repository will reject the message (http status 400) The Meta data associated with the UI is not updated if the message is rejected (error 400).

If a message is rejected by the secondary repository, the primary repository can retransmit the same message (same payload and same RecallCode) as an attempt to get it accepted.

#### 3.3.1.4.2 Router to Primary

The router performs the validation of the messages received. Depending on the type of messages, the message is then forwarded to the Primary repository. The primary repository will accept the messages and always (messages that are passing or failing the business validations) return a http 200 or 202 to the router.

#### 3.3.1.4.3

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).

#### 3.3.2 Timestamps

Control	Event Time	Message Time Long	Reception Time	Record Time
Source	Provided by EO system	Provided by EO system	Provided by Primary repository or Router	Established by the Secondary repository
Precision	hour	second	milliseconds	milliseconds
		Used for sequence	Used for	Used for audit
		validation	sequence	purposes

EU Secondary Data Dictionary, Version 1.4.5

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		validation as a replacement of the Message Time Long	
Note	Note: the Message time can be the Event Time on the second precision	Note: the Message time can be the Event Time on the second precision	

### 3.3.2.1 Event Time & Message Time Long Technical Validation

To prevent Economic Operator to report inaccurate Event Time and Message Time Long information.

The following technical validation

- prevents dates to be reported prior to May 2019
- prevents dates in the future for more than 72h

Note the Event Time and Message Time Long are GMT timestamps.

Control	Description	Scope
VAL_TIME_2019	Prevent Event Time and message time long to be reported before May 2019	All messages
VAL_TIME_72	Prevent Event Time and Message Time long to be reported more than 72h in the future ( compared with current time)	All messages

#### 3.3.3 Type of validation

#### 3.3.3.1 Security validation

The security validation is the first part of the technical validation ensuring that connecting systems are authenticated and authorized to transmit data to the traceability system.

Control	Description	Scope
VAL_SEC_HASH	Integrity check of the checksum	All messages
VAL_SEC_TOKEN	Oauth Security Token validation	All messages

### 3.3.3.2 Message Structure validation

The technical validation ensures that the messages are following the technical guidelines and allows the system to successfully access the message data accurately.

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Control	Description	Scope
VAL_MSG_JSON	JSON structure validation	All JSON
		messages
VAL_MSG_XML	XML structure validation	All EPCS EDI
		messages
VAL_MSG_TYPE	Message type validation	All messages
VAL_FIE_MAN	Mandatory Field validation (per	All messages
	message type)	
VAL_FIE_FORMAT	Field format validation	All messages
VAL_FIE_REF	Existence of correctly reference	All messages
	enumerations. (As defined in data	
	dictionary)	

### 3.3.3.3 Message Transmission validation

The transmission controls are established in order to prevent technical duplication and processing of messages.

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
VAL_MSG_CODE_DUPLICATE	Message identified by a Recallcode that has already been processed successfully should be rejected.	All messages

### 3.3.3.4 Unique Identifiers validation

The following validations are performed on each UI that is present in a message.

### 3.3.3.4.1 Message level validation

The UI present in a message should be present only once. If the UI is present multiple times, the message will be rejected as non-compliant.

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

### 3.3.3.4.2 Application Validation Validation that he upUI(s) is only applied once to a upUI(L)

Control	Description	Scope	
EU Secondary Data Dictionary, Version 1.4.5			46 / 257

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VAL_UI_EXIST_APP	upUIs has been received as part of an IRU message. This validation fails if the upUIs is not found and has not been reported.	EUA - IDA
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

#### 3.3.3.4.3 Existence

The following control ensures that the UI (upUI and aUI) comply with the regulation and could participate in product movement or transaction event reporting.

Control	Description	Scope
VAL_UI_EXIST_UPUI	UI existence upUI exists and has been successfully applied	EPA (Children) – EDP – ERP- ETL- EVR – EIV – EPO - EPR
VAL_UI_EXIST_AUI	aUI existence aUI has been aggregated (part of an EPA)	IDA -EPA (Children) - EDP - ERP- ETL- EVR - EIV - EPO - EPR
VAL_UI_EXIST_UPUI_SEQ	<ul> <li>UI validity</li> <li>upUI exists and has been successfully applied</li> <li>upUI has not been part of any deactivation message.</li> </ul>	EPA (Children) – EDP – ERP- ETL- EVR
VAL_UI_EXIST_AUI_SEQ	<ul> <li>aUI validity</li> <li>aUI has been aggregated (part of an EPA)</li> <li>and has not been disaggregated (including implicit disaggregation)</li> <li>nor deactivated.</li> </ul>	IDA -EPA (Children) - EDP - ERP- ETL- EVR

#### 3.3.3.4.4

#### upUI Expiration

As per the regulation, the upUI(s) that are issued by the ID Issuer and reported in the IRU messages have a limited application period.

Control	Description	Scope
VAL_UI_EXPIRY	Validation that the application or	EUA, EPA
	the aggregation date doesn't	

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exceed the 6 months period after the code has been issued.	

#### 3.3.3.5 UI level Message sequence validation

#### 3.3.3.5.1 Sequence Validation overview

The following tables describes the summary overview of allowed events related to a certain UI based on the last event received for that specific UI.

Note that the transactional events (4.x) are not described in the rows as there is no sequence validation implemented on these events

Legend:

- Yes (Green): the message could be accepted for that specific UI
- Yes (blue): The message is accepted, and a location validation control is applied.
- No: the message should be rejected

Control	Description	Scope
VAL_UI_ORD_SEQUENCE	The general sequence validation.	IRU – IRA- IDA-
		EUA- EPA- EDP-
		ERP- ETL- EUD-
		EVR

	PREVIOU	S MESSA	GE on the	UI prese	nt in the	received	messag	e
	IRU 2.1	IRA 2.2	IDA 2.3	EUA 3.1	EUA 3.1 Import	EPA 3.2 parent UI	EPA 3.2 parent UI Import	EPA 3.2 Child
Message Received								
IRU 2.1	No	No	No	No	No	No	No	No
IRA 2.2	No	No	No	No	No	No	No	No
IDA 2.3	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
EUA 3.1	Yes	No	No	No	No	No	No	No
EUA 3.1 Import	Yes	No	No	No	No	No	No	No
EPA 3.2 parent UI	No	Yes	No	No	No	No	No	No
EPA 3.2 child UI (upUI)	No	No	No	Yes	Yes	No	No	Yes
EPA 3.2 child UI (aUI)	No	No	No	No	No	Yes	Yes	Yes
EDP 3.3 Export (type 1)	No	No	No	Yes	No	Yes	No	Yes
EDP 3.3 (type 2)	No	No	No	Yes	No	Yes	No	Yes
EDP 3.3 VM (type 3)	No	No	No	Yes	No	Yes	No	Yes
EDP 3.3 VV (type 4)	No	No	No	Yes	No	Yes	No	Yes
ERP 3.4	No	No	No	No	Yes	No	Yes	No
ERP 3.4 (Return)	No	No	No	No	No	No	No	No
ETL 3.5	No	No	No	No	No	No	No	No
ETL 3.5 (Export)	No	No	No	No	No	No	No	No
EUD 3.6	No	No	No	No	No	Yes	Yes	Yes
EVR 3.7	No	No	No	No	No	No	No	No
EIV 4.1	No	No	Yes	Yes	Yes	Yes	Yes	Yes
EPO 4.2	No	No	Yes	Yes	Yes	Yes	Yes	Yes
EPR 4.3	No	No	Yes	Yes	Yes	Yes	Yes	Yes

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	PREV	IOUS ME	SSAGE	on th	e UI pr	esent i	n the re	eceived	messag	е	
Maccorco Dossiwod	EDP 3.3 (type 1) Expo rt	EDP 3.3 (type 2)	EDP 3.3 (type s 3) VM	ED P 3.3 (ty pe 4) VV	ERP 3.4	ERP 3.4 (Ret urn)	ETL 3.5	ETL 3.5 Expo rt	EUD 3.6	EUD 3.6 (aUI implicitl y disaggre gated) - reuse of aUI	EVR 3.7
Message Received											
IRU 2.1	No	No	No	No	No	No	No	No	No	No	No
IRA 2.2	No	No	No	No	No	No	No	No	No	No	No
IDA 2.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EUA 3.1	No	No	No	No	No	No	No	No	No	No	No
EUA 3.1 Import	No	No	No	No	No	No	No	No	No	No	No
EPA 3.2 parent UI	No	No	No	No	No	No	No	No	Yes	No	No
EPA 3.2 child UI (upUI)	No	No	No	No	Yes	Yes	No	No	No	No	No
EPA 3.2 child UI (aUI)	No	No	No	No	Yes	Yes	No	No	No	No	No
EDP 3.3 Export (type 1)	No	No	No	No	Yes	Yes	No	No	No	No	No
EDP 3.3 (type 2)	No	No	No	No	Yes	Yes	No	No	No	No	No
EDP 3.3 VM (type 3)	No	No	No	No	Yes	Yes	No	No	No	No	No
EDP 3.3 VV (type 4)	No	No	No	No	Yes	Yes	No	No	No	No	No
ERP 3.4	No	Yes	No	No	No	No	Yes	No	No	No	No
ERP 3.4 (Return)	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No	Yes
ETL 3.5	No	Yes	No	No	No	No	Yes	No	No	No	No
ETL 3.5 (Export)	Yes	No	No	No	No	No	No	Yes	No	No	No
EUD 3.6	No	No	No	No	Yes	Yes	No	No	No	Yes	No
EVR 3.7	No	No	No	Yes	No	No	No	No	No	No	No
EIV 4.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EPO 4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EPR 4.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

The type of the Dispatch event 3.3 EDP refers to the Destination\_ID1 field.

- Type 1 Non EU dest.
- Type 2 EU destination other than VM fixed quantity delivery
- Type 3 EU VM(s)
- Type 4 EU destination other than VM delivery with VV

### The type return of the ERP (3.4) is based on the Product\_Return field

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- 0 No
- 1– The arrival is a type return

The field Destination\_ID1 in the ETL (3.5) event indicates if the ETL is aimed at export or EU location.

- 0 No
- 1 Yes

### 3.3.3.5.2

# Application and deactivation sequence validation

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 - IDA

#### 3.3.3.5.3

# Aggregation and Disaggregation Principles

**Principle 1**: All aggregation events are full aggregation. Once the aUI is aggregated, a subsequent aggregation event on the same parent aUI should be rejected.

**Principle 2**: All disaggregation events are full disaggregation. Once the aUI is disaggregated, no movement should be reported on that aUI (until the next disaggregation and aggregation event are reported.).

**Principle 3**: Implicit disaggregation. Disaggregation event reporting is mandatory only when the aUI is reused in a subsequent aggregation event (as a parent aUI). The implicit disaggregation is detected when at least one child UI is reported in an aggregation or product movement. The parent aUI of this child UI will be considered as disaggregated. In the case that the child UI is part of an aggregation hierarchy, all parent aUIs will be disaggregated.

As a consequence, once the implicit disaggregation is detected, no movement should be reported on that parent aUI (until the next aggregation event is reported).

**Principle 4**: All disaggregation must be performed at a location. No Disaggregation are allowed during the transport.

Note that implicit disaggregation might be triggered while in transit by a deactivation event IDA (2.3), a delivery carried out by vending van EVR (3.7) or an arrival ERP (3.4) of type Return.

## 3.3.3.5.4 Implicit disaggregation

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

### 3.3.3.5.4.1 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.

Example of implicit disaggregation triggered by EDP (3.3)

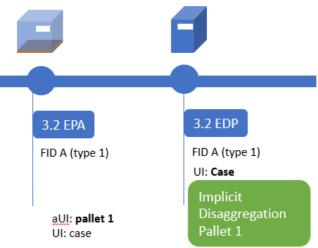


Figure 3 Implicit disaggregation trggered by EDP (3.3)

# Example of implicit disaggregation triggered by EVR (3.7)

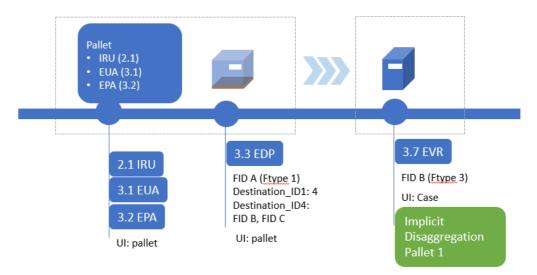


Figure 4 Implicit disaggregation triggered by EVR (3.7)

### 3.3.3.5.4.2 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.

#### 3.3.3.5.4.3 Recall

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

#### 3.3.3.5.4.4 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).

#### 3.3.3.5.5

# Aggregation and Disaggregation Validation

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	EPA

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	an aUI without prior disaggregation.	
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 part of an EUD message and then aggregated.	EDP – ERP – ETL – EVR- EPA (Children)

### 3.3.3.5.6 Location based Validation

### 3.3.3.5.6.1 UI Location update

The sequence validation also considers the implementation of locationbased controls.

FID of the UI is updated upon processing of the following events.

- ERP (3.4)
- EUA (3.1) update of the location of the UI. The location of the UI should match the location defined in the IRU message.
- EPA (3.2) update of the newly created parent id
- EVR (3.7) In case of implicit disaggregation, only the UIs present in the event will have the location metadata updated.
- RCL (5.0) rolls back to the previous state

### 3.3.3.5.6.2 Location based controls

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

#### 3.3.3.5.7

Dispatch and arrival Validation

**Principle 5:** The reporting on the Arrival should be done on the same UI that have been reported during the Dispatch/Transloading process. This is a consequence of principle 4. This means that an Arrival Event that contains child UI of UI reported during the Dispatch/Transloading Event will be rejected. The same UI must be reported.

EU Secondary Data Dictionary, Version 1.4.5 54 / 257 The information contained in these documents is **confidential**, privileged and only for the information of the intended recipient and may not be used, published or redistributed without the prior written consent of Dentsu Aegis Network. <u>Exception VAL UI ORD ARRIVAL RETURN</u>: arrival of type return only affects the principle 5 but still enforce the event sequence validation.

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). This validation concerns the sequence of events. <u>Exception:</u> Imported products	ERP (Product_Return = 0)
VAL_UI_ORD_ARRIVAL_RETURN	Validation that a UI is part of a prior reported dispatch or transloading event (EDP 3.3, ETL 3.5, EVR 3.7) for the specified destination. This validation concerns the sequence of events. In this validation principle 5 doesn't apply.	ERP (Product_Return = 1)

# 3.3.3.5.7.1 imported goods Exception

The IRU (response to message 2.1 defined in Annex II) contains the import flag information. This flag will be used to assess if the exception should be implemented.

- a) Unit packs that contain the import flag information and that have been applied and eventually aggregated with EUA (message 3.1) and EPA (message 3.2) in a facility whose country is **outside** the EU must be reported in an arrival message with a facility whose country is inside the EU (the physical importation of the goods) before being part of any aggregation or logistic movement inside the EU.
- b) Unit packs that contain the import flag information and that have been applied and eventually aggregated with EUA (message 3.1) and EPA (message 3.2) in a facility whose country is **inside** the EU, must not report an arrival message. In this case, it is understood that the physical importation should have taken place between the IRU (message 2.1) and the application/activation of the UI EUA (message 3.1) and EPA (message 3.2).

### 3.3.3.5.7.2 Arrival of type return

The reporting of the arrival of type return can be performed on child UI. This operation is allowed and will trigger an implicit disaggregation.

#### 3.3.3.5.7.3 Arrival and Return

Flows from the retail outlets, even in the context of message 3.7, are considered to constitute "product returns".

The flows constitute "product returns" even if the product is returned to the same facility as it was originally dispatched from or to another one.

# 3.3.3.5.7.4 Dispatch validation

Control	Description	Scope
VAL_UI_ORD_DISPATCH	Validation that a UI last location (FID) matches the source location (FID) of the dispatch event. The UI must have been: - Applied or aggregated on that specific location (FID) - Arrived on that location.	EDP

# 3.3.3.6 Message Event Time Validation

The following messages validation compares the event time (Event Time) to the actual reception time of the event by the first point of entry.

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. NOTE: this validation will be reduced to 3 hours after 20 May 2028 <b>This validation should not be</b>	EUA – EPA – EVR – EIV – EPO – EPR
	blocking but rather generating a warning to the sender system	
VAL_EVT_TIME	"Within 24 hours prior to the occurrence of the event" rule for dispatch and trans-loading event messages is a rule and the system shall reject non-compliant messages. Control is based on the "actual date – Event Time" time difference.	EDP – ETL

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	This validation should not be blocking but rather generating a warning to the sender system	
--	---	--

#### 3.3.3.7 Identification Code validation

Identification codes are used in a number of messages. The validation of the existence and fact that the identification code is active is part of the business validation as described in the table below.

Control	Description	Scope
VAL_ENT_EXIST_EOID	Check if the EOID exists in the EU wide registry	ISU – ISA – IRU – IRA – IDA – EUA – EPA – EDP – ERP – ETL – EUD- EVR
VAL_ENT_EXIST_FID	Check if FID, exists in the EU wide registry	ISU – IRU – ISA – IRA – IRU – EUA – EPA - EDP – ERP – ETP – EUD - EVR
VAL_ENT_EXIST_MID	Check if MID, exists in the EU wide registry	ISU - IRU
VAL_ENT_ACTIVE_EOID	Check if EOID is marked as active in the repository	IRU – IRA – IDA – EUA – EPA – EDP – ERP – ETL – EUD- EVR
VAL_ENT_ACTIVE_FID	Check if FID is marked as active in the repository	ISU – ISA – IRU – IRA – EUA – EPA
VAL_ENT_ACTIVE_MID	Check if MID is marked as active in the repository	ISU – IRU
VAL_ENT_REL_EOID_FID	Check if EOID FID relation is defined in the EU wide registry	IRU - IRA
VAL_ENT_REL_ FID_MID	Check if FID MID relation is defined in the EU wide registry	IRU - IRA

### 3.3.3.8 Recall Validation

# 3.3.3.8.1 General recall rules

The sequence validation on the product movement introduces 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.

#### 3.3.3.8.2

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.

#### 3.3.3.8.3 Recall Validation 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

# 3.3.4 Validation Scope

•				_		_			_	_		_		
	IRU (2.1)	(2.2)	.3)	(3.1)	(3.2)	(3.3)	(3.4)	.5)	(3.6)	(3.7)	1)	EPO (4.2)	(4.3)	(5)
	5		۸ (2.	0	E) A	0	() ()	. (3.	0		EIV (4.1)	7) (7	۲ (4	RCL (
	IRL	IRA	IDA	EUA	EPA	EDP	ERP	ETL	EUD	EVR	EI	EPC	EPR	RC
Technical validation														
VAL_SEC_HASH	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
VAL_SEC_TOKEN	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAL_MSG_JSON	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAL_MSG_XML					~					~				~
VAL MSG TYPE	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
VAL_FIE_MAN	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAL_FIE_FORMAT	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAL_FIE_REF	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAL_MSG_DUPLICATE	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAL_MSG_CODE_DUPLICATE	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAL_UI_MULT_MSG	X	X	X	X	X	X	X	X	X	X	X	X	X	~
VAL_OI_NOLI_NOU	^	^	^	^	~	^	^	^	^	^	X	^	^	
VAL_COID_SELECT											^		Х	
Business rule validation														
UI creation														
VAL_UI_EXIST_APP			Х	Х										
VAL_OI_LAISI_AIT			^	X										
VAL_UI_EXIST_UPUI				^	Х	Х	Х	Х		Х	Х	Х	Х	
VAL_UI_EXIST_AUI					X	X	X	X	Х	X	X	X	X	
VAL_UI_EXIST_UPUI_SEQ			Х		X	X	X	X	~	X	~	~	~	
VAL_UI_EXIST_AUI_SEQ			X		X	X	X	X	Х	X				
VAL_UI_EXPIRY				Х	X			~		~				
Entity Validation				~	~									
VAL_ENT_EXIST_EOID	X	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	X
VAL_ENT_EXIST_FID	X	X		X	X	X	X	X	X	X				
VAL_ENT_EXIST_MID	X			~	~	~	~	~	~	~				
VAL ENT ACTIVE EOID	X	Х	Х	Х	Х	Х	Х	Х	Х	Х				
VAL_ENT_ACTIVE_FID	X	X	R	X	R	R	R	R	R	R				
VAL_ENT_ACTIVE_MID	X			~		1								
VAL_ENT_REL_EOID_FID	X	Х												
VAL_ENT_REL_ FID_MID	X	X												
Sequence Validation														
VAL_UI_FID_APP				Х										
VAL_UI_ORD_REACTIVATION				X										
VAL_UI_ORD_DEACTIVATED			Х		Х	Х	Х	Х	Х	Х				
VAL UI ORD AGG MULT					X					~				
VAL UI ORD DISAGG					~	Х	Х	Х		Х				
VAL_UI_ORD_IMPLDISAGG					Х	X	X	X		X				
VAL_UI_ORD_AGG_FID					X			~	Х	~				
VAL_UI_ORD_ARRIVAL					~		Х							
VAL_UI_ORD_ARRIVAL_RETURN							X							
VAL_UI_ORD_DISPATCH						Х								
VAL_0I_0RD_SEQUENCE			Х	Х	Х	X	Х	Х	Х	Х				
Message Timing			~	^	~	~	^	~	~	^				
VAL_EVT_24H				Х	Х					Х	Х	Х	Х	
VAL_EVT_TIME						Х		Х						
VAL_TIME_2019	Х	X	Х	Х	Х	X	Х	X	Х	Х	Х	Х	Х	

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VAL_TIME_72	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	
Recall														
VAL_RECALL_EXIST														Х
VAL_RECALL_LAST														Х

X – validation on Primary, Secondary and Router

R – Validation on Router

### 3.3.5 Validation Responsibility

	Primary Repository Error http status for EO	<b>Router</b> Error http status for EO	Secondary Repository Error http status for Primary
Technical validation			
VAL SEC HASH	400	400	400
VAL_SEC_TOKEN	401	401	401
VAL_MSG_JSON	400	400	400
VAL MSG XML	400	400	400
VAL MSG TYPE	400	400	400
VAL FIE MAN	400	400	400
VAL FIE FORMAT	400	400	400
VAL FIE REF	400	400	400
VAL MSG DUPLICATE	400	400	400
VAL MSG CODE DUPLICATE	400		400
VAL_EOID_SELLER	400	400	400
VAL_EOID_PAYMENT_RECIPIENT	400	400	400
Business rule validation			
VAL UI MULT MSG	400	400	400
VAL UI EXIST APP	400		400
VAL_UI_DUPLICATE_APP	400		400
VAL UI FID APP	400		400
VAL_UI_EXIST_UPUI	400	400	400
VAL_UI_EXIST_AUI	400	400	400
VAL_UI_EXIST_UPUI_SEQ	400	400	400
VAL_UI_EXIST_AUI_SEQ	400	400	400
VAL UI EXPIRY	400		400
VAL UI ORD REACTIVATION	400	400	400
VAL UI ORD DEACTIVATED	400	400	400
VAL UI ORD AGG MULT	400	400	400
VAL_UI_ORD_DISAGG	400	400	400
VAL UI ORD IMPLDISAGG	400	400	400
VAL_UI_ORD_AGG_FID	400	400	400
VAL_UI_ORD_ARRIVAL	400	400	400
VAL_UI_ORD_ARRIVAL_RETURN	400	400	400
VAL_UI_ORD_DISPATCH	400	400	400
VAL_UI_ORD_SEQUENCE	400	400	400
VAL_EVT_24H	299	299	
VAL EVT TIME	299	299	
VAL_TIME_2019	400	400	400
VAL TIME 72	400	400	400
VAL_ENT_EXIST_EOID	400	400	400
VAL_ENT_EXIST_FID	400	400	400
VAL_ENT_EXIST_MID	400	400	400
VAL_ENT_ACTIVE_EOID	400	400	400

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VAL_ENT_ACTIVE_FID	400	400	400
VAL_ENT_ACTIVE_MID	400	400	400
VAL_ENT_REL_EOID_FID		400	400
VAL_ENT_REL_ FID_MID		400	400
VAL_RECALL_EXIST	400	400	400
VAL_RECALL_LAST	400	400	400

# 3.3.6 Validation and Error Code

	Error Code	http Status
Technical validation		
VAL_SEC_HASH	INVALID_SIGNATURE	400
VAL_SEC_TOKEN	INVALID_OR_EXPIRED_TOKEN	401
VAL_MSG_JSON	INVALID_INPUT_FORMAT	400
	REQUIRED_FIELD_FAILED_VALIDATION	
	MAX_LENGTH_FAILED_VALIDATION	
	MIN_LENGTH_FAILED_VALIDATION	
	ENTRY_LENGTH_FAILED_VALIDATION	
	EXCISE_NUMBER_NOT_VALID	
	NON_COMPATIBLE_UIS	
	NOT_THE_SAME_NUMBER_OF_ITEMS	
VAL_MSG_XML	FAILED_VALIDATION	400
VAL_MSG_TYPE	FAILED_VALIDATION	400
VAL_FIE_MAN	FAILED_VALIDATION	400
VAL_FIE_FORMAT	INVALID_INPUT_FORMAT	400
VAL_FIE_REF	FAILED_VALIDATION	400
VAL_MSG_DUPLICATE	PAYLOAD_NOT_UNIQUE	400
VAL_MSG_CODE_DUPLICATE	FAILED_VALIDATION	400
VAL_UI_MULT_MSG	MULTIPLE_UID	400
	UI_NOT_VALID	
	UIS_NOT_VALID	
VAL_EOID_SELLER	FAILED_VALIDATION	400
VAL_EOID_PAYMENT_RECIPIENT	FAILED_VALIDATION	400
Business rule validation		
UI creation		
VAL_UI_EXIST_APP	UIS_APPLICATION_ERROR	400
VAL_UI_DUPLICATE_APP	UIS_APPLICATION_ERROR	400
VAL_UI_EXIST_UPUI	UI_NOT_EXIST	400
	UI_NOT_VALID	400
VAL_UI_EXIST_AUI	UI_NOT_EXIST	400
VAL_UI_EXIST_UPUI_SEQ		400
VAL_UI_EXIST_AUI_SEQ		400
VAL_UI_EXPIRY	UI_EXPIRED	400
Entity Validation		400
VAL_ENT_EXIST_EOID	EOID_NOT_EXIST_OR_ACTIVE	400
VAL_ENT_EXIST_FID	FID_NOT_EXIST_OR_ACTIVE	400
VAL_ENT_EXIST_MID	MID_NOT_EXIST_OR_ACTIVE	400
VAL_ENT_ACTIVE_EOID	EOID_NOT_EXIST_OR_ACTIVE	400
VAL_ENT_ACTIVE_FID	FID_NOT_EXIST_OR_ACTIVE	400
VAL_ENT_ACTIVE_MID	MID_NOT_EXIST_OR_ACTIVE	400
VAL_ENT_REL_EOID_FID	FID_NOT_RELATED_TO_EOID	400

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VAL_ENT_REL_ FID_MID	MID_NOT_RELATED_TO_FID	400
Sequence Validation		
VAL_UI_FID_APP	FID_MISMATCH	400
VAL_UI_ORD_REACTIVATION	UI_DEACTIVATED	400
VAL_UI_ORD_DEACTIVATED	UI_DEACTIVATED	400
VAL_UI_ORD_AGG_MULT	MULTIPLE_AGGREGATION	400
VAL_UI_ORD_DISAGG	UI_ALREADY_DISAGGREGATED	400
VAL_UI_ORD_IMPLDISAGG	UI_ALREADY_DISAGGREGATED	400
VAL_UI_ORD_AGG_FID	LOCATION_MISMATCH	400
VAL_UI_ORD_ARRIVAL	ARRIVAL_NOTALLOWED	400
VAL_UI_ORD_ARRIVAL_RETURN	ARRIVAL_NOTALLOWED	400
VAL_UI_ORD_DISPATCH	LOCATION_MISMATCH	400
VAL_UI_ORD_SEQUENCE	UI_SEQUENCE_ERROR	400
Message Timing		
VAL_EVT_24H	OPERATION_WITHIN_24_HOURS	299
VAL_EVT_TIME	SHIPMENT_WITHIN_24_HOURS	299
VAL_TIME_2019	OPERATION_PRIOR_MAY_2019	400
VAL_TIME_72	OPERATION_AFTER_72H	400
Recall		
VAL_RECALL_EXIST	CODE_NOT_EXIST	400
	CODE_NOT_UNIQUE	
VAL_RECALL_LAST	RECALL_NOT_LAST_EVENT	400

### 3.3.7 Transition Period Validation

#### 3.3.7.1 overview

It has been recognized that during the transition period (20 May 2019 – 19 May 2020), as provided for under Article 37(1) of Implementing Regulation (EU) 2018/574, a number of UI, which were generated before the 20th of May 2019 and therefore not-registered in the system, might be present in the supply chain and could be accidently scanned and included in product movement messages. In an effort to avoid full rejection of messages that may also contain valid UIs and non-valid legacy UIs, the following validation rule will be applied.

- 1. The receiving system (Primary repository, Router) identifies valid and non-registered UIs as per "VAL\_UI\_EXIST\_UPUI" or "VAL\_UI\_EXIST\_AUI" validation in the original message.
- 2. In case non-valid legacy UIs are identified, the system (Primary repository, Router) ONLY processes the valid UIs.
- 3. An error message is sent to the requesting system containing the list of non-valid legacy UIs. The error code ("UI\_NOT\_EXIST\_TRANSITION\_WARNING") indicates that message in question contains non-valid legacy UIs, which will not be processed by the system. Only valid UIs will be processed.
- 4. The requesting system, by receiving the validation result with the list of non-valid legacy UIs, have the possibility to recall the message.

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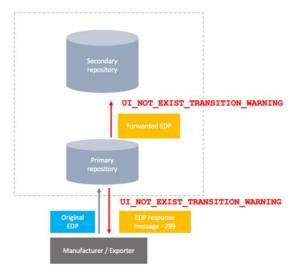
# *3.3.7.2 Related controls*

The following validation will not apply during the transition period

- VAL\_UI\_EXIST\_AUI
- VAL\_UI\_EXIST\_UPUI

Scope of messages subject to the transition period

- IDA (2.3) Request for deactivation of UIs
- 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 UI 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



# 3.3.7.3 Primary and Router processing

Figure 5 Transition warning diagram

The primary and Router implementing the transition period receives the incoming event and apply the different validation controls. In case a UI doesn't match the control, the UI will be removed from the forwarded list and placed into the rejection data section of the message.

The primary repository must route events forwarded by the router with the Rejection Data information to the secondary repository.

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#### 3.3.7.4 Empty Event

In case all UI in an event are non valid UIs, the Primary or Router will remove all the UI from the main UI list and forward the "empty" message to the Secondary Repository as an error message (http 400) for audit purpose.

### 3.3.8 Sequence Validation Grace Period

#### 3.3.8.1 Overview

For the Economic Operators (Manufacturers, Importers, distributors), the implementation of the sequence validation is an important technical upgrade. In order to allow Economic operators to finetune their systems, a sequence validation grace period is defined.

During the sequence validation grace period, the Router and Primary repository will only provide WARNING (http status 299) instead of an ERROR (http status 400) in case of non-compliance and still accept the messages. These warning should be used by the EO to understand the errors and adapt their systems in order to comply with the new technical validation.

It is important to note that the "**sequence validation grace period**" is different from the "transitions period". Both periods can overlap.

#### 3.3.8.2 **UI** Processing

During the sequence validation grace period, If the UI doesn't pass the sequence validation, it will still be accepted, and the message processed. Because the sequence validation is not respected, the processing system (Primary repository or Router) will not be able to maintain an accurate state for that specific UI. The UI will be identified, and further events related to this UI will be accepted.

#### 3.3.8.3 End of grace period

For UIs that have been issued and operated prior to the end of the Sequence Validation Grace Period, those might contain non-conform information. This means that the information used to implement the sequence validation, for these specific UI might not be sufficient to enforce the validation.

If the information available for these UIs, is not sufficient to assess the location and the state, the system should allow the product movement and bypass the validations.

#### 3.3.8.4 Related controls

The following validation controls will be impacted by this sequence validation Grace Period

- VAL UI FID APP
- VAL UI ORD REACTIVATION

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- VAL\_UI\_ORD\_DEACTIVATED
- VAL\_UI\_ORD\_AGG\_MULT
- VAL\_UI\_ORD\_DISAGG
- VAL\_UI\_ORD\_IMPLDISAGG
- VAL\_UI\_ORD\_AGG\_FID
- VAL\_UI\_ORD\_ARRIVAL
- VAL\_UI\_ORD\_DISPATCH

### 3.3.8.5 Primary and Router processing

The primary and Router implementing the transition period receives the incoming event and apply the different sequence validation controls. In case a UI doesn't match the control, a warning response will be sent back to the sender system. The original message will be forwarded without any additional rejection data section linked to the sequence validation.

3.3.9 Secondary repository special processing of technical historical data.

*3.3.9.1 Context* In some exceptional cases, if the primary repositories fail to report some events, the secondary validation will prevent the primary to report these events aposteriori.

The following edge cases have been identified.

- MAINT\_01: Repacking scenario
- MAINT\_02: Historical Transloading scenario
- MAINT\_03: Arrival before Deactivation

In order to allow the secondary to be a copy of the primary repositories, the secondary repository will perform a limited update of the meta data. Only the event list will be updated

The metadata used for the validation (state and location) will not be updated in these specific cases.

The secondary will add specific audit trail during the processing of these specific cases.

The secondary will add specific information to the event allowing the competent authority to be informed of this specific processing.

Note that any other cases not exactly matching these scenarii will be rejected. (http status 400)

The primary repository will receive a successful answer (http status 202) and will not have to resend the message.

## 3.3.9.2 MAINT\_01: Repacking scenario

The initial packing process for a certain aUI corresponds to the reporting of an Aggregation (EPA 3.2) event.

The repacking process consists of an explicit Disaggregation (EUD 3.6) event followed by a new Aggregation (EPA 3.2) event.

In unlikely event of an issue in the reporting of the original aggregation and disaggregation event, the final aggregation event will be processed by the secondary repository.

MSG Sequence	MSG Type	UIs	Primary ACK	Secondary ACK	Comments
1	EPA1 (3.2)	aUI	202	TIMEOUT	Message is not transmitte d to Secondary due to technical reasons
2	EUD (3.6)	Same aUI	202	TIMEOUT	Message is not transmitte d to Secondary due to technical reasons
3	EPA 2 (3.2)	Same aUI	202	202	

Message supported:

- aggregation message (EPA),
- disaggregation message (EUD).

Controls

- Messages must have been rejected by the regular endpoint.
- Control on the Existence of the aUI
- Control on the Reception Time or Message Time Long

### 3.3.9.3 MAINT\_02: Historical Transloading scenario

ETL message

MSG Sequence	MSG Type	UIs	Primary ACK	Secondary ACK	Comments
1	EDP	Any	202	202	

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2	ETL	Same as in EDP	202	TIMEOUT	Message is not transmitte d to Secondary due to technical reasons
3	ERP	Same as in EDP	202	202	

Message supported:

• Transloading message (ETL 3.5),

Controls.

- Control on the MessageTimeLong that ETL was sent after an EDP (3.3)
- Control on the MessageTimeLong that ETL was sent before an ERP (3.4)

# 3.3.9.4 MAINT\_03: Arrival before Deactivation

MSG Sequence	MSG Type	UIs	Primary ACK	Secondary ACK	Comments
1	EDP (3.3)	Any	202	202	
2	ERP (3.4)		202	TIMEOUT	Message is not transmitte d to Secondary due to technical reasons
3	IDA (2.3)		202	202	

### Message supported:

• Arrival message (ERP 3.4)

### 3.3.9.5 Recall clarification

Once the events are accepted, including events accepted with special processing (meaning that events have been accepted out of sequence), the recall validation will apply on the full event sequence.

EU Secondary Data Dictionary, Version 1.4.5

By definition the events accepted with special processing are NOT the latest events for some UI present in the event. For that reason, the Recall process must first be applied on the latest event (based on the Reception\_Time).

In the case of MAINT 02 where the ETL (3.5) transloading event has been reported after the ERP (3.4) Arrival event, the Recall must first by reported on the ERP and then another recall on the ETL.

MSG Sequence	MSG Type	UIs
<mark>1</mark>	EDP	Any
2	ETL	Same as in EDP
<mark>3</mark>	ERP	Same as in EDP

- 3.4 Identifier codes for economic operators, facilities and machines messages
- 3.4.1 REO (1.1) Registration of an Economic operator

#### 3.4.1.1 Description

Submit the information for the first registration of the economic operator.

J.4.1.2 L	Description of the	neius							
	registration of economic operator – request								
Field	Description	Data Type	Cardinality	Priority	Values				
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = REO				
EO_Name1	Economic operator's registered name	Text(100)	S	М					
EO_Name2	Economic operator's alternative or abridged name	Text(100)	S	0					
EO_Address	address – street name, house number, postal code, city	Text(300)	S	0					
EO_Address_Name	Name part of the Address	Text(5000)	S	0					
EO_Address_StreetOne	Street part of the Address	Text(5000)	S	М					
EO_Address_StreetTwo	Second Element of the Street part of the Address	Text(5000)	S	0					

#### 3.4.1.2 Description of the fields

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EO_Address_City	City	Text(5000)	S	М	
LO_Address_eity	City	10000)	5		
EO_Address_PostCode	PostalCode information	Text(5000)	S	0	
EO_CountryReg	Economic operator's country of registration	Country	S	М	See Country
EO_Email	Economic operator's email address; used to inform about registration process, incl. subsequent changes and other required correspondence	Text(5000) (Regex protected)	S	М	
VAT_R	Indication of the VAT registration status	Boolean	S	М	0 – No VAT registration 1 – VAT number exists
VAT_N	Economic operator's VAT number	Text(20)	S	M, if VAT_R = 1	
TAX_N	Economic operator's tax registration number	Text(20)	S	M, if VAT_R = 0	
EO_ExciseNu mber1	Indication if the economic operator has an excise number issued by the competent authority for the purpose of identification of persons/premises	Boolean	S	М	0 – No SEED number 1 – SEED number exists
EO_ExciseNumber2	Economic operator's excise number issued by the competent authority for the purpose of identification of persons/premises	SEED	S	M, if EO_Excis eNumber1 = 1	
OtherEOID_R	Indication if the economic operator has been allocated an identifier by another ID Issuer	Boolean	S	М	0 – No 1 – Yes
OtherEOID_N	Economic operator identifier codes allocated by other ID Issuers	EOID	М	M, if OtherEOI D_R = 1	
Reg_3RD	Indication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco trade	Boolean	S	М	0 – No 1 – Yes

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Reg_EOID	Identifier of the economic operator that acts on behalf of a retail outlet operator not otherwise involved in the tobacco trade	EOID	S	M, if Reg_3RD = 1	
EO_OtherID	Optional identifier	Text(50)	S	0	
Extensibility	Optional extensibility field	Text(5000)	S	0	

#### 3.4.1.3 Response:

Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	Μ	Message_Type = REO
EO_ID	Economic operator's registered ID	EOID	S	0	
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	S	0	
Extensibility	Optional extensibility field	Text(5000)	S	0	

*3.4.1.4 Request sample* 

{
 "EO\_Name1": "Example Legal Entity",
 "EO\_Name2": "",
 "EO\_Legal Street", "EO\_Address": "59 Legal Street", "EO\_CountryReg": "DE", "EO\_Email": "email@test.com", "VAT\_R": 1, "VAT\_N": "VATNumber 1", "TAX\_N": "Tax", "EO\_ExciseNumber1":1, "EO\_ExciseNumber2": "LA111FD", "OtherEOID\_R": false, "OtherEOID\_N": [], "Reg\_3RD": false, "Reg EOID": "" "EO\_OtherID ": "GLNSAMPLE", "Message\_Type": "REO" "Code": "873345b2-882f-4064-91f0-90669b46c30a", "EO OtherID": "XFG6GN5J5JG98VJKFHJKKJ" }

### 3.4.1.5 Successful response sample

#### HTTP Status 202

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```
{
 "Code": "873345b2-882f-4064-91f0-90669b46c30a",
  "EO_CODE": "873345b2-882f-4064-91f0-90669b46c30a",
  "Message_Type": "REO",
  "Error": false,
  "Errors": null,
  "Checksum": "DFG65H"
```

#### 3.4.1.6 Error response sample

Processing errors						
HTTP						
status						
< < Com	<< Common response code >>					
400	ALREADY EXISTS	Indicated that the CRUD action in add a new entity				
	, LEI (E) (B · _E/(16) / 6					
	failed, as the item already exist. This is when checking					
		of the item id already exists.				

### 3.4.2 REOD - Data Registration of an Economic operator

#### 3.4.2.1 Description

The REOD message is the response to the REO message. This message can be issued in an asynchronous manner and contains the EO\_ID.

3.4.2.2 Description of the fields						
registration of economic operator – request						
Field	Description	Data Type	Cardinality	Priority	Values	
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = REOD	
EO_ID	Economic operator's registered ID	EOID	S	М		
EO_Name1	Economic operator's registered name	Text(100)	S	М		
EO_Name2	Economic operator's alternative or abridged name	Text(100)	S	0		
EO_Address	address – street name, house number, postal code, city	Text(300)	S	0		
EO_Address_Name	Name part of the Address	Text(5000)	S	0		
EO_Address_StreetOne	Street part of the Address	Text(5000)	S	М		

#### 3422 Description of the fields

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		T-++(F000)	~		
EO_Address_StreetTwo	Second Element of the Street part of the Address	Text(5000)	S	0	
EO_Address_City	City	Text(5000)	S	М	
EO_Address_PostCode	PostalCode information	Text(5000)	S	0	
EO_CountryR eg	Economic operator's country of registration	Country	S	М	See Country
EO_Email	Economic operator's email address; used to inform about registration process, incl. subsequent changes and other required correspondence	Text(5000) (Regex protected)	S	М	
VAT_R	Indication of the VAT registration status	Boolean	S	М	2 – No VAT registration 3 – VAT number exists
VAT_N	Economic operator's VAT number	Text(20)	S	M, if VAT_R = 1	
TAX_N	Economic operator's tax registration number	Text(20)	S	M, if VAT_R = 0	
EO_ExciseNu mber1	Indication if the economic operator has an excise number issued by the competent authority for the purpose of identification of persons/premises	Boolean	S	М	2 – No SEED number 3 – SEED number exists
EO_ExciseNu mber2	Economic operator's excise number issued by the competent authority for the purpose of identification of persons/premises	SEED	S	M, if EO_Excis eNumber 1 = 1	
OtherEOID_R	Indication if the economic operator has been allocated an identifier by another ID Issuer	Boolean	S	М	2 – No 3 – Yes
OtherEOID_N	Economic operator identifier codes allocated by other ID Issuers	EOID	М	M, if OtherEOI D_R = 1	

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Reg_3RD	Indication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco trade	Boolean	S	М	2 – No 3 – Yes
Reg_EOID	Identifier of the economic operator that acts on behalf of a retail outlet operator not otherwise involved in the tobacco trade	EOID	S	M, if Reg_3RD = 1	
EO_OtherID	Optional identifier	Text(50)	S	0	
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	S	М	
Extensibility	Optional extensibility field	Text(5000)	S	0	

#### 3.4.2.3 Response:

Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = REOD
Extensibility	Optional extensibility field	Text(5000)	S	0	

3.4.2.4 Request sample

{ "EO\_ID": "QCUKR+1AB020054", "EO\_Name1": "Example Legal Entity", "EO\_Name2": "", "EO\_Address": "59 Legal Street", "EO CountryReg": "DE", "EO\_Email": "email@test.com", "VAT\_R": 1, "VAT\_N": "VATNumber 1", "TAX\_N": "Tax", "EO\_ExciseNumber1":1, "EO\_ExciseNumber2": "LA111FD", "OtherEOID\_R": false, "OtherEOID\_N": [ "" ], "Reg\_3RD": false, "Reg\_EOID": "" "EO\_OtherID ": "GLNSAMPLE", "Message\_Type": "REO", "Code": "873345b2-882f-4064-91f0-90669b46c30a", "EO\_CODE": "873345b2-882f-4064-91f0-90669b46c30a", "EO\_OtherID": "XFG6GN5J5JG98VJKFHJKKJ"

EU Secondary Data Dictionary, Version 1.4.5

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# 3.4.2.5 Successful response sample HTTP Status 202 { "Code": "6854f9a6-a2b2-4c08-8000-0173f3c35567", "Message\_Type": "REOD", "Error": false, "Errors": null, "Checksum": "G6HF5H" }

# 3.4.2.6 Error response sample

}

# Processing errors HTTP status << Common response code >>

EU Secondary Data Dictionary, Version 1.4.5

3.4.3 CEO – (1.2) Correction for an economic operator identifier code

3.4.3.1 Description

Submit the information of an economic operator known to the repository in order to update 1 or more properties. This information in entirety will over write the previous data held regarding the master data of this economic operator. Links (for example dispatches) to / from this EO\_ID will be maintained.

	1	1	1	1	
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = CEO
EO_ID	Economic operator identifier code	EOID	S	М	
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	S	М	
EO_Name1	Economic operator's registered name	Text(100)	S	М	
EO_Name2	Economic operator's alternative or abridged name	Text(100)	S	Ο	
EO_Address	address – street name, house number, postal code, city	Text(300)	S	0	
EO_Address_Name	Name part of the Address	Text(5000)	S	0	
EO_Address_StreetOne	Street part of the Address	Text(5000)	S	М	
EO_Address_StreetTwo	Second Element of the Street part of the Address	Text(5000)	S	0	
EO_Address_City	City	Text(5000)	S	М	
EO_Address_PostCode	PostalCode information	Text(5000)	S	0	
EO_CountryReg	Economic operator's country of registration	Country	S	М	See Country
EO_Email	Economic operator's email address – used to inform about registration process, incl. subsequent changes	Text(5000) (Regex protected)	S	М	

#### Description of the fields 3.4.3.2

EU Secondary Data Dictionary, Version 1.4.5

VAT_R	Indication of the VAT	Boolean	S	М	0 –
	registration status	DUDIEdH	5	וייו	No VAT registration 1 – VAT number exists
VAT_N	Economic operator's VAT number	Text(20)	S	M, if VAT_R = 1	
TAX_N	Economic operator's tax registration number	Text(20)	S	M, if VAT_R = 0	
EO_ExciseNumber1	Indication if the economic operator has an excise number issued by the competent authority for the purpose of identification of persons/premises	Boolean	S	Μ	0 – No SEED number 1 – SEED number exists
EO_ExciseNumber2	Economic operator's excise number issued by the competent authority for the purpose of identification of persons/premises	SEED	S	M, if EO_Excis eNumber 1 = 1	
OtherEOID_R	Indication if the economic operator has been allocated an identifier by another ID Issuer	Boolean	S	М	0 - No 1 - Yes
OtherEOID_N	Economic operator identifier codes allocated by other ID Issuers	EOID	Μ	M, if OtherEOI D_R = 1	
Reg_3RD	Indication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco trade	Boolean	S	М	0 - No 1 - Yes
Reg_EOID	Identifier of the economic operator that acts on behalf of a retail outlet operator not otherwise involved in the tobacco trade	EOID	S	M, if Reg_3RD = 1	
Extensibility	Optional extensibility field	Text(5000)	S	0	

EU Secondary Data Dictionary, Version 1.4.5 76 / 2 The information contained in these documents is **confidential**, privileged and only for the information of the intended 76 / 257 recipient and may not be used, published or redistributed without the prior written consent of Dentsu Aegis Network.

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#### 3.4.3.3 Response:

correction of information concerning the economic operator – response							
Field	Description	Data Type	Cardinality	Priority	Values		
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = CEO		
Extensibility	Optional extensibility field	Text(5000)	S	0			

#### 3.4.3.4 Request sample

```
{
 "Message_Type": "CEO"
 "Code": "873345b2-882f-4064-91f0-90669b46c30a",
 "EO_ID": "QCUKR+1AB020054"
 "EO_CODE": "873345b2-882f-4064-91f0-90669b46c30a",
"EO_Name1": "registerationname",
"EO_Name2": "",
 "EO_Address": "address 1",
 "EO_CountryReg": 27,
 "EO_Email": "email@test.com",
 "VAT_R": 1,
 "VAT_N": "VATNumber 1",
 "TAX_N": "Tax",
 "EO_ExciseNumber1": 1,
 "EO_ExciseNumber2": "LA111FD",
 "OtherEOID_R": false,
 "OtherEOID_N": [ "" ],
 "Reg_3RD": false,
 "Reg_EOID": ""
```

EU Secondary Data Dictionary, Version 1.4.5

# 3.4.3.5 Successful response sample

# HTTP Status 202

```
{
  "Code": "873345b2-882f-4064-91f0-90669b46c30a",
  "Message_Type": "CEO",
  "Error": false,
  "Errors": null,
"Checksum": "G6HF5H"
}
```

#### *3.4.3.6 Error response sample*

Processi	ng errors	
HTTP status		
<< Com	mon response code >>	

3.4.4 DEO - (1.3) De-registration of economic operator identifier code.

#### Description 3.4.4.1

De-registers a previously known operator identifier for a given EO\_ID

	De-registration of	of economic opera	tor – request		1		
Field	Description	Data Type	Cardinality	Priority	Values		
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = DEO		
EO_ID	Economic operator identifier code	EOID	S	М			
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	S	М			
Reg_3RD	Indication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco trade	Boolean	S	М	0 – No 1 – Yes		
Reg_EOID	Identifier of the economic operator that acts on behalf of a retail outlet operator not otherwise involved in the tobacco trade	EOID	S	M, if Reg_3RD = 1			
Extensibility	Optional extensibility field	Text(5000)	S	0			

3.4.4.2 Description of the fields

EU Secondary Data Dictionary, Version 1.4.5

#### 3.4.4.3 Response:

	onse				
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = DEO
Extensibility	Optional extensibility field	Text(5000)	S	0	

#### 3.4.4.4 Request sample

```
{
    "EO_ID": "QCUKR+1AB020054",
    "EO_CODE": "873345b2-882f-4064-91f0-90669b46c30a ",
    "Reg_3RD": false,
    "Reg_EOID": "Machine Id A",
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "DEO"
}
```

#### *3.4.4.5 Successful response sample*

#### HTTP Status 202

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "DEO",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

#### 3.4.4.6 Error response sample

# Processing errors HTTP status

<< Common response code >>

EU Secondary Data Dictionary, Version 1.4.5

# 3.4.5 RFA – (1.4) Request for a facility identifier code

#### 3.4.5.1 Description

Add a previously unsent / registered facility. Defined as unseen by the existence of the facility id in the repository.

# 3.4.5.2 Description of the fields

Request:

	Registratio	on of facility – re	quest		
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = RFA
EO_ID	Economic operator identifier code	EOID	S	М	
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	S	М	
F_Address_Name	Name part of the Address	Text(5000)	S	0	
F_Address_StreetOne	Street part of the Address	Text(5000)	S	М	
F_Address_StreetTwo	Second Element of the Street part of the Address	Text(5000)	S	0	
F_Address_City	City	Text(5000)	S	М	
F_Address_PostCode	PostalCode information	Text(5000)	S	0	
F_Country	Facility's country	Country	S	М	See Country
F_Type	Type of facility	Integer	S	М	See FacilityType
F_Type_Other	Description of other facility type	Text(5000)	S	M, if F_Type = 4	
F_Status	Indication if a part of the facility has a bonded warehouse status	Boolean	S	М	0 – No 1 – Yes
F_ExciseNum ber1	Indication if the facility has an excise number issued by the competent authority for	Boolean	S	М	0 – No SEED number 1 – SEED number exists

EU Secondary Data Dictionary, Version 1.4.5

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	the purpose of identification of persons/premises				
F_ExciseNum ber2	Facility's excise number issued by the competent authority for the purpose of identification of persons/premises	SEED	S	M, if F_Excise Number1 = 1	
OtherFID_R	Indication if the facility has been allocated an identifier by another ID Issuer	Boolean	S	М	0 – No 1 – Yes (possible only for non-EU facilities)
OtherFID_N	Facility identifier codes allocated by other ID Issuers	FID	Σ	M, if OtherFID _R = 1	
Reg_3RD	Indication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco trade	Boolean	S	М	0 - No 1 - Yes (possible only if F_Type = 3)
Reg_EOID	Identifier of the economic operator that acts on behalf of a retail outlet operator not otherwise involved in the tobacco trade	EOID	S	M, if Reg_3RD = 1	
Extensibility	Optional extensibility field	Text(5000)	S	0	

#### 3.4.5.3 Response

	registration of facility – response							
Field	Description	Data Type	Cardinality	Priority	Values			
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = RFA			
F_ID	Facility's identifier registered	FID	S	0	Present if synchronous implementation			
Extensibility	Optional extensibility field	Text(5000)	S	0				

#### 3.4.5.4 Request sample

{

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"EO\_ID":"QCUKR+1AB020054", "EO\_CODE":"873345b2-882f-4064-91f0-90669b46c30a", "F\_ID":"QCUKR<1AB020054000048", "F\_Country":2, "F\_Type":"RFA2", "F\_Type\_Other":null, "F\_Status": false, "F\_ExciseNumber1": false, "F\_ExciseNumber2": null, "OtherFID\_R": false, "OtherFID\_R": false, "OtherFID\_N": [], "Reg\_3RD": false, "Reg\_EOID": null, "Code": "873345b2-882f-4064-91f0-90669b46c30a", "Message\_Type":"RFA" }

# 3.4.5.5 Successful response sample

# HTTP Status 202

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "RFA",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

#### *3.4.5.6 Error response sample*

Processing errors
HTTP
status
<< Common response code >>

3.4.6 RFAD – Data Registration for a facility identifier code

# 3.4.6.1 Description

The RFAD message is the response to the RFA message. This message can be issued in an asynchronous manner and transmit the F\_ID.

# 3.4.6.2 Description of the fields

Request:

Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = RFAD
EO_ID	Economic operator identifier code	EOID	S	Μ	
F_ID	Facility code from the RFA code issuer call	FID	S	Μ	
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	S	М	
F_Address_Name	Name part of the Address	Text(5000)	S	0	
F_Address_StreetOne	Street part of the Address	Text(5000)	S	М	

EU Secondary Data Dictionary, Version 1.4.5

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		T 1/5000		6	
F_Address_StreetTwo	Second Element of the Street part of the Address	Text(5000)	S	0	
F_Address_City	City	Text(5000)	S	М	
F_Address_PostCode	PostalCode information	Text(5000)	S	0	
F_Country	Facility's country	Country	S	М	See Country
F_Type	Type of facility	Integer	S	М	See FacilityType
F_Type_Other	Description of other facility type	Text(5000)	S	M, if F_Type = 4	
F_Status	Indication if a part of the facility has a bonded warehouse status	Boolean	S	М	2 – No 3 – Yes
F_ExciseNum ber1	Indication if the facility has an excise number issued by the competent authority for the purpose of identification of persons/premises	Boolean	S	Μ	2 – No SEED number 3 – SEED number exists
F_ExciseNum ber2	Facility's excise number issued by the competent authority for the purpose of identification of persons/premises	SEED	S	M, if F_Excise Number1 = 1	
OtherFID_R	Indication if the facility has been allocated an identifier by another ID Issuer	Boolean	S	М	2 – No 3 – Yes (possible only for non-EU facilities)
OtherFID_N	Facility identifier codes allocated by other ID Issuers	FID	М	M, if OtherFID _R = 1	
Reg_3RD	Indication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco trade	Boolean	S	М	0 - No 1 - Yes (possible only if F_Type = 3)
Reg_EOID	Identifier of the economic operator that acts on behalf of a retail outlet operator not otherwise involved in the tobacco trade	EOID	S	M, if Reg_3RD = 1	
Extensibility	Optional extensibility field	Text(5000)	S	0	

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#### 3.4.6.3 Response

Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = RFAD
Extensibility	Optional extensibility field	Text(5000)	S	0	

#### *3.4.6.4 Request sample*

{ "EO\_ID":"QCUKR+1AB020054", "" "072245b2-882f-40 "EO\_CODE":"873345b2-882f-4064-91f0-90669b46c30a", "F\_ID":"QCUKR<1AB020054000048", "F\_Country":2, "F\_Type":"RFA2" "F\_Type\_Other":null, "F\_Status": false, "F\_ExciseNumber1": false, "F\_ExciseNumber2": null, "OtherFID\_R": false, "OtherFID\_N": [], "Reg\_3RD": false, "Reg\_EOID": null, "Code": "873345b2-882f-4064-91f0-90669b46c30a", "Message\_Type":"RFAD" 3

#### 3.4.6.5 Successful response sample

HTTP Status 202

{
 "Code": "873345b2-882f-4064-91f0-90669b46c30a",
 "Message\_Type": "RFAD",
 "Error": false,
 "Errors": null,
 "Checksum": "G6HF5H"
}

#### 3.4.6.6 Error response sample

Processing errors
HTTP
status
<< Common response code >>

EU Secondary Data Dictionary, Version 1.4.5

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# 3.4.7 CFA – (1.5) Correction of information concerning the facility identifier code

# 3.4.7.1 Description

Submit the information of a facility known to the repository in order to update one or more properties. This information in entirety will overwrite the previous data held regarding the master data of this facility. Links (for example dispatches) to / from this F\_ID will be maintained.

correction of information concerning the facility – request							
Field	Description	Data Type	Cardinality	Priority	Values		
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = CFA		
EO_ID	Economic operator identifier code	EOID	S	М			
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	S	Μ			
F_ID	Facility identifier code	FID	S	М			
EO_Address	EO_Address address – street name, house number, postal code, city		S	0			
EO_Address_Name	Name part of the Address	Text(5000)	S	0			
EO_Address_StreetOne	EO_Address_StreetOne Street part of the Address		S	М			
EO_Address_StreetTwo	Second Element of the Street part of the Address	Text(5000)	S	0			
EO_Address_City	City	Text(5000)	S	М			
EO_Address_PostCode PostalCode information		Text(5000)	S	0			
F_Country	Facility's country	Country	S	М	See Country		
F_Type	Type of facility	Integer	S	Μ	See FacilityType		
F_Type_Other	Description of other facility type	Text(5000)	S	M, if F_Type = 4			

# 3.4.7.2 Description of the fields

EU Secondary Data Dictionary, Version 1.4.5

F_StatusIndication if a part of the facility has a bonded warehouse statusBooleanSM0 - No 1 - YesF_ExciseNum ber1Indication if the facility has an excise number issued by the competent authority for of persons/premisesBooleanSM0 - No SEED number 1 SEED numberF_ExciseNum ber2Facility's excise number issued by the competent authority for the purpose of identification of persons/premisesSEEDSM, if F.Excise Number1 = 1OtherFID_RIndication if the facility has been allocated an identifier by another ID IssuerBooleanSM0 - No SEED number existsOtherFID_NFacility identifier codes allocated by other DD IssuersFIDMM, if OtherFID _R = 1Reg_3RDIndication if the registration is made on behalf of a retail outed operator not otherwise involved in the tobacco tradeSM, if Reg_3RDReg_EOIDIdentifier of the economic operator that acts on behalf of a retail outed operator not otherwise involved in the tobacco tradeEOIDSM, if Reg_3RD = 1Retstein is involved in the tobacco tradeEOIDSM, if Reg_3RD = 1Retstein is involved in the tobacco tradeEOIDSONo				1		
Image: Set of the competent authority for the competent authority for the purpose of identification of persons/premisesSEEDSet of the purpose set of the purpose set of the purpose of identification of persons/premisesSEEDSet of the purpose set of the purpose set of the purpose of identification of persons/premisesSEEDSet of the purpose set of the purpose of the purpose of identification of persons/premisesSet of the purpose set of the purpose of identification of persons/premisesSet of the purpose set of the purpose of identification of persons/premisesSet of the purpose set of the purpose of identification of the purpose of identifier by another ID IssuerSet of the purpose set of the purpose set of the purpose set of the purpose of identifier codes allocated by other ID IssuerSet of the purpose set of the purpose set of the purpose set of the purpose of the registration is made on behalf of a retail outer operator not otherwise involved in the tobacco tradeSet of the purpose set of the purpose of the purpose of the purpose set of the purpose of the purpose of the purpose of the purpose otherwise involved in the tobacco tradeSet of the purpose set of the purpose set of the purpose set of the purpose of the purpose of the purpose of a retail outle operator not otherwise involved in the tobacco tradeSet of the purpose set of the pur	F_Status	facility has a bonded	Boolean	S	М	
Image: Set of the competent authority for the competent authority for the purpose of identification of persons/premisesSEEDSet of the purpose set of the purpose set of the purpose of identification of persons/premisesSEEDSet of the purpose set of the purpose set of the purpose of identification of persons/premisesSEEDSet of the purpose set of the purpose of the purpose of identification of persons/premisesSet of the purpose set of the purpose of identification of persons/premisesSet of the purpose set of the purpose of identification of persons/premisesSet of the purpose set of the purpose of identification of the purpose of identifier by another ID IssuerSet of the purpose set of the purpose set of the purpose set of the purpose of identifier codes allocated by other ID IssuerSet of the purpose set of the purpose set of the purpose set of the purpose of the registration is made on behalf of a retail outer operator not otherwise involved in the tobacco tradeSet of the purpose set of the purpose of the purpose of the purpose set of the purpose of the purpose of the purpose of the purpose otherwise involved in the tobacco tradeSet of the purpose set of the purpose set of the purpose set of the purpose of the purpose of the purpose of a retail outle operator not otherwise involved in the tobacco tradeSet of the purpose set of the pur						
issued by the competent authority for the purpose of identification of persons/premisesF_Excise Number1 = 1OtherFID_RIndication if the facility has been allocated an identifier by another ID IssuerBooleanSM0- No 1 - Yes (possible only for non-EU facilities)OtherFID_NFacility identifier codes allocated by other ID IssuersFIDMM, if OtherFID _R = 1Reg_3RDIndication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco tradeSM0- No 1Reg_EOIDIdentifier of the economic otherwise involved in the tobacco tradeEOIDSM, if Reg_3RD0- No 1	F_ExciseNum ber1	an excise number issued by the competent authority for the purpose of identification	Boolean	S	Μ	SEED number 1 – SEED number
been allocated an identifier by another ID Issuerlll1- Yes (possible only for non-EU facilities)OtherFID_NFacility identifier codes allocated by other ID IssuersFIDMM, if OtherFID _R = 1Reg_3RDIndication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco tradeBooleanSM0- No 1Reg_EOIDIdentifier of the economic operator that acts on behalf 	F_ExciseNum ber2	issued by the competent authority for the purpose of identification of	SEED	S	F_Excise Number1	
allocated by other ID IssuersOtherFID _R = 1Reg_3RDIndication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco tradeBooleanSM0- No1- Yes (possible only if F_Type = 3)Reg_EOIDIdentifier of the economic operator that acts on behalf otherwise involved in the 	OtherFID_R	been allocated an identifier	Boolean	S	Μ	1 – Yes (possible only for non-EU
is made on behalf of a retail outlet operator not otherwise involved in the tobacco tradeI I I I I 	OtherFID_N		FID	М	OtherFID	
operator that acts on behalf of a retail outlet operator not otherwise involved in the tobacco tradeReg_3RD = 1	Reg_3RD	is made on behalf of a retail outlet operator not otherwise	Boolean	S	Μ	1 – Yes (possible only if F_Type =
Extensibility     Optional extensibility field     Text(5000)     S     O		operator that acts on behalf of a retail outlet operator not otherwise involved in the			Reg_3RD = 1	
	Extensibility	Optional extensibility field	Text(5000)	S	0	

#### 3.4.7.3 Response

	1				
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = CFA
Extensibility	Optional extensibility field	Text(5000)	S	0	

#### 3.4.7.4 Request sample

```
{
"EO_ID":"QCUKR+1AB020054",
"EO_CODE":"873345b2-882f-4064-91f0-90669b46c30a ",
```

dentsu TRACKING

"F\_ID":"QCUKR<1AB020054000048", "F\_Country":2, "F\_Type":"CFA" "F\_Type\_Other":null, "F\_Status": false, "F\_ExciseNumber1": false, "F\_ExciseNumber2": null, "OtherFID\_R": false, "OtherFID\_N": [], "Reg\_3RD": false, "Reg\_EOID": null, "Code": "873345b2-882f-4064-91f0-90669b46c30a", "Message\_Type":"CFA" }

#### 3.4.7.5 Successful response sample

HTTP Status 202

```
{
  "Code": "873345b2-882f-4064-91f0-90669b46c30a",
  "Message_Type": "CFA",
  "Error": false,
  "Errors": null,
  "Checksum": "G6HF5H"
```

3.4.7.6 Error response sample

```
Processing errors
HTTP
status
```

3

<< Common response code >>

# 3.4.8 DFA – (1.6) De-registration of facility identifier code

#### 3.4.8.1 Description

De-registers a previously known facility for a given F\_ID

# 3.4.8.2 Description of the fields

	de-registration of facility – request						
Field	Description	Data Type	Cardinality	Priority	Values		
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = DFA		
EO_ID	Economic operator identifier code	EOID	S	Μ			
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	S	Μ			
F_ID	Facility identifier code	FID	S	М			
Reg_3RD	Indication if the deregistration is made on behalf of a retail outlet operator not otherwise involved in the tobacco trade	Boolean	S	Μ	0 - No 1 - Yes		
Reg_EOID	Identifier of the economic operator that acts on behalf of a retail outlet operator not otherwise involved in the tobacco trade	EOID	S	M, if Reg_3RD = 1			
Extensibility	Optional extensibility field	Text(5000)	S	0			

# 3.4.8.3 Response:

Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = DFA
Extensibility	Optional extensibility field	Text(5000)	S	0	

# 3.4.8.4 Request sample

{

EU Secondary Data Dictionary, Version 1.4.5

"EO\_ID":"QCUKR+1AB020054", "EO\_CODE": "873345b2-882f-4064-91f0-90669b46c30a", "F\_ID":"QCUKR<1AB020054000048", "Reg\_3RD": false, "Reg\_EOID": null, "Code": "873345b2-882f-4064-91f0-90669b46c30a", "Message\_Type": "DFA" }

# 3.4.8.5 Successful response sample

HTTP Status 202

}

{
 "Code": "873345b2-882f-4064-91f0-90669b46c30a",
 "Message\_Type": "DFA",
 "Error": false,
 "Errors": null,
 "Checksum": "G6HF5H"
}

# *3.4.8.6 Error response sample*

Processi	ing errors
HTTP	
status	
<< Com	nmon response code >>

# 3.4.9 RMA - (1.7) Request for a machine identifier code

# 3.4.9.1 Description

Submit the information for the first registration of a machine.

3.4.9.2 Description of the fields
-----------------------------------

Registration of manufacturing machine – request							
Field	Description	Data Type	Cardinality	Priority	Values		
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = RMA		
EO_ID	Economic operator identifier code	EOID	S	Μ			
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	S	Μ			
F_ID	Facility identifier code	FID	S	М			

EU Secondary Data Dictionary, Version 1.4.5

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M_Producer	Machine producer	Text(200)	S	М	
M_Model	Machine model	Text(200)	S	М	
M_Number	Machine serial number	Text(200)	S	М	
M_Capacity	Maximum capacity over 24hour production cycle expressed in unit packets	Integer	S	М	
Extensibility	Optional extensibility field	Text(5000)	S	0	

#### 3.4.9.3 Response:

registration of manufacturing machine – response							
Field	Description	Data Type	Cardinality	Priority	Values		
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = RMA		
M_ID	Machine identifier received from the RMA request made to the code issuer.	MID	S	М			
Extensibility	Optional extensibility field	Text(5000)	S	0			

# 3.4.9.4 Request sample

```
{
    "EO_ID": "QCUKR+1AB020054",
    "M_ID": "QCUKR>1AB020054000012",
    "EO_CODE": "873345b2-882f-4064-91f0-90669b46c30a",
    "F_ID": "QCUKR<1AB020054000048",
    "M_Producer": "Producer1",
    "M_Model": "model1",
    "M_Number": "MachineNumber",
    "M_Capacity": 533,
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "RMA"
}</pre>
```

# 3.4.9.5 Successful response sample

#### HTTP Status 202

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "RMA",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

EU Secondary Data Dictionary, Version 1.4.5

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#### 3.4.9.6 Error response sample

Processing errors

**HTTP** status

<< Common response code >>

#### 3.4.10 RMAD- Data Request for a machine identifier code

#### 3.4.10.1 Description

The RMAD message is the response to the RMA message. This message can be issued in an asynchronous manner and transmit the M\_ID.

Registration of manufacturing machine – request					
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = RMAD
EO_ID	Economic operator identifier code	EOID	S	М	
M_ID	Machine identifier received from the RMA request made to the code issuer.	EOID	S	М	
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	S	Μ	
F_ID	Facility identifier code	FID	S	М	
M_Producer	Machine producer	Text(20)	S	М	
M_Model	Machine model	Text(20)	S	М	
M_Number	Machine serial number	Text(20)	S	М	
M_Capacity	Maximum capacity over 24hour production cycle expressed in unit packets	Integer	S	М	
Extensibility	Optional extensibility field	Text(5000)	S	0	

#### Description of the fields 3.4.10.2

#### 3.4.10.3 Response:

registration of manufacturing machine - response

EU Secondary Data Dictionary, Version 1.4.5

Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	Μ	Message_Type = RMAD
Extensibility	Optional extensibility field	Text(5000)	S	0	

# 3.4.10.4 Request sample

```
{
    "EO_ID": "QCUKR+1AB020054",
    "M_ID": "QCUKR>1AB020054000012",
    "EO_CODE": "873345b2-882f-4064-91f0-90669b46c30a ",
    "F_ID": "QCUKR<1AB020054000048",
    "M_Producer": "Producer1",
    "M_Model": "model1",
    "M_Number": "MachineNumber",
    "M_Capacity": 533,
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "RMAD"
}</pre>
```

#### *3.4.10.5 Successful response sample*

#### HTTP Status 202

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "RMAD",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

#### *3.4.10.6 Error response sample*

```
Processing errors
HTTP
status
```

<< Common response code >>

EU Secondary Data Dictionary, Version 1.4.5

# 3.4.11 CMA – (1.8) Correction of information concerning the machine identifier code

# 3.4.11.1 Description

Submit the information of a machine known to the repository in order to update one or more properties. This information in entirety will overwrite the previous data held regarding the master data of this machine. Links (for example dispatches) to / from this M\_ID will be maintained.

Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = CMA
EO_ID	Economic operator identifier code	EOID	S	М	
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	S	Μ	
F_ID	Facility identifier code	FID	S	М	
M_ID	Machine identifier code	MID	S	М	
M_Producer	Machine producer	Text(200)	S	М	
M_Model	Machine model	Text(200)	S	М	
M_Number	Machine serial number	Text(200)	S	М	
M_Capacity	Maximum capacity over 24hour production cycle expressed in unit packets	Integer	S	М	
Extensibility	Optional extensibility field	Text(5000)	S	0	

## 3.4.11.2 Description of the fields

# 3.4.11.3 Response:

correction of information concerning the manufacturing machine – response					
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = CMA
Extensibility	Optional extensibility field	Text(5000)	S	0	

# 3.4.11.4 Request sample

{

EU Secondary Data Dictionary, Version 1.4.5

"EO\_ID": "QCUKR+1AB020054", "EO\_CODE": "873345b2-882f-4064-91f0-90669b46c30a", "F\_ID": "QCUKR<1AB020054000048", "M\_ID": "QCUKR>1AB020054000012", "M\_Producer": "Producer1", "M\_Model": "model1", "M\_Number": "MachineNumber", "M Capacity": 533, "Code": "873345b2-882f-4064-91f0-90669b46c30a", "Message\_Type": "CMA"

#### 3.4.11.5 Successful response sample

#### HTTP Status 202

}

{ "Code": "873345b2-882f-4064-91f0-90669b46c30a", "Message\_Type": "CMA", "Error": false, "Errors": null, "Checksum": "G6HF5H" }

#### 3.4.11.6 Error response sample

#### Processing errors

#### HTTP status

<< Common response code >>

#### DMA - (1.9) De-registration of machine identifier code 3.4.12

#### 3.4.12.1 Description

De-registers a previously known machine for a given M\_ID

#### 3.4.12.2 Description of the fields

de-registration of manufacturing machine – request						
Field	Description	Data Type	Cardinality	Priority	Values	
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = DMA	
EO_ID	Economic operator identifier code	EOID	S	Μ		

EU Secondary Data Dictionary, Version 1.4.5

EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	S	М	
F_ID	Facility identifier code	FID	S	М	
M_ID	Machine identifier code	MID	S	М	
Extensibility	Optional extensibility field	Text(5000)	S	0	

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#### 3.4.12.3 Response:

	De-registration	of manufacturing m	achine – res	ponse	
Field	Description	Data Type	Cardinalit Y	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = DMA
Extensibility	Optional extensibility field	Text(5000)	S	0	

# 3.4.12.4 Request sample

```
{
    "EO_ID":"QCUKR+1AB020054",
    "EO_CODE": "873345b2-882f-4064-91f0-90669b46c30a",
    "F_ID": "QCUKR<1AB020054000048",
    "M_ID": "QCUKR>1AB020054000012",
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type":"DMA"
}
```

# 3.4.12.5 Successful response sample

#### HTTP Status 202

}

{
 "Code": "873345b2-882f-4064-91f0-90669b46c30a",
 "Message\_Type": "DMA",
 "Error": false,
 "Errors": null,
 "Checksum": "G6HF5H

#### *3.4.12.6 Error response sample*

Processi	ing errors	
HTTP status		
<< Com	mon response code >>	

EU Secondary Data Dictionary, Version 1.4.5

# 3.4.13 ICV – Validate existence of EOID, FID and the MID.

# 3.4.13.1 Description

Provides the capability for ID Issuers and Primary repositories to check the existence and the activation status of Identifier codes (EOID, FID and MID) and the respective relations.

# 3.4.13.2 Description of the fields

	Validate existence of EO-ID, F-ID and the M-ID request						
Field	Description	Data Type	Cardinality	Priority	Values		
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = ICV		
EO_IDS	A list of EOIDs to check for existence	EOID	М	0			
F_IDS	A list of FIDs to check for existence	FID	М	0			
M_IDS	A list of MIDs to check for existence	MID	М	0			
R_EOF	A list of relation of EOID and FID to check for existence	Text (Array limit = 2. String text limit = 5000)	М	0			
R_EOFM	A list of relation of EOID, FID and MID to check for existence	Text (Array limit = 3. String text limit = 5000)	М	0			
ICV_Type		Integer	S	Ο	<ul> <li>1- request the Activation information, only available for ID Issuers</li> <li>Other- only existence is provided</li> </ul>		

#### *3.4.13.3 Response:*

511115	терропост				
	Validate exist response	ence of EO-ID, F-II	O and the M-II	<b>)</b> .–	
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = ICV
EO_IDS_EXIST	List of EO_IDs that exist	Boolean	М	0	0 – False 1 - True

EU Secondary Data Dictionary, Version 1.4.5

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F_IDS_EXIST	List of FO_IDs that exist	Boolean	М	0	0 – False 1 - True
M_IDS_EXIST	List of MO_IDs that exist	Boolean	Μ	0	0 – False 1 - True
EO_IDS_ACTIVE	List of EO_IDs that are active	Boolean	М	M – when ICV_TYPE = 1 only available for ID Issuer	0 – False 1 - True
F_IDS_ACTIVE	List of FO_IDs that are active	Boolean	М	M – when ICV_TYPE = 1 only available for ID Issuer	0 – False 1 - True
M_IDS_ACTIVE	List of MO_IDs that are active	Boolean	Μ	M – when ICV_TYPE = 1 only available for ID Issuer	0 – False 1 - True
R_EOF_EXIST	List of R_EOF that exist	Boolean	М	0	0 – False 1 - True
R_EOFM_EXIST	List of R_EOFM that exist	Boolean	М	0	0 – False 1 - True

# 3.4.13.4 Request sample

```
{
    "Message_Type":"ICV",
    "ICV_Type":1,
    "EO_IDS": ["QCUKR+1AB020054", "QCBDR+1DE020055"],
    "F_IDS": ["QCUKR<1AB020054000048", "QCUKR<1AB020054000049"],
    "M_IDS": ["QCUKR>1AB020054000012", "QCUKR>1AB020054000013"],
    "R_EOF": [
        ["QCUKR+1AB020054", "QCUKR<1AB020054000048"],
        ["QCUKR+1AB020054", "QCUKR>1AB020054000012"]],
    "R_EOFM": [
        ["QCUKR+1AB020054", "QCUKR<1AB020054000048","QCUKR>1AB020054000012"],
        ["QCUKR+1AB020054", "QCUKR<1AB020054000048","QCUKR>1AB020054000012"],
        ["QCUKR+1AB020054", "QCUKR<1AB020054000012","QCUKR>1AB020054000012"],
        ["QCUKR+1AB020054", "QCUKR<1AB020054000012","QCUKR>1AB020054000012"],
        ["QCUKR+1AB020054", "QCUKR<1AB020054000012","QCUKR>1AB020054000012"],
        ["QCUKR+1AB020054", "QCUKR>1AB020054000012","QCUKR>1AB020054000012"]],
        "Code": null
    }
}
```

# 3.4.13.5 Successful response sample

HTTP Status 202 (Primary repository)

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "ICV",
    "EO_IDS_EXIST": [true, true],
    "F_IDS_EXIST ": [true, true],
    "M_IDS_EXIST ": [true, false],
    "R_EOF_EXIST ": [true, false],
    "R_EOFM_EXIST ": [true, false],
    "R_EOFM_EXIST ": [true, false],
```

```
EU Secondary Data Dictionary, Version 1.4.5
```

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"Error": false, "Errors": null, "Checksum": "G6HF5H"

}

Example here shows that the  $2^{nd}$  MID is the only one that does not exist in the EU wide registry. Also that the to the economic operator to facility relation is wrong on the  $2^{nd}$ . Also that the facility to machine relation is detected as wrong on the  $2^{nd}$ .

#### 3.4.13.1 Successful response sample ICV\_Type = 1

HTTP Status 202 (ID Issuer)

#### *3.4.13.2 Error response sample*

Processing errors
HTTP
status
<< Common response code >>

EU Secondary Data Dictionary, Version 1.4.5

# 3.5 Unique identifiers Messages

# 3.5.1 ISU - (2.1) Request for unit level UIs

3.5.1.1 Description

Request for reporting the issuance of serial numbers at unit packet level

Request for unit level UIs – request						
Field	Description	Data Type	Cardinality	Priority	Values	
BasicInfo_Re q	Block of basic information elements	Component << Basic Information Request >>	S	м	Message_Type = ISU	
EO_ID	Economic operator identifier code of the submitting entity (either EU manufacturer or EU importer)	EOID	S	М		
F_ID	Facility identifier code	FID	S	М		
Process_Type	Indication if the production process involves machinery	Boolean	S	М	0 – No (only for fully hand made products) 1 – Yes	
M_ID	Machine identifier code	MID	S	M, if Process_ Type = 1		
P_Type	Type of tobacco product	Integer	S	М	See TobaccoProductT ype	
P_OtherType	Description of other type of tobacco product	Text(200)	S	M, if P_Type = 11 (other tobacco product)		
P_CN	Combined Nomenclature (CN) code	Text(200)	S	0		
P_weight	Average gross weight of unit packet, including packaging, in grams with 0,1 gram accuracy	lineDecimal	S	М		
P_Brand	Brand of tobacco product	Text(200)	S	М		
TP_ID	The identification number of the product used in the EU- CEG system.	TPID	S	M, if Intended _Market is an EU country		
TP_PN	Tobacco product number used in the EU-CEG system	PN	S	M, if Intended _Market is an EU country		
Intended_Mar ket	Intended country of retail sale.	Country	S	M		
Intended_Ro ute1	Indication if the product is intended to be moved across country boarders with terrestrial transport.	Boolean	S	М	0 - No 1 - Yes	

#### 3.5.1.2 Description of the fields

EU Secondary Data Dictionary, Version 1.4.5

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Request for unit level UIs – request						
Field	Description	Data Type	Cardinality	Priority	Values	
Intended_Ro ute2	The first country of terrestrial transport after the product leaves the Member State of manufacturing or the Member State of importation.	Country	S	M, if Intended _Route1 = 1		
Import	Indication if the product is imported into the EU	Boolean	S	М	0 – No 1 – Yes	
Req_Quantity	Requested quantity of unit packet level UIs	Integer	S	М		
P_OtherID	Optional Product ID	Text(20)	S	0		

#### 3.5.1.3 Response:

Request for unit level UIs – response						
Field         Description         Data Type         Cardinality         Priority         Values						
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	Μ	Message_Type = ISU	

#### 3.5.1.4 Request sample

{ "EO\_ID":"QCUKR+1AB020054", "F\_ID": "QCUKR<1AB020054000049" "Process\_Type":false, "M\_ID": "Machine Id A", "P\_Type":2, "P\_OtherType":null, "P\_CN": "FG7H68FHF" "P\_Brand":"Product brand A", "P\_Weight":10.0, "TP\_ID":"1234", "TP\_PN":"1234", "Intended\_Market":"BG", "Intended\_Route1":true, "Intended\_Route2":"BG", "Import":false, "Req\_Quantity":2, "P\_OtherID":"GTINSAMPLE", "Code":null, "Message\_Type":"ISU" }

#### 3.5.1.5 Successful response sample

#### HTTP Status 202

{ "Code": "873345b2-882f-4064-91f0-90669b46c30a", "Message\_Type": "ISU", "Error": false,

EU Secondary Data Dictionary, Version 1.4.5

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```
"Errors": null,
"Checksum": "G6HF5H"
```

# 3.5.1.6 Error response sample

Processi	ng errors	
HTTP status		
<< Com	mon response code >>	

Error body sample

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": null,
    "Error": true,
    "Errors": [
        {
            "Errors": [
                {
                "Error_InternalID": "yndkFz7TBEO706frD38hzA",
                "Error_Code": "INVALID_REQUEST_FORMAT",
                "Error_Descr": "The EconomicOperatorIdentifier field is required."
                }
        ]
}
```

3.5.2 IRU – Message to report the issuance of serial numbers at unit packet level

#### 3.5.2.1 Description

Request for reporting the issuance of serial numbers at unit packet level

request for reporting the issuance of serial numbers at unit packet level – request					
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Re q	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = IRU
Event_Time	Intended time of event occurrence	Time(s)	S	М	
Message_Tim e_long	Message sending Time	Time(L)	S	М	
EO_ID	Economic operator identifier code of the submitting entity (either EU manufacturer or EU importer)	EOID	S	Μ	
F_ID	Facility identifier code	FID	S	М	
Process_Type	Indication if the production process involves machinery	Boolean	S	Μ	0 – No (only for fully hand made products) 1 – Yes

# 3.5.2.2 Description of the fields

EU Secondary Data Dictionary, Version 1.4.5

l	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_Type	Type of tobacco product	Integer	S	М	See TobaccoProductT ype	
P_OtherType	Description of other type of tobacco product	Text(200)	S	M, if P_Type = 11 (other tobacco product)		
P_CN	Combined Nomenclature (CN) code	Text(200)	S	0		
P_Brand	Brand of tobacco product	Text(200)	S	М		
P_weight	Average gross weight of unit packet, including packaging, in grams with 0,1 gram accuracy	Decimal	S	М		
TP_ID	The identification number of the product used in the EU- CEG system.	TPID	S	M, if Intended _Market is an EU country		
TP_PN	Tobacco product number used in the EU-CEG system	PN	S	M, if Intended _Market is an EU country		
Intended_Mar ket	Intended country of retail sale.	Country	S	M		
Intended_Ro ute1	Indication if the product is intended to be moved across country boarders with terrestrial transport.	Boolean	S	М	0 - No 1 - Yes	
Intended_Ro ute2	The first country of terrestrial transport after the product leaves the Member State of manufacturing or the Member State of importation.	Country	S	M, if Intended _Route1 = 1		
Import	Indication if the product is imported into the EU	Boolean	S	М	0 – No 1 – Yes	
Req_Quantity	Requested quantity of unit packet level UIs – for the current IRU message	Integer	S	М		
Order_Req_Q uantity	Total Order Request quantity of unit packet level UIs.	Integer	S	0		
Order_numbe r	Optional EO Request Order Number	Text(50)	S	0		
P_OtherID	Optional Product ID	Text(20)	S	0		
upUI	List of unit packet level UI issued by the ID Issuer.	upUI(L) without timestamp	М	М		

EU Secondary Data Dictionary, Version 1.4.5 104 / 2 The information contained in these documents is **confidential**, privileged and only for the information of the intended 104 / 257 recipient and may not be used, published or redistributed without the prior written consent of Dentsu Aegis Network.

3.5.2.3	Response:				
request for reporting the issuance of serial numbers at unit packet level – response					
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	Μ	Message_Type = IRU
RecallExpiry_Ti me	Calculation of the Expiry date	Time(L)	S	М	

#### 3.5.2.4 **Business Validation**

	IRU (2.1)
Business rule validation	
Entity Validation	
VAL_ENT_EXIST_EOID	EO_ID
VAL_ENT_EXIST_FID	F_ID
VAL_ENT_EXIST_MID	M_ID
VAL_ENT_ACTIVE_EOID	EO_ID
VAL_ENT_ACTIVE_FID	F_ID
VAL_ENT_ACTIVE_MID	M_ID
VAL_ENT_REL_EOID_FID	EO_ID, F_ID * Note that the case of import will not
	require this validation.
VAL_ENT_REL_ FID_MID	F_ID, M_ID

# 3.5.2.5 UI duplicate validation

The response to the 2.1 requests that is performed by the ID Issuer to the Router also known as IRU event. This event as all events are limited to 6MB. This hard limit implies that the IRU message contains for the current ID Issuers specifications between 180 000 and 230 000 upUIs depending on the size and structure of the upUIs.

The online validation is limited to 50 000 UI against the billions of UI. In an effort to not reduce the size of the IRU to 50 000 Uis it has been decided to split the validation into online validation and offline validation.

IRU online validation will focus on the technical validation. The response to the IRU will be don within the SLA (60 sec)

IRU offline validation is performed just after the online validation and takes a few minutes. During the offline validation the Secondary repository checks the unicity of the UI against the complete database. In case of success, the IRU message is forwarded to the primary repository

A detection of duplicate UI is considered as exceptional event and is managed on an operational exception. Dentsu Operation team contacts the ID Issuer team in order to address the issue. The IRU will NOT BE

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FORWARDED to the primary repository in order to avoid any propagation of the duplicates by generating potential side effects on the primary repositories.

#### 3.5.2.6 Request sample

"EO\_ID":"QCUKR+1AB020054", "F\_ID": "QCUKR<1AB020054000049", "Event\_Time":"19032014", "Message\_Time\_Long":"2019-03-20T14:16:45Z", "Process\_Type":0, "M\_ID": "Machine Id A", "P\_Type":2, "P\_OtherType":null, "P\_CN": "FG7H68FHF" "P\_Brand": "Product brand A", "P\_Weight":10.0, "TP\_ID":"1234", "TP\_PN":"1234", "Intended\_Market":"BG", "Intended\_Route1":1, "Intended\_Route2":"BG", "Import":false, "Req\_Quantity":2, "upUI":["DANXXXXXXXXXX1PR0123456789","DANXXXXXXXXXXX2PR0123456789"], "Code": null, "Message\_Type":"IRU"

# 3.5.2.7 Successful response sample

HTTP Status 202

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "IRU",
    "RecallExpiry_Time":"19092014",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

# 3.5.2.8 Error response sample

Processi	ng errors	
HTTP status	Error Code	Error Description
	mon rosponso codo >>	

<< Common response code >>

EU Secondary Data Dictionary, Version 1.4.5 106 / 257 The information contained in these documents is **confidential**, privileged and only for the information of the intended recipient and may not be used, published or redistributed without the prior written consent of Dentsu Aegis Network.

400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_EOID
400	FID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_FID
400	MID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_MID
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_EOID
400	FID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_FID
400	MID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_MID
400	FID_NOT_RELATED_TO_EOID	VAL_ENT_REL_EOID_FID
400	MID_NOT_RELATED_TO_FID	VAL_ENT_REL_ FID_MID

Error body sample

{
"Code": null,
"Message_Type": null,
"Error": true,
"Errors": [
{
"Error_InternalID": "yndkFz7TBEO706frD38hzA",
"Error_Code": "INVALID_REQUEST_FORMAT",
"Error Descr": "The EconomicOperatorIdentifier field is required."
}
}

3.5.3 IRUD - Message to report the issuance of serial numbers at unit packet level callback

#### 3.5.3.1 Description

This IRUD callback message is a response to the original IRU message indicating the delivery status of IRU message.

#### Description of the fields 3.5.3.2

IRUD – request							
Field	Description	Data Type	Cardinality	Priority	Values		
Message_Ty pe	The identifier of the type of message	Text	S	М	Message_Type = IRUD		
IRU_Code	IRU recallCode		S	М			
IRU_Status	The status of the delivery of a specific IRU message	Boolean	S	М	0 – False 1 – True		
IRU_Status_ Description	Description of the status or the error message	Text	S	0			
Error	Indicates the failure of the message reception	Boolean	S	Μ	0 - No 1- Yes		
Errors	Array containing Error_Code, Error_Descr, InternalId	Text	S	M if Error = 1			

EU Secondary Data Dictionary, Version 1.4.5

#### 3.5.3.3 Response:

IRUD – response					
Field	Description	Data Type	Cardinality	Priority	Values
Message_Ty pe	The identifier of the type of message	Text	S	М	Message_Type = IRUD
Code	Unique identifier of the message. Used for recall too.	Text(50)	S	М	
Error	Indicates the failure of the message reception	Boolean	S	М	0 – No 1- Yes
Errors	Array containing Error_Code, Error_Descr, InternalId	Text	S	M if Error = 1	

#### 3.5.3.4 Request sample

{

"Code": "873345b2-882f-4064-91f0-90669b46c30b",

- "Message\_Type": "IRUD", "IRU\_Code": "873345b2-882f-4064-91f0-90669b46c30a"

"IRU\_Status": 0,

"IRU\_Status\_Description": "optional description",

- "Error": false, "Errors": null,

#### 3.5.3.5 Successful response sample

#### HTTP Status 200

```
{
  "Message_Type": "IRUD",
  "Code": "873345b2-882f-4064-91f0-90669b46c30a",
  "Error": false,
  "Errors": null,
  "Checksum": "G6HF5H"
```

}

# 3.5.4 ISA – (2.2) Request for aggregated level UIs

#### 3.5.4.1 Description

Request for reporting the issuance of serial numbers at aggregated level

#### 3.5.4.2 Description of the fields

request for reporting the issuance of serial numbers at aggregated level - request

EU Secondary Data Dictionary, Version 1.4.5

Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = ISA
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М	
F_ID	Facility identifier code	FID	S	М	
Req_Quantity	Requested quantity of aggregated level UIs	Integer	S	М	

#### 3.5.4.3 Response:

request for reporting the issuance of serial numbers at aggregated level – response					
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	Μ	Message_Type = ISA

#### 3.5.4.4 Request sample

```
{
    "EO_ID": "QCUKR+1AB020054",
    "F_ID": "QCUKR<1AB020054000049",
    "Req_Quantity": 2,
    "Message_Type": "ISA",
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
}</pre>
```

#### 3.5.4.5 Successful response sample

#### HTTP Status 202

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "ISA",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

#### *3.5.4.6 Error response sample*

# Processing errors HTTP status << Common response code >>

EU Secondary Data Dictionary, Version 1.4.5

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# 3.5.5 IRA – Request for reporting the issuance of serial numbers at aggregated level

#### 3.5.5.1 Description

Request for reporting the issuance of serial numbers at aggregated level

## 3.5.5.2 Description of the fields

request for reporting the issuance of serial numbers at aggregated level – request					
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = IRA
Event_Time	Intended time of event occurrence	Time(s)	S	М	
Message_Time_Long	Message sending Time	Time(L)	S	М	
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М	
F_ID	Facility identifier code	FID	S	М	
Req_Quantity	Requested quantity of aggregated level UIs	Integer	S	М	
aUI	List of aggregated level UIs	aUI	М	М	

#### 3.5.5.3 Response:

request for reporting the issuance of serial numbers at aggregated level – response					
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = IRA

#### 3.5.5.4 Business Validation

IRA (2.
---------

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Business rule validation	
Entity Validation	
VAL_ENT_EXIST_EOID	EO_ID
VAL_ENT_EXIST_FID	F_ID
VAL_ENT_ACTIVE_EOID	EO_ID
VAL_ENT_ACTIVE_FID	F_ID
VAL_ENT_REL_EOID_FID	EO_ID, F_ID
VAL_ENT_REL_ FID_MID	EO_ID, F_ID

#### 3.5.5.5 Request sample

{
 "EO\_ID": "QCUKR+1AB020054",
 "F\_ID": "QCUKR<1AB020054000049",
 "F\_ID": "QCUKR<1AB020054000049",
 "Event\_Time": "19032014",
 "Message\_Time\_Long": "2019-03-20T14:16:45Z",
 "Req\_Quantity": 2,
 "aUI": ["DANXXXXXXXXXXXIFA000001", "DANXXXXXXXXXZFA000001"],
 "Message\_Type": "IRA",
 "Code": "873345b2-882f-4064-91f0-90669b46c30a",
}</pre>

#### *3.5.5.6 Successful response sample*

#### HTTP Status 202

{
 "Code": "873345b2-882f-4064-91f0-90669b46c30a",
 "Message\_Type": "IRA",
 "Error": false,
 "Errors": null,
 "Checksum": "G6HF5H"
}

#### 3.5.5.7 Error response sample

HTTP status	Error Code	Error Description
<< Com	mon response code >>	
400	EOID NOT EXIST OR ACTIVE	VAL ENT EXIST EOID
400	FID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_FID
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_EOID
400	FID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_FID
400	FID_NOT_RELATED_TO_EOID	VAL_ENT_REL_EOID_FID

EU Secondary Data Dictionary, Version 1.4.5

#### 3.5.6 IDA – (2.3) Request for deactivation of UIs

#### 3.5.6.1 Description

Changes the status of the UIs listed in the request to "deactivated" The hierarchy below these UIs will be managed depending on the deactivation reason for the parent UI.

#### 3.5.6.1.1 Product deactivation

If the deactivation reason was  $Deact_Reason1 = 1$  (Product destroyed) or 2 (Product stolen) then the full hierarchy is deactivated.

Example of a Pallet product deactivation:

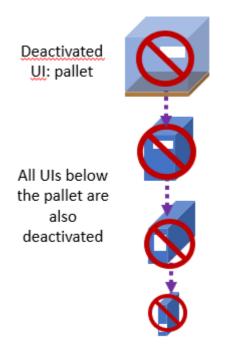


Figure 6 Implicit disaggregation triggered by a IDA Deact\_Reason1 = 1 or 2

#### 3.5.6.1.2

**UI** deactivation

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)

Note that in these cases the Deactivation will also trigger an implicit disaggregation.

Example of UI deactivation for a pallet

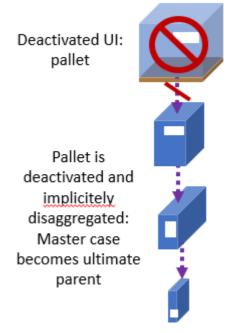


Figure 7 Implicit disaggregation triggered by an IDA Deact\_Reason1 = 3,4,5 or 6

#### 3.5.6.1.3

#### Deactivation upUI

The deactivation event 2.3 to allow the deactivation of the UI not only based on the upUI(s) but as well on the upUI(L) and upUI(L) without timestamp.

The receiving system (Primary repository, Router and Secondary repository) implements the existence validation on the different UI: upUI(s), upUI(L) and upUI(L) without timestamp.

#### Legal basis:

The message 2.3 is clearly structured to permit the deactivation of UIs at any moment of their lifecycle, including when UIs are unused, i.e. not applied. In this sense, the addition of different "representations" of the same UI will be a purely technical extension. To recall, Annex II enables you "to extend the message content for strictly technical purposes to secure smooth functioning of the tobacco products traceability system".

5.5.6.2 Description of the news						
	request for the deactivation of UIs – request					
Field	Description	Data Type	Cardinality	Priority	Values	
BasicInfo_Re q	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = IDA	
Event_Time	Intended time of event occurrence	Time(s)	S	М		
Message_Tim e_long	Message sending Time	Time(L)	S	М		
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М		
Deact_Type	Deactivation of unit packet or aggregated level UIs	Integer	S	М	1 – Unit pack level UIs 2 – Aggregated level UIs	
Deact_Reaso n1	Identification of the reason for deactivation	Integer	S	М	See DeactivationReas onType	
Deact_Reaso n2	Description of other reason	Text(5000)	S	M, if Deact_R eason1 = 6 (other reason)		
Deact_Reaso n3	Additional description of the reason	Text(Limited to the set of known deactivation_t ypes)	S	0		
Deact_upUI	List of unit packet level UIs to be deactivated	upUI(s) or upUI(L) or upUI(L) without timestamp	Μ	M, if Deact_Ty pe = 1		
Deact_aUI	List of aggregated level UIs to be deactivated	aUI	М	M, if Deact_Ty pe = 2		

#### 3.5.6.2 Description of the fields

## 3.5.6.3 Response:

request for the deactivation of UIs – response					
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	Μ	Message_Type = IDA

#### 3.5.6.1 Business Validation

	IDA (2.3)
Business rule validation	
UI creation	
VAL_UI_EXIST_APP	Deact_upUI,
VAL_UI_EXIST_UPUI_SEQ	Deact_upUI,
VAL_UI_EXIST_AUI_SEQ	Deact_aUI
Entity Validation	
VAL_ENT_EXIST_EOID	EO_ID
VAL_ENT_ACTIVE_EOID	EO_ID

EU Secondary Data Dictionary, Version 1.4.5

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Sequence Validation	
VAL_UI_ORD_DEACTIVATED	Deact_upUI, Deact_aUI

#### Automatic deactivation

The deactivation event (IDA 2.3) should be accepted (https status 200) for UI that have been expired (automatically deactivated)

#### 3.5.6.2 Implicit disaggregation trigger

The deactivation event can trigger an implicit disaggregation when a child UI is identified as part of the event.

#### *3.5.6.3 Request sample*

{
 "EO\_ID": "QCUKR+1AB020054",
 "Event\_Time": "19032014",
 "Message\_Time\_Long":"2019-03-20T14:16:45Z",
 "Deact\_Type": 1,
 "Deact\_Reason1": 1,
 "Deact\_Reason2": "reason one",
 "Deact\_Reason3": "reason two",
 "Deact\_upUI": [ "DANXXXXXXXXX1PR0123456789" ],
 "Deact\_apUI": [],
 "Message\_Type": "IDA",
 "Code": "873345b2-882f-4064-91f0-90669b46c30a",
}

#### 3.5.6.4 Successful response sample

HTTP Status 202

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "IDA",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

#### 3.5.6.5 Error response sample

Process	Processing errors						
HTTP	Error Code	Error Description					
status							
	mon response code >>						
400	UIS_APPLICATION_ERROR	VAL_UI_EXIST_APP					
400	UI_NOT_EXIST	VAL_UI_EXIST_UPUI_SEQ					
400	UI_NOT_EXIST	VAL_UI_EXIST_AUI_SEQ					
<mark>400</mark>		VAL_ENT_EXIST_EOID					
<mark>400</mark>		VAL_ENT_ACTIVE_EOID					

EU Secondary Data Dictionary, Version 1.4.5

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|--|

3.5.7 ICM – Validate the delivery of an IRU message.

#### 3.5.7.1 Description

This optional message allows the ID Issuer to retrieve the state of the delivery of a specific IRU message.

#### 3.5.7.2 Description of the fields

Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = ICM
IRU_Code	IRU recallCode		S	Μ	

#### *3.5.7.3 Response:*

Validate the delivery of an IRU response							
Field	Description	Data Type	Cardinality	Priority	Values		
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = ICM		
IRU_Code	IRU recallCode		S	М			
IRU_Status	The status of the delivery of a specific IRU message	Boolean	S	М	0 – False 1 – True		
IRU_Status_Description	Description of the status or the error message	Text	S	О			

#### 3.5.7.4 Request sample

{ "Message\_Type":"ICM" "IRU\_Code": "873345b2-882f-4064-91f0-90669b46c30a" }

EU Secondary Data Dictionary, Version 1.4.5

#### 3.5.7.5 Successful response sample

#### HTTP Status 202

{
 "Code": "873345b2-882f-4064-91f0-90669b46c30b",
 "Message\_Type": "ICM",
 "IRU\_Code": "873345b2-882f-4064-91f0-90669b46c30a"
 "IRU\_Status": 0,
 "IRU\_Status\_Description": "optional description",
 "Error": false,
 "Errors": null,
 "Checksum": "G6HF5H"
}

#### 3.5.7.6 Error response sample

Processing errors							
HTTP	Error Code	Error Description					
status							
<< Com	mon response code >>						

#### 3.6 Reporting operational events (product movement information)

# 3.6.1 EUA – (3.1) Application of unit level UIs on unit packets 3.6.1.1 Description

Event notification when the code is applied / printed on unit packets.

upUI application event						
Field	Description	Data Type	Cardinality	Priority	Values	
BasicInfo_Re q	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = EUA	
Event_Time	Intended time of event occurrence	Time(s)	S	М		
Message_Tim e_long	Message sending Time	Time(L)	S	М		
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М		
F_ID	Facility identifier code	FID	S	М		
upUI_1	List of unit packet level UIs to be recorded (full length)	upUI(L)	М	М		
upUI_2	List of corresponding unit packet level UIs to be recorded (as visible in human readable format) indicated in the same order as upUI_1	upUI(s)	М	М		
upUI_comme nt	Comments by the reporting entity	Text(5000)	S	0		

#### 3.6.1.2 Description of the fields

#### 3.6.1.3 Business validation

	EUA (3.1)
Technical validation	
VAL_UI_MULT_MSG	upUI_1, upUI_2
Business rule validation	
UI creation	
VAL_UI_EXIST_APP	upUI_1
VAL_UI_DUPLICATE_APP	upUI_1
VAL_UI_EXPIRY	upUI_1
Entity Validation	
VAL_ENT_EXIST_EOID	EO_ID
VAL_ENT_EXIST_FID	F_ID
VAL_ENT_ACTIVE_EOID	EO_ID
VAL_ENT_ACTIVE_FID	F_ID
Sequence Validation	
VAL_UI_FID_APP	F_ID with information for upUI_1
VAL_UI_ORD_REACTIVATION	upUI_1
Message Timing	
VAL_EVT_24H	Event_Time

EU Secondary Data Dictionary, Version 1.4.5

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#### *3.6.1.4 Sequence validation*

The following table represents the authorized transitions for a UI and specifically the previous message for the UI.

	IRU 2.1
Message Received	
EUA 3.1	Yes
EUA 3.1 Import	Yes

No	Next message not allowed for the UI (including different aggregation
Yes	Next Message allowed
Yes (with Location	
Validation)	Next Message allowed with location validation

# The EUA (3.1) application event must be preceded by an IRU event that reports the issued UIs.

#### 3.6.1.5 Response:

upUI application event – response						
Field	Description	Data Type	Cardinality	Priorit Y	Values	
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	Μ	Message_Type = EUA	

#### *3.6.1.6 Request sample*

{
"EO_ID": "QCUKR+1AB020054",
"F_ID": "QCUKR<1AB020054000049",
"Event_Time": "19032014",
"Message_Time_Long":"2019-03-20T14:16:45Z",
"upUI_1": [
"DANXXXXXXXXXX1PR012345678919030110",
"DANXXXXXXXXXX2PR012345678919030110"
],
"upUI_2": [
"DANXXXXXXXXXX1PR012345678919030110",
"DANXXXXXXXXXX2PR012345678919030110"
],
"upUI_comment": "Comments",
"Message_Type": "EUA",
"Code": "873345b2-882f-4064-91f0-90669b46c30a",
}

#### *3.6.1.7 Successful response sample*

EU Secondary Data Dictionary, Version 1.4.5 119 / 257 The information contained in these documents is **confidential**, privileged and only for the information of the intended recipient and may not be used, published or redistributed without the prior written consent of Dentsu Aegis Network.

#### HTTP Status 202

{ "Code": "873345b2-882f-4064-91f0-90669b46c30a", "Message\_Type": "EUA", "Error": false, "Errors": null, "Checksum": "G6HF5H" }

#### 3.6.1.8 Error response sample

HTTP status	Error Code	Error Description
<< Com	mon response code >>	
400	MULTIPLE_UID	VAL_UI_MULT_MSG
400	UIS_APPLICATION_ERROR	VAL_UI_EXIST_APP
400	UIS_APPLICATION_ERROR	VAL_UI_DUPLICATE_APP
400	UI_NOT_EXIST	VAL_UI_EXPIRY
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_EOID
400	VAL_ENT_EXIST_FID	VAL_ENT_EXIST_FID
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_EOID
400	VAL_ENT_EXIST_FID	VAL_ENT_ACTIVE_FID
400	FID_MISMATCH	VAL_UI_FID_APP
400	UI_DEACTIVATED	VAL_UI_ORD_REACTIVATION
299	OPERATION_WITHIN_24_HOURS	VAL_EVT_24H

#### 3.6.2 EPA – (3.2) Application of aggregated level UIs on aggregated packaging

#### 3.6.2.1 Description

Event notification when the code is applied / printed on an aggregation container. This also records the items that are aggregated into this container.

Application of aggregated level UIs on aggregated packaging - request						
Field	Description	Data Type	Cardinality	Priority	Values	
BasicInfo_Re q	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = EPA	
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М		
F_ID	Facility identifier code	FID	S	М		
Event_Time	Time of event occurrence	Time(s)	S	М		
Message_Tim e_long	Message sending Time	Time(L)	S	М		
aUI	Aggregated level UI	aUI	S	М		

#### 3.6.2.2 Description of the fields

EU Secondary Data Dictionary, Version 1.4.5

	Application of aggregated level UIs on aggregated packaging - request							
Field	Description	Data Type	Cardinality	Priority	Values			
Aggregation_ Type	Identification of aggregation type	Integer	S	Μ	<ol> <li>aggregation of only unit packet level UIs</li> <li>aggregation of only aggregated level UIs</li> <li>aggregation of both unit packet and aggregated level UIs</li> </ol>			
Aggregated_ UIs1	List of unit packet level UIs subject to aggregation	upUI(L)	М	M, if Aggregat ion_Type = 1 or 3				
Aggregated_ UIs2	List of aggregated level UIs subject to further aggregation	aUI	М	M, if Aggregat ion_Type = 2 or 3				
aUI_commen t	Comments by the reporting entity	Text(5000)	S	0				
Information	Indicates the request of additional optional information	Boolean	S	0	0 – No 1- Yes			

#### 3.6.2.3 Business validation

	EPA (3.2)
Technical validation	
VAL_UI_MULT_MSG	aUI, Aggregated_UIs1
VAL_FIE_REF	aUI, Aggregated_UIs1. Error Descr for Circular Reference issue: The message contains UI values that form a circular reference
Business rule validation	
UI creation	
VAL_UI_EXIST_UPUI	Aggregated_UIs1
VAL_UI_EXIST_AUI	aUI, Aggregated_UIs2
VAL_UI_EXIST_UPUI_SEQ	Aggregated_UIs1
VAL_UI_EXIST_AUI_SEQ	Aggregated_UIs2
VAL_UI_EXPIRY	aUI, Aggregated_UIs1
Entity Validation	
VAL_ENT_EXIST_EOID	EO_ID
VAL_ENT_EXIST_FID	F_ID
VAL_ENT_ACTIVE_EOID	EO_ID
Sequence Validation	
VAL_UI_ORD_DEACTIVATED	aUI, Aggregated_UIs2
VAL_UI_ORD_AGG_MULT	aUI, Aggregated_UIs2
VAL_UI_ORD_IMPLDISAGG	aUI, Aggregated_UIs2
VAL_UI_ORD_AGG_FID	F_ID for Aggregated_UIs1 and Aggregated_UIs2
Message Timing	
VAL_EVT_24H	Event_Time

EU Secondary Data Dictionary, Version 1.4.5 121 / 257 The information contained in these documents is **confidential**, privileged and only for the information of the intended recipient and may not be used, published or redistributed without the prior written consent of Dentsu Aegis Network.

### 3.6.2.4 Sequence Validation

					EPA				
				EPA	3.2				
			EUA	3.2	parent	EPA			
	IRA	EUA	3.1	parent	UI	3.2	ERP	ERP 3.4	EUD
	2.2	3.1	Import	UI	Import	Child	3.4	(Return)	3.6
Message Received									
EPA 3.2 parent UI	Yes	No	No	No	No	No	No	No	Yes
EPA 3.2 child UI (upUI)	No	Yes	Yes	No	No	Yes	Yes	Yes	No
EPA 3.2 child UI (aUI)	No	No	No	Yes	Yes	Yes	Yes	Yes	No

The following table represents the authorized transitions for a UI and specifically the previous message for the UI.

No
Yes
Yes (with Location
Validation)

Next message not allowed for the UI (including different aggregation Next Message allowed

Next Message allowed with location validation

A parent aUI can be

- Self generated parent UI. This event will correspond to the initial commissioning of the aUI.
- ID Issuer generated aUI reported using an IRA (2.2) event.
- As a aUI that is re-used. This aUI must be preceeded by a EUD (3.6) (explicit) disaggregation event. Note that in the case of a reuse, the location validation is not performed. In other words, the aUI can be re aggregated in any location.

A Child UI can be reported if it is present in the location of the aggregation.

- A upUI can be applied, following a EUA (3.1) event.
- A upUI can be present in the location following a disaggregation event of a previous aggregation.
- An aUI can be present in the location following a disaggregation event of a previous aggregation where it was reported as child UI.
- A upUI or aUI that are still part of a valid aggregation as child UIs. The reporting of the aggregation event will trigger an implicit disaggregation of the initial aggregation.
- A upUI or aUI that are arrived ERP (3.4) event.

EU Secondary Data Dictionary, Version 1.4.5

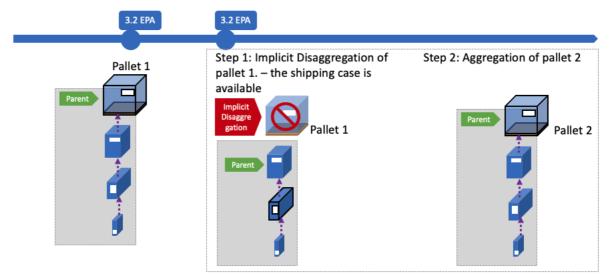
Location validation on the child UI Is performed for the aggregation as these UI should be in the location of the aggregation.

## 3.6.2.4.1 Import

Location validation exception for Imports Due to the fact that product movement outside of the EU are not subject to being reported into the EU tobacco track and trace system (i.e. Dispatch/Arrivals), in the event that an Economic Operator requires to modify the hierarchy of the goods before the import into EU, there will be Aggregation (3.2 – EPA) and Disaggregation (3.6 – EUD) messages on different locations (Facility IDs) without a Dispatch/Arrival movement between them. For these cases, the Location validation (VAL\_UI\_ORG\_AGG\_FID) will not be applicable (so all products BEFORE the first Arrival 3.4 into the EU may be modified in terms of their logistic hierarchy).

#### 3.6.2.5 Implicit disaggregation trigger

This event can trigger an implicit disaggregation when a child UI is identified as part of the event.



Example: Implicit Disaggregation occurring when re-Aggregating

Figure 8 Implicit disaggregation triggered by an EPA (3.2) event

The second aggregation event (EPA 3.2) result in the creation of the new pallet with the same content as pallet 1 that is implicitly disaggregated.

#### 3.6.2.6 Response: Application of aggregated level UIs on aggregated packaging - response Priorit Field Data Type Cardinality Values Description y Component << Block of basic Basic BasicInfo\_Resp S Μ $Message_Type = EPA$ information elements Information Response >> Component << Additional optional Basic Basic Information acknowledgment S 0 Information Block Information Block >>

#### 3.6.2.7 Request sample

#### 3.6.2.8 Successful response sample

#### HTTP Status 202

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "EPA",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

#### 3.6.2.9 Error response sample

HTTP status				
<< Cor	nmon response code >>			
400	UIS_APPLICATION_ERROR	VAL_UI_EXIST_UPUI		
400	UI_NOT_EXIST	VAL_UI_EXIST_AUI		
400	UI_NOT_VALID	VAL_UI_EXIST_UPUI_SEQ		
400	UI_NOT_EXIST	VAL_UI_EXIST_AUI_SEQ		

EU Secondary Data Dictionary, Version 1.4.5

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400	UI_EXPIRED	VAL_UI_EXPIRY
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_EOID
400	FID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_FID
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_EOID
400	FID_NOT_EXIST_OR_ACTIVE	VAL_UI_ORD_DEACTIVATED
400	MULTIPLE_AGGREGATION	VAL_UI_ORD_AGG_MULT
400	UI_ALREADY_DISAGGREGATED	VAL_UI_ORD_IMPLDISAGG
400	LOCATION_MISMATCH	VAL_UI_ORD_AGG_FID
299	OPERATION_WITHIN_24_HOURS	VAL_EVT_24H
400	FAILED_VALIDATION	VAL_FIE_REF

# 3.6.3 EDP – (3.3) Dispatch of tobacco products from a facility

3.6.3.1 Description

Record that the UIs listed in the call have been dispatched from the economic identifier.

Dispatch of tobacco products from a facility event							
Field	Description	Data Type	Cardinality	Priority	Values		
BasicInfo_Req	Block of basic information elements	Componen t << Basic Informatio n Request >>	S	М	Message_Type = EDP		
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М			
Event_Time	Time of event occurrence	Time (s)	S	М			
Message_Time_long	Message sending Time	Time (L)	S	М			
F_ID	Dispatch facility identifier code	FID	S	М			
Destination_ID1	Indication if the destination facility is located on the EU territory and if it is a vending machine (VM)	Integer	S	М	<ul> <li>1 - Non EU</li> <li>dest.</li> <li>2 - EU</li> <li>destination</li> <li>other than VM</li> <li>- fixed</li> <li>quantity</li> <li>delivery</li> <li>3 - EU VM(s)</li> <li>4 - EU</li> <li>destination</li> <li>other than VM</li> <li>- delivery with</li> <li>VV</li> </ul>		
Destination_ID2	Destination facility identifier code	FID	S	M, if Destinati on_ID1 = 2			
Destination_ID3	Destination facility identifier code(s) – possible multiple vending machines	FID	M (limited to 1000 FID)	M, if Destinati on_ID1 = 3			

## 3.6.3.2 Description of the fields

EU Secondary Data Dictionary, Version 1.4.5

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	Dispatch of tobacco p				
Field	Description	Data Type	Cardinality	Priority	Values
Destination_ID4	Destination id facility codes	FID	M (limited to 1000 FID)	M, if Destinati on_ID1 = 4	
Destination_ID5	Destination facility's full address	Text(5000)	S	M, if Destinati on_ID 1 = 1	
Destination_ID5_Addre ss_Name	Destination facility's full address - Name part of the Address	Text(5000)	S	0	
Destination_ID5_Addre ss_StreetOne	Destination facility's full address - Street part of the Address	Text(5000)	S	M, if Destinati on_ID 1 = 1	
Destination_ID5_Addre ss_StreetTwo	Destination facility's full address - Second Element of the Street part of the Address	Text(5000)	S	0	
Destination_ID5_Addre ss_City	Destination facility's full address - City	Text(5000)	S	M, if Destinati on_ID 1 = 1	
Destination_ID5_Addre ss_PostCode	Destination facility's full address - PostalCode information	Text(5000)	S	0	
Transport_mode Mode of transport by which the product leaves the facility, see: Commission Regulation (EC) No 684/2009, Annex II, Code List 7		Integer	S	М	See TransportMode section Error! Reference source not found.
Transport_vehicle	Identification of the mode of transport (i.e. number plates, train number, plane/flight number, ship name or other identification)	Text(5000)	S	Μ	'n/a' is permitte value if Transport_mod = 0 and produc movement take place between adjacent facilitie and is delivered manually
Transport_cont1	Indication if the transport is containerised and uses an individual transport unit code (e.g. SSCC)	Boolean	S	Μ	0 - No 1 - Yes
Transport_cont2	Individual transport unit code of the container	ITU	S	M, if Transpor t_cont1 = 1	
Transport_s1	Indication if the dispatch takes place with the logistic/postal operator who operates its own track and trace system accepted by the Member State of the dispatch facility. Only for small quantities of tobacco products (net weight of the products dispatched below 10	Boolean	S	M	0 - No 1 - Yes

EU Secondary Data Dictionary, Version 1.4.5 126 / 257 The information contained in these documents is **confidential**, privileged and only for the information of the intended recipient and may not be used, published or redistributed without the prior written consent of Dentsu Aegis Network.

	Dispatch of tobacco products from a facility event							
Field	Description	Data Type	Cardinality	Priority	Values			
	exports to third countries							
Transport_s2	The logistic operator's tracking number	Text(5000)	S	M, if Transpor t s1 = 1				
EMCS	Dispatch under the Excise Movement and Control System (EMCS)	Dispatch under the Boolean S Excise Movement and		M	0 – No 1 – Yes			
EMCS_ARC	Administrative Reference Code (ARC)	ARC	S	M, if EMCS = 1				
SAAD	AD Dispatch with a simplified accompanying document, see: Commission Regulation (EEC) No 3649/92		S	М	0 – No 1 – Yes			
SAAD_number	AAD_number Reference number of the declaration and/or authorization which has to be given by the competent authority in the Member State of destination before the		S	M, if SAAD = 1				
Exp_Declaration	movement starts iration Indication if the Bo Movement Reference Number (MRN) has been issued by the customs office		S	М	0 – No 1 – Yes			
Exp_ DeclarationNumber	Movement Reference Number (MRN)	MRN	S	M, if Exp_Decl aration = 1				
UI_Type	UI_Type Identification of UI types in the dispatch (recorded at the highest level of available aggregation)		S	M	1 – only unit packet level UIs 2 – only aggregated level UIs 3 – both unit packet and aggregated level UIs			
upUIs	List of unit packet level UIs subject to the dispatch	upUI(L)	М	M, if UI_Type = 1 or 3				
aUIs	List of aggregated level UIs subject to the dispatch	aUI	М	M, if UI_Type = 2 or 3				
Dispatch_comment	Comments by the reporting entity	Text(5000)	S	0				
Information	Indicates the request of additional optional information	Boolean	S	0	0 – No 1- Yes			

#### 3.6.3.3 Business validation

	EDP (3.3)
Technical validation	
VAL_MSG_JSON	EXCISE_NUMBER_NOT_VALID
VAL_UI_MULT_MSG	upUIs, aUIs

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Business rule validation	
UI creation	
VAL_UI_EXIST_UPUI	upUIs
VAL_UI_EXIST_AUI	aUIs
VAL_UI_EXIST_UPUI_SEQ	upUIs
VAL_UI_EXIST_AUI_SEQ	aUIs
Entity Validation	
VAL_ENT_EXIST_EOID	EO_ID
VAL_ENT_EXIST_FID	F_ID, Destination_ID2, Destination_ID3, Destination_ID4
VAL_ENT_ACTIVE_EOID	EO_ID
VAL_ENT_ACTIVE_FID (Router only)	F_ID, Destination_ID2, Destination_ID3, Destination_ID4
Sequence Validation	
VAL_UI_ORD_DEACTIVATED	upUIs, aUIs
VAL_UI_ORD_DISAGG	aUIs
VAL_UI_ORD_IMPLDISAGG	aUIs
VAL_UI_ORD_DISPATCH	upUIs, aUIs
Message Timing	
VAL_EVT_TIME	Event_Time

#### *3.6.3.4 Sequence validation*

The following table represents the authorized transitions for a UI and specifically the previous message for the UI.

The type of the Dispatch event 3.3 EDP refers to the Destination\_ID1 field.

- Type 1 Non EU dest.
- Type 2 EU destination other than VM fixed quantity delivery
- Type 3 EU VM(s)
- Type 4 EU destination other than VM delivery with VV

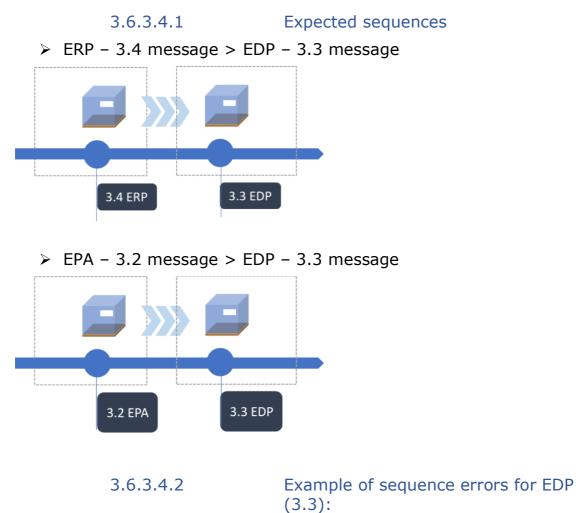
	EUA 3.1	EUA 3.1 Import	EPA 3.2 parent UI	EPA 3.2 parent UI Import	EPA 3.2 Child	ERP 3.4	ERP 3.4 (Return)
Message Received							
EDP 3.3 Export (type 1)	Yes	No	Yes	No	Yes	Yes	Yes
EDP 3.3 (type 2)	Yes	No	Yes	No	Yes	Yes	Yes
EDP 3.3 VM (type 3)	Yes	No	Yes	No	Yes	Yes	Yes
EDP 3.3 VV (type 4)	Yes	No	Yes	No	Yes	Yes	Yes

No Yes Yes (with Location Validation) Next message not allowed for the UI (including different aggregation Next Message allowed

Next Message allowed with location validation

EU Secondary Data Dictionary, Version 1.4.5

Products can be dispatched from a location only if they have been applied (EUA 3.1) or aggregated (EPA 3.2) in that specific location or if they have been previously reported as arrived in that location. This means that Dispatch events should follow an Arrival, an Aggregation or an Application message, and the origin of the Dispatch must correspond to the location of previous Arrival, Aggregation or Application event.

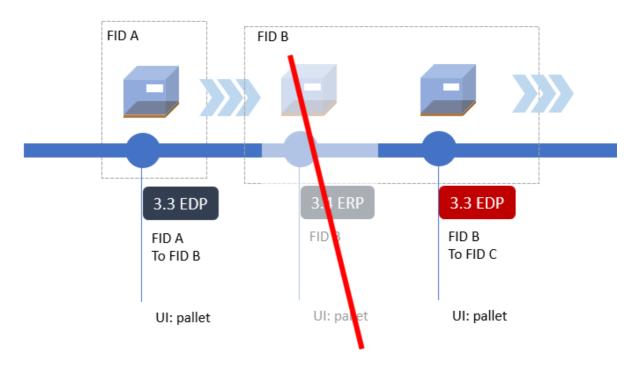


• UI\_SEQUENCE\_ERROR:

The error is generated when UIs scanned at Dispatch are not part of a prior Delivery/Arrival, Aggregation or Application message. The UIs are considered as "in transit" and cannot be dispatched again. The prior Delivery/Arrival of the UIs in the location might have not be reported or the UIs might have already been dispatched from the location.

Example of EDP (3.3) with prior ERP (3.4) not reported:

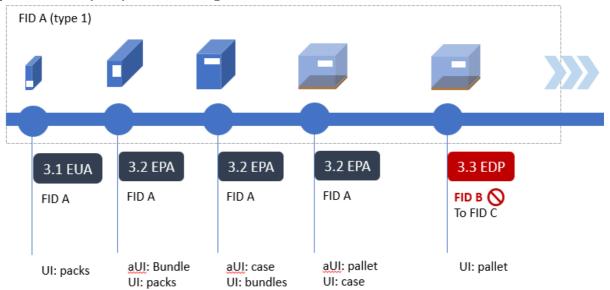
EU Secondary Data Dictionary, Version 1.4.5



• LOCATION\_MISMATCH

The error is generated when the facility of origin of the Dispatch does not match the current location of the UIs reported in the Dispatch message. There might have been a misreporting in the previous Delivery/Arrival messages leading to a wrong location of the UIs or the current Dispatch does not report the correct facility of origin.

Example of EDP (3.3) with wrong FID:



Import scenario

# The imported goods that have been applied and aggregated require to be part of an Arrival (ERP 3.4) event.

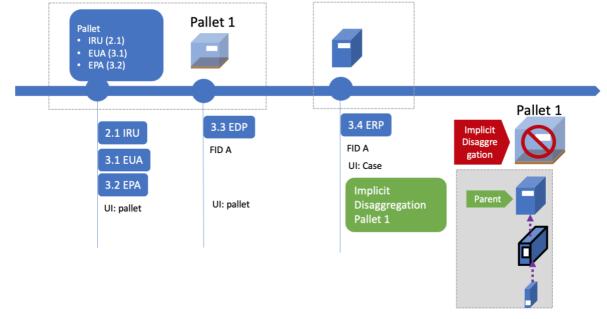
EU Secondary Data Dictionary, Version 1.4.5

3.6.3.4.3

### 3.6.3.5 Implicit disaggregation trigger

This event can trigger an implicit disaggregation when a child UI is identified as part of the event.

Example of an Implicit Disaggregation occurring when Dispatching



#### 3.6.3.6 Response:

Response:

Dispatch event – response						
Field	Description	Data Type	Cardinality	Priorit Y	Values	
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	Μ	Message_Type = EDP	
Basic Information Block	Additional optional acknowledgment Information	Component << Basic Information Block >>	S	0		

#### 3.6.3.7 Request sample

{
 "EO\_ID": "QCUKR+1AB020054",
 "F\_ID": "QCUKR<1AB020054000049",
 "Event\_Time": "19032014",
 "Message\_Time\_Long":"2019-03-20T14:16:45Z",
 "Destination\_ID1": "1",
 "Destination\_ID2": "FacilityIdB",
 "Destination\_ID3": [ " FacilityIdB ", " FacilityIdB " ],
EU Secondary Data Dictionary, Version 1.4.5</pre>



"Destination_ID4": [ " FacilityIdB" ], "Destination_ID5": "FacilityIdA",
"Transport_vehicle": "1",
"Transport_cont1": 1,
"Transport_cont2": "1",
"Transport s1": 1,
"Transport_s2": "1",
"EMCS": false,
"EMCS_ARC": null,
"SAAD": 1,
"SAAD_number": 1,
"Exp_Declaration": 1,
"Exp_DeclarationNumber": 1,
"UI_Type": 3,
"upUIs": [ "DANXXXXXXXXXXX1PR012345678919030110",
"DANXXXXXXXXXXXX2PR012345678919030110" ],
"aUIs": [ "DANXXXXXXXXXXX1FA00000119030110" ],
"Dispatch_comment": "Comments",
"Message_Type": "EDP",
"Code": "873345b2-882f-4064-91f0-90669b46c30a"
}

#### 3.6.3.8 Successful response sample

#### HTTP Status 202

}

{ "Code": "873345b2-882f-4064-91f0-90669b46c30a", "Message\_Type": "EDP", "Error": false, "Errors": null, "Checksum": "G6HF5H"

#### 3.6.3.9 Error response sample

Processing errors				
HTTP status				
<< Com	mon response code >>			
400	EXCISE_NUMBER_NOT_VALID	VAL_FIE_FORMAT		
400	MULTIPLE_UID	VAL_UI_MULT_MSG		
400	UI_NOT_EXIST UI_NOT_VALID	VAL_UI_EXIST_UPUI		
400	UI_NOT_EXIST	VAL_UI_EXIST_AUI		
400	UI_NOT_VALID	VAL_UI_EXIST_UPUI_SEQ		
400	UI_NOT_EXIST	VAL_UI_EXIST_AUI_SEQ		
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_EOID		
400	FID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_FID		
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_EOID		
400	FID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_FID (Router only)		
400	UI_DEACTIVATED	VAL_UI_ORD_DEACTIVATED		
400	UI_ALREADY_DISAGGREGATED	VAL_UI_ORD_DISAGG or VAL_UI_ORD_IMPLDISAGG		
400	LOCATION_MISMATCH	VAL_UI_ORD_DISPATCH		

EU Secondary Data Dictionary, Version 1.4.5

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299	SHIPMENT_WITHIN_24_HOURS	VAL_EVT_TIME
400	UI_SEQUENCE_ERROR	VAL_UI_ORD_SEQUENCE

#### 3.6.4 ERP – (3.4) Arrival of tobacco products at a facility

3.6.4.1 Description

Record that the UIs listed in the call have been received to an economic identifier.

Arrival of tobacco products at a facility						
Field	Description	Data Type	Cardinal ity	Priority	Values	
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = ERP	
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М		
F_ID	Arrival facility identifier code	FID	S	М		
Event_Time	Time of event occurrence	Times(s)	S	М		
Message_Time_I ong	Message sending Time	Times(L)	S	М		
Product_Return	Indication if the arriving products are a return following complete or partial non-delivery	Boolean	S	Μ	0 – No 1 – Yes	
UI_Type	Identification of UI types received (recorded at the highest level of available aggregation)	Integer	S	Μ	1 – only unit packet level UIs 2 – only aggregated level UIs 3 – both unit packet and aggregated level UIs	
upUIs	List of unit packet level UIs received	upUI(L)	М	M, if UI_Type = 1 or 3		
aUIs	List of aggregated level UIs received	aUI	М	M, if UI_Type = 2 or 3		
Arrival_commen t	Comments by the reporting entity	Text	S	0		
Information	Indicates the request of additional optional information	Boolean	S	0	0 – No 1- Yes	

#### 3.6.4.2 Description of the fields

## 3.6.4.3 Business Validation

	ERP (3.4)
Technical validation	
VAL_UI_MULT_MSG	upUIs , aUIs
Business rule validation	
UI creation	
VAL_UI_EXIST_UPUI	upUIs
VAL_UI_EXIST_AUI	aUIs

EU Secondary Data Dictionary, Version 1.4.5

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VAL_UI_EXIST_UPUI_SEQ	upUIs
VAL_UI_EXIST_AUI_SEQ	aUIs
Entity Validation	
VAL_ENT_EXIST_EOID	EO_ID
VAL_ENT_EXIST_FID	F_ID
VAL_ENT_ACTIVE_EOID	EO_ID
Sequence Validation	
VAL_UI_ORD_DEACTIVATED	upUIs, aUIs
VAL_UI_ORD_DISAGG	aUIs
VAL_UI_ORD_IMPLDISAGG	aUIs
VAL_UI_ORD_ARRIVAL	upUIs, aUIs
VAL_UI_ORD_ARRIVAL_RETURN	upUIs, aUIs

#### *3.6.4.4 Sequence validation*

The following table represents the authorized transitions for a UI and specifically the previous message for the UI.

Message Received	EUA 3.1 Import	EPA 3.2 parent UI Import	EDP 3.3 (type 1) Export	EDP 3.3 (type 2)	EDP 3.3 (types 3) VM	EDP 3.3 (type 4) VV	ETL 3.5	ETL 3.5 Export	EVR 3.7
ERP 3.4	Yes	Yes	No	Yes	No	No	Yes	No	No
ERP 3.4 (Return)	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes

No
Yes
Yes (with Location
Validation)

Next message not allowed for the UI (including different aggregation Next Message allowed

Next Message allowed with location validation

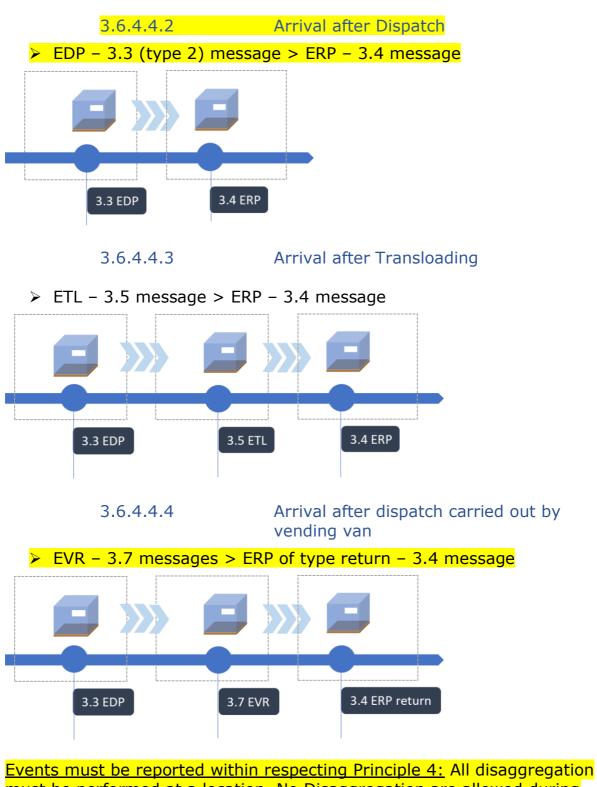
The type return of the ERP (3.4) is based on the Product\_Return field

- 0 No
- 1– The arrival is a type return

Events must be transmitted in sequence: Arrivals are expected to be reported in proper events sequence, following a dispatch, a transloading, or as a (partial) return from Vending Van delivery or from retail outlets.

3.6.4.4.1 Import scenario In the case of Imported good, the newly applied (EUA 3.1) or aggregated (EPA 3.2) UIs must be part of an arrival event.

EU Secondary Data Dictionary, Version 1.4.5



Events must be reported within respecting Principle 4: All disaggregation must be performed at a location. No Disaggregation are allowed during the transport.

<u>Events must be reported within respecting Principle 5:</u> The reporting on the Arrival should be done on the same UI that have been reported during the Dispatch/Transloading process. This is a consequence of Principle 4. This means that an Arrival Event that contains child UI of UI reported

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during the Dispatch/Transloading Event will be rejected. The same UI must be reported.

Exception to principle 5: Arrival of type return can be reported at a different level than the previous dispatch/transloading/delivery with VV

3.6.4.4.5 Arrival of type return The Arrival of type return is the proper reporting event for exported goods, goods in transit (dispatched or in transloading)

3.6.4.4.6	Examples of sequen	ce errors for ERP
	(3.4)	

ARRIVAL\_NOTALLOWED

The error is generated because UIs in the Arrival message were not part of a previous EDP (3.3) or ETL (3.5) message. The previous Economic Operator should be contacted to verify its message of Dispatch/Transloading.

Note: in case of product return, the ERP (3.4) can be reported after an EVR (3.7), this will not trigger ARRIVAL\_NOTALLOWED.

Example of ERP (3.4) rejected because the previous EDP (3.3) has not been reported:

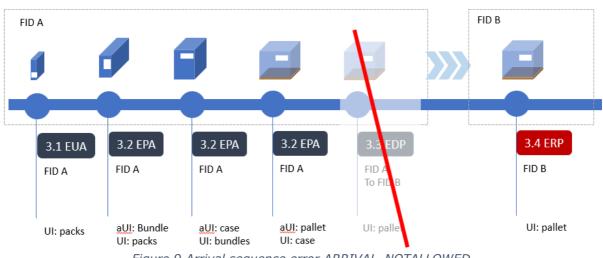


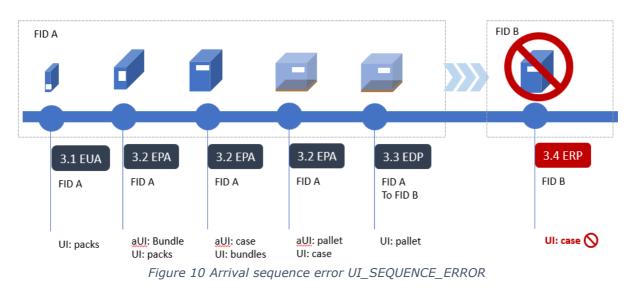
Figure 9 Arrival sequence error ARRIVAL\_NOTALLOWED

#### UI\_SEQUENCE\_ERROR

The error is generated when UIs scanned at Arrival are not the same that the ones scanned in the prior Dispatch/Transloading event. According to principle 5, the UIs must be scanned at Arrival at the highest level of aggregation, before being implicitly or explicitly disaggregated. If the error is generated when Arrival is reported at the highest available aggregation level, the previous Economic Operator should be contacted to verify at which level it reported Dispatch/Transloading.

EU Secondary Data Dictionary, Version 1.4.5 137 / 257 The information contained in these documents is **confidential**, privileged and only for the information of the intended recipient and may not be used, published or redistributed without the prior written consent of Dentsu Aegis Network. Exception: Arrivals of type return will not generate this error because implicit disaggregation is allowed for them

Example of ERP (3.4) rejected because it is not reported at the right level of aggregation:



3.6.4.5 Implicit disaggregation trigger The Arrival of type Return (Product\_Return = "true") ERP (3.4) can trigger an implicit disaggregation when a child UI is identified as part of the event.

Note that an arrival message that contains a child UI will cause a sequence validation error UI\_SEQUENCE\_ERROR if the Product\_Return flag is set to false.

3.6.4.6	6 Response:					
Arrival of tobacco products at a facility – response						
Field	Description	Data Type	Cardinality	Priorit Y	Values	
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = ERP	
Basic Information Block	Additional optional acknowledgment Information	Component << Basic Information Block >>	S	0		

## 3.6.4.7 Request sample

{ "EO\_ID": "QCUKR+1AB020054",

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```
"F_ID": "QCUKR<1AB020054000049",
"Event_Time": "19032014",
"Message_Time_Long": "2019-03-20T14:16:45Z",
"Product_Return": "true",
"UI_Type": "1",
"upUIs": [ "DANXXXXXXXXX1PR012345678919030110","
DANXXXXXXXXXX2PR012345678919030110"],
"aUIs": [ "DANXXXXXXXXX1PR012345678919030110"],
"Arrival_comment": "Comments",
"Message_Type": "ERP",
"Code": "873345b2-882f-4064-91f0-90669b46c30a"
}
```

#### 3.6.4.8 Successful response sample

#### HTTP Status 202

{

"Code": "873345b2-882f-4064-91f0-90669b46c30a", "Message\_Type": "ERP", "Error": false, "Errors": null, "Checksum": "G6HF5H"

#### 3.6.4.9 Error response sample

HTTP status	Error Code	Error Description
<< Com	mon response code >>	
400	MULTIPLE_UID	VAL_UI_MULT_MSG
400	UI_NOT_EXIST UI_NOT_VALID	VAL_UI_EXIST_UPUI
400	UI_NOT_EXIST	VAL_UI_EXIST_AUI
400	UI_NOT_VALID	VAL_UI_EXIST_UPUI_SEQ
400	UI_NOT_EXIST	VAL_UI_EXIST_AUI_SEQ
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_EOID
400	FID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_FID
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_EOID
400	UI_DEACTIVATED	VAL_UI_ORD_DEACTIVATED
400	UI_ALREADY_DISAGGREGATED	VAL_UI_ORD_DISAGG or VAL_UI_ORD_IMPLDISAGG
400	ARRIVAL_NOTALLOWED	VAL_UI_ORD_ARRIVAL or VAL_UI_ORD_ARRIVAL_RETURN
400	UI_SEQUENCE_ERROR	VAL_UI_ORD_SEQUENCE

#### 3.6.5 ETL - (3.5) Trans-loading

EU Secondary Data Dictionary, Version 1.4.5

#### 3.6.5.1 Description

Event to show that UIs have been moved from one transport mechanism to another.

3.6.5.2

Description of the fields

Trans-loading event					
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	м	Message_Type = ETL
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М	
Event_Time	Intended time of event occurrence	Time(s)	S	М	
Message_Time _long	Message sending Time	Time(L)	S	М	
Destination_I D1	Indication if the destination facility is located on the EU territory	Integer	S	М	0 – No 1 – Yes
Destination_I D2	Destination facility identifier code	FID	S	M, if Destinati on_ID 1 = 1	
Destination_I D3	Destination facility's full address	Text(5000)	S	M, if Destinati on_ID 1 = 0	
Destination_I D3_Address_N ame	Destination facility's full address - Name part of the Address	Text(5000)	S	0	
Destination_I D3_Address_S treetOne	Destination facility's full address - Street part of the Address	Text(5000)	S	M, if Destinati on_ID 1 = 0	
Destination_I D3_Address_S treetTwo	Destination facility's full address - Second Element of the Street part of the Address	Text(5000)	S	0	
Destination_I D3_Address_C ity	Destination facility's full address - City	Text(5000)	S	M, if Destinati on_ID 1 = 0	
Destination_I D3_Address_P ostCode	Destination facility's full address - PostalCode information	Text(5000)	S	0	
Transport_mo de	Mode of transport to which the product is trans-loaded, see: Commission Regulation (EC) No 684/2009, Annex II, Code List 7	Integer	S	М	See TransportMode
Transport_veh icle	Identification of the vehicle (i.e. number plates, train number, plane/flight number, ship name or other identification)	Text(5000)	S	М	
Transport_con t1	Indication if the transport is containerised and uses an individual transport unit code (e.g. SSCC)	Boolean	S	М	0 - No 1 - Yes
Transport_con t2	Individual transport unit code of the container	ITU	S	M, if Transpor	

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	Trans-loading event					
Field	Description	Data Type	Cardinality	Priority	Values	
				t_cont1 = 1		
EMCS	Dispatch under the Excise Movement and Control System (EMCS)	Boolean	S	М	0 – No 1 – Yes	
EMCS_ARC	Administrative Reference Code (ARC)	ARC	S	M, if EMCS = 1		
UI_Type	Identification of UI types subject to the trans-loading (recorded at the highest level of available aggregation)	Integer	S	М	<ol> <li>1 - only unit packet level UIs</li> <li>2 - only aggregated level UIs</li> <li>3 - both unit packet and aggregated level UIs</li> </ol>	
upUIs	List of unit packet level UIs subject to the trans-loading	upUI(L)	М	M, if UI_Type = 1 or 3		
aUIs	List of aggregated level UIs subject to the trans-loading	aUI	М	M, if UI_Type = 2 or 3		
Transloading_ comment	Comments by the reporting entity	Text(5000)	S	0		
Information	Indicates the request of additional optional information	Boolean	S	0	0 – No 1- Yes	

#### 3.6.5.3 Business validation

	ETL (3.5)
Technical validation	
VAL_UI_MULT_MSG	upUIs, aUIs
Business rule validation	
UI creation	
VAL_UI_EXIST_UPUI	upUIs
VAL_UI_EXIST_AUI	aUIs
VAL_UI_EXIST_UPUI_SEQ	upUIs
VAL_UI_EXIST_AUI_SEQ	aUIs
Entity Validation	
VAL_ENT_EXIST_EOID	EO_ID
VAL_ENT_EXIST_FID	Destination_ID2
VAL_ENT_ACTIVE_EOID	EO_ID
Sequence Validation	
VAL_UI_ORD_DEACTIVATED	upUIs, aUIs
VAL_UI_ORD_DISAGG	aUIs
VAL_UI_ORD_IMPLDISAGG	aUIs
Message Timing	
VAL_EVT_TIME	Event_Time

#### 3.6.5.4 Sequence validation

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# The field Destination\_ID1 in the ETL event indicates if the ETL is aimed at export or EU location.

- 0 No
- <u>1 Yes</u>

	EDP					
	3.3	EDP	EDP	EDP		
	(type	3.3	3.3	3.3		
	1)	(type	(types	(type		ETL 3.5
	Export	2)	3) VM	4) VV	ETL 3.5	Export
Message Received						
ETL 3.5	No	Yes	No	No	Yes	No
ETL 3.5 (Export)	Yes	No	No	No	No	Yes

No	Next message not allowed for the UI (including different aggregation
Yes	Next Message allowed
Yes (with Location	
Validation)	Next Message allowed with location validation

#### ETL (3.5) can only be preceded by EDP (3.3) of type 1 or 2 or another ETL (3.5) The ETL (3.5) event is not subject to any location validation

#### 3.6.5.5 Response:

	Trans-loading event – response				
Field	Description	Data Type	Cardinality	Priorit Y	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = ETL
Basic Information Block	Additional optional acknowledgment Information	Component << Basic Information Block >>	S	о	

## 3.6.5.6 Request sample

```
{
    "EO_ID": "QCUKR+1AB020054",
    "Event_Time": "19032014",
    "Message_Time_Long":"2019-03-20T14:16:45Z",
    "Destination_ID1": 1,
    "Destination_ID2": "FGHZ7G",
    "Destination_ID3": "",
    "Transport_mode": 1,
    "Transport_vehicle": 1,
    "Transport_cont1": 1,
```

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```
"Transport_cont2": "code",

"EMCS": 1,

"EMCS_ARC": "ref",

"UI_Type": 1,

"upUIs": [ "DANXXXXXXXX1PR012345678919030110", "

DANXXXXXXXXXX2PR012345678919030110"],

"aUIs": [ "DANXXXXXXX2PR012345678919030110"],

"Transloading_comment": "Comments",

"Message_Type": "ETL",

"Code": "873345b2-882f-4064-91f0-90669b46c30a"

}
```

#### *3.6.5.7 Successful response sample*

#### HTTP Status 202

{
 "Code": "873345b2-882f-4064-91f0-90669b46c30a",
 "Message\_Type": "ETL",
 "Error": false,
 "Errors": null,
 "Checksum": "G6HF5H"
}

#### *3.6.5.8 Error response sample*

HTTP status		
<< Corr	nmon response code >>	
400	MULTIPLE_UID	VAL_UI_MULT_MSG
400	UI_NOT_EXIST	VAL_UI_EXIST_UPUI
	UI_NOT_VALID	
400	UI_NOT_EXIST	VAL_UI_EXIST_AUI
400	UI_NOT_VALID	VAL_UI_EXIST_UPUI_SEQ
400	UI_NOT_EXIST	VAL_UI_EXIST_AUI_SEQ
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_EOID
400	FID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_FID
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_EOID
400	UI_DEACTIVATED	VAL_UI_ORD_DEACTIVATED
400	UI_ALREADY_DISAGGREGATED	VAL_UI_ORD_DISAGG or
		VAL_UI_ORD_IMPLDISAGG
299	SHIPMENT_WITHIN_24_HOURS	VAL_EVT_TIME

# 3.6.6 EUD – (3.6) Disaggregation of aggregated level UIs

#### 3.6.6.1 Description

Event showing that an aggregation no longer exists.

aUI disaggregation event					
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = EUD
EO_ID	Economic operator's identifier	EOID	S	М	
F_ID	Facility's identifier	FID	S	М	
Event_Time	Time of event occurrence	Time(s)	S	М	
Message_Time_long	Message sending Time	Time(L)	S	М	
aUI	Aggregated level UI subject to disaggregation	aUI	S	М	
disaUI_comment	Comments by the reporting entity	Text(5000)	S	0	
Information	Indicates the request of additional optional information (only available on the Router interface)	Boolean	S	Ο	0 – No 1- Yes

## 3.6.6.2 Description of the fields

#### 3.6.6.3 Business validation

	EUD (3.6)
Business rule validation	
UI creation	
VAL_UI_EXIST_AUI	aUI
VAL_UI_EXIST_AUI_SEQ	aUI
Entity Validation	
VAL_ENT_EXIST_EOID	EO_ID
VAL_ENT_EXIST_FID	F_ID
VAL_ENT_ACTIVE_EOID	EO_ID
Sequence Validation	
VAL_UI_ORD_DEACTIVATED	aUI
VAL_UI_ORD_AGG_FID	aUI (ONLY for aUI that have not been implicitly disaggregated)

#### 3.6.6.4 Sequence validation

The following table represents the authorized transitions for a UI and specifically the previous message for the UI.

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	EPA 3.2 parent UI	EPA 3.2 parent UI Import	EPA 3.2 Child	EPA 3.2 Child import	ERP 3.4	ERP 3.4 (Return)	EUD 3.6	EUD 3.6 (aUI implicitly disaggregated) - reuse of aUI
Message Received								
EUD 3.6	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes

No Yes Yes (with Location Validation) Next message not allowed for the UI (including different aggregation Next Message allowed

Next Message allowed with location validation

### 3.6.6.4.1 Clarrification of the location validation

The disaggregation event is subject to the location validation (VAL\_UI\_ORD\_AGG\_FID). In other words, the aUI that are been disaggregated must be in the same facility.

There is exception for aUI that have been already disaggregated implicitly.

### 3.6.6.4.2 Location validation Exception

Location validation exception for Imports Due to the fact that product movement outside of the EU are not subject to being reported into the EU tobacco track and trace system (i.e. Dispatch/Arrivals), in the event that an Economic Operator requires to modify the hierarchy of the goods before the import into EU, there will be Aggregation (3.2 – EPA) and Disaggregation (3.6 – EUD) messages on different locations (Facility IDs) without a Dispatch/Arrival movement between them. For these cases, the Location validation (VAL\_UI\_ORG\_AGG\_FID) will not be applicable (so all products BEFORE the first Arrival 3.4 into the EU may be modified in terms of their logistic hierarchy).

#### 3.6.6.4.3

# Clarification on the impact of Implicit disaggregation

The reporting of a disaggregation event (EUD 3.6) on an aUI that have been previously implicitly disaggregated (by any the reporting of an event that allows the triggering of the implicit disaggregation mechanism) does't correspond to any physical movement. Therefore, the location validation control VAL UI ORD AGG FID will not be applied.

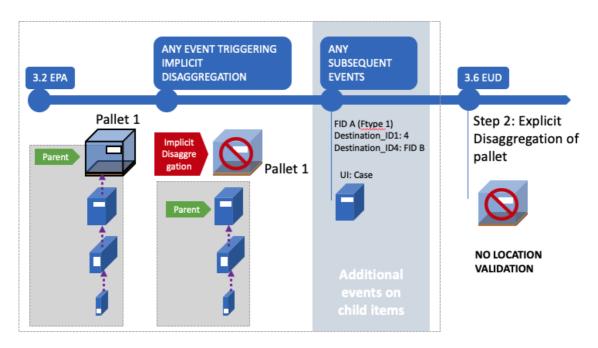


Figure 11 reporting of disaggregation event on aUI that are implicitly disaggregated.

#### 3.6.6.5 Implicit disaggregation trigger

This event can trigger an implicit disaggregation when a child UI is identified as part of the event.

#### 3.6.6.6 Response:

aUI disaggregation event- response							
Field	Description	Data Type	Cardinality	Priority	Values		
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = EUD		

#### 3.6.6.7 Disaggregation Acknowledgement Confirmation

The justification of scope is derived from careful reading of Article 36(3) of Implementing Regulation 2018/574, i.e. the same Article that provides for generation of checksum values. The idea behind the Article is that there must be a mechanism allowing for validating transmission, also in terms of its integrity. The message integrity is a broad term, but definitely encompasses

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both completeness and correctness. These two characteristics of data transmission fall under the sending party's responsibility (Articles 36(3) and 32(7) should be read jointly).

For most of messages, a basic checksum appears to be sufficient to prove both completeness and correctness of data transmission. The sending party is usually aware of the results of its message, so after receiving the positive acknowledgement with the correct checksum value (recall code), the sending party can simply assume that the concerned UIs have taken a new correct state in line with the just-transmitted message. For example, a dispatch message changes the state of a UI from in stock to in transit. Both state/location and UI are known to the operator. The situation is clearly different for disaggregation messages. The sending party cannot be sure if the positive acknowledgment truly means that the correct outcome has been achieved as regards the "subordinate/child" UIs, which have become the top level UIs. In fact, under the system's current configuration, the correctness of the resulting "subordinate/child" is only confirmed in the validation of a next logistic operation.

The list of the resulting "subordinate/child" UIs should only provide for the necessary assurance as to the disaggregation message in question. Therefore, it should not include any further subordinate levels of UIs, because such a feedback would go beyond what is necessary for concluding on the integrity of transmission.

Finally, it is important to underline that the proposed feedback would not be provided in response to a query, but as a part of the validation/acknowledgement mechanism. This also explains why there is no contradiction between the proposed extension to the disaggregation acknowledgement and the line taken with respect to the industry's attempts to receive a possibility of querying the system.

The "Information" field should be set to 1 In the response messages the Information block contains the Data\_List field that holds the list of "subordinate/child" UIs

Note: The response is only available on the Router.

#### 3.6.6.8 Request sample

```
"EO_ID": "QCUKR+1AB020054",

"F_ID": "QCUKR<1AB020054000049",

"Event_Time": "19032014",

"Message_Time_Long": "2019-03-20T14:16:45Z",

"aUI": "DANXXXXXXXXX10FA00000119030110",

"disaUI_comment": "Comments",

"Message_Type": "EUD",

"Code": "873345b2-882f-4064-91f0-90669b46c30a"
```

#### *3.6.6.9 Successful response sample*

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#### HTTP Status 202

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "EUD",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

### 3.6.6.10 Error response sample

HTTP status	Error Code	Error Description
<< Com	mon response code >>	
	•	
400	UI_NOT_EXIST	VAL_UI_EXIST_AUI
400	UI_NOT_VALID	VAL_UI_EXIST_AUI_SEQ
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_EOID
400	FID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_FID
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_EOID
400	UI_DEACTIVATED	VAL_UI_ORD_DEACTIVATED
400	LOCATION_MISMATCH	VAL_UI_ORD_AGG_FID

# 3.6.7 EVR – (3.7) Report the delivery carried out with a vending van to retail outlet

#### 3.6.7.1 Description

Event sent when UIs have been distributed via a van delivery.

#### 3.6.7.2 Description of the fields

Vending Van event							
Field	Description	Data Type	Cardinality	Priority	Values		
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = EVR		
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	Μ			
F_ID	Facility identifier code of retail outlet	FID	S	Μ			
Event_Time	Time of event occurrence	Time(s)	S	М			
Message_Time_long	Message sending Time	Time(L)	S	М			

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UI_Type	Identification of UI types delivered (recorded at the highest level of available aggregation)	Integer	S	Μ	1 – only unit packet level UIs 2 – only aggregated level UIs 3 – both unit packet and aggregated level UIs
upUIs	List of unit packet level UIs delivered	upUI(L)	М	M, if UI_Type = 1 or 3	
aUIs	List of aggregated level UIs delivered	aUI	М	M, if UI_Type = 2 or 3	
Delivery_comment	Comments by the reporting entity	Text(5000)	S	0	
Information	Indicates the request of additional optional information	Boolean	S	0	0 - No 1- Yes

#### 3.6.7.3 Business validation

	EVR (3.7)
Technical validation	
VAL_UI_MULT_MSG	upUIs, aUIs
Business rule validation	
UI creation	
VAL_UI_EXIST_UPUI	upUIs
VAL_UI_EXIST_AUI	aUIs
VAL_UI_EXIST_UPUI_SEQ	upUIs
VAL_UI_EXIST_AUI_SEQ	aUIs
Entity Validation	
VAL_ENT_EXIST_EOID	EO_ID
VAL_ENT_EXIST_FID	F_ID
VAL_ENT_ACTIVE_EOID	EO_ID
Sequence Validation	
VAL_UI_ORD_DEACTIVATED	upUIs, aUIs
VAL_UI_ORD_DISAGG	aUIs
VAL_UI_ORD_IMPLDISAGG	aUIs
Message Timing	
VAL_EVT_24H	Event_Time

## 3.6.7.4 Sequence Validation The following table represents the authorized transitions for a UI and specifically the previous message for the UI.

Message Received	EDP 3.3 (type 1) Export	EDP 3.3 (type 2)	EDP 3.3 (types 3) VM	EDP 3.3 (type 4) VV
EVR 3.7	No	No	No	Yes

Next message not allowed for the UI (including different aggregation Next Message allowed

Next Message allowed with location validation

For each UI in the event, An EVR must be preceeded by a Dispatch event (EDP 3.3) of type 4- Any other combination will result in a Sequence Error

Note that the omition of the reporting of the Dispatch event (EDP 3.3) will result in a SEQUENCE\_ERROR

3.6.7.5 Implicit disaggregation trigger

This event can trigger an implicit disaggregation when a child UI is identified as part of the event.

Implicit Disaggregation occurring when Delivering to Retail Outlet (EVR 3.7)

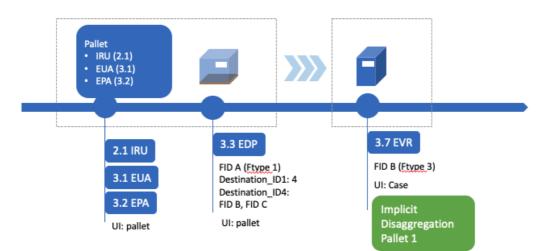


Figure 12 Implicit disaggregation trigger

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### 3.6.7.6 Response:

	Vending Van event – response							
Field	Description	Data Type	Cardinality	Priority	Values			
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = EVR			
Basic Information Block	Additional optional acknowledgment Information	Component << Basic Information Block >>	S	0				

### 3.6.7.7 Request sample

```
{
    "EO_ID": "QCUKR+1AB020054",
    "F_ID": "QCUKR<1AB020054000049",
    "Event_Time": "19032014",
    "Message_Time_Long":"2019-03-20T14:16:45Z",
    "UI_Type": 1,
    "upUIs": [ "DANXXXXXXXXX1PR012345678919030110", "
DANXXXXXXXXXXX2PR012345678919030110"],
    "aUIs": [ "DANXXXXXXXXX10FA00000119030110"],
    "Delivery_comment": "Comments",
    "Message_Type": "EVR",
    "Code": "873345b2-882f-4064-91f0-90669b46c30a"
}</pre>
```

### 3.6.7.8 Successful response sample

#### HTTP Status 202

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "EVR",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

#### 3.6.7.9 Error response sample

HTTP status						
<< Com	<< Common response code >>					
400	MULTIPLE_UID	VAL_UI_MULT_MSG				
400	UI_NOT_EXIST	VAL_UI_EXIST_UPUI				

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	UI_NOT_VALID	
400	UI_NOT_EXIST	VAL_UI_EXIST_AUI
400	UI_NOT_VALID	VAL_UI_EXIST_UPUI_SEQ
400	UI_NOT_EXIST	VAL_UI_EXIST_AUI_SEQ
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_EOID
400	FID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_FID
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_EOID
400	UI_DEACTIVATED	VAL_UI_ORD_DEACTIVATED
400	UI_ALREADY_DISAGGREGATED	VAL_UI_ORD_DISAGG or
		VAL_UI_ORD_IMPLDISAGG
299	SHIPMENT_WITHIN_24_HOURS	VAL_EVT_24H

3.7 EPCIS Reporting operational events (product movement information)

#### 3.7.1 General

#### ISO 8859-15 character set. 3.7.1.1

The payload of each field identified in Annex II as Data Type "Text" is restricted to the ISO 8859-15 character set. this applies to the following EPCIS fields, by message:

		EPCIS Fields
EUA	3.1 Commissioning	<fit:messagetype></fit:messagetype>
		<fit:comment></fit:comment>
EPA	3.2 Packing	<fit:messagetype></fit:messagetype>
		<fit:comment></fit:comment>
EDP	3.3 Dispatch	<fit:messagetype></fit:messagetype>
		<fit:comment></fit:comment>
ERP	3.4 Receiving	<fit:destinationid5name></fit:destinationid5name>
		<fit:destinationid5streetaddressone></fit:destinationid5streetaddressone>
		<fit:destinationid5streetaddresstwo></fit:destinationid5streetaddresstwo>
		<fit:destinationid5city></fit:destinationid5city>
		<fit:destinationid5postalcode></fit:destinationid5postalcode>
		<fit:transportvehicle></fit:transportvehicle>
		<fit:transports2></fit:transports2>
		<fit:saadnumber></fit:saadnumber>
		<fit:comment></fit:comment>
ETL	3.5 Transloading	<fit:messagetype></fit:messagetype>
		<fit:comment></fit:comment>
EUD	3.6 Unpacking	<fit:messagetype></fit:messagetype>
		<fit:comment></fit:comment>
EVR	3.7 Arriving	<fit:messagetype></fit:messagetype>
		<fit:comment></fit:comment>

#### 3.7.1.2 Message identification

Each message will be sent to the interface with a new "eventID" field that will contain a UUID generated by the sender party. This UUID will be then used as the recallCode for the event, instead of the repositories system generating a code.

```
<!-- added UUID -->
<baseExtension>
    <eventID>urn:uuid:d24aa483-94b5-4c65-ac3f-8b908ff61647</eventID>
</baseExtension>
```

#### 3.7.1.3 Document and Events

Only one Event per document should be transmitted.

#### 3.7.1.4 Responses

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In alignment with the EPCIS v1.2 Capture Interface standard, the interface returns an empty payload and only replies with the relevant HTTP code of the result of the message validation.

As a result of this, by usage of this interface any HTTP Code 2xx will be an accepted message and any 4xx or 5xx HTTP Code will mean the message was rejected or erroneous.

As of now due to this limitation in the standard the exact reason for the error will not be returned. If future versions of the EPCIS standard remove this limitation the interface might be updated.

3.7.2 EPCIS - EUA – (3.1) Application of unit level UIs on unit packets 3.7.2.1 Description

Application of unit level UIs on unit packets will be captured as an EPCIS Object Event (business step "Commissioning")

5.7.2.2 Description of the news	
EPCIS EUA - Application of unit level UIs on unit packets	
Field	Values
<objectevent></objectevent>	nested
<action></action>	ADD
<eventtime></eventtime>	Reference: Event_Time
<eventtimezoneoffset></eventtimezoneoffset>	Time zone offset from UTC in effect at the time and place the event occurred.
<baseextension></baseextension>	<pre>``<eventid>" tag containing a UUID that must be generated by the sender and will be used as the recallCode for the message. Example: <eventid>urn:uuid:d24aa483-94b5-4c65-ac3f- 8b908ff61647</eventid></eventid></pre>
<epclist></epclist>	One or more packs, each identified by UPUI EPC URI.
<readpoint></readpoint>	GLN identifying the facility, <id> expressed as SGLN EPC URI, qualified by <fit:fid> extension to the readPoint, linking the SGLN of the readPoint to the Facility Identifier code, represented by the concatenated GS1 element strings AI(7040) and AI (414), where AI (414) corresponds to the first two segments of the readPoint's SGLN EPC URI, for example:</fit:fid></id>
	<fit:fid>(7040)5f(414)1234567890128</fit:fid>
	<readpoint></readpoint>
	<id>urn:epc:id:sgln:1234567.89012.0</id>

3.7.2.2 Description of the fields

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EPCIS EUA - Application of unit level UIs on unit packets	
Field	Values
 <bizstep></bizstep>	urn:epcglobal:cbv:bizstep:commissioning
<disposition></disposition>	urn:epcglobal:cbv:disp:active
<fit:messagetype></fit:messagetype>	3-1
<fit:eoid></fit:eoid>	Concatenation of GS1 element strings AI(7040) and AI (417), UIM and GLN representing Economic Operator identifier code of submitting entity, <fit:eoid <br="" epc="urn:epc:id:pgln:1234567.89012">gs1ElementString="(7040)5f(417)1234567890128"/&gt;</fit:eoid>
<fit:upui2></fit:upui2>	List of corresponding unit packet level UIs to be recorded (as visible in human readable format) indicated in the same order as upUI_1 – will be introduced to the revision of "FIT with EPCIS" in the form of the "fit:upui2" extension
<fit:comment></fit:comment>	Optional free text comments by reporting entity, limited to 1000 characters.

**upUI\_2** – The ampersand ("&"), greater-than (">") and less-than ("<") characters are expressed with **escape codes that differ** for URI syntax (i.e., for the EPC UPUI URIs) and XML syntax (i.e., for the human-readable encoding in the "hriOnPack" field), as follows:

character	URI escape code (for UPUI EPC)	XML escape code (for "hriOnPack")
&	%26	&
>	%3E	>
<	%3C	<

### 3.7.2.3 Request sample

```
<?xml version="1.0"?>
<epcis:EPCISDocument xmlns:epcis="urn:epcqlobal:epcis:xsd:1" schemaVersion="1.2"</pre>
  xmlns:fit="https://gs1.org/cbv/fit" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1 2.xsd"
  creationDate="2019-03-11T16:46:00.000Z">
  <EPCISBody>
     <EventList>
       <!-- 3.1 -->
       <ObjectEvent>
          <eventTime>2018-12-03T09:09:00.000+01:00</eventTime>
          <eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
          <!-- added UUID -->
          <baseExtension>
             <eventID>urn:uuid:d24aa483-94b5-4c65-ac3f-8b908ff61647</eventID>
          </baseExtension>
          <epcList>
```

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<epc>urn:epc:id:upui:1234567.054321.5vY)%3C%26Jp3*j7</epc>
<epc>urn:epc:id:upui:1234567.054321.5vPxbrJk3th5</epc>
<epc>urn:epc:id:upui:1234567.054321.5vs*)%3Ek85Jp3*j7</epc>
<epc>urn:epc:id:upui:1234567.054321.5v8rntU1;00U%3F</epc>
<pre><epc>urn:epc:id:upui:1234567.054321.5vB102bte175th</epc></pre>
<pre><epc>urn:epc:id:upui:1234567.054321.5v4CDrco52241BRd</epc></pre>
<pre><epc>urn:epc:id:upui:1234567.054321.5vittJekPgalpH</epc></pre>
<pre><epc>urn:epc:id:upui:1234567.054321.5vaC1000FyakK</epc></pre>
<pre><pc>urn:epc:id:upui:1234567.054321.5vgpuT4aHtd <pc>urn:epc:id:upui:1234567.054321.5vrLbDflilwiF</pc></pc></pre>
<pre></pre>
<action>ADD</action>
<pre><disposition>urn:epcglobal:cbv:disp:active</disposition></pre>
<readpoint></readpoint>
<id>urn:epc:id:sgln:1234567.54321.0</id>
<fit:fid>(7040)5v9_(414)1234567543215</fit:fid>
<fit:messagetype>3-1</fit:messagetype>
<fit:eoid <="" epc="urn:epc:id:pgln:1234567.89012" td=""></fit:eoid>
$gs1ElementString="(7040)5f9_(417)1234567890128"/>$
Human-readable on-pack encodings below, corresponding to upUI_2(H) of Annex<br II>
<pre>fit:upui2 epc="urn:epc:id:upui:1234567.054321.5vY)%3C%26Jp3*j7"</pre>
hriOnPack="(235)5vY)<&Jp3*j7(01)01234567543215(8008)18120308"/>
<pre></pre> /// // // // // //
hriOnPack="(235)5vPxbrJk3th5(01)01234567543215(8008)18120308"/>
<fit:upui2 <="" epc="urn:epc:id:upui:1234567.054321.5vs*)%3Ek85Jp3*j7" td=""></fit:upui2>
hriOnPack="(235)5vs*)>k85Jp3*j7(01)01234567543215(8008)18120308"/>
<fit:upui2 <="" epc="urn:epc:id:upui:1234567.054321.5v8rntU1;00U%3F" td=""></fit:upui2>
hriOnPack="(235)5v8rntU1;00U?(01)01234567543215(8008)18120308"/>
<pre><fit:upui2 <="" epc="urn:epc:id:upui:1234567.054321.5vB102bte175th" td=""></fit:upui2></pre>
hriOnPack="(235)5vB102bte175th(01)01234567543215(8008)18120308"/> <fit:upui2 <="" epc="urn:epc:id:upui:1234567.054321.5v4CDrco52241BRd" td=""></fit:upui2>
hriOnPack="(235)5v4CDrco52241BRd(01)01234567543215(8008)18120308"/>
<pre></pre> <pre></pre> <pre></pre> <pre>////////////////////////////////////</pre>
hriOnPack="(235)5vittJekPgalpH(01)01234567543215(8008)18120308"/>
<fit:upui2 <="" epc="urn:epc:id:upui:1234567.054321.5vaC1000FyakK" td=""></fit:upui2>
hriOnPack="(235)5vaC1000FyakK(01)01234567543215(8008)18120308"/>
<fit:upui2 <="" epc="urn:epc:id:upui:1234567.054321.5vgpuT4aHtd" td=""></fit:upui2>
hriOnPack="(235)5vgpuT4aHtd(01)01234567543215(8008)18120308"/>
<fit:upui2 <="" epc="urn:epc:id:upui:1234567.054321.5vrLbDflilwiF" td=""></fit:upui2>
hriOnPack="(235)5vrLbDflilwiF(01)01234567543215(8008)18120308"/>
<pre><fit:comment>3.1 Application of unit level UIs on unit packets</fit:comment> </pre>

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3.7.3 EPCIS - EPA – (3.2) Application of aggregated level UIs on aggregated packaging

3.7.3.1 Description

Message 3.2, "Application of aggregated level UIs on aggregated packaging", is captured in one or more EPCIS Aggregation Events – iterative as necessary, to allow for "nesting" of hierarchical levels – with business step Packing, as follows.

EPCIS EPA - Application of aggregated level UIs on aggregated packaging	
Field	Values
<aggregationevent></aggregationevent>	nested
<action></action>	ADD
<eventtime></eventtime>	Reference: Event_Time
<eventtimezoneoffset></eventtimezoneoffset>	Time zone offset from UTC in effect at the time and place the event occurred.
<baseextension></baseextension>	<pre>``<eventid>" tag containing a UUID that must be generated by the sender and will be used as the recallCode for the message. Example: <eventid>urn:uuid:d24aa483-94b5- 4c65-ac3f-8b908ff61647</eventid></eventid></pre>
<parentid></parentid>	Parent ID, in SGTIN EPC URI or SSCC EPC URI
<childepcs></childepcs>	Child EPCs, in SGTIN/SSCC EPC UI or UPUI EPC URI
<readpoint></readpoint>	GLN identifying the facility, <id> expressed as SGLN EPC URI, qualified by <fit:fid> extension to the readPoint, linking the SGLN of the readPoint to the Facility Identifier code, represented by the concatenated GS1 element strings AI(7040) and AI (414), where AI (414) corresponds to the first two segments of the readPoint's SGLN EPC URI, for example:</fit:fid></id>
	<fit:fid>(7040)5f(414)1234567890128 </fit:fid>
	<readpoint> <id>urn:epc:id:sgln:1234567.89012.0&lt; /id&gt;</id></readpoint>

### 3.7.3.2 Description of the fields

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EPCIS EPA - Application of aggregated level UIs on aggregated packaging	
Field	Values
<bizstep></bizstep>	urn:epcglobal:cbv:bizstep:packing
<disposition></disposition>	urn:epcglobal:cbv:disp:active
<fit:messagetype></fit:messagetype>	3-2
<pre><fit:aggregationtype>1</fit:aggregationtype></pre>	Reference: Aggregation Type
<fit:eoid></fit:eoid>	Concatenation of GS1 element strings AI(7040) and AI (417), UIM and GLN representing Economic Operator identifier code of submitting entity,
	<fit:eoid epc="urn:epc:id:pgln:1234567.89012" gs1ElementString="(7040)5f(417)1234 567890128"/&gt;</fit:eoid 
<fit:comment></fit:comment>	Optional free text comments by reporting entity, limited to 1000 characters.

#### 3.7.3.3 Request sample

```
<?xml version="1.0"?>
 <epcis:EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2"</pre>
    xmlns:fit="https://gs1.org/cbv/fit" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
    creationDate="2019-03-11T16:46:00.000Z">
    <EPCISBodv>
       <EventList>
         <!-- 3.2 -->
         <!-- 3.2.1 -->
         <AggregationEvent>
           <eventTime>2018-12-03T10:10:00.000+01:00</eventTime>
           <eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
           <!-- added UUID -->
           <baseExtension>
              <eventID>urn:uuid:433a2eb3-8c8f-4412-a54d-9ba372c75ef1</eventID>
           </baseExtension>
           <parentID>urn:epc:id:sqtin:1234567.012345.9876543210</parentID>
           <childEPCs>
              <epc>urn:epc:id:upui:1234567.054321.5vY)%3C%26Jp3*j7</epc>
              <epc>urn:epc:id:upui:1234567.054321.5vPxbrJk3th5</epc>
              <epc>urn:epc:id:upui:1234567.054321.5vs*)%3Ek85Jp3*j7</epc>
              <epc>urn:epc:id:upui:1234567.054321.5v8rntU1;00U%3F</epc>
              <epc>urn:epc:id:upui:1234567.054321.5vB102bte175th</epc>
              <epc>urn:epc:id:upui:1234567.054321.5v4CDrco52241BRd</epc>
              <epc>urn:epc:id:upui:1234567.054321.5vittJekPgalpH</epc>
              <epc>urn:epc:id:upui:1234567.054321.5vaC1000FyakK</epc>
              <epc>urn:epc:id:upui:1234567.054321.5vgpuT4aHtd</epc>
              <epc>urn:epc:id:upui:1234567.054321.5vrLbDflilwiF</epc>
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```

#### dentsu TRACKING

</childEPCs> <action>ADD</action> <br/><bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep> <disposition>urn:epcglobal:cbv:disp:in\_progress</disposition> <readPoint> <id>urn:epc:id:sqln:1234567.54321.0</id> <fit:fid>(7040)5v9\_(414)1234567543215</fit:fid> </readPoint> <fit:messageType>3-2</fit:messageType> <fit:aggregationType>1</fit:aggregationType> <fit:eoid epc="urn:epc:id:pgln:1234567.89012" gs1ElementString="(7040)5f9\_(417)1234567890128"/> <fit:comment>3.2.1 Application of aggregated level UIs on units to carton</fit:comment> </AggregationEvent> </EventList> </EPCISBody> </epcis:EPCISDocument>

```
<?xml version="1.0"?>
<epcis:EPCISDocument xmlns:epcis="urn:epcqlobal:epcis:xsd:1" schemaVersion="1.2"</pre>
  xmlns:fit="https://gs1.org/cbv/fit" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
  creationDate="2019-03-11T16:46:00.000Z">
  <EPCISBody>
     <EventList>
       <!-- 3.2.2 -->
       <AggregationEvent>
         <eventTime>2018-12-03T11:11:00.000+01:00</eventTime>
         <eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
         <!-- added UUID -->
         <baseExtension>
            <eventID>urn:uuid:a1c9d58c-b7af-4f9e-9dbb-e5d88bf32ce2</eventID>
         </baseExtension>
         <parentID>urn:epc:id:sgtin:1234567.055555.5678901234/parentID>
          <childEPCs>
            <epc>urn:epc:id:sqtin:1234567.012345.9876543210</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.8765432109</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.7654321098</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.6543210987</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.5432109876</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.4321098765</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.3210987654</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.2109876543</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.1098765432</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.1987654321</epc>
            <epc>urn:epc:id:sqtin:1234567.012345.1234567890</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.2345678901</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.3456789012</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.4567890123</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.5678901234</epc>
            <epc>urn:epc:id:sgtin:1234567.012345.6789012345</pc>
```

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<epcis: xmlr xsi:s</epcis: 	version="1.0"?> EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2" hs:fit="https://gs1.org/cbv/fit" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" hchemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd" tionDate="2019-03-11T16:46:00.000Z">
<ep< td=""><td>CISBody&gt;</td></ep<>	CISBody>
<	EventList>
	3.2.3
	<aggregationevent></aggregationevent>
	<eventtime>2018-12-04T12:12:00.000+01:00</eventtime>
	<eventtimezoneoffset>+01:00</eventtimezoneoffset> added UUID
	<pre>  dded 001D&gt;</pre>        
	<pre><eventid>urn:uuid:6e6f0345-f1cb-460e-adf8-33db2a3844a4</eventid></pre>
	<pre><parentid>urn:epc:id:sscc:1234567.0123456789</parentid></pre>
	<childepcs></childepcs>
	<pre><epc>urn:epc:id:sgtin:1234567.055555.5678901234</epc></pre>
	<epc>urn:epc:id:sgtin:1234567.055555.6789012345</epc> <epc>urn:epc:id:sgtin:1234567.055555.7890123456</epc>
	<pc>un1.epc.id.sgtin:1234567.055555.8901234567</pc>
	<action>ADD</action>
	<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
	<readpoint></readpoint>
	<id>urn:epc:id:sgln:1234567.54321.0</id> <fit:fid>(7040)5v9_(414)1234567543215</fit:fid>
	<pre></pre>

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	<fit:aggregationtype>2</fit:aggregationtype> <fit:eoid <="" epc="urn:epc:id:pgln:1234567.89012" th=""></fit:eoid>
	gs1ElementString="(7040)5f9_(417)1234567890128"/>
	<pre><fit:comment>3.2.3 Application of aggregated level UIs on case to logistics</fit:comment></pre>
	unit
1	

### 3.7.4 EPCIS - EDP – (3.3) Dispatch of tobacco products from a facility 3.7.4.1 Description

Message 3.3, "Dispatch of tobacco products from a facility", is captured in an EPCIS Object Event with business step Shipping, as follows.

EPCIS EDP - Dispatch of tobacco products from a facility event	
Field	Values
<objectevent></objectevent>	nested
<eventtime></eventtime>	Reference: Event_Time
<eventtimezoneoffset></eventtimezoneoffset>	Time zone offset from UTC in effect at the time and place the event occurred.
<baseextension></baseextension>	<pre>``<eventid>" tag containing a UUID that must be generated by the sender and will be used as the recallCode for the message. Example: <eventid>urn:uuid:d24aa483-94b5- 4c65-ac3f-8b908ff61647</eventid></eventid></pre>
<action></action>	OBSERVE
<epclist></epclist>	EPCs, in SGTIN/SSCC EPC UI or UPUI EPC URI
	Example: <epc>urn:epc:id:upui:1234567.054321 .5vY)%3C%26Jp3*j7</epc> <epc>urn:epc:id:sgtin:1234567.012345 .9876543210</epc> <epc>urn:epc:id:sscc:1234567.012345 6789</epc>
<readpoint></readpoint>	GLN identifying the facility, <id> expressed as SGLN EPC URI, qualified by <fit:fid> extension to the readPoint,</fit:fid></id>

#### 3.7.4.2 Description of the fields

EU Secondary Data Dictionary, Version 1.4.5

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EPCIS EDP - Dispatch of tobacco products from a facility event	
Field	Values
	linking the SGLN of the readPoint to the Facility Identifier code, represented by the concatenated GS1 element strings AI(7040) and AI (414), where AI (414) corresponds to the first two segments of the readPoint's SGLN EPC URI, for example:
	<fit:fid>(7040)5f(414)1234567890128 </fit:fid>
	<readpoint></readpoint>
	<id>urn:epc:id:sgln:1234567.89012.0&lt; /id&gt;</id>
                         	urn:epcglobal:cbv:bizstep:shipping
<disposition></disposition>	urn:epcglobal:cbv:disp:in_transit
<fit:messagetype></fit:messagetype>	3-3
<fit:uitype></fit:uitype>	Reference: UI_Type
<fit:eoid></fit:eoid>	Concatenation of GS1 element strings AI(7040) and AI (417), UIM and GLN representing Economic Operator identifier code of submitting entity,
	<fit:eoid epc="urn:epc:id:pgln:1234567.89012"</fit:eoid 
	gs1ElementString="(7040)5f(417)1234 567890128"/>
<fit:destinationid1></fit:destinationid1>	Reference: Destination_ID1
<fit:destinationidlist></fit:destinationidlist>	List of <fit:destinationid type="X"> nodes, where X determines if it represents a "Destination_ID2, Destination_ID3 or Destination_ID4".</fit:destinationid>
	Reference: Destination_ID2, Destination_ID3, Destination_ID4.
	Example:
	<fit:destinationid <br="" type="2">epc="urn:epc:id:sgln:0614141.00777.0 "</fit:destinationid>
	gs1ElementString="(7040)5v9_(414)06 14141007776"/>

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EPCIS EDP - Dispatch of tobacco	products from a facility event
Field	Values
<fit:destinationid5name></fit:destinationid5name>	Reference: Destination_ID5_Address_Name
<fit:destinationid5streetaddressone></fit:destinationid5streetaddressone>	Reference: Destination_ID5_Address_StreetOne
<fit:destinationid5streetaddresstwo></fit:destinationid5streetaddresstwo>	Reference: Destination_ID5_Address_StreetTwo
<fit:destinationid5city></fit:destinationid5city>	Reference: Destination_ID5_Address_City
<fit:destinationid5postalcode></fit:destinationid5postalcode>	Reference: Destination_ID5_Address_PostCode
<fit:destinationid5countrycode></fit:destinationid5countrycode>	Reference: Destination_ID5_countryCode
<fit:transportmode></fit:transportmode>	Reference: Transport_mode
<fit:transportvehicle></fit:transportvehicle>	Reference: Transport_vehicle
<fit:transportcont2></fit:transportcont2>	Reference: Transport_cont2
	Note that Annex II field "transportCont1" (indication if the transport is containerized and uses an individual transport unit code) is rendered superfluous by the inclusion or omission of the "transportCont2" field in the EPCIS event. Inclusion of "transportCont2" implies a "Yes" value for "transportCont1"; omission of "transportCont2" implies a "No" value for "transportCont1".
<fit:transports1></fit:transports1>	Reference: Transport_s1 Note that you have to use "false" instead of "0" and "true" instead of "1"
<fit:transports2></fit:transports2>	Reference: Transport_s2
<fit:emcsarc></fit:emcsarc>	Reference: EMCS_ARC
	Note that Annex II field "emcs" (Dispatch under the Excise Movement and Control System, EMCS) is rendered superfluous by the inclusion or omission of the "emcsARC" field in the EPCIS event. Inclusion of "emcsARC" implies a "Yes" value for "emcs"; omission of "emcsARC" implies a "No" value for "emcs".
<fit:saadnumber></fit:saadnumber>	Reference: SAAD_number

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EPCIS EDP - Dispatch of tobacco	products from a facility event
Field	Values
	Note that Annex II field "saad" (Dispatch with a simplified accompanying document, per Commission Regulation EEC No 3649/92) is rendered superfluous by the inclusion or omission of the "transportCont2" field in the EPCIS event. Inclusion of "saadNumber" implies a "Yes" value for "saad"; omission of "saadNumber" implies a "No" value for "saad".
<fit:expdeclarationnumber></fit:expdeclarationnumber>	Reference: Exp_DeclarationNumber Note that Annex II field "expDeclaration" (Indication if the Movement Reference Number (MRN) has been issued by the customs office) is rendered superfluous by the inclusion or omission of the "expDeclarationNumber" field in the EPCIS event. Inclusion of "expDeclarationNumber" implies a "Yes" value for "expDeclaration"; omission of
<fit:comment></fit:comment>	<ul> <li>"expDeclarationNumber" implies a "No" value for "expDeclaration".</li> <li>Optional free text comments by reporting entity, limited to 1000</li> </ul>
	characters.

#### 3.7.4.3 Request sample

```
<?xml version="1.0"?>
<epcis:EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2"
xmlns:fit="https://gs1.org/cbv/fit" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
creationDate="2019-03-11T16:46:00.000Z">
<EPCISBody>
<EPCISBody>
<EventList>

<!-- 3.3 -->
<0bjectEvent>
<eventTime>2018-12-04T13:13:00.000+01:00</eventTime>
<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
<!-- added UUID -->

EU Secondary Data Dictionary, Version 1.4.5
```



### 3.7.5 EPCIS - ERP - (3.4) Arrival of tobacco products at a facility

3.7.5.1 Description

Message 3.4, "Arrival of tobacco products from a facility", is captured in an EPCIS Object Event with business step Receiving, as follows

EU Secondary Data Dictionary, Version 1.4.5

3.7.5.2	Description of the fields
---------	---------------------------

EPCIS ERP - Rec			
Field	Values		
<objectevent></objectevent>	nested		
<eventtime></eventtime>	Reference: Event_Time		
<eventtimezoneoffset></eventtimezoneoffset>	Time zone offset from UTC in effect at the time and place the event occurred.		
<baseextension></baseextension>	" <eventid>" tag containing a UUID that must be generated by the sender and will be used as the recallCode for the message. Example: <eventid>urn:uuid:d24aa483-94b5-</eventid></eventid>		
	4c65-ac3f-8b908ff61647		
<action></action>	OBSERVE		
<epclist></epclist>	EPCs, in SGTIN/SSCC EPC UI or UPUI EPC URI		
	Example: <epc>urn:epc:id:upui:1234567.054321 .5vY)%3C%26Jp3*j7</epc> <epc>urn:epc:id:sgtin:1234567.012345 .9876543210</epc> <epc>urn:epc:id:sscc:1234567.012345 6789</epc>		
<readpoint></readpoint>	GLN identifying the facility, <id> expressed as SGLN EPC URI, qualified by <fit:fid> extension to the readPoint, linking the SGLN of the readPoint to the Facility Identifier code, represented by the concatenated GS1 element strings AI(7040) and AI (414), where AI (414) corresponds to the first two segments of the readPoint's SGLN EPC URI, for example: <fit:fid>(7040)5f(414)1234567890128 </fit:fid></fit:fid></id>		
	<readpoint></readpoint>		
	<id>urn:epc:id:sgln:1234567.89012.0&lt; /id&gt;</id>		
  step>	urn:epcglobal:cbv:bizstep:receiving		
<disposition></disposition>	urn:epcglobal:cbv:disp:in_progress		
<fit:messagetype></fit:messagetype>	3-4		
<fit:uitype></fit:uitype>	Reference: UI_Type		

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EPCIS ERP - Reception event	
Field	Values
<fit:eoid></fit:eoid>	Concatenation of GS1 element strings AI(7040) and AI (417), UIM and GLN representing Economic Operator identifier code of submitting entity,
	<fit:eoid epc="urn:epc:id:pgln:1234567.89012"</fit:eoid 
	gs1ElementString="(7040)5f(417)1234 567890128"/>
<fit:productreturn></fit:productreturn>	Reference: Product_return
	Note that you have to use "false" instead of "0" and "true" instead of "1"
<fit:comment></fit:comment>	Optional free text comments by reporting entity, limited to 1000 characters.

#### Request sample 3.7.5.3

xml version="1.0"? <epcis:epcisdocument <br="" schemaversion="1.2" xmlns:epcis="urn:epcglobal:epcis:xsd:1">xmlns:fit="https://gs1.org/cbv/fit" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd" creationDate="2019-03-11T16:46:00.000Z"&gt; <epcisbody> <eventlist></eventlist></epcisbody></epcis:epcisdocument>	
3.4	
<objectevent></objectevent>	
<eventtime>2018-12-05T16:16:00.000+01:00</eventtime>	
<eventtimezoneoffset>+01:00</eventtimezoneoffset>	
added UUID	
<pre><baseextension> </baseextension></pre>	
<pre><eventid>urn:uuid:e8f5f311-c7f6-4d3f-ac38-ffb4a8c2f879</eventid></pre>	
 <epclist></epclist>	
<pre><epclist>     </epclist></pre> <pre><epclist>     </epclist></pre>	
<pre></pre>	
<a ction="">OBSERVE</a>	
<pre><disposition>urn:epcglobal:cbv:disp:in_progress</disposition></pre>	
<readpoint></readpoint>	
<id>urn:epc:id:sgln:1234567.89012.0</id>	
<fit:fid>(7040)5v9_(414)1234567890128</fit:fid>	
<fit:messagetype>3-4</fit:messagetype>	
<fit:uitype>2</fit:uitype>	
<fit:eoid <br="" epc="urn:epc:id:pgln:1234567.89012">gs1ElementString="(7040)5f9 (417)1234567890128"/&gt;</fit:eoid>	
gsiciementsting= (7040)319_(417)1234307030120 /2	

EU Secondary Data Dictionary, Version 1.4.5 167 / 257 The information contained in these documents is **confidential**, privileged and only for the information of the intended recipient and may not be used, published or redistributed without the prior written consent of Dentsu Aegis Network.

<fit:productReturn>false</fit:productReturn> <fit:comment>3.4 Arrival of tobacco products at a facility</fit:comment> </ObjectEvent>

</EventList> </EPCISBody> </epcis:EPCISDocument>

### 3.7.6 EPCIS - ETL - (3.5) Trans-loading

#### 3.7.6.1 Description

Message 3.5 is captured as an ObjectEvent OBSERVE with a new bizStep added in GS1 CBV 2.3 "transloading".

values
nastad
nested
Reference: Event_Time
Time zone offset from UTC in effect at the time and place the event occurred.
" <eventid>" tag containing a UUID that must be generated by the sender and will be used as the recallCode for the message. Example: <eventid>urn:uuid:d24aa483-94b5- 4c65-ac3f-8b908ff61647</eventid></eventid>
OBSERVE
EPCs, in SGTIN/SSCC EPC UI or UPUI EPC URI Example: <epc>urn:epc:id:upui:1234567.054321 .5vY)%3C%26Jp3*j7</epc> <epc>urn:epc:id:sgtin:1234567.012345 .9876543210</epc> <epc>urn:epc:id:sscc:1234567.012345</epc>
6789
geoURI identifying the geo-coordinates of unloading
urn:epcglobal:cbv:bizstep:transloading
urn:epcglobal:cbv:disp:in_transit
3-5

#### 3.7.6.2 Description of the fields

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EPCIS ETL - Trans-loading event	
Field	Values
<fit:eoid></fit:eoid>	Concatenation of GS1 element strings AI(7040) and AI (417), UIM and GLN representing Economic Operator identifier code of submitting entity,
	<fit:eoid epc="urn:epc:id:pgln:1234567.89012" gs1ElementString="(7040)5f(417)1234</fit:eoid 
<fit:uitype></fit:uitype>	567890128"/> Reference: UI_Type
<fit:destinationid1></fit:destinationid1>	Reference: Destination_ID1
<fit:destinationidlist></fit:destinationidlist>	List of <fit:destinationid type="X"> nodes, where X determines if it represents a "Destination_ID2, Destination_ID3 or Destination_ID4".</fit:destinationid>
	Reference: Destination_ID2, Destination_ID3, Destination_ID4.
	Example:
	<fit:destinationid <br="" type="2">epc="urn:epc:id:sgln:0614141.00777.0 "</fit:destinationid>
	gs1ElementString="(7040)5v9_(414)06 14141007776"/>
<fit:destinationid5name></fit:destinationid5name>	Reference: Destination_ID5_Address_Name
<fit:destinationid5streetaddressone></fit:destinationid5streetaddressone>	Reference: Destination_ID5_Address_StreetOne
<fit:destinationid5streetaddresstwo></fit:destinationid5streetaddresstwo>	Reference: Destination_ID5_Address_StreetTwo
<fit:destinationid5city></fit:destinationid5city>	Reference: Destination_ID5_Address_City
<fit:destinationid5postalcode></fit:destinationid5postalcode>	Reference: Destination_ID5_Address_PostCode
<fit:destinationid5countrycode></fit:destinationid5countrycode>	Reference: Destination_ID5_countryCode
<fit:transportmode></fit:transportmode>	Reference: Transport_mode
<fit:transportvehicle></fit:transportvehicle>	Reference: Transport_vehicle
<fit:transportcont2></fit:transportcont2>	Reference: Transport_cont2
	Note that Annex II field "transportCont1" (indication if the transport is containerized and uses an individual transport unit code) is

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EPCIS ETL - Trans-loading event	
Field	Values
	rendered superfluous by the inclusion or omission of the "transportCont2" field in the EPCIS event. Inclusion of "transportCont2" implies a "Yes" value for "transportCont1"; omission of "transportCont2" implies a "No" value for "transportCont1".
<fit:emcsarc></fit:emcsarc>	Reference: EMCS_ARC Note that Annex II field "emcs" (Dispatch under the Excise Movement and Control System, EMCS) is rendered superfluous by the inclusion or omission of the "emcsARC" field in the EPCIS event. Inclusion of "emcsARC" implies a "Yes" value for "emcs"; omission of "emcsARC" implies a "No" value for "emcs".
<fit:comment></fit:comment>	Optional free text comments by reporting entity, limited to 1000 characters.

#### 3.7.6.3 Request sample

```
<?xml version="1.0"?>
<epcis:EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2"</pre>
  xmlns:fit="https://gs1.org/cbv/fit" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
  creationDate="2019-03-11T16:46:00.000Z">
  <EPCISBody>
     <EventList>
       <!-- 3.5 -->
       <ObjectEvent>
          <eventTime>2018-12-05T15:15:00.000+01:00</eventTime>
          <eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
          <!-- added UUID -->
          <baseExtension>
             <eventID>urn:uuid:f924f7d8-dcaa-4e30-b9b5-7154ba329176</eventID>
          </baseExtension>
          <epcList>
            <epc>urn:epc:id:sscc:1234567.0123456789</epc>
          </epcList>
          <action>OBSERVE</action>
          <!-- NEW BUSINESS STEP transloading for CBV 2.0 -->
          <br/><bizStep>urn:epcglobal:cbv:bizstep:transloading</bizStep>
          <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
          <readPoint>
                                                                                          170 / 257
```

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#### dentsu TRACKING



### 3.7.7 EPCIS - EUD – (3.6) Disaggregation of aggregated level UIs 3.7.7.1 Description

Message 3.6, "Disaggregation of aggregated level UIs", is captured in an EPCIS Aggregation Event (action DELETE) with business step Unpacking, as follows.

EPCIS EUD - Message to report an UID disaggregation	
Field	Values
<aggregationevent></aggregationevent>	Nested
<eventtime></eventtime>	Reference: Event_Time
<eventtimezoneoffset></eventtimezoneoffset>	Time zone offset from UTC in effect at the time and place the event occurred.
<baseextension></baseextension>	" <eventid>" tag containing a UUID that must be generated by the sender and will be used as the recallCode for the message. Example:</eventid>

### 3.7.7.2 Description of the fields

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EPCIS EUD - Message to report an UID disaggregation	
Field	Values
<action></action>	<pre><eventid>urn:uuid:d24aa483-94b5- 4c65-ac3f-8b908ff61647</eventid> DELETE</pre>
       	urn:epcglobal:cbv:bizstep:unpacking
<disposition></disposition>	urn:epcglobal:cbv:disp:in_progress
<readpoint></readpoint>	GLN identifying the facility, <id> expressed as SGLN EPC URI, qualified by <fit:fid> extension to the readPoint, linking the SGLN of the readPoint to the Facility Identifier code, represented by the concatenated GS1 element strings AI(7040) and AI (414), where AI (414) corresponds to the first two segments of the readPoint's SGLN EPC URI, for example: <fit:fid>(7040)5f(414)1234567890128 </fit:fid> <readpoint> <id>urn:epc:id:sgln:1234567.89012.0&lt;</id></readpoint></fit:fid></id>
<parentid></parentid>	/id> Parent ID, in SGTIN EPC URI or SSCC
·	EPC URI
<fit:messagetype></fit:messagetype>	3-6
<fit:eoid></fit:eoid>	Concatenation of GS1 element strings AI(7040) and AI (417), UIM and GLN representing Economic Operator identifier code of submitting entity,
	<fit:eoid epc="urn:epc:id:pgln:1234567.89012"</fit:eoid 
	gs1ElementString="(7040)5f(417)1234 567890128"/>
<fit:comment></fit:comment>	Optional free text comments by reporting entity, limited to 1000 characters.

### 3.7.7.3 Request sample

<?xml version="1.0"?> <epcis:EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2" xmlns:fit="https://gs1.org/cbv/fit" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1\_2.xsd"

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```
creationDate="2019-03-11T16:46:00.000Z">
  <EPCISBodv>
    <EventList>
       <!-- 3.6 -->
       <!-- 3.6.1 -->
       <AggregationEvent>
          <eventTime>2018-12-07T17:17:00.000+01:00</eventTime>
          <eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
          <!-- added UUID -->
          <baseExtension>
            <eventID>urn:uuid:ec59466a-66d1-4977-ae71-c39cacc67c5b</eventID>
          </baseExtension>
          <parentID>urn:epc:id:sscc:1234567.0123456789</parentID>
          <action>DELETE</action>
          <br/><bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
          <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
          <readPoint>
            <id>urn:epc:id:sgln:1234567.89012.0</id>
            <fit:fid>(7040)5v9_(414)1234567890128</fit:fid>
          </readPoint>
          <fit:messageType>3-6</fit:messageType>
          <fit:eoid epc="urn:epc:id:pgln:1234567.89012"
            gs1ElementString="(7040)5f9_(417)1234567890128"/>
          <fit:comment>3.6.1 Disaggregation of aggregated level UIs from logistics unit to
            case</fit:comment>
       </AggregationEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

<?xml version="1.0"?> <epcis:EPCISDocument xmlns:epcis="urn:epcqlobal:epcis:xsd:1" schemaVersion="1.2"</pre> xmlns:fit="https://gs1.org/cbv/fit" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1 2.xsd" creationDate="2019-03-11T16:46:00.000Z"> <EPCISBody> <EventList> <!-- 3.6.2 --> <AggregationEvent> <eventTime>2018-12-07T18:18:00.000+01:00</eventTime> <eventTimeZoneOffset>+01:00</eventTimeZoneOffset> <!-- added UUID --> <baseExtension> <eventID>urn:uuid:8f63493e-bfb9-4d31-a8b5-7dfe2859e8b1</eventID> </baseExtension> <parentID>urn:epc:id:sgtin:1234567.055555.5678901234</parentID> <!-- child EPCs (below) no longer explicity mentioned in complete disagregaton <childEPCs>

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<pre><epc>urn:epc:id:sgtin:1234567.012345.9876543210</epc> <epc>urn:epc:id:sgtin:1234567.012345.87654321098</epc> <epc>urn:epc:id:sgtin:1234567.012345.7654321098</epc> <epc>urn:epc:id:sgtin:1234567.012345.6543210987</epc> <epc>urn:epc:id:sgtin:1234567.012345.5432109876</epc> <epc>urn:epc:id:sgtin:1234567.012345.3210987654</epc> <epc>urn:epc:id:sgtin:1234567.012345.32109876543</epc> <epc>urn:epc:id:sgtin:1234567.012345.1098765432</epc> <epc>urn:epc:id:sgtin:1234567.012345.1098765432</epc> <epc>urn:epc:id:sgtin:1234567.012345.1098765432</epc> <epc>urn:epc:id:sgtin:1234567.012345.12345678901</epc> <epc>urn:epc:id:sgtin:1234567.012345.3456789012</epc> <epc>urn:epc:id:sgtin:1234567.012345.567890123</epc> <epc>urn:epc:id:sgtin:1234567.012345.67890123</epc> <epc>urn:epc:id:sgtin:1234567.012345.678901234</epc> <epc>urn:epc:id:sgtin:1234567.012345.678901234</epc> <epc>urn:epc:id:sgtin:1234567.012345.678901234</epc> <epc>urn:epc:id:sgtin:1234567.012345.678901234</epc> <epc>urn:epc:id:sgtin:1234567.012345.678901234</epc> <epc>urn:epc:id:sgtin:1234567.012345.678901234</epc> <epc>urn:epc:id:sgtin:1234567.012345.6789012345</epc> <epc>urn:epc:id:sgtin:1234567.012345.6789012345</epc> <epc>urn:epc:id:sgtin:1234567.012345.6789012345</epc></pre>
<epc>urn:epc:id:sgtin:1234567.012345.1123456789</epc>
<childepcs></childepcs> <action>DELETE</action>   
<bizstep>urn:epcglobal:cbv:bizstep:unpacking</bizstep> <disposition>urn:epcglobal:cbv:disp:in_progress</disposition> <readpoint></readpoint>
<readpoint> <id>urn:epc:id:sgln:1234567.89012.0</id> <fit:fid>(7040)5f9_(414)1234567890128</fit:fid> </readpoint>
<pre><fit:messagetype>3-6</fit:messagetype> <fit:eoid epc="urn:epc:id:pgln:1234567.89012" gs1elementstring="(7040)5f9_(417)1234567890128"></fit:eoid></pre>
<pre><fit:comment>3.6.2 Disaggregation of aggregated level UIs from case to     carton</fit:comment></pre>

```
<?xml version="1.0"?>
<epcis:EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2"
xmlns:fit="https://gs1.org/cbv/fit" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
creationDate="2019-03-11T16:46:00.000Z">
<EPCISBody>
<EPCISBody>
<EventList>
<!-- 3.6.3 -->
<AggregationEvent>
<eventTime>2018-12-07T19:19:00.000+01:00</eventTime>
<eventTime>2018-12-07T19:19:00.000+01:00</eventTime>
<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
<!-- added UUID -->
<baseExtension>
<eventID>urn:uuid:42c6d3bd-f9e5-4145-b3c3-94c7c4b1490b</eventID>
```

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#### dentsu TRACKING



3.7.8 EPCIS - EVR - (3.7) Report the delivery carried out with a vending van to retail outlet

#### 3.7.8.1 Description

Event sent when UIs have been distributed via a van delivery.

5.7.0.2	5.7.8.2 Description of the news	
EPCIS EVR - Report the delivery carried out with a vending van to retail outlet		
	Field	Values
<objectevent></objectevent>		Nested
<eventtime></eventtime>		Reference: Event_Time
<eventtimezone< td=""><td>Offset&gt;</td><td>Time zone offset from UTC in effect at the time and place the event occurred.</td></eventtimezone<>	Offset>	Time zone offset from UTC in effect at the time and place the event occurred.
<baseextension></baseextension>		" <eventid>" tag containing a UUID that must be generated by the sender and</eventid>

#### 3.7.8.2 Description of the fields

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EPCIS EVR - Report the delivery carried out with a vending van to retail outlet	
Field	Values
	will be used as the recallCode for the message. Example:
	<eventid>urn:uuid:d24aa483-94b5- 4c65-ac3f-8b908ff61647</eventid>
<action></action>	OBSERVE
    	urn:epcglobal:cbv:bizstep:receiving
<disposition></disposition>	urn:epcglobal:cbv:disp:in_progress
<readpoint></readpoint>	GLN identifying the facility, <id> expressed as SGLN EPC URI, qualified by <fit:fid> extension to the readPoint, linking the SGLN of the readPoint to the Facility Identifier code, represented by the concatenated GS1 element strings AI(7040) and AI (414), where AI (414) corresponds to the first two segments of the readPoint's SGLN EPC URI, for example: <fit:fid>(7040)5f(414)1234567890128 </fit:fid></fit:fid></id>
	<readpoint> <id>urn:epc:id:sgln:1234567.89012.0&lt; /id&gt;</id></readpoint>
<epclist></epclist>	EPCs, in SGTIN/SSCC EPC UI or UPUI EPC URI Example: <epc>urn:epc:id:upui:1234567.054321 .5vY)%3C%26Jp3*j7</epc> <epc>urn:epc:id:sgtin:1234567.012345 .9876543210</epc> <epc>urn:epc:id:sscc:1234567.012345 6789</epc>
<fit:messagetype></fit:messagetype>	3-7
<fit:eoid></fit:eoid>	Concatenation of GS1 element strings AI(7040) and AI (417), UIM and GLN representing Economic Operator identifier code of submitting entity,
	<fit:eoid epc="urn:epc:id:pgln:1234567.89012"</fit:eoid 

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EPCIS EVR - Report the delivery carried out with a vending van to retail outlet		
Field	Values	
	gs1ElementString="(7040)5f(417)1234 567890128"/>	
<fit:uitype></fit:uitype>	Reference: UI_Type	
<fit:productreturn></fit:productreturn>	Reference: Product_return	
	Note that you have to use "false" instead of "0" and "true" instead of "1"	
<fit:comment></fit:comment>	Optional free text comments by reporting entity, limited to 1000 characters.	

#### 3.7.8.3 Request sample

<li><!-- 3.7--> <objectevent> <eventtime>2018-12-07T20:20:00.000+01:00</eventtime> <eventtimezoneoffset>+01:00</eventtimezoneoffset> <!-- added UUID--> <baseextension> <eventid>urn:uuid:7acb63af-49ea-42d0-893c-ae6a6c9a657c</eventid> </baseextension> <epclist> <epclist> <action>OBSERVE</action> urn:epc:id:sscc:1234567.0123456789 <!--/epcList--> <action>OBSERVE</action> <bizstep>urn:epcglobal:cbv:bizstep:receiving</bizstep> <disposition>urn:epcglobal:cbv:disp:in_progress</disposition> <readpoint> <fit:fid>(7040)5v9_(414)1234567543215</fit:fid> </readpoint> <fit:messagetype>3-7</fit:messagetype> <fit:uitype>2</fit:uitype> <fit:eoid <br="" epc="urn:epc:id:pgln:1234567.89012">gs1ElementString="(7040)5f9_(417)1234567890128"/&gt; <fit:productreturn>false</fit:productreturn> <fit:comment>3.7 Report of delivery carried out with a vending van to a retail outlet</fit:comment></fit:eoid></epclist></epclist></objectevent></li>	xml version="1.0"? <epcis:epcisdocument <br="" schemaversion="1.2" xmlns:epcis="urn:epcglobal:epcis:xsd:1">xmlns:fit="https://gs1.org/cbv/fit" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd" creationDate="2019-03-11T16:46:00.000Z"&gt; <epcisbody> <epcisbody> <eventlist></eventlist></epcisbody></epcisbody></epcis:epcisdocument>	
	<pre></pre> <pre> </pre> <td></td>	

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</EPCISBody> </epcis:EPCISDocument>

### 3.8 Reporting transactional events (trade information)

#### 3.8.1 EIV - (4.1) Issuing of the invoice

*3.8.1.1 Description.* Added invoice details to a UI.

#### 3.8.1.2 Description of the fields

5.6.1.2 Description of the fields					
Invoice reporting					
Field	Description	Data Type	Cardin ality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = EIV
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М	
Event_Time	Time of event occurrence	Time(s)	S	М	
Message_Time_long	Message sending Time	Time(L)	S	М	
Invoice_Type1	Type of the invoice	Integer	S	М	See InvoiceType
Invoice_Type2	Description of the other type of the invoice	Text(5000)	S	M, if Invoice_ Type1 = 3	
Invoice_Number	Number of the invoice	Text(5000)	S	М	
Invoice_Date	Date of the invoice	Date	S	М	
Invoice_Seller	Identity of the seller	EOID	S	М	
Invoice_Buyer1	Identification if the buyer is located in the EU	Boolean	S	М	0 – No 1 – Yes
Invoice_Buyer2	Identity of the buyer	EOID	S	M, if Invoice_ Buyer1 = 1	
Buyer_Name	Buyer's registered legal name	Text(5000)	S	M, if Invoice_ Buyer1 = 0	
Buyer_Address	Buyer's address	Text(5000)	S	M, if Invoice_ Buyer1 = 0	
Buyer_Address_Name	Buyer's address - Name part of the Address	Text(5000)	S	0	
Buyer_Address_Street One	Buyer's address - Street part of the Address	Text(5000)	S	M, if Invoice_ Buyer1 = 0	
Buyer_Address_StreetT wo	Buyer's address - Second Element of the Street part of the Address	Text(5000)	S	0	
Buyer_Address_City	Buyer's address - City	Text(5000)	S	M, if Invoice_ Buyer1 = 0	

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Invoice reporting					
Field	Description	Data Type	Cardin ality	Priority	Values
Buyer_Address_PostCo de	Buyer's address - PostalCode information	Text(5000)	S	0	
Buyer_CountryReg	Buyer's country of registration	Country	S	M, if Invoice_ Buyer1 = 0	
Buyer_TAX_N	Buyer's tax registration number	Text(5000)	S	M, if Invoice_ Buyer1 = 0	
First_Seller_EU	Identification if the invoice is issued by the first seller in the EU, i.e. the EU manufacturer or the importer, and the product is destined for the EU market	Boolean	S	М	0 - No 1 - Yes
Product_Items_1	List of TPIDs corresponding to the product items listed on the invoice	TPID	М	M, if First_Sell er_EU = 1	
Product_Items_2	List of product numbers corresponding to the product items listed on the invoice (in the same order as product Items 1)	PN	М	M, if First_Sell er_EU = 1	
Product_Price	Net unit packet price per each pair of TPID and product number (in the same order as product_Items_1)	Decimal	М	M, if First_Sell er_EU = 1	
Invoice_Net	Total net amount of the invoice	Decimal	S	М	
Invoice_Currency	Currency of the invoice	Currency	S	М	
UI_Type	Identification of UI types covered by the invoice (recorded at the highest level of available aggregation)	Integer	S	М	<ol> <li>1 - only unit packet</li> <li>level UIs</li> <li>2 - only</li> <li>aggregated level</li> <li>UIs</li> <li>3 - both unit</li> <li>packet and</li> <li>aggregated level</li> <li>UIs</li> </ol>
upUIs	List of unit packet level UIs covered by the invoice	upUI(L)	М	M, if UI_Type = 1 or 3	
aUIs	List of aggregated level UIs covered by the invoice	aUI	М	M, if UI_Type = 2 or 3	
Invoice_comment	Comments by the reporting entity	Text(5000)	S	0	

#### 3.8.1.1 Business validation

EIV (4.1)

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Technical validation	
VAL_EOID_SELLER	Invoice_Seller , EOID field must be equal to the seller EOID (EOID = Invoice_Seller)

#### 3.8.1.2 Response:

Invoice reporting- response						
FieldDescriptionData TypeCardinalityPriorit yValues						
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = EIV	

#### 3.8.1.3 Request sample

{ "EO_ID": "QCUKR+1AB020054",
"Event_Time": "19032014",
"Message_Time_Long":"2019-03-20T14:16:45Z",
"Invoice_Type1": 1,
"Invoice_Type2": "other type",
"Invoice_Number": "INV000001",
"Invoice_Date": "2018-08-23T07:32:20.7878086+00:00",
"Invoice_Seller": "SellerId",
"Invoice_Buyer1": false,
"Invoice_Buyer2": null,
"Buyer_Name": "Buyer1",
"Buyer_Address": "BuyerAddress",
"Buyer_CountryReg": "LU",
"Buyer_TAX_N": "TAX0001",
"First_Seller_EU": 1,
"Product_Items_1": [ "11111-111111","11111-1111112" ],
"Product_Items_2": [ "01234567891234","01234567891235" ],
"Product_Price": [ "16.99", "19.99" ],
"Invoice_Net": 10099.99,
"Invoice_Currency": "EUR",
"UI_Type": 1,
"upUIs": [ "DANXXXXXXXXXXX1PR012345678919030110", "DANXXXXXXXXXX1PR012345678919030110" ],
"aUIs": [ "DANXXXXXXXXXXXX10FA00000119030110" ],
"Invoice_comment": "Comments",
"Message_Type": "EIV",
"Code": "873345b2-882f-4064-91f0-90669b46c30a"
}

#### 3.8.1.4 Successful response sample

HTTP Status 202

{
 "Code": "873345b2-882f-4064-91f0-90669b46c30a",
 "Message\_Type": "EIV",
 "Error": false,
 "Errors": null,
 "Checksum": "G6HF5H"

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#### Error response sample 3.8.1.5

Processing errors						
HTTP status	TTP Error Code Error Description					
<< Com	mon response code >>					
400	FAILED_VALIDATION	VAL_EOID_SELLER				

# 3.8.2 EPO - (4.2) Issuing of the order number

## 3.8.2.1 Description Adds a purchase order event to a UI.

#### 3.8.2.2 Description of the fields

Purchase order event					
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = EPO
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М	
Event_Time	Time of event occurrence	Time(s)	S	М	
Message_Time_I ong	Message sending Time	Time(L)	S	М	
Order_Number	Number of the purchase order	Text	S	М	
Order_Date	Date of the purchase order	Date	S	М	
UI_Type	Identification of UI types covered by the purchase order (recorded at the highest level of available aggregation)	Integer	S	M	1 - only unit packet level UIs 2 - only aggregated level UIs 3 - both unit packet and aggregated level UIs
upUIs	List of unit packet level UIs covered by the purchase order	upUI(L)	М	M, if UI_Type = 1 or 3	
aUIs	List of aggregated level UIs covered by the purchase order	aUI	М	M, if UI_Type = 2 or 3	
Order_comment	Description of the reason for delayed recording of the purchase order	Text(5000)	S	0	

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}

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#### 3.8.2.3 Response:

Purchase order – response						
Field	Description	Data Type	Cardinality	Priorit Y	Values	
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	Μ	Message_Type = EPO	

#### 3.8.2.4 Request sample

{	
"EO_ID": "QCUKR+1AB020054",	
"Event_Time": "19032014",	
"Message_Time_Long":"2019-03-20T14:16:45Z",	
"Order_Number": "1234",	
"Order_Date": "2018-08-23T07:32:20.7878086+00:00",	
"UI_Type": 1,	
"upUIs": [ "DANXXXXXXXXXXXX1PR012345678919030110",	
"DANXXXXXXXXXX1PR012345678919030110" ],	
"aUIs": [ "DANXXXXXXXXXX10FA00000119030110" ],	
"Order_comment": "Comments",	
"Message_Type": "EPO",	
"Code": "873345b2-882f-4064-91f0-90669b46c30a"	
}	

#### 3.8.2.5 Successful response sample

#### HTTP Status 202

{
 "Code": "873345b2-882f-4064-91f0-90669b46c30a",
 "Message\_Type": "EPO",
 "Error": false,
 "Errors": null,
 "Checksum": "G6HF5H"
}

#### 3.8.2.6 Error response sample

Process	ing errors	
HTTP	Error Code	Error Description
status		
<< Com	1mon response code >>	

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# 3.8.3 EPR - (4.3) Receipt of the payment

#### 3.8.3.1 Description Adds a payment record event to a UI.

3.8.3.2 Description of the fields						
Payment record event						
Field	Description	Data Type	Cardinal ity	Priority	Values	
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = EPR	
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М		
Event_Time	Time of event occurrence	Time(s)	S	М		
Message_Time_lo ng	Message sending Time	Time(L)	S	М		
Payment_Date	Date of the payment receipt	Date	S	М		
Payment_Type	Type of payment	Integer	S	М	See PaymentType	
Payment_Amount	Amount of the payment	Decimal	S	М		
Payment_Currenc v	Currency of the payment	Currency	S	М		
Payment_Payer1	Identification if the payer is located in the EU	Boolean	S	М	0 – No 1 – Yes	
Payment_Payer2	Identity of the payer	EOID	S	M, if Payment_P ayer1 = 1		
Payer_Name	Payer's registered legal name	Text(5000)	S	M, if Payment_P ayer1= 0		
Payer_Address	Buyer's address	Text(5000)	S	M, if Payment_P ayer1= 0		
Payer_Address_N ame	Buyer's address - Name part of the Address	Text(5000)	S	0		
Payer_Address_St reetOne	Buyer's address - Street part of the Address	Text(5000)	S	M, if Payment_P ayer1= 0		
Payer_Address_St reetTwo	Payer's address - Second Element of the Street part of the Address	Text(5000)	S	0		
Payer_Address_Ci ty	Payer's address - City	Text(5000)	S	M, if Payment_P ayer1= 0		
Payer_Address_P ostCode	Payer's address - PostalCode information	Text(5000)	S	0		
Payer_CountryRe g	Payer's country of registration	Country	S	M, if Payment_P ayer1 = 0		
Payer_TAX_N	Payer's tax registration number	Text(5000)	S	M, if Payment_P ayer1 = 0		
Payment_Recipien t	Identity of the recipient	EIOD	S	M		
Payment_Invoice	Indication if the payment corresponds to the existing invoice	Boolean	S	М	0 - No 1 - Yes	

#### 2022 Description of the fields

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	Payment record event						
Field	Description	Data Type	Cardinal ity	Priority	Values		
Invoice_Paid	Number of the invoice paid with the payment	Text(5000)	S	M, if Payment_In voice = 1			
UI_Type	Identification of UI types covered by the payment (recorded at the highest level of available aggregation)	Integer	S	M, if Payment_In voice = 0	1 – only unit packet level UIs 2 – only aggregated level UIs 3 – both unit packet and aggregated level UIs		
upUIs	List of unit packet level UIs covered by the payment	upUI(L)	М	M, if AND Payment_In voice = 0 UI_Type = 1 or 3			
aUIs	List of aggregated level UIs covered by the payment	aUI	М	M, if AND Payment_In voice = 0 UI_Type = 2 or 3			
Payment_comme nt	Comments by the reporting entity	Text(5000)	S	0			

#### 3.8.3.3 Business validation

	EPR (4.3)
Technical validation	
VAL_EOID_PAYMENT_RECIPIENT	Payment_Recipient, Technical validation recipient identity of the payment (EOID = Payment_Recipient)

#### 3.8.3.4 Response:

Payment record – response						
Field	Description	Data Type	Cardinality	Priorit Y	Values	
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	Μ	Message_Type = EPR	

# 3.8.3.5 Request sample

{
 "EO\_ID": "QCUKR+1AB020054",
 "Event\_Time": "19032014",
 "Message\_Time\_Long": "2019-03-20T14:16:45Z",
 "Payment\_Date": "2018-08-23T07:32:20.7878086+00:00",
 "Payment\_Type": 1,
 "InvoiceType": 1,
 "UI\_Type": 1,

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"Payment\_Amount": 1.99, "Payment\_Currency": "EUR", "Payment\_Payer1": true, "Payment\_Payer2": "PayerId", "Payer\_Name": "PayerNmae", "Payer\_Address": "Address", "Payer\_CountryReg": "UK", "Payer TAX N": "TaxId", "Payment\_Recipient": "PaymentRecipient", "Payment\_Invoice": 1, "Invoice\_Paid": "test", "upUIs": [ "DANXXXXXXXXXXX1PR012345678919030110", "DANXXXXXXXXXXX2PR012345678919030110" ], "aUIs": [ "DANXXXXXXXXX10FA00000119030110", "DANXXXXXXXXXX20FA00000119030110" ], "Payment\_comment": "Comments", "Message\_Type": "EPR" "Code": "873345b2-882f-4064-91f0-90669b46c30a" }

#### 3.8.3.6 Successful response sample

#### HTTP Status 202

{ "Code": "873345b2-882f-4064-91f0-90669b46c30a", "Message\_Type": "EPR", "Error": false, "Errors": null, "Checksum": "G6HF5H" }

# 3.8.3.7 Error response sample Processing errors HTTP status << Common response code >> 400 FAILED\_VALIDATION VAL\_EOID\_PAYMENT\_RECIPIENT

# 3.9 EDI - Reporting transactional events (trade information)

# 3.9.1 EDI - EIV - (4.1) Issuing of the invoice

*3.9.1.1 Description.* Added invoice details to a UI.

Field	Comments	Data Type	Car din- ality	Priority	Values	XML
Message_Type	Identification of message type	Text	S	М	4-1	<invoicetype>INVOICEvoiceType&gt;</invoicetype>
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М		<contentowner> <gln>4098765000010&gt; <additionalpartyidentificat ion additionalPartyIdentificati onTypeCode="EOID"&gt;5v1_ 4098765000010alPartyIdentification&gt; </additionalpartyidentificat </gln></contentowner>
Event_Time	Time of event occurrence	Time(s)	S	М		<pre><creationdatetime>2019- 04-11T08:15:00.000- 05:00&gt;</creationdatetime></pre>
Invoice_Type1	Type of the invoice	Integer	S	М	1 – Original 2 – Correction 3 – Other	Example Invoice A (Original): <documentstatuscode>OR IGINALode&gt; <invoicetype>INVOICEvoiceType&gt; Example Invoice B (Other): <documentstatuscode>OR IGINALode&gt;</documentstatuscode></invoicetype></documentstatuscode>

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						<invoicetype>OTHERoiceType&gt;</invoicetype>
Invoice_Type2	Description of the other type of the invoice	Text(50 00)	S	M, if Invoice_Ty pe1 = 3		Example Invoice B: (Other): <documentstatuscode>OR IGINALode&gt; <invoicetype>OTHERoiceType&gt; <invoicetypedescription languageCode="en"&gt;Descr iption of another type of invoiceiption&gt;</invoicetypedescription </invoicetype></documentstatuscode>
Invoice_Numbe r	Number of the invoice	Text(50 00)	S	М		<entityidentification>IN19 - 548</entityidentification>
Invoice_Date	Date of the invoice	Date	S	M		<pre><creationdatetime>2019- 04-11T08:15:00.000- 05:00&gt;</creationdatetime></pre>
Invoice_Seller	Identity of the seller	EOID	S	M		<additionalpartyidentificat ion additionalPartyIdentificati onTypeCode="EOID"&gt;5v1_ 4098765000010alPartyIdentification&gt;</additionalpartyidentificat 
Invoice_Buyer1	Identification if the buyer is located in the EU	Boolea n	S	м	0 – No 1 – Yes	<isbuyerbasedineu>true</isbuyerbasedineu>
Invoice_Buyer2	Identity of the buyer	EOID	S	M, if Invoice_Bu yer1 = 1		<additionalpartyidentificati on additionalPartyIdentificatio nTypeCode="EOID"&gt;5v1_5 412345000013PartyIdentification&gt;</additionalpartyidentificati 
Buyer_Name	Buyer's registered legal name	Text(50 00)	S	M, if Invoice_Bu yer1 = 0		<organisationdetails> <organisationname>ACME Stores&gt; </organisationname></organisationdetails>
Buyer_Address	Buyer's address – street name, house number, postal code, city	Text(50 00)	S	M, if Invoice_Bu yer1 = 0		<city>Bruxelles</city> <postalcode>1050Code&gt; <streetaddressone>Avenu</streetaddressone></postalcode>
						e Louise 326 <streetaddressone></streetaddressone>

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						<streetaddresstwo>Ixelles </streetaddresstwo>
Buyer_Country Reg	Buyer's country of registration	Countr y	S	M, if Invoice_Bu yer1 = 0		<countrycode>BEyCode&gt;</countrycode>
Buyer_TAX_N	Buyer's tax registration number	Text(50 00)	S	M, if Invoice_Bu yer1 = 0		<dutyfeetaxregistrationid &gt; SE556667677001eTaxRegistrationID&gt;</dutyfeetaxregistrationid 
First_Seller_EU	Identification if the invoice is issued by the first seller in the EU, i.e. the EU manufacturer or the importer, and the product is destined for the EU market	Boolea n	S	М	0 – No 1 – Yes	<isfirstsellerbasedineu>fal se&gt;</isfirstsellerbasedineu>
Product_Items_ 1	List of TPIDs corresponding to the product items listed on the invoice	TPID	М	M, if First_Seller _EU = 1		<additionaltradeltemident ification additionalTradeltemIdenti ficationTypeCode="TPID"&gt; 02565-16-00555<!--<br-->additionalTradeltemIdenti fication <additionaltradeltemident ification additionalTradeltemIdent ification additionalTradeltemIdenti ficationTypeCode="TPID"&gt; 03456-16-00636"<!--<br-->additionalTradeltemIdenti fication</additionaltradeltemident </additionaltradeltemident 
Product_Items_ 2	List of product numbers corresponding to the product items listed on the invoice (in the same order as Product_Items_1)	PN	M	M, if First_Seller _EU = 1		<pre><gtin>01234567543215<!--<br-->gtin&gt; <gtin>01234567890128<!--<br-->gtin&gt;</gtin></gtin></pre>
Product_Price	Net unit packet price per each pair of TPID and product number (in the same order as Product_Items_1)	Decima I	M	M, if First_Seller _EU = 1		<itempriceinclusiveallowa ncesCharges currencyCode="EUR"&gt;10&lt; /itemPriceInclusiveAllowa ncesCharges&gt; <itempriceinclusiveallowa ncesCharges</itempriceinclusiveallowa </itempriceinclusiveallowa 

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Invoice_Net	Total net amount of the invoice	Decima I	S	М		currencyCode="EUR">20< /itemPriceInclusiveAllowa ncesCharges> <totaltaxbasisamount currencyCode="EUR"&gt;60&lt; /totalTaxBasisAmount&gt;</totaltaxbasisamount 
Invoice_Currenc	Currency of the invoice	Curren cy	S	М		<invoicecurrencycode>EU R</invoicecurrencycode>
UI_Type	Identification of UI types covered by the invoice (recorded at the highest level of available aggregation)	Integer	S	М	<ul> <li>1 - only unit</li> <li>packet level UIs</li> <li>2 - only</li> <li>aggregated level</li> <li>UIs</li> <li>3 - both unit</li> <li>packet and</li> <li>aggregated level</li> <li>UIs</li> </ul>	<euuniqueidtypecode>3&lt; /euUniqueIDTypeCode&gt;</euuniqueidtypecode>
upUls	List of unit packet level UIs covered by the invoice	upUI(L)	M	M, if UI_Type = 1 or 3		<unitpacketleveluniqueld entifier&gt;5vY)&lt;&amp;Jp3*j7012 34567543215LevelUniqueldentifier&gt; <unitpacketleveluniqueld entifier&gt;5vPxbrJk3th50123 4567890128evelUniqueldentifier&gt;</unitpacketleveluniqueld </unitpacketleveluniqueld 
aUIs	List of aggregated level UIs covered by the invoice	aUI	М	M, if UI_Type = 2 or 3		<aggregatedleveluniqueld entifier&gt;10614141234567 8908iqueldentifier&gt;</aggregatedleveluniqueld 
Invoice_comme nt	Comments by the reporting entity	Text(50 00)	S	0		<note languageCode="en"&gt;A comment about this invoice</note 

#### 3.9.1.2 EDI invoiceMessage Example

xml version="1.0" encoding="UTF</th <th>-8"?&gt;</th>	-8"?>
<invoice:invoicemessage td="" xmlns:invo<=""><td>sice="urn:gs1:ecom:invoice:xsd:3" xmlns:eanucc="urn:ean.ucc:2"</td></invoice:invoicemessage>	sice="urn:gs1:ecom:invoice:xsd:3" xmlns:eanucc="urn:ean.ucc:2"
xmlns:sh="http://www.unece.org/c	efact/namespaces/StandardBusinessDocumentHeader"
xmlns:xsi="http://www.w3.org/2002	1/XMLSchema-instance" xsi:schemaLocation="urn:gs1:ecom:invoice:xsd:3
/Schemas/gs1/ecom/Invoice.xsd">	
<sh:standardbusinessdocumenth< td=""><td>leader&gt;</td></sh:standardbusinessdocumenth<>	leader>
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#### dentsu TRACKING

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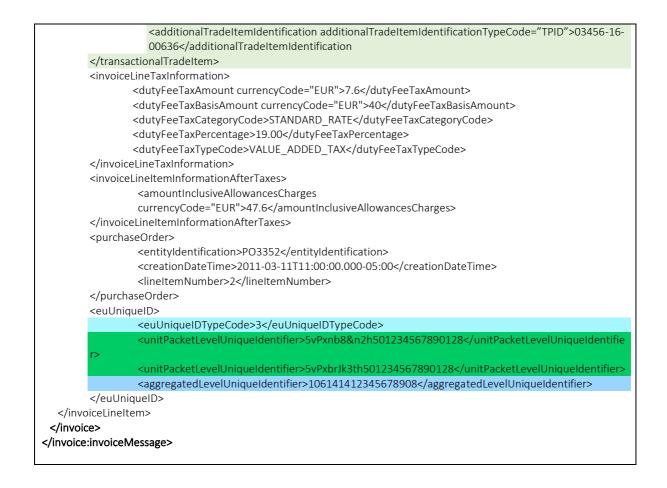
### dentsu TRACKING

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# 3.9.2 EDI - EPO - (4.2) Issuing of the order number

#### 3.9.2.1 Description

Adds a purchase order event to a UI.

Field	Comments	Data Type	Cardin- ality	Priority	Values	XML
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EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М		<contentowner> <gln>4098765000010</gln> <additionalpartyidentification n additionalPartyIdentification TypeCode="EOID"&gt;5v1_409 8765000010tyIdentification&gt; </additionalpartyidentification </contentowner>

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Order_Date	Date of the purchase order	Date	S	M		<pre><creationdatetime>2019- 04-11T08:00:00.000- 05:00</creationdatetime></pre>
UI_Type	Identification of UI types covered by the purchase order (recorded at the highest level of available aggregation)	Integer	S	М	1 – only unit packet level Uls 2 – only aggregated level Uls 3 – both unit packet and aggregated level Uls	<euuniqueidtypecode>3</euuniqueidtypecode>
upUIs	List of unit packet level UIs covered by the purchase order	upUI(L)	м	M, if UI_Typ e = 1 or 3		<unitpacketleveluniquelden tifier&gt;5vY)&lt;&amp;Jp3*j70123456 7543215niqueldentifier&gt; <unitpacketleveluniquelden tifier&gt;5vPxbrJk3th50123456 7543215niqueldentifier&gt;</unitpacketleveluniquelden </unitpacketleveluniquelden 
aUIs	List of aggregated level UIs covered by the purchase order	aUI	М	M, if UI_Typ e = 2 or 3		<aggregatedleveluniqueide ntifier&gt;10614141234567890 8dentifier&gt;</aggregatedleveluniqueide 
Order_commen t	Description of the reason for delayed recording of the purchase order	Text(500 0)	S	0		<note languageCode="en"&gt;Check markings on cases, there was a problem with past orders. This is general information only, not to be processed by your system.</note 

#### 3.9.2.2 EDI orderMessage Example

<?xml version="1.0" encoding="UTF-8"?> <order:orderMessage xmlns:order="urn:gs1:ecom:order:xsd:3" xmlns:sh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:gs1:ecom:order:xsd:3" ../Schemas/gs1/ecom/Order.xsd">

<sh:StandardBusinessDocumentHeader>

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<sh:headerversion>1.0</sh:headerversion>	
<sh:sender></sh:sender>	
<sh:identifier authority="GS1">5412345000013</sh:identifier>	
<sh:contactinformation></sh:contactinformation>	
<sh:contact>John Doe</sh:contact>	
<sh:emailaddress>John_Doe@purchasing.XYZretailer.com</sh:emailaddress>	
<sh:faxnumber>+1-212-555-1213</sh:faxnumber>	
<sh:telephonenumber>+1-212-555-2122</sh:telephonenumber>	
<sh:contacttypeidentifier>Buyer</sh:contacttypeidentifier>	
<sh:receiver></sh:receiver>	
<sh:identifier authority="GS1">4098765000010</sh:identifier>	
<sh:contactinformation></sh:contactinformation>	
<sh:contact>Mary Smith</sh:contact>	
<sh:emailaddress>Mary_Smith@widgets.com</sh:emailaddress>	
<sh:faxnumber>+1-312-555-1214</sh:faxnumber>	
<sh:telephonenumber>+1-312-555-2125</sh:telephonenumber>	
<sh:contacttypeidentifier>Seller</sh:contacttypeidentifier>	
<sh:documentidentification></sh:documentidentification>	
<sh:standard>GS1</sh:standard>	
<sh:typeversion>3.4</sh:typeversion>	
<sh:instanceidentifier>100002</sh:instanceidentifier>	
<sh:type></sh:type>	
<sh:multipletype>false</sh:multipletype> <sh:creationdateandtime>2019-04-11T08:00:01.000-05:00</sh:creationdateandtime>	
<t< td=""><td></td></t<>	
<pre></pre> <pre></pre>	
<pre><creationdatetime>2019-04-11T08:00:00.000-05:00</creationdatetime></pre>	
<pre><documentstatuscode>ORIGINAL</documentstatuscode></pre>	
<pre><orderldentification></orderldentification></pre>	
<entityidentification>PO3352</entityidentification>	
<contentowner></contentowner>	
<pre><gl>&gt;5412345000013</gl></pre>	
<additionalpartyidentification< td=""><td></td></additionalpartyidentification<>	
additionalPartyIdentificationTypeCode="EOID">5v1_5412345000013	
<ordertypecode>220</ordertypecode>	
<isorderfreeofexcisetaxduty>false</isorderfreeofexcisetaxduty>	
<note languagecode="en">Check markings on cases, there was a problem with past orders. This is general</note>	
information only, not to be processed by your system.	
  suyer>	
<pre><gin>5412345000013</gin></pre>	
<seller></seller>	
<gln>4098765000010</gln>	
<seller></seller>	
<orderlogisticalinformation></orderlogisticalinformation>	
<shipto></shipto>	
<pre><gin>5412345000037</gin></pre>	
<orderlogisticaldateinformation></orderlogisticaldateinformation>	

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#### dentsu TRACKING

	ryDateTime> <date>2011-04-11</date>
-	isticalDateInformation>
_	calInformation>
<orderlineiter< td=""><td></td></orderlineiter<>	
	umber>1
	IQuantity>2
	yCode="EUR">10
	nalTradeltem>
-	1234567543215
•	onalTradeltem>
<euunique< td=""><td></td></euunique<>	
	queIDTypeCode>3
	Jniqueldentifier>5vY)<&Jp3*j701234567543215
	Jniqueldentifier>5vPxbrJk3th501234567543215
	UniqueIdentifier>106141412345678908
<td></td>	
<levieddut< td=""><td>•</td></levieddut<>	•
	PTaxAmount currencyCode="EUR">3.8
-	eTaxBasisAmount currencyCode="EUR">20
-	PTaxPercentage>19.00
	eTaxTypeCode>VAT
<td></td>	
<td></td>	
<orderlineite< td=""><td></td></orderlineite<>	
	umber>2
	IQuantity>2
	yCode="EUR">20
	nalTradeltem>
-	1234567890128 onalTradeItem>
•	
euUnique>	queIDTypeCode>3
	quelDTypeCode>3
	Jniqueldentifier>5vPxnb8&n2h501234567890128
	Jniqueldentifier>5vPxbrJk3th501234567890128
	UniqueIdentifier>106141412345678908
<td></td>	
<levieddut< td=""><td></td></levieddut<>	
	aTaxAmount currencyCode="EUR">7.6
	araxAnount currencyCode="EUR">40
-	araxbasisAmount currencycode - con >40-, duty ee axbasisAmount>
	axreicentage>13.00
<td></td>	
<td></td>	
<td>sage&gt;</td>	sage>
	~~~~~~
1	

#### 3.9.3 EDI - EPR - (4.3) Receipt of the payment

#### 3.9.3.1 Description

#### Adds a payment record event to a UI.

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Field	Comments	Data Type	Cardi n- ality	Priority	Values	XML
Message_Type	Identification of message type	Text	S	M	4-3	<settlementhandlingtype Code&gt;REMITTANCE_ONLY </settlementhandlingtype  Code>
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M		<contentowner> <gln>4098765000010&gt; <additionalpartyidentificat ion additionalPartyIdentificati onTypeCode="EOID"&gt;5v1_ 4098765000010alPartyIdentification&gt; </additionalpartyidentificat </gln></contentowner>
Event_Time	Time of event occurrence	Time(s)	S	M		<pre><creationdatetime>2019- 04-11T08:15:00.000- 05:00&gt;</creationdatetime></pre>
Payment_Date	Date of the payment receipt	Date	S	M		<creationdatetime>2019- 04-11T11:00:00.000- 05:00</creationdatetime>
Payment_Type	Type of payment	Integer	S	м	1 – bank transfer 2 – bank card 3 – cash 4 – other	<paymentmethodcode>B ANK_GIROhodCode&gt;</paymentmethodcode>
Payment_Amou nt	Amount of the payment	Decima I	S	М		<totalamountcurrencycod e="EUR"&gt;1.99nt&gt;</totalamountcurrencycod 
Payment_Curre ncy	Currency of the payment	Curren cy	S	м		<totalamountcurrencycod e="EUR"&gt;1.99nt&gt;</totalamountcurrencycod 
Payment_Payer 1	Identification if the payer is located in the EU	Boolea n	S	М	0 – No 1 – Yes	<ispayerbasedineu>false<!--<br-->isPayerBasedInEu&gt;</ispayerbasedineu>
Payment_Payer 2	Identity of the payer	EOID	S	M, if Payment _Payer1 = 1		<additionalpartyidentificat ionadditionalPartyIdentific ationTypeCode ="EOID"&gt;5v1_4098765000 010ification&gt;</additionalpartyidentificat 
Payer_Name	Payer's registered legal name	Text(50 00)	S	M, if Payment		<name>GS1 AISBL</name>

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				_Payer1= 0		
Payer_Address	Payer's address – street name, house number, postal code and city	Text(50 00)	S	M, if Payment _Payer1= 0		<streetaddressone>Avenu e Louise 326<streetaddressone> <streetaddresstwo>Ixelles </streetaddresstwo> <city>Bruxelles</city> <postalcode>1050Code&gt;</postalcode></streetaddressone></streetaddressone>
Payer_CountryR eg	Payer's country of registration	Countr y	S	M, if Payment _Payer1 = 0		<countrycode>BEyCode&gt;</countrycode>
Payer_TAX_N	Payer's tax registration number	Text(50 00)	S	M, if Payment _Payer1 = 0		<dutyfeetaxregistrationid &gt;TAX0001gistrationID&gt;</dutyfeetaxregistrationid 
Payment_Recipi ent	Identity of the recipient	EOID	S	M		payee <additionalpartylden tificationadditionalPartyld entificationTypeCode ="EOID"&gt;5v1a_541234500 0013</additionalpartylden  tification>
Payment_Invoic e	Indication if the payment corresponds to the existing invoice	Boolea n	S	М	0 – No 1 – Yes	<ispaymentcorresponding ToExistingInvoice&gt;true<!--<br-->isPaymentCorrespondingT oExistingInvoice&gt;</ispaymentcorresponding 
Invoice_Paid	Number of the invoice paid with the payment	Text(50 00)	S	M, if Payment _Invoice = 1		<entityidentification>IN11 - 548</entityidentification>
UI_Type	Identification of UI types covered by the payment (recorded at the highest level of available aggregation)	Integer	S	M, if Payment _Invoice = 0	<ul> <li>1 – only unit</li> <li>packet level UIs</li> <li>2 – only</li> <li>aggregated level</li> <li>UIs</li> <li>3 – both unit</li> <li>packet and</li> <li>aggregated level</li> <li>UIs</li> </ul>	<euuniqueidtypecode>3&lt; /euUniqueIDTypeCode&gt;</euuniqueidtypecode>
upUls	List of unit packet level UIs covered by the payment	upUI(L)	М	M, if Payment _Invoice = 0 and UI_Type = 1 or 3		<unitpacketleveluniqueld entifier&gt;5vY)&lt;&amp;Jp3*j7012 34567543215LevelUniqueldentifier&gt; <unitpacketleveluniqueld entifier&gt;5vPxbrJk3th50123 4567890128evelUniqueldentifier&gt;</unitpacketleveluniqueld </unitpacketleveluniqueld 

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aUIs	List of aggregated	aUI	М	M, if	<aggregatedleveluniqueid< th=""></aggregatedleveluniqueid<>
	level UIs covered by			Payment	entifier>10614141234567
	the payment			_Invoice	8908
				= 0 and	iqueldentifier>
				UI_Type	
				= 2 or 3	
Payment_comm	Comments by the	Text(50	S	0	<note< td=""></note<>
ent	reporting entity	00)			languageCode="en">A
					comment or note about
					this settlement

# 3.9.3.2 EDI settlementMessage Example

<?xml version="1.0" encoding="UTF-

8"?><settlement:settlementMessagexmlns:settlement="urn:gs1:ecom:settlement:xsd:3" xmlns:sh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="urn:gs1:ecom:settlement:xsd:3 ../Schemas/gs1/ecom/Settlement.xsd"> <sh:StandardBusinessDocumentHeader>

<sh:HeaderVersion>1.0</sh:HeaderVersion>

<sh:Sender>

<sh:Identifier Authority="GS1">5412345000013</sh:Identifier>

<sh:ContactInformation>

<sh:Contact>John Doe</sh:Contact>

<sh:EmailAddress>John Doe@purchasing.XYZretailer.com</sh:EmailAddress>

<sh:FaxNumber>+1-212-555-1213</sh:FaxNumber>

<sh:TelephoneNumber>+1-212-555-2122</sh:TelephoneNumber>

<sh:ContactTypeIdentifier>Buyer</sh:ContactTypeIdentifier>

</sh:ContactInformation>

</sh:Sender>

<sh:Receiver>

<sh:Identifier Authority="GS1">4098765000010</sh:Identifier>

<sh:ContactInformation>

<sh:Contact>Mary Smith</sh:Contact>

<sh:EmailAddress>Mary\_Smith@widgets.com</sh:EmailAddress>

```
<sh:FaxNumber>+1-312-555-1214</sh:FaxNumber>
```

<sh:TelephoneNumber>+1-312-555-2125</sh:TelephoneNumber>

<sh:ContactTypeIdentifier>Seller</sh:ContactTypeIdentifier>

</sh:ContactInformation>

</sh:Receiver>

<sh:DocumentIdentification>

<sh:Standard>GS1</sh:Standard>

<sh:TypeVersion>3.4</sh:TypeVersion>

<sh:InstanceIdentifier>xyz123456/sh:InstanceIdentifier>

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<sh:Type/>

<sh:MultipleType>false</sh:MultipleType>

<sh:CreationDateAndTime>2006-01-10T12:00:01.000-05:00</sh:CreationDateAndTime>

</sh:DocumentIdentification>

</sh:StandardBusinessDocumentHeader>

<settlement>

<creationDateTime>2019-04-11T11:00:00.000-05:00</creationDateTime>

<documentStatusCode>ORIGINAL</documentStatusCode>

<settlementIdentification>

<entityIdentification>SE25709</entityIdentification>

<contentOwner>

<gln>5412345000013</gln>

<additionalPartyIdentificationadditionalPartyIdentificationTypeCode="EOID">5v1\_54123450 00013</additionalPartyIdentification>

</contentOwner>

</settlementIdentification>

<settlementHandlingTypeCode>REMITTANCE\_ONLY</settlementHandlingTypeCode>

<isPayerBasedInEu>false</isPayerBasedInEu>

<note languageCode="en">A comment or note about this settlement</note> <payer>

<gln>5412345000013</gln>

<additionalPartyIdentificationadditionalPartyIdentificationTypeCode

="EOID">5v1\_5412345000013</additionalPartyIdentification>

<address>

<city>Bruxelles</city>

<countryCode>BE</countryCode>

<name>GS1 AISBL</name>

<postalCode>1050</postalCode>

<streetAddressOne>Avenue Louise 326<streetAddressOne>

<streetAddressTwo>Ixelles</streetAddressTwo>

</address>

<dutyFeeTaxRegistration>

<dutyFeeTaxRegistrationID>SE556667677001</dutyFeeTaxRegistrationID>

</dutyFeeTaxRegistration>

</payer>

<payee>

<gln>4098765000010</gln>

<additionalPartyIdentificationadditionalPartyIdentificationTypeCode

="EOID">5v1a4098765000010</additionalPartyIdentification>

<financialInstitutionInformation>

<financialAccount>

<financialAccountNumber>NL62510007547061</financialAccountNumber>

<financialAccountNumberTypeCode>CHECKING\_ACCOUNT</financialAccountNumberTypeCode>

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<financialAccountName>DUTCHBANK</financialAccountName> </financialAccount> </financialInstitutionInformation> </payee> <paymentMethod> <paymentMethodCode>BANK GIRO</paymentMethodCode> </paymentMethod> <settlementLineItem> <lineItemNumber>1</lineItemNumber> <amountPaidcurrencyCode="EUR">71.4</amountPaid> <isPaymentCorrespondingToExistingInvoice>true</ isPaymentCorrespondingToExistingInvoice> <settlementParty> <gln>5412345000013</gln> <partyRoleCode>BUYER</partyRoleCode> </settlementParty> <invoice> <entityIdentification>IN19-548</entityIdentification> <contentOwner> <gln>4098765000010</gln> </contentOwner> <invoiceTypeCode>INVOICE</invoiceTypeCode> </invoice> </settlementLineItem> <settlementLineItem> lineItemNumber>1</lineItemNumber> <amountPaidcurrencyCode="EUR">380</amountPaid> <originalAmountcurrencyCode="EUR">480</originalAmount> <settlementParty> <gln>5412345000174</gln> <partyRoleCode>STORE</partyRoleCode> </settlementParty> <invoice> <entityIdentification>IN11-549</entityIdentification> <contentOwner> <gln>4098765000010</gln> </contentOwner> <invoiceTypeCode>INVOICE</invoiceTypeCode> </invoice> <euUniqueID> <euUniqueIDTypeCode>3</euUniqueIDTypeCode> <unitPacketLevelUniqueIdentifier>5vY)<&Jp3\*j701234567543215</unitPacketLevelUniqueIdentifier>

<unitracketLevelOniqueidentifier>5vPxbrJk3th501234567890128</unitracketLevelUniqueIdentifier>
 <aggregatedLevelUniqueIdentifier>106141412345678908</aggregatedLevelUniqueIdentifier>
 </euUniqueID>

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</settlementLineItem> </settlement> </settlement:settlementMessage>

#### 3.10 Recall

3.10.1 RCL – (5.0) Recalls of requests, operational and transactional messages

#### 3.10.1.1 Description

Given a recall id ("Code" in the return of any message) The caller can mark that event invalid.

This is possible for message types 2-1, 2-2, 3-1 to 3-7, 4-1, 4-2 and 4-3)

	Recall – request							
Field	Description	Data Type	Cardinality	Priority	Values			
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = RCL			
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М				
Message_Time _long	Message sending Time	Time(L)	S	М				
Recall_Reason 1	Reason for recalling the original message	Integer	S	М	See RecallReasonType			
Recall_Reason 2	Description of the reason for recalling the original message	Text(5000)	S	M, if Recall_ Reason 1 = 3 (other reason)				
Recall_Reason 3	Any additional explanations on the reason for recalling the original message	Text(5000)	S	0				

#### 3.10.1.2 Description of the fields

#### *3.10.1.3 Response:*

Recall – response						
Field	Description	Data Type	Cardinality	Priorit Y	Values	
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	Μ	Message_Type = RCL	

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#### 3.10.1.4 Request sample

{
 "EO\_ID":"QCUKR+1AB020054",
 "Message\_Time\_Long":"2019-03-20T14:16:45Z",
 "RecallReason1":1,
 "RecallReason2":1,
 "RecallReason3":"Comments",
 "Message\_Type":"RCL",
 "Code": "873345b2-882f-4064-91f0-90669b46c30a"
}

#### 3.10.1.5 Successful response sample

HTTP Status 202

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "RCL",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

#### 3.10.1.6 Error response sample

HTTP status	Error Code	Error Description
<< Com	mon response code >>	
400	RECALL_AFTER_ONE_WORKING_DAY	For requests of unit level or aggregated level UIs (ISU, ISA), recalls can be performed up to one working day after the original message.
400	RECALL_NOT_LAST_EVENT	Recall code not found: ERROR: The provided recall code does not exist.
		Recallcode not the last event ERROR: Please note that a recall can only be performed on valid messages that refered to UIs which were not later used in other messages.

# 3.11 EPCIS - Recall

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#### EPCIS - RCL - (5) Recalls of requests, operational messages 3.11.1 3.11.1.1 Description

```
<?xml version="1.0"?>
<epcis:EPCISDocument xmlns:epcis="urn:epcqlobal:epcis:xsd:1" schemaVersion="1.2"</pre>
  xmlns:fit="https://gs1.org/cbv/fit" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
  creationDate="2019-03-11T16:46:00.000Z">
  <EPCISBody>
     <EventList>
        <!-- ERROR DECLARATION (5 - Recalls of requests, operational and transactional
messages) example follows -->
       <ObjectEvent>
          <eventTime>2018-12-04T13:13:00.000+01:00</eventTime>
          <eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
          <baseExtension>
             <!-- including UUID of original, erroneous event -->
             <eventID>urn:uuid:dc58edda-c24f-4416-9dc9-a5f41e58b76f</eventID>
             <errorDeclaration>
               <declarationTime>2018-12-07T21:21:00.000+01:00</declarationTime>
               <reason>urn:epcglobal:cbv:er:did_not_occur</reason>
            </errorDeclaration>
          </baseExtension>
          <epcList>
             <epc>urn:epc:id:sscc:1234567.0123456789</epc>
          </epcList>
          <action>OBSERVE</action>
          <br/><bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
          <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
          <readPoint>
             <id>urn:epc:id:sgln:1234567.54321.0</id>
             <fit:fid>(7040)5v9_(414)1234567543215</fit:fid>
          </readPoint>
          <fit:messageType>3-3</fit:messageType>
          <fit:uiType>2</fit:uiType>
          <fit:eoid epc="urn:epc:id:pgln:1234567.89012"
gs1ElementString="(7040)5f(417)1234567890128"/>
          <fit:destinationID1>2</fit:destinationID1>
          <fit:destinationIDList>
             <fit:destinationID type="2" epc="urn:epc:id:sgln:0614141.00777.0"
gs1ElementString="(7040)5v9_(414)0614141007776"/>
             <fit:destinationID type="2" epc="urn:epc:id:sgln:0614141.00778.0"
gs1ElementString="(7040)5v9_(414)0614141007783"/>
          </fit:destinationIDList>
          <fit:destinationID5name>Ramos Tobacco</fit:destinationID5name>
          <fit:destinationID5streetAddressOne>Plaza de Espaga,
1</fit:destinationID5streetAddressOne>
          <fit:destinationID5streetAddressTwo/>
          <fit:destinationID5city>Mostoles</fit:destinationID5city>
          <fit:destinationID5postalCode>28934</fit:destinationID5postalCode>
          <fit:destinationID5countryCode>ES</fit:destinationID5countryCode>
          <fit:transportMode>3</fit:transportMode>
          <fit:transportVehicle>(E)IXX359</fit:transportVehicle>
          <fit:transportCont2>(00)012345671234567893</fit:transportCont2>
                                                                                          205 / 257
```

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<fit:transports1>false</fit:transports1>
<pre><fit:transports2>(00)012345671234567893</fit:transports2></pre>
<fit:emcsarc>12ES000000006107577</fit:emcsarc>
<fit:saadnumber>3649/92sample</fit:saadnumber>
<pre><fit:expdeclarationnumber>01ES45671234567893</fit:expdeclarationnumber></pre>
<pre><fit:comment>5 Recalls of requests, operational and transactional</fit:comment></pre>
messages
end of ERROR DELCARATION example

# 3.12 Flat file and registry file upload initiation service 3.12.1 ULO – Flat file and registry File upload

#### 3.12.1.1 Description

This initial ULO request allows the caller to gain permission and details in order to upload a file.

Flat file initiation – request							
Field	Description	Data Type	Cardinality	Priority	Values		
Message_Ty pe	The identifier of the type of message	Text	S	М	Message_Type = ULO		
ID_Issuer	ID Issuer code compliant with ISO/IEC 15459 regulation	IIID	S	Μ			
File_Type	The type of the file intended to be uploaded	int	S	М	1– Registry file 2 – Flat file		
Callback_Url	The URL on the ID Issuer side that will be called asynchronously	Text(5000)	S	0			

## 3.12.1.2 Description of the fields

# 3.12.1.3 Response:

Flat file initiation – response							
Field	Description	Data Type	Cardinality	Priority	Values		
Message_Ty pe	The identifier of the type of message	Text	S	М	Message_Type = ULO		
Code	Unique identifier of the message. Used for recall too.	Text(50)	S	М			
Upload_Url	The URL that the file should be HTTP put to	Text(5000)	S	М			

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Flat file initiation – response							
Field	Description	Data Type	Cardinality	Priority	Values		
Error	Indicates the failure of the message reception	Boolean	S	М	0 – No 1- Yes		
Errors	Array containing Error_Code, Error_Descr, InternalId	Text	S	M if Error = 1			

# 3.12.1.4 Request sample

{
 "Message\_Type": "ULO",
 "ID\_Issuer": "IID"
 "File\_Type": 1
}

#### 3.12.1.5 Successful response sample

HTTP Status 200

{
"Message_Type": "ULO",
"Upload_Url ": "https://test.s3.eu-west-1.amazonaws.com/9adda342-012c-46e6-b5f9-
18bc73a693d7?X-Amz-Expires=299&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-
Credential=AKIAID6ZB7LZNC6M6BBA/20190218/eu-west-1/s3/aws4_request&X-Amz-
Date=20190218T135040Z&X-Amz-SignedHeaders=host&X-Amz-
Signature=eb4133f0e2f5e283c65d8b169b378ae7b6946570d485e95e976c605ae4d5ed47",
"Code": "873345b2-882f-4064-91f0-90669b46c30a",
"Error": false,
"Errors": null,
"Checksum": "G6HF5H"
3

#### 3.12.2 ULOD – Flat file and registry File callback

#### 3.12.2.1 Description

This ULOD request is a response to the original ULO message

# 3.12.2.2 Description of the fields

Flat file initiation – request							
Field	Description	Data Type	Cardinality	Priority	Values		
Message_Ty pe	The identifier of the type of message	Text	S	М	Message_Type = ULOD		
Code	Unique identifier of the message. Used for recall too.	Text(50)	S	М			
Error	Indicates the failure of the message reception	Boolean	S	М	0 – No 1- Yes		
Errors	Array containing Error_Code, Error_Descr, InternalId	Text	S	M if Error = 1			

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## 3.12.2.3 Response:

Flat file initiation – response							
Field	Description	Data Type	Cardinality	Priority	Values		
Message_Ty pe	The identifier of the type of message	Text	S	М	Message_Type = ULOD		
Code	Unique identifier of the message. Used for recall too.	Text(50)	S	М			
Error	Indicates the failure of the message reception	Boolean	S	М	0 - No 1- Yes		
Errors	Array containing Error_Code, Error_Descr, InternalId	Text	S	M if Error = 1			

#### 3.12.2.4 Request sample

```
{
    "Message_Type": "ULOD",
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Error": false,
    "Errors": null
}
```

#### 3.12.2.5 Successful response sample

#### HTTP Status 200

```
{
    "Message_Type": "ULOD",
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

#### 3.12.3 PLO – Partial Flat file and registry transmission

#### 3.12.3.1 Description

This message enables the ID issuer to update the Register and the FlatFile in an incremental manner and in a synchronous way.

#### 3.12.3.2 Description of the fields

Flat file initiation – request						
Field	Description	Data Type	Cardinality	Priori ty	Values	
Message_Type	The identifier of the type of message	Text	S	М	Message_Type = PLO	

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Flat file initiation – request							
Field	Description	Data Type	Cardinality	Priori ty	Values		
ID_Issuer	The identifier of the economic operator sending the message	IIID	S	м	Note : Checked on token too		
File_Type	The type of the file intended to be uploaded	int	S	М	<ol> <li>Machines.csv</li> <li>Facilities.csv</li> <li>EconomicIdentifiers.csv</li> <li>MachineLookup.csv.</li> <li>ProductLookup.csv</li> <li>RegularExpression.csv</li> </ol>		
File_Content	Content of the csv file	Text(50)	S	М			

# 3.12.3.3 Response:

	Flat file initiation – response							
Field	Description	Data Type	Cardinality	Priority	Values			
Message_Ty pe	The identifier of the type of message	Text	S	М	Message_Type = PLO			
Code	Unique identifier of the message. Used for recall too.	Text(50)	S	М				
Error	Indicates the failure of the message reception	Boolean	S	М	0 – No 1- Yes			
Errors	Array containing Error_Code, Error_Descr, InternalId	Text	S	M if Error = 1	System error catalogue at Error! Reference source not found.			

# 3.12.3.4 Request sample

{
 "Message\_Type": "PLO",
 "ID\_Issuer": "IDISSUERCODE",
 "File\_Type": 1,
 "File\_Content":["CSVVALUE1; CSVVALUE2; CSVVALUE3",
 "CSVVALUE1; CSVVALUE2; CSVVALUE3",
 "CSVVALUE1; CSVVALUE2; CSVVALUE3",
 "CSVVALUE1; CSVVALUE2; CSVVALUE3"]
}

#### 3.12.3.5 Successful response sample

#### HTTP Status 202

{
 "Message\_Type": "PLO",
 "Code": "873345b2-882f-4064-91f0-90669b46c30a",
 "Error": false,
 "Errors": null,
 "Checksum": "G6HF5H"
}

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# 3.13 Connectivity Test Message

#### 3.13.1 CTM – Connectivity Test Messages

#### 3.13.1.1 Description

The connectivity test message is sent by the Router or Secondary in order to test the connectivity.

# 3.13.1.2 Description of the fields

Recall – request						
Field	Description	Data Type	Cardinality	Priority	Values	
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = CTM	

# 3.13.1.3 Response:

Recall – response						
Field	Description	Data Type	Cardinality	Priorit Y	Values	
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	Μ	Message_Type = CTM	

# 3.13.1.4 Request sample

```
{
"Message_Type":"CTM",
"Code": null
}
```

# 3.13.1.5 Successful response sample

#### HTTP Status 202

{
 "Code": "873345b2-882f-4064-91f0-90669b46c30a",
 "Message\_Type": "CTM",
 "Error": false,
 "Errors": null,

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"Checksum": "G6HF5H"

}

#### *3.13.1.6 Error response sample*

HTTP status	Error Code	Error Description
<< Com	mon response code >>	

# 3.14 Competent Authority interface

LUQ – Query Messages 3.14.1

3.14.1.1 Description Allows to query the API interface

#### 3.14.1.2 Query Type definition

Query Type ID	Description
1	EO Query
2	Facility Query
3	Machine Query
4	Event Query
5	UI query
6	Vehicle Query

#### Description of the fields 3.14.1.3

	Query Message – request							
Field	Description	Data Type	Cardinality	Priority	Values			
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = LUQ			
Query_UserID	Unique user identifier	Text(5000)	S	М				
Query_Type	Query type description	Integer	S	М				
Query_Elements	List of elements	Text EconomicOperatorQuery - 20 (Internal text limit = 5000)	М	Μ				

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				-	
		FacilityQuery - 20 (Internal text limit = 5000)			
		MachineQuery - 20 ((Internal text limit = 5000)			
		EventQuery - 20 (Internal text limit = 5000)			
		UniqueIdentifierQuery 20 - (Internal text limit = 5000)			
		VehicleQuery – 1 (Internal text limit = 5000)			
Query_Param	Query Parameter, list of key value pair.	Text(Dictionary of strings)	М	0	

#### 3.14.1.4 Response

	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = LUQ
Query_Result	JSON containing the response	Text(5000)	S	М	

# 3.14.1.5 Query Data Types

#### 3.14.1.5.1 **UI Element JSON Object**

Field	Description	Data Type	Cardinality	Priority	Values
Id	Original UI that is used to perform the search		S	М	
UI_Status	UI identifier State	Integer	S	М	See UniqueIdentifierState
UI_Status_Description		Text(5000)	S	Μ	

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Id_Type	Type of UI	Integer	S	м	upUI = 1 , aUI = 2
upUIs	upUI(s)	upUIs	S	M if It_Type = 1	
upUIh	Human readable UI	Text(5000)	S	M if It_Type = 1	
upUIL	upUI(L)	upUI(L)	S	M if It_Type = 1	
IIID	ID Issuer that generated the UI	IIID	S	M if It_Type = 1	
EO_ID	Economic operator identifier code of the submitting entity (either EU manufacturer or EU importer)	EOID	S	M if It_Type = 1	
F_ID	Facility identifier code	FID	S	M if It_Type = 1	
M_ID	Machine identifier code	MID	S	0	
P_Type	Type of tobacco product	Integer	S	M if It_Type = 1	See TobaccoProductType
P_OtherType	Description of other type of tobacco product	Text(200)	S	0	
P_CN	Combined Nomenclature (CN) code	Text(200)	S	0	
P_Brand	Brand of tobacco product	Text(200)	S	M if It_Type = 1	
P_weight	Average gross weight of unit packet, including packaging, in grams with 0,1 gram accuracy	Decimal	S	M if It_Type = 1	
TP_ID	The identification number of the product used in the EU-CEG system.	TPID	S	0	
TP_PN	Tobacco product number used in the EU-CEG system	PN	S	0	
Intended_Market	Intended country of retail sale.	Country	S	M if It_Type = 1	
Intended_Route1	Indication if the product is intended to be moved across country boarders with terrestrial transport.	Boolean	S	M if It_Type = 1	0 - No 1 - Yes

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Intended_Route2	The first country of terrestrial transport after the product leaves the Member State of manufacturing or the Member State of importation.	Country	S	0	
Import	Indication if the product is imported into the EU	Boolean	S	M if It_Type = 1	0 – No 1 – Yes
P_OtherID	Optional Product ID	Text(20)	S	0	
Event_Aggregations	List of Aggregation	Aggregation Element JSON Object	Μ	0	
Event_List	List of Event recallcodes allowing the lookup of the different events	Text(Array of strings; internal limit = 5000)	Μ	0	

#### 3.14.1.5.2

# Aggregation Element JSON Object

Aggregation Element JSON Object						
Field	Description	Data Type	Cardinality	Priority	Values	
RecallCode	RecallCode of the aggregation event	Text(5000)	S	М		
ParentId	Parent Id of the aggregation event	Text(5000)	S	М		
Event_UI	The UI that is part of the aggregation	Text	S	М		
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	Μ		
F_ID	Facility identifier code	FID	S	М		
Event_Time	Time of event occurrence	Time(s)	S	М		
aUI	Aggregated level UI	aUI	S	М		

# 3.14.1.5.3

# EO Element JSON Object

EO Element JSON Object						
Field	Description	Data Type	Cardinality	Priority	Values	

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			-		1
EOID	Original UI that is used to perform the search	EOID	S	М	
EO_Name1	Economic operator's registered name	Text(100)	S	М	
EO_Name2	Economic operator's alternative or abridged name	Text(100)	S	0	
EO_Address_StreetOne	Street part of the Address	Text(5000)	S	М	
EO_Address_StreetTwo	Second Element of the Street part of the Address	Text(5000)	S	0	
EO_Address_City	City	Text(5000)	S	М	
EO_Address_PostCode	PostalCode information	Text(5000)	S	0	
EO_CountryReg	Economic operator's country of registration	Country	S	Μ	See Country
EO_Email	Economic operator's email address; used to inform about registration process, incl. subsequent changes and other required correspondence	Text(5000) (Regex protected)	S	Μ	
VAT_R	Indication of the VAT registration status	Boolean	S	М	4 – No VAT registration 5 – VAT number exists
VAT_N	Economic operator's VAT number	Text(20)	S	M, if VAT_R = 1	
TAX_N	Economic operator's tax registration number	Text(20)	S	M, if VAT_R = 0	
EO_ExciseNumber1	Indication if the economic operator has an excise number issued by the competent authority for the purpose of identification of persons/premises	Boolean	S	Μ	4 – No SEED number 5 – SEED number exists
EO_ExciseNu mber2	Economic operator's excise number issued by the competent authority for the	SEED	S	M, if EO_Excis eNumber 1 = 1	

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	purpose of identification of persons/premises				
OtherEOID_R	Indication if the economic operator has been allocated an identifier by another ID Issuer	Boolean	S	М	4 – No 5 – Yes
OtherEOID_N	Economic operator identifier codes allocated by other ID Issuers	EOID	М	M, if OtherEOI D_R = 1	
Reg_3RD	Indication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco trade	Boolean	S	M	4 – No 5 – Yes
Reg_EOID	Identifier of the economic operator that acts on behalf of a retail outlet operator not otherwise involved in the tobacco trade	EOID	S	M, if Reg_3RD = 1	
EO_OtherID	Optional identifier	Text(50)	S	0	

# 3.14.1.5.4

# Facility Element JSON Object

Facility Element JSON Object						
Field	Description	Data Type	Cardinality	Priority	Values	
F_ID	Facility identifier code	FID	S	М		
EO_ID	Economic operator identifier code	EOID	S	М		
F_Address_StreetOne	Facility's address – Street part of the Address	Text(5000)	S	М		
F_Address_StreetTwo	Facility's address – Second Element of the Street part of the Address	Text(5000)	S	0		
F_Address_City	Facility's address - City	Text(5000)	S	М		
F_Address_PostCode	Facility's address – PostalCode information	Text(5000)	S	0		
F_Country	Facility's country	Country	S	М	See Country	

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F_Type	Type of facility	Integer	S	М	See FacilityType
F_Type_Other	Description of other facility type	Text(5000)	S	M, if F_Type = 4	
F_Status	Indication if a part of the facility has a bonded warehouse status	Boolean	S	М	4 – No 5 – Yes
F_ExciseNum ber1	Indication if the facility has an excise number issued by the competent authority for the purpose of identification of persons/premises	Boolean	S	Μ	4 – No SEED number 5 – SEED number exists
F_ExciseNum ber2	Facility's excise number issued by the competent authority for the purpose of identification of persons/premises	SEED	S	M, if F_Excise Number1 = 1	
OtherFID_R	Indication if the facility has been allocated an identifier by another ID Issuer	Boolean	S	М	4 – No 5 – Yes (possible only for non-EU facilities)
OtherFID_N	Facility identifier codes allocated by other ID Issuers	FID	М	M, if OtherFID _R = 1	
Reg_3RD	Indication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco trade	Boolean	S	M	0 - No 1 - Yes (possible only if F_Type = 3)
Reg_EOID	Identifier of the economic operator that acts on behalf of a retail outlet operator not otherwise involved in the tobacco trade	EOID	S	M, if Reg_3RD = 1	
Extensibility	Optional extensibility field	Text(5000)	S	0	

## 3.14.1.5.5

## Machine Element JSON Object

	Machine Element JSON Object					
Field	Description	Data Type	Cardinality	Priority	Values	
M_ID	Machine Id	MID	S	М		

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EO_ID	Economic operator identifier code	EOID	S	М	
F_ID	Facility identifier code	FID	S	М	
M_Producer	Machine producer	Text(20)	S	М	
M_Model	Machine model	Text(20)	S	М	
M_Number	Machine serial number	Text(20)	S	М	
M_Capacity	Maximum capacity over 24hour production cycle expressed in unit packets	Integer	S	М	

#### 3.14.1.5.6 Event Element JSON Object

	Event Element JSON Object								
Field	Description	Data Type	Cardinality	Priority	Values				
RecallCode	recallCode of the Event	Text(5000)	S	М					
Event_Type	Type of the Event	Text	S	М					
Event_Time	Time of event occurrence	Time(s)	S	М					
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	М					
F_ID	Dispatch facility identifier code	FID	S	М					
upUIs	List of unit packet level UIs subject to the dispatch	upUI(L)	М	0					
aUIs	List of aggregated level UIs subject to the dispatch	aUI	М	0					
Available when EDP (3.3 dispatch)				L					
Destination_ID1	Indication if the destination facility is located on the EU territory and if it is a	Integer	S	0	<ol> <li>1 - Non EU dest.</li> <li>2 - EU destination other than VM - fixed quantity delivery</li> <li>3 - EU VM(s)</li> <li>4 - EU destination other than VM - delivery with VV</li> </ol>				

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	vending				
	machine (VM)				
Destination_ID2	Destination facility identifier code	FID	S	0	
Destination_ID3	Destination facility identifier code(s) – possible multiple vending machines	FID	м	0	
Destination_ID4	Destination id facility codes	FID	М	0	
Destination_ID5_Address_StreetOne	Destination facility's full address - Street part of the Address	Text(5000)	S	0	
Destination_ID5_Address_StreetTwo	Destination facility's full address - Second Element of the Street part of the Address	Text(5000)	S	0	
Destination_ID5_Address_City	Destination facility's full address - City	Text(5000)	S	0	
Destination_ID5_Address_PostCode	Destination facility's full address - PostalCode information	Text(5000)	S	0	
Transport_mode	Mode of transport by which the product leaves the facility, see: Commission Regulation (EC) No 684/2009, Annex II, Code List 7	Integer	S	0	See TransportMode in section Error! Reference source not found.
Transport_vehicle	Identification of the mode of transport (i.e. number plates, train number, plane/flight number, ship name or	Text(5000)	S	0	'n/a' is permitted value if Transport_mode = 0 and product movement takes place between adjacent facilities and is delivered manually

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	other identification)				
Available when Disaggregation Event					
disaUI_comment	Comments by the reporting entity	Text(5000)	S	0	
Available when Deactivation Event					
Deact_Reason1	Identification of the reason for deactivation	Integer	S	0	See DeactivationReasonType
Deact_Reason2	Description of other reason	Text(5000)	S	0	
Deact_Reason3	Additional description of the reason	Text(Limited to the set of known deactivation_types)	S	0	

## 3.14.1.5.7

## Vehicle Element JSON Object

	Vehicle Element JSON Object					
Field	Description	Data Type	Cardinality	Priority	Values	
Transport_vehicle	Identification of the mode of transport (i.e. number plates, train number, plane/flight number, ship name or other identification)	Text(5000)	S	0	'n/a' is permitted value if Transport_mode = 0 and product movement takes place between adjacent facilities and is delivered manually	
Event_List	List of Event recallcodes allowing the lookup of the different events	Text(Array of strings; internal limit = 5000)	М	0		

# 3.14.1.6DescriptionQuery\_Type 13.14.1.6.1Query\_Type 1 request

Field	Description	Data Type	Cardinality	Priority	Values
Query_Elements	List of EOID Maximum 20 elements	Text EconomicOperatorQuery - 20 (Internal text limit = 5000)	М	М	

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FacilityQuery - 20 (Internal text limit = 5000)	
MachineQuery - 20 ((Internal text limit = 5000)	
EventQuery - 20 (Internal text limit = 5000)	
UniqueIdentifierQuery 20 - (Internal text limit = 5000)	
VehicleQuery – 1 (Internal text limit = 5000)	

Query\_Param is null.

## 3.14.1.6.2 Query\_Type 1 request sample

```
{
    "Message_Type": "LUQ",
    "Query_Elements": ["13PA_5606221025744"],
    "Query_Type" : "1",
    "Query_UserID" : "3rsubbrvk13sojihem2pqo14bn",
    "Code" : "335d0201-3d3b-43d7-a1af-e3fa3b51b3c8"
}
```

#### 3.14.1.6.3

## Query\_Type 1 Successful response sample

#### HTTP Status 200

Query_Type 1 - Query_Result						
Field	Description	Data Type	Cardinality	Priority	Values	
Query_Result	List of found EO elements	EO Element JSON Object	М	М		

{
 "Query\_Result": [
 {
 "EOID": "13PA\_5606221025744",
 "EO\_Name1": "JOSE MONTEIRO DA COSTA",
 "EO\_Name2": "Livraria Z�",
 "EO\_Address\_StreetOne": "Av. Joaquim Leite de Carvalho, 16",
 "EO\_Address\_StreetTwo": null,
 "EO\_Address\_City": null,
 "EO\_Address\_PostCode": null,
 "EO\_CountryReg": 21,
 }
}

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"EO\_Email": "livrariaze@sapo.pt", "VAT\_R": 0, "VAT\_N": null, "TAX\_N": "154984876", "EO\_ExciseNumber1": 0, "EO\_ExciseNumber2": null, "OtherEOID\_R": 0, "OtherEOID N": null, "Reg\_3RD": 0, "Reg\_EOID": null, "EO\_OtherID": null } ], "Message\_Type": null, "Error": 0, "Errors": null, "Checksum": null

# 3.14.1.7DescriptionQuery\_Type 23.14.1.7.1Query\_Type 2 request

	Query_Type 2 – Query_Elements							
Field	Description	Data Type	Cardinality	Priority	Values			
Query_Elements	List of FID Maximum 20 elements	Text EconomicOperatorQuery - 20 (Internal text limit = 5000) FacilityQuery - 20 (Internal text limit = 5000) MachineQuery - 20 ((Internal text limit = 5000) EventQuery - 20 (Internal text limit = 5000) UniqueIdentifierQuery 20 - (Internal text limit = 5000) VehicleQuery - 1 (Internal text limit = 5000)	М	Μ				

Query\_Param is null.

#### 3.14.1.7.2

#### Query\_Type 2 request sample

{

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"Message\_Type": "LUQ", "Query\_Elements": ["QCBDR<1DE141483857877"], "Query\_Type" : "2", "Query\_UserID" : "3rsubbrvk13sojihem2pqo14bn", "Code" : "335d0201-3d3b-43d7-a1af-e3fa3b51b3c8"

## 3.14.1.7.3 Query\_Type 2 Successful response sample

#### HTTP Status 200

}

Field	Description	Data Type	Cardinality	Priority	Values
Query_Result	List of found Facility elements	Facility Element JSON Object	М	Μ	

<pre>"Query_Result": [</pre>	{
<pre>"F_ID": "QCBDR&lt;1DE141483857877", "EO_ID": "QCBDR&lt;1DE141483857877", "F_Address_StreetOne": "Hainsberger Str.,13,92345,Dietfurt", "F_Address_StreetTwo": null, "F_Address_City": null, "F_Address_PostCode": null, "F_Country": 10, "F_Type": 3, "F_Type_Other": null, "F_Status": 0, "F_ExciseNumber1": 0, "F_ExciseNumber2": null, "OtherFID_R": 0, "OtherFID_R": 0, "OtherFID_N": null, "Reg_3RD": 0, "Reg_EOID": null, "Extensibility": null } ], "Message_Type": null, "Error": 0, "Errors": null,</pre>	"Query_Result": [
], "Message_Type": null, "Error": 0, "Errors": null,	<pre>"F_ID": "QCBDR&lt;1DE141483857877", "EO_ID": "QCBDR&lt;1DE141483857877", "F_Address_StreetOne": "Hainsberger Str.,13,92345,Dietfurt", "F_Address_StreetTwo": null, "F_Address_City": null, "F_Address_PostCode": null, "F_Country": 10, "F_Country": 10, "F_Type": 3, "F_Type": 3, "F_Type_Other": null, "F_Status": 0, "F_ExciseNumber1": 0, "F_ExciseNumber1": 0, "F_ExciseNumber1": 0, "F_ExciseNumber2": null, "OtherFID_R": 0, "OtherFID_N": null, "Reg_3RD": 0, "Reg_EOID": null,</pre>
"Message_Type": null, "Error": 0, "Errors": null,	
"Error": 0, "Errors": null,	
"Errors": null,	
"Checksum": null }	
}	"Checksum": null
	}

# 3.14.1.8DescriptionQuery\_Type 33.14.1.8.1Query\_Type 3 request

#### Query\_Type 3 - Query\_Elements

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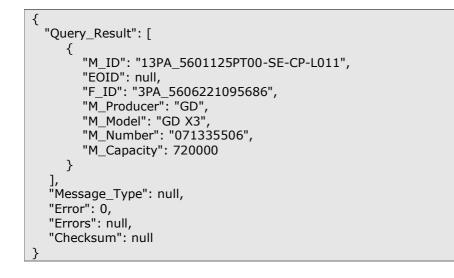


Field	Description	Data Type	Cardinality	Priority	Values
Query_Elements	List of MID Maximum 20 elements	Text EconomicOperatorQuery - 20 (Internal text limit = 5000) FacilityQuery - 20 (Internal text limit = 5000) MachineQuery - 20 ((Internal text limit = 5000) EventQuery - 20 (Internal text limit = 5000) UniqueIdentifierQuery 20 - (Internal text limit = 5000) VehicleQuery - 1 (Internal text limit = 5000)	Μ	м	

Query\_Param is null.

3.14.1.8.2

Query\_Type 3 request sample



3.14.1.8.3

Query\_Type 3 Successful response sample

HTTP Status 200

Query\_Type 3 - Query\_Result

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Field	Description	Data Type	Cardinality	Priority	Values
Query_Result	List of found Machine elements	Machine Element JSON Object	М	Μ	
{					

"Query_Result": [
{     "M_ID": "13PA_5601125PT00-SE-CP-L011",     "EOID": null,     "F_ID": "3PA_5606221095686",     "M_Producer": "GD",     "M_Model": "GD X3",     "M_Number": "071335506",
"M_Capacity": 720000 }
], "Message_Type": null, "Error": 0, "Errors": null, "Checksum": null
}

#### 3.14.1.9 Description Query\_Type 4 3.14.1.9.1 Query\_Type 4 request

	Query_Type 4 - Query_Elements						
Field	Description	Data Type	Cardinality	Priority	Values		
Query_Elements	List of event recallcodes Maximum 20 elements	Text EconomicOperatorQuery - 20 (Internal text limit = 5000) FacilityQuery - 20 (Internal text limit = 5000) MachineQuery - 20 ((Internal text limit = 5000) EventQuery - 20 (Internal text limit = 5000) UniqueIdentifierQuery 20 - (Internal text limit = 5000)	Μ	Μ			

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		VehicleQuery – 1 (Internal text limit = 5000)			
Query_Param	Possible request the content of the list of UIs that are part of the Event using the key "ListEventUI" If not present, the default is False.	Text(Dictionary of strings)	М	0	[{``ListEventUI″:″true″}]

## 3.14.1.9.2 Query\_Type 4 request sample

{
"Message\_Type":"LUQ"
"Code": null,
"Query\_Type": 4,
"Query\_Elements": ["873345b2-882f-5064-91f0-90669b46c30a","873345b2-882f-506491f0-40669b46c30a"],
"Query\_Param": [{"ListEventUI":"false"}]
}

## 3.14.1.9.3 Query\_Type 4 Successful response sample

## HTTP Status 200

	Query_Type 4 – Q	uery_Result			
Field	Description	Data Type	Cardinality	Priority	Values
Query_Result	List of found Event elements	Event Element JSON Object	Μ	М	

# 3.14.1.10DescriptionQuery\_Type 53.14.1.10.1Query\_Type 5 request

Query_Type 5 - Query_Elements					
Field	Description	Data Type	Cardinality	Priority	Values
Query_Elements	List of UI (aUI, upUI) Maximum 20 elements	Text	М	М	

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EconomicOperatorQuery - 20 (Internal text limit = 5000)	
FacilityQuery - 20 (Internal text limit = 5000)	
MachineQuery - 20 ((Internal text limit = 5000)	
EventQuery - 20 (Internal text limit = 5000)	
UniqueIdentifierQuery 20 - (Internal text limit = 5000)	
VehicleQuery – 1 (Internal text limit = 5000)	

#### NOTE: upUI (upUIs, upUIL, upUIh)

#### 3.14.1.10.2

Query\_Type 5 request sample

{
"Message\_Type":"LUQ"
"Code": null,
"Query\_Type": 5,
"Query\_Elements": ["id1","id2"]
}

## 3.14.1.10.3

## Query\_Type 5 Successful response sample

#### HTTP Status 200

Field	Description	Data Type	Cardinality	Priority	Values
Query_Result	List of found UI elements	UI Element JSON Object	М	М	

{
 "Query\_Result": [
 {
 "Id": "027405d6-8367-44bc-ad49-dd1d1d766839",
 "UI\_Status": 1,
 "UI\_Status\_Description": null,
 "UI\_Status\_Description": null,
 "Id\_Type": 1,

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#### dentsu TRACKING

```
"upUIs": "027405d6-8367-44bc-ad49-dd1d1d766839",
      "upUIh": "027405d6-8367-44bc-ad49-dd1d1d766839",
      "upUIL": "027405d6-8367-44bc-ad49-dd1d1d766839",
      "IIID": null,
      "EO_ID": "13PA_5606221019279",
      "F_ID": null,
      "M ID": null,
      "P Type": null,
      "P_OtherType": null,
      "P_CN": null,
      "P_Brand": null,
      "P_weight": 0.0,
      "TP_ID": null,
      "TP_PN": null,
      "Intended_Market": null,
      "Intended_Route1": 0,
      "Intended_Route2": null,
      "Import": 0,
      "P_OtherID": null,
      "Event_Aggregations": [
         ł
             "RecallCode": "CODE",
             "ParentId": "AGGREGATION-STAN1",
             "Event_UI": null,
             "EO_ID": "Z25Q1H44IB3002078572YSHREJCOL",
             "F_ID": null,
             "Event Time": "2019-06-04T14:22:42.679+00:00",
             "aUI": null
         },
{
             "RecallCode": "fbec47f2-5771-5a29-9d5c-e6ddb4cbca09",
             "ParentId": "1917-AAE-IFT-upUI-01_aUI",
             "Event_UI": null,
             "EO_ID": "I85B2J22DN7823851457TPULHSIDZ",
             "F_ID": "REGRESSION5860808396MISTRESSE",
             "Event_Time": "2019-06-26T16:00:00+00:00",
             "aUI": null
         },
         {
             "RecallCode": "CODE"
             "ParentId": "AGGREGATION-STAN1",
             "Event_UI": null,
             "EO_ID": "Z25Q1H44IB3002078572YSHREJCO",
             "F_ID": null,
             "Event_Time": "2019-06-04T13:58:20.254+00:00",
             "aUI": null
         }
      1,
      "Event List": [
         "143dfb19-d2f7-5c11-b384-a8bf3feacc3b",
         "2d836564-b943-502d-9842-ff1d1dda93d1",
         "4ff9c550-0a07-596c-bbfe-3f17bc5c2fde"
         "64a6c11b-4773-530e-aa18-9cec6915cb8e",
         "CODE",
         "CODE"
         "d980a80d-05a1-53b4-812c-033b1338a5b1",
         "d99b6a18-2b59-5877-bf5f-408759b82ee1"
         "fbec47f2-5771-5a29-9d5c-e6ddb4cbca09"
      }
],
```

```
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```

```
"Message_Type": null,
"Error": 0,
"Errors": null,
"Checksum": null
```

3

# 3.14.1.11DescriptionQuery\_Type 63.14.1.11.1Query\_Type 6 request

	Query_Type 6 – Query_Elements							
Field	Description	Data Type	Cardinality	Priority	Values			
Query_Elements	List of Vehicle Number Maximum 1 element1	Text EconomicOperatorQuery - 20 (Internal text limit = 5000) FacilityQuery - 20 (Internal text limit = 5000) MachineQuery - 20 ((Internal text limit = 5000) EventQuery - 20 (Internal text limit = 5000) UniqueIdentifierQuery 20 - (Internal text limit = 5000) VehicleQuery - 1 (Internal text limit = 5000)	М	Μ				

## 3.14.1.11.2

#### Query\_Type 6 request sample

{
 "Message\_Type":"LUQ"
 "Code": null,
 "Query\_Type": 6,
 "Query\_Elements": ["PLATENUMBER1"]
}

#### 3.14.1.11.3

Query\_Type 6 Successful response sample

## HTTP Status 200

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Field	Description	Data Type	Cardinality	Priority	Values
Query_Result	List of found Vehicle elements	Vehicle Element JSON Object	М	М	

## 3.14.2 LUP – Download Offline flat file

#### 3.14.2.1 Description

Allows download of the generated Offline flat file

## 3.14.2.2 Description of the fields

Download Offline flat file – request					
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	М	Message_Type = LUP
Filter	Configurable filter to allow partial file download	Text(1025)	S	0	

#### *3.14.2.3 Response:*

Download Offline flat file – response					
	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = LUP
Binary file download	Zip file download URL	Text(5000)	S	М	
Password	The password used to protect the zip file	Text(5000)	S	М	

## 3.14.2.4 Request sample

upUI

{ "Message\_Type":"LUP"

"Code": "873345b2-882f-4064-91f0-90669b46c30a",

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"Filter": {"IdIssuers" : ["id1","id2"]}
}

## 3.14.2.5 Successful response sample

#### HTTP Status 200

Zip file binary download

## 3.15 Manufacturer interface

#### 3.15.1 LDI Lookup Dispatch Interface

#### 3.15.1.1 Context

Provide the manufacturer the ability to check the validity of the final dispatch messages (when the subsequent arrival message is expected to be sent to the router). Ensuring the successful reception of the goods by the distributors.

#### 3.15.1.2 Scope

This interface ONLY allows the manufacturer to validate the accuracy of the reporting for the first dispatch that will be arrived by the supply chain reporting the arrival event through the Router.

The interface will not cover and therefore will not provide a response to

- Manufacturer internal dispatch events.
- Distributors dispatch events.

## 3.15.1.3 Approach

The Recallcode validation.

The Manufacturer will be able to

- Retreive the **status of the dispatch** on the secondary repository. Allowing the confirmation that the primary has processed the dispatch message and transmitted it successfully to the Secondary repository.
- Confirm the **arrival status** at the distributor side by "simulating" the arrival process and provide the router response.

#### 3.15.1.4 Response information

The Traceability response to the manufacturer request over the dispatch

3.15.1.4.1	Dispatch status
Description	n

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0	The recallcode of the dispatch message (3.3) is not present in the Secondary repository. The recallcode of the dispatch message (3.3) is present but the messages have been recalled successfully.
1	The recallcode of the dispatch message (3.3) is present in the Secondary repository and has been successfully processed.

## 3.15.1.4.2 Arrival status

The system will execute the reception validation controls. The result of the validation controls will be provided in the arrival status.

	Description
null	When Dispatch_status = 0
0	The execution the reception validation controls encountered failed validation. At this point, the corresponding arrival message will esult in the same validation errors.
1	The recallcode of the dispatch message (3.3) is present in the Secondary repository and has been successfully processed.

## 3.15.1.5 Daily Limit

The limit per manufacturer is set to 30 000 calls per day. In case the daily limit per manufacturer is exceeded, the call will return a validation error.

HTTP status		
400	FAILED_VALIDATION	In case the maximum number of requests is reached

## 3.15.1.6 Description of the fields

Application and aggregation envelop event					
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	Μ	Message_Type = LDI
Message_Time_long	Message sending Time	Time(L)	S	М	
Dispatch_Code	Dispatch RecallCode		S	М	
Dispatch_EOID	EOID		S	М	

#### 3.15.1.7 Response:

	upUI application event – response				
Field	Description	Data Type	Cardinality	Priority	Values
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	М	Message_Type = LDI
Validation_Time	Validation Timestamp		S	М	
Dispatch_Code	Dispatch RecallCode		S	М	
Dispatch_Status			S	М	
Arrival_Status	Response of the simulated arrival related to the dispatch				

## 3.15.1.8 Request sample

```
{
    "Message_Type": "LDI",
    "Code": null,
    "Dispatch_Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Dispatch_EOID": "AAAAAAA",
    "Message_Time_Long":"2019-03-20T14:16:45Z"
}
```

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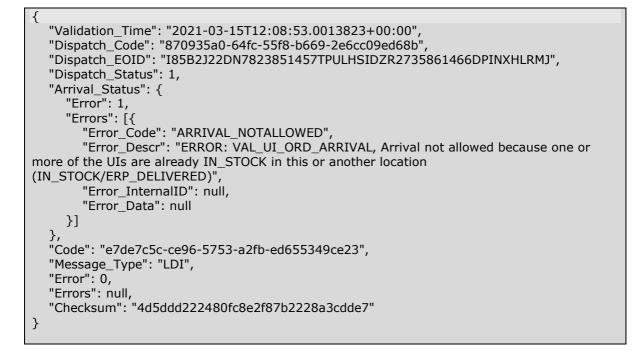
## 3.15.1.9 Successful response sample

#### HTTP Status 200

```
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "LDI",
    "Dispatch_Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Validation_Time":"2019-03-20T14:16:45Z",
    "Uspatch_Status": 1,
    "Arrival_Status": 1,
    "Arrival_Status": {
        "Error": false,
        "Error": false,
        "Error": false,
        "Errors": null
    },
    "Checksum": "G6HF5H"
}
```

#### 3.15.1.1 Arrival Not Allowed response sample

#### Response status: 200



## 3.15.1.2 Error response sample

HTTP status		
<< Com	mon response code >>	
400	FAILED_VALIDATION	In case the maximum number of requests is reached
400	FAILED VALIDATION	The EOID is not valid.
400	FAILED_VALIDATION	The field Dispatch_Code is linked to an event that is not covered by the LDI scope

## 3.15.1.3 LDI Validations clarification

## 3.15.1.3.1 Limit Validation

In order to protect the system a limit of 30k call has been defined per primary repository

In case the daily limit is exceeded, a validation error will be returned (http status 400)

HTTP status		
400	FAILED_VALIDATION	In case the maximum number of requests is reached

## 3.15.1.3.2 Dispatch\_EOID existence check

Validate the existence of the EOID present in the request In case of failure the answer is a 400

HTTP status			
400	FAILED_VALIDATION	The EOID is not valid.	

## 3.15.1.3.3 EDP RecallCode Existence Validation

The first validation is done on the existence of the EDP in the secondary repository.

Condition:

Recall code must exist

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- Recall code must exist as received on secondary side ONLY (not router)
- Recall code must be for a Dispatch event EDP (Message\_Type = EDP)
- Recall code has not be part of any recall events

in case one of the previous conditions is not met the LDI will return a success response with the Dispatch\_Status = 0

HTTP status		
200	SUCCESS	Dispatch_Status = 0 (no dispatch event 3.3 with that RecallCode has been reported to the secondary repository)

## 3.15.1.3.4 EDP RecallCode LDI Authorisation

This step consist in checking if the EDP can be disclosed. A number of limitations are implemented to avoid the manufacturer to access the information internal events as well as events from the supply chain

Conditions:

The LDI is limited to the Dispatch events from a source FID that belongs to the manufacturer (that is consuming the LDI) and the destination FID does not belong to the Manufacturer (meaning it sends the goods to a location outside of his custody)

- EDP must be for EU and have only one destination field filled (Destination\_ID2)
- ÈDP Source Facility ID must be owned by an EO that is linked to a manufacturer
- EDP Source Facility ID and Destination Facility ID must not be the same
- EDP Source Facility ID and Destination Facility ID must not be linked to the same target primary



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400	FAILED_VALIDATION	The field Dispatch_Code is linked to an event that is not covered by the LDI scope
		covered by the EDI Scope

Note: These conditions might be updated in order to accommodate specific manufacturer distribution configuration including the use of 3PLs. Any update of these conditions will be communicated through the release notes.

## 4 EU Wide Registry Data Exchange

## 4.1 Registry

#### 4.1.1 Economic Identifier

Field	Description	Data Type	Priority	Comments
EO_ID	Economic operator's registered ID	EOID	М	
Issuer	Identification number of the ID Issuer solution that has processed the registration	IIID	Μ	
EO_Name1	Economic operator's registered name	Text(100)	М	
EO_Name2	Economic operator's alternative or abridged name	Text(100)	0	
EO_Address_Name	Name part of the Address	Text(5000)	0	
EO_Address_StreetOne	Street part of the Address	Text(5000)	Μ	
EO_Address_StreetTwo	Second Element of the Street part of the Address	Text(5000)	0	
EO_Address_City	City	Text(5000)	Μ	
EO_Address_PostCode	PostalCode information	Text(5000)	0	
EO_CountryReg	Economic operator's country of registration	Country	М	See Country
EO_Email	Economic operator's email address; used to inform about registration process, incl. subsequent changes and other required correspondence	Text(5000) (Regex protected)	Μ	
VAT_R	Indication of the VAT registration status	Boolean	Μ	<ul> <li>No</li> <li>VAT</li> <li>registration</li> <li>VAT</li> <li>number</li> <li>exists</li> </ul>
VAT_N	Economic operator's VAT number	Text(20)	M if VAT_R = 1	
TAX_N	Economic operator's tax registration number	Text(20)	M if VAT_R = 0	

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EO_ExciseNumber1	Indication if the economic operator has an excise number issued by the competent authority for the purpose of identification of persons/premises	Boolean	M	<ul> <li>No SEED</li> <li>number</li> <li>SEED</li> <li>number</li> <li>exists</li> </ul>
EO_ExciseNumber2	Economic operator's excise number issued by the competent authority for the purpose of identification of persons/premises	SEED	M	
OtherEOID_R	Indication if the economic operator has been allocated an identifier by another ID Issuer	Boolean	Μ	– No – Yes
OtherEOID_N	Economic operator identifier codes allocated by other ID Issuers	Text	M if OtherEOID_R = 1	List of EOIDs
Reg_3RD	Indication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco trade	Boolean	Μ	– No – Yes
Reg_EOID	Identifier of the economic operator that acts on behalf of a retail outlet operator not otherwise involved in the tobacco trade	EOID	M if Reg_3RD = 1	
EO_OtherID	Optional identifier	Text(50)	0	
EO_Importer_Index	Optional Importer Index	Text(50)	0	
EO_CODE	Economic operator's confirmation code provided in response to the registration of economic operator	EO_CODE	М	
Active	If the EO is active	Boolean	М	
Technical_Owner	The IIID that has the ownership of the record.	IIID	Μ	

#### 4.1.2 Facility

Field	Description	Data Type	Priority	Comments
EO_ID	Economic operator identifier code	EOID	Μ	(FK)

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F_ID	Facility code from the RFA code issuer call	FID	М	(PK)
F_Address_Name	Name of the address	Text(5000)	0	
F_Address_StreetOne	Street part of the Address	Text(5000)	М	
F_Address_StreetTwo	Second Element of the Street part of the Address	Text(5000)	0	
F_Address_City	City	Text(5000)	М	
F_Address_PostCode	PostalCode information	Text(5000)	0	
F_Country	Facility's country	Country	Μ	See Country
F_Type	Type of facility	Integer	Μ	See FacilityType
F_Type_Other	Description of other facility type	Text(5000)	Μ	
F_Status	Indication if a part of the facility has a bonded warehouse status	Boolean	М	– No – Yes
F_ExciseNumber1	Indication if the facility has an excise number issued by the competent authority for the purpose of identification of persons/premises	Boolean	М	<ul> <li>No SEED</li> <li>number</li> <li>SEED number</li> <li>exists</li> </ul>
F_ExciseNumber2	Facility's excise number issued by the competent authority for the purpose of identification of persons/premises	SEED	М	
OtherFID_R	Indication if the facility has been allocated an identifier by another ID Issuer	Boolean	Μ	<ul> <li>No</li> <li>Yes (possible only for non-EU facilities)</li> </ul>
OtherFID_N	Facility identifier codes allocated by other ID Issuers	Text	M if OtherFID_R = 1	List of FID
Reg_3RD	Indication if the registration is made on behalf of a retail outlet operator not otherwise involved in the tobacco trade	Boolean	M	0 - No 1 - Yes (possible only if F_Type = 3)
Reg_EOID	Identifier of the economic operator that acts on behalf of a retail outlet operator not otherwise involved in the tobacco trade	EOID	M if Reg_3RD = 1	
Active	If the facility is active	Boolean	М	

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

#### 4.1.3 Manufacturing machine

Field	Description	Data Type	Priority	Comments
M_ID	Machine identifier received from the RMA request made to the code issuer.	MID	Μ	(PK)
F_ID	Facility identifier code	FID	М	(FK)
M_Producer	Machine producer	Text(20)	М	
M_Model	Machine model	Text(20)	М	
M_Number	Machine serial number	Text(20)	Μ	
M_Capacity	Maximum capacity over 24hour production cycle expressed in unit packets	Integer	М	
Active	If Machine is active	Boolean	М	
Technical_Owner	The IIID that has the ownership of the record.	IIID	М	

## 4.2 Flat Files

## 4.2.1 Flat File type I Format

#### 4.2.1.1 Overview

The Flat File type I format contain the following files.

- ProductLookup
- ManufacturerLookup
- RegularExpression

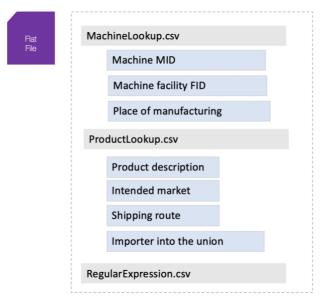


Figure 13 Compact Flat File Structure

## 4.2.1.2 ProductLookup

Field	Description	Data Type	Priority	Comments
ProductLookupId	The part of the code used for product lookup	Text(20)	Μ	
TP_ID	Tobacco product identifier used in the EU-CEG system	TPID	M, if Intended_Market is an EU country	
P_Type	Type of tobacco product	int	М	
P_OtherType	Description of other type of tobacco product	Text(200)	M, if P_Type = 11	
P_CN	Combined Nomenclature (CN) code	Text(200)	Optional	
TP_PN	Tobacco product number used in the EU-CEG system	PN	M, if Intended_Market is an EU country	
P_Brand	Brand of tobacco product	Text(200)	М	
P_OtherID	Optional Product ID	Text(20)	0	
P_weight	Average gross weight of unit packet, including packaging, in grams with 0,1 gram accuracy	Decimal	Μ	
Intended_Market	Intended country of retail sale	Country	М	
Intended_Route1	Indication if the product is intended to be moved across country borders with	Boolean	Μ	

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	terrestrial/water/air transport			
IntendedShipmentRoute	The first country of terrestrial/water/air transport after the product leaves the Member State of manufacturing or the Member State of importation established on the basis of a check point on the land border, next seaport or next airport respectively	Country	M, if Intended_Route1 = 1	
ImporterIntoEU	Indication if the product is imported into the EU	Boolean	Μ	
ImporterEOID	EOID of the importer when applicable	EOID	0	Fully optional field – THIS FIELD can be omitted
Active	If the lookup entry is active	Boolean	Μ	

#### 4.2.1.3 ManufacturerLookup

Field	Description	Data Type	Priority	Comments
ManufacturerLookupId	The manufacturer ID	Text(20)		
MID	Machine identifier code	MID		MID can be empty for aUI
FID	Factory identifier code	FID		
Active	If the lookup entry is active	Boolean		

#### 4.2.1.4 RegularExpression (Optional)

Field	Description	Data Type	Comments
RegularExpression	The regular expression using tags to flag potential lookup extracted from code.	Text(5000)	
	Tags : TPID / MID / FID / IID		

Short example of a regular expression containing 5 alphanumeric for IID, 3 and 3 alphanumeric for FID & MID, 8 alphamumeric for TPID (might be the GTIN encoded in 8 symbols), 10 symbols for the "serial number", and 8 digits for the timestamp (note the "?" that makes it optional). Ex: ^(?<IID>\w{5})(?<FID>\w{3})(?<MID>\w{3})(?<TPID>\w{8}).{10}\d{8}?\$

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#### 4.2.2 Flat File type II format

#### 4.2.2.1 Flat File type II Algorithm overview

Each ID Issuer should provide software that can convert any upUI that it generated into the set of values for index variables that can be looked up in the following lookup tables

- ProductLookup.csv
- MachineLookup.csv
- FacilityLookup.csv
- ImporterLookup.csv
- TargetMarketLookup.csv
- RouteLookup.csv

Pro	oductLookup.csv	
	Product description	
Ma	achine Lookup.csv	
	Machine MID	
Fac	cilityLookup.csv	
	Machine facility FID	
	Place of manufacturing	
Tar	getMarketLookup.csv	
	Intended market	
Rou	iteLookup.csv	
	Shipping route	
Im	porterLookup.csv	
	Importer into the union	

Figure 14 Granular Flat File Structure

#### 4.2.2.2 ProductLookup.csv

Field	Description	Data Type	Priority	Comments
ProductLookupId	The product loockup ID	Text(20)		
TP_ID	Tobacco product identifier used in the EU- CEG system	TPID	M, if Intended_Market is an EU country	
P_Type	Type of tobacco product	int		
P_OtherType	Description of other type of tobacco product	Text(200)		
P_CN	Combined Nomenclature (CN) code	Text(200)		

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TP_PN	Tobacco product number used in the EU-CEG system	PN	
P_Brand	Brand of tobacco product	Text(200)	
P_OtherID	Optional Product ID	Text(20)	
P_weight	Average gross weight of unit packet, including packaging, in grams with 0,1 gram accuracy	Decimal	
Active	If the lookup entry is active	Boolean	

#### 4.2.2.3 MachineLookup.csv

Field	Description	Data Type	Priority	Comments
MachineLookupId	The machine lookup ID	Text(20)		
MID	MID of manufacturing machine – for use with Machines.csv registry file	MID		This field might be empty.
FID	FID of manufacturing facility – for use with Machines.csv registry file	MID		
Active	If the lookup entry is active	Boolean		

#### 4.2.2.4 FacilityLookup.csv

Field	Description	Data Type	Priority	Comments
FacilityLookupId	The facility lookup ID	Text(20)		
FID	FID of manufacturing facility – for use with Machines.csv registry file	FID		
Active	If the lookup entry is active	Boolean		

## 4.2.2.5 ImporterLookup.csv

Field	Description	Data Type	Priority	Comments
ImporterLookupId	The imported lookup ID	Text(20)		
ImporterIntoEU	Indication if the product is imported into the EU	Boolean		
Importer_EOID	EOID of the imported	EOID		
Importer_Index		Text(2)		
Active	If the lookup entry is active	Boolean		

#### 4.2.2.6

#### TargetMarketLookup.csv

Field	Description	Data Type	Priority	Comments
ImporterLookupId	The imported lookup ID	Text(20)		
Intended_Market	Intended country of retail sale	Country		
Active	If the lookup entry is active	Boolean		

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4.2.2.7 Ro	uteLookup.csv			
Field	Description	Data Type	Priority	Comments
ImporterLookupId	The imported lookup ID	Text(20)		
IntendedShipmentRoute	The first country of terrestrial/water/air transport after the product leaves the Member State of manufacturing or the Member State of importation established on the basis of a check point on the land border, next seaport or next airport respectively	Country		
Active	If the lookup entry is active	Boolean		

## 4.3 Offline Flat File Data Exchange

Offline flat files are the output of all the flat files sent by the ID Issuers.

4.3.1 audit.csv					
Field	Description	Data Type	Comments		
Кеу	key	Text(50)			
Value	Value	Text(255)			

#### 4.3.2 IdIssuers.csv

Field	Description	Data Type	Comments
Issuer_Prefix	ID issuer's prefix in accordance with ISO15459-2:2015	IIID	
Issuer_Name	The name of the ID issuer	Text(255)	
Issuer_Country	Country for which the id issuer operates for.	Country	
Issuer_FlatfileType	The type of the flat file used by the ID Issuer	Text(1)	1 flatfile type 1
			2 flatfile type 2

#### 4.3.3 countries.csv See section 2.6.1

#### 4.3.4 facilitytype.csv See section 2.6.5

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4.3.5 tobaccoproducttype.csv See section 2.6.11

4.3.6 transportmode.csv See section 2.6.12

4.3.7 EconomicIdentifiers.csv See section 4.1.1

4.3.8 Facilities.csv See section 4.1.2

4.3.9 Machines.csv See section 4.1.3

4.3.10 Flat File type I

4.3.10.1 ProductLookup.csv See section 4.2.1.2

4.3.10.2 MachineLookup.csv See section 4.2.1.3

4.3.10.3 RegularExpression.csv See section 4.2.1.4

4.3.11 Flat File type II

4.3.11.1 ProductLookup.csv See section 4.2.2.2

4.3.11.2 MachineLookup.csv See section 4.2.2.3

4.3.11.3 FacilityLookup.csv See section 4.2.2.4

4.3.11.4 ImporterLookup.csv See section 4.2.2.5

*4.3.11.5 TargetMarketLookup.csv* See section 4.2.2.6

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*4.3.11.6 RouteLookup.csv* See section 4.2.2.7

#### 4.3.12 Filename

YYYYMMDD\_OFFLINE.zip

## 5 List of Error Codes

#### 5.1 Security errors

HTTP status	Error Code	Text Description
401	INVALID_OR_EXPIRED_TOKEN	Error Descr: The incoming token is not valid or expired
	Related control: VAL_SEC_TOKEN	Comment: The security token has expired and should be renewed.

## 5.2 Processing errors

HTTP status	Error Code	Text Description
<u>status</u> 400	FAILED_VALIDATION Related control: VAL_FIE_REF VAL_MSG_XML	Error Descr: The field <xxx> should contain a valid <yyy> Error Descr for Circular Reference issue: The message contains UI values that form a circular reference Eg: The value for the field Aggregation_Type (<b>XXX</b>) is not in the defined set of values for AggregationType (<b>YYY</b>) (1 2 or 3) Comments: The values must match the values included in the set defined in the Data Dictionary. Concerning circular reference error: the UI mentioned in the event message is a parent of another UI</yyy></xxx>
400	REQUIRED_FIELD_FAILED_VALIDATION Related controls: VAL_FIE_MAN VAL_MSG_JSON	present in the same message. Error Descr: The field <xxx> is required. VAL_FIE_MAN: Data missing in Mandatory field. Eg: field = "" VAL_MSG_JSON: Missing mandatory field. Eg: field = null or not present in the JSON</xxx>
400	INVALID_MESSAGE_TYPE Related control: VAL_MSG_TYPE	Error Descr: Message type is unknown Comment: The type of Message you are using is not present in the Data Dictionary.
400	INVALID_SIGNATURE	Error Descr: Hash information not matching the message signature

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	Related control: VAL_SEC_HASH	Comment: The validation of the HASH of the body of the message doesn't match the transmitted HASH information in the header X- OriginalHash.
400	MAX_LENGTH_FAILED_VALIDATION Related control: VAL_MSG_JSON	Error Descr: The field <xxx> should be a value with maximum length of <y></y></xxx>
		Comment: The message doesn't follow the specifications defined in the Data Dictionary. The number of characters must
400	MIN LENGTH FAILED VALIDATION	remain under the max length. Error Descr: The field <xxx> should</xxx>
400		be a value with minimum length of
	Related control: VAL_MSG_JSON	<y></y>
		Comment: The message doesn't follow the specifications defined in the Data Dictionary.
		The number of characters must
400	ENTRY_LENGTH_FAILED_VALIDATION	remain above the min length. Error Descr: The field <xxx> should</xxx>
		be a 2-dimensional array where each
	Related control: VAL_MSG_JSON	row contains <y> elements</y>
	V/L_1136_33011	Comment: The message doesn't
		follow the specifications defined in the Data Dictionary.
400	INVALID_INPUT_FORMAT	Error Descr: see examples below
	Related controls:	Example for 3.3 message (dispatch -
	VAL_MSG_JSON	EDP): n/a is a permitted value for the
	VAL_FIE_FORMAT	field 'Transport_vehicle' only if Transport_mode = 0
		Example for recall messages:
		Please note that a recall can not be
		performed on <xxx> messages.</xxx>
		Comments: The message doesn't follow the specifications defined in the
		Data Dictionary. The body of the message contains at
		least one field in wrong format or
		does not correspond to a valid JSON message.
		Recall messages in particular cannot
		be performed on 2.1 messages (IRU), 2.2 messages (IRA) and 2.3
		messages (IDA)

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400	DAVIDAD NOT UNTOUS	
400	PAYLOAD_NOT_UNIQUE	Error Descr: The message should contain a payload which was not
	Related control: VAL_MSG_DUPLICATE	previously used
		Comment: The system already
		processed the same payload delivered
		in an earlier message.
		You cannot resend the same payload.
400	EXCISE_NUMBER_NOT_VALID	Error Descr: The field
	Related control:	'EO_ExciseNumber2' should contain a valid excise number
	VAL_MSG_JSON	Valia excise number
		Comment: The format of the field
		EO_ExciseNumber2 doesn't match the
		Data Dictionary.
400	NON_COMPATIBLE_UIS	Error Descr: the field `upUI_2' should
	Related control:	be compatible with `upUI_1'
	VAL_MSG_JSON	Comment: Activation failed as ordered
		list of UIs with timestamp, did not
		match short UIs.
400	NOT_THE_SAME_NUMBER_OF_ITEMS	Error Descr:
	Related control:	For 3.1 message (activation - EUA): The field 'upUI_1' should contain the
	VAL_MSG_JSON	same number of items as 'upUIs_2'
	W.L_1136_3301	sume number of items us upors_2
		For 4.1 message (invoice - EIV):
		The field 'Product_Items_2' should
		contain the same number of items as
		`ProductIdentifiers' And
		The field 'Product_Price' should
		contain the same number of items as
		'ProductIdentifiers'
		Comments:
		3.1 message (activation - EUA):
		Activation failed as number of UI with
		timestamp, did not same number as
		short UIs.
		4.1 message (invoice - EIV): message failed as the items contained int the
		fields 'Product_Items_2' and/or
		'Product_Price' are/is not the same as
		the number of items in
400		'ProductIdentifiers'.
400	MULTIPLE_UID	Error Descr: The field 'upUI'/'aUI' contains duplicate values
	Related control:	contains duplicate values
	VAL_UI_MULT_MSG	Comment: Multiple duplicate UI
		present in the message lists. Message
		must contain only one occurrence of
500	SYSTEM_ERROR	the same UI. Error descr: Null
500		
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		Comment: The internal error ID should be provided to Dentsu support if required.
400	TIME_2019 Related Control: VAL_TIME_2019	Error Descr: The field 'Event Time' or 'Message Time Long' is earlier than May 2019. No reported is allowed before that date.
400	TIME_72 Related Control: VAL_TIME_72	Error Descr: The field 'Event Time' or 'Message Time long' is reported in the future.

## 5.3 Validation Warning

HTTP status	Error Code	Text Description
299	OPERATION_WITHIN_24_HOURS Related control: VAL_EVT_24H	Warning Descr: Reporting events should be performed within 24 hours of the occurrence of the event (except dispatch and trans-loading events)
		Comment: You received this warning because this message has been reported late, i.e. more than 24 hours after the event time. Please note that the reporting time frame will be reduced to 3 hours starting from May 2028.
299	SHIPMENT_WITHIN_24_HOURS Related control: VAL_EVT_TIME	Warning Descr: The date/Time provided in the field 'Event_Time' should not be more than 24 hours ahead of the actual reporting time
		Comment: Dispatch and transloading events have to be reported within a time frame of 24 hours prior to the occurrence of the movement. Control is based on the "actual date – Event_Time" time difference.
299	UI_SEQUENCE_WARNING Related control: VAL_UI_ORD_SEQUENCE_WARNING	Warning Descr: <action> is not expected nor allowed when state is generated/deactivated/implicitly disaggregated</action>
		Error Data: list of UI
		Comment: This error happens when you are trying to generate upUIs which are already existing in the Secondary, or to deactivate upUIs/aUIs already

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		deactivated, or to deactivate aUIs
		already implicitly disaggregated.
299	UI_NOT_EXIST	Warning Descr: The field 'upUIs/aUIs'
		must contain elements that are already
	Related controls:	recorded and in one of the following
	VAL_UI_EXIST_UPUI	states: Activated, Generated
	VAL_UI_EXIST_AUI	
		Error Data: list of UI
		Comment:
		This error is implemented for logistic
		actions, excluding UI activation.
		The most common reasons causing this
		message to occur are: a) the UI in
		question is a pre TPD/legacy UI never
		reported to the Secondary, b) the UI in
		question is a new UI not yet reported to
		the Secondary, c) The UI in question has
		not been encoded or decoded in line with
		the existing formatting instructions
		VAL_UI_EXIST_AUI
		Logistic action is not expected nor
		allowed if a UI does not exist (has not
		been part of an EPA message as a
		parent).
		VAL_UI_EXIST_UPUI
		Logistic action is not expected nor
		allowed if a UI does not exist (has not
		been part of any IRU message).

## 5.4 Validation errors

HTTP status	Error Code	Text Description
400	CANNOT_ROUTE Related control: CANNOT_ROUTE	Error Descr: This message cannot be routed Comment: The IRU message cannot be routed to the corresponding primary repository. The ID Issuer should contact the primary provider and ensure that the EOID is correctly configured and pointing to the corresponding primary repository.
400	UI_NOT_VALID Related controls: VAL_UI_EXIST_UPUI_SEQ VAL_UI_EXIST_AUI_SEQ	Error Descr: <action> is not expected nor allowed when the pack has not been part of an application or an aggregation Error Data: list of UI Comment:</action>

		Action on upUI is not expected nor allowed
		when the upUI has not been applied. Action on aUI is not expected nor allowed when the aUI has not been aggregated
400	UIS_APPLICATION_ERROR Related controls: VAL_UI_EXIST_APP VAL_UI_DUPLICATE_APP	Error Descr for 3.1 message (activation - EUA): Unique Identifier application on unit pack is not expected nor allowed when pack does not exist or has been reported to be already applied
		Error descr for 2.3 message (deactivation - IDA): Deactivation of upUI/aUI is not expected nor allowed when upUI/aUI does not exist
		Error Data: list of UI
		Comment: this error is generated when trying to activate/deactivate UIs which are not recorded in the Secondary or which have already received an application event.
400	UI_DEACTIVATED	Error Descr for 3.1 messages (activation - EUA): Unique identifier application on unit
	Related controls: VAL_UI_ORD_REACTIVATION VAL_UI_ORD_DEACTIVATED	pack is not expected nor allowed once the unique identifier has been deactivated
		Error Descr for other logistic actions: <action> is not expected nor allowed once the unique identifier has been deactivated</action>
		Error Data: list of UI
		Comment: The action you want to perform is not expected nor allowed after the UI has been deactivated with the 2.3 message.
400	MULTIPLE_AGGREGATION	Error Descr: Aggregation is not expected nor allowed when the pack is considered as
	Related control: VAL_UI_ORD_AGG_MULT	aggregated or implicitly disaggregated
		Error Data: list of UI
		Comment: Multiple aggregation identified for an aUI (as a parent) without having an explicit disaggregation of this aUI.
400	UI_ALREADY_DISAGGREGATED Related controls: VAL_UI_ORD_DISAGG VAL_UI_ORD_IMPLDISAGG	Error Descr: <action> is not expected nor allowed once the pack has been made explicitly available for aggregation after disaggregation</action>
		Error Data: list of UI
		Comment: an aUI that has been disaggregated (explicitly or implicitly) cannot be part of any product movement prior of being aggregated.

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400	LOCATION MISMATCH	Error Descr: the FID must match with the
	Related controls: VAL_UI_ORD_AGG_FID VAL_UI_ORD_DISPATCH	location state of the reported unique identifiers Error Data: list of UI Comment: VAL_UI_ORD_AGG_FID All the goods must have been produced or reported to be in stock in the location where they are aggregated / disaggregated. VAL_UI_ORD_DISPATCH All the goods must have been produced or reported to be in stock in the location from which they are i dispatched.
400	FID_MISMATCH Related Control: VAL_UI_FID_APP	Error Descr: the FID must match the FID specified in the meta data of unique identifiers Comment: UI application in this location is not expected nor allowed as this location is not the one of the 2.1 message. Error Data: list of UI
400	ARRIVAL_NOTALLOWED Related Control: VAL_UI_ORD_ARRIVAL VAL_UI_ORD_ARRIVAL_RETURN	Error Descr: <action> not expected nor allowed when the pack is considered as in stock within EU facility following an application, arrival or return Error Data: list of UI Comment: arrival in EU facility is not expected nor allowed when the UI is considered as 'in stock' in a non-retail facility , meaning that a UI must have been part of a prior reported dispatch or transloading event before having an arrival It is not allowed to arrive multiple times the same UIs. Exceptions: Imported products are allowed for arrival in EU facility without having any prior dispatch or transloading</action>
400	UI_SEQUENCE_ERROR Related control: VAL_UI_ORD_SEQUENCE	Error descr: <action> is not expected nor allowed when/once <state> Error Data: list of UI Comment: this is a generic sequence validation error caused by a message sent out of the permitted sequence.</state></action>

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400	UI_EXPIRED	In particular, an implicit disaggregation in transit is not allowed, meaning that the reporting of an arrival must be done with reference to the same UI(s) as reported for the purpose of preceding dispatch/transloading. Example for a 3.3 message (dispatch): <i>Dispatch from EU for delivery to retail</i> <i>destination is not expected nor allowed when</i> <i>the pack has been reported as dispatched for</i> <i>delivery to retail destination</i> ( <i>DISPATCHED_EU_FIXED_QT_RETAIL/EDP_EU</i> <i>_FIXED_QT_RETAIL</i> ) In this case, the dispatch is failing because it is including UIs which are in state dispatched Example for a 3.7 message (report of delivery through Vending Van) <i>Report of EU delivery with a vending van to</i> <i>retail outlet destination is not expected nor</i> <i>allowed when the pack has not been</i> <i>previously reported as dispatched for VV</i> <i>delivery</i> ( <i>DISPATCHED_EU_FIXED_QT_RETAIL/EVR</i> ) In this case, the delivery through Vending Van is not allowed because the previous event is a dispatch to a facility with delivery of fixed quantity. It should have been a dispatch with delivery with Vending Van. Error Descr: Some or all unique identifiers listed in the message have expired
	Related control: VAL_UI_EXPIRY	Error Data: list of UI Comment: Validation if the application or the aggregation date doesn't exceed the 6 months period after the generation of unique identifiers by the ID issuers.
400	EOID_NOT_EXIST_OR_ACTIVE Related controls: VAL_ENT_EXIST_EOID VAL_ENT_ACTIVE_EOID	Error Descr: EOID mentioned in the field 'EO_ID' is not marked as active in the repository Error Data: EOID Comment: The field 'EO_ID' must contain elements that are already recorded and active.
400	FID_NOT_EXIST_OR_ACTIVE Related controls: VAL_ENT_EXIST_FID VAL_ENT_ACTIVE_FID	Error Descr: FID mentioned in the field 'F_ID' is not marked as active in the repository Error Data: FID Comment: The field 'F_ID' must contain elements that are already recorded and active.

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400	MID_NOT_EXIST_OR_ACTIVE Related controls: VAL_ENT_EXIST_MID VAL_ENT_ACTIVE_MID	Error Descr: MID mentioned in the field 'M_ID' is not marked as active in the repository Error Data: MID Comment: The field 'M_ID' must contain elements that are already recorded and active.
400	FID_NOT_RELATED_TO_EOID Related control: VAL_ENT_REL_EOID_FID	Error Descr: There is no existing relation recorded between FID mentioned in the field 'F_ID' and a EOID Comment: There is no existing relation recorded between FID mentioned in the field "F ID" and an EOID.
400	MID_NOT_RELATED_TO_FID Related control: VAL_ENT_REL_ FID_MID	Error Descr: There is no existing relation recorded between MID mentioned in the field 'M_ID' and a FID Comment: there is no existing relation recorded between MID mentioned in the field "M ID" and a FID.
400	CODE_NOT_UNIQUE Related controls: VAL_MSG_CODE_DUPLICATE VAL_RECALL_EXIST	Error Descr: The field 'Recall_Code' must contain a value which was not previously used Comment: The recall code provided has been used before. For recall messages, you cannot recall twice on the same recall code if the previous recall message succeeded.
400	CODE_NOT_EXIST Related control: VAL_RECALL_EXIST	Error Descr: The field 'Recall_Code' must contain elements that are already recorded Comment: The recall code provided has not been found into the secondary.
400	RECALL_NOT_LAST_EVENT Related control: VAL_RECALL_LAST	<ul><li>Error Descr: Please note that a recall can only be performed on valid messages that referred to UIs which were not later used in other messages.</li><li>Error Data: list of pair (UI @ Previous RecallCode)</li><li>Comment: recalls can only be performed on last event.</li></ul>