GI NATIONAL TOBACCO TRACK & TRACE GATEWAY: TECHNICAL SPECIFICATIONS AND DATA DICTIONARY

V1.0

dentsu
TRACKING

Summary of changes

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Date	Version	Submitted to
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Table of contents

Introduction

This document sets out the technical specifications and data dictionary referred to in Commission Implementing Regulation (EU) 2018/574 (as amended).

This document is intended for all Economic Operators required to connect and report to the Gibraltar (GI) tobacco track and trace system, in accordance with the rules laid down in the TOBACCO PRODUCTS (TRACEABILITY AND SECURITY FEATURES) REGULATIONS 2026.

1 System Overview

This document defines the technical specifications for the Gateway of the GI Tobacco Track & Trace System established and operated by Dentsu Tracking. The information provided in this document includes information about data types, messages, authentication, security, detailed message validation description, error messages, and an overall system overview.

1.1 Definitions and Abbreviations

The definitions set out in Commission Implementing Regulation (EU) 2018/574 (as amended) and its annexes apply.

Expression or Acronym	Definition
CIR 2018/574	Commission Implementing Regulation (EU) 2018/574
EO	Economic Operator
EOID	Economic Operator Identifier code
FID	Facility Identifier Code
MID	Machine Identifier Code
FCTC	World Health Organization Framework Convention on Tobacco Control
HMGoG	His Majesty's Government of Gibraltar 'the Authority' (the Contracting Authority)
KPI	Key Performance Indicator
RoW	Rest of World. Other countries outside GI.
SLA	Service Level Agreement
UI	Unique Identifier. The alphanumeric code enabling the identification of a unit packet or an aggregated packaging of tobacco products.
GI	Gibraltar
Service Provider	Third party acting on behalf of one or multiple Economic Operator, submitting messages to the GI Gateway
ATD	Anti-Tampering Devices.

1.2 Key design principles

The GI Track & Trace system consists of the following sub-systems: GI ID Issuer, GI Gateway and GI Data Repository.

- The **GI ID issuer** generates and issues unique identifier codes for tobacco products destined for and travelling through Gibraltar territory, as well as identifier codes that enable the registration of Economic Operator, Facilities and Machines in the system. For detailed information on the ID Issuer, please refer to the separate document 'GI ID Issuer Technical Specifications'.
- Economic operators must record all product movements and transactional data for tobacco products, from the manufacturer to last economic operator before the first retail outlet. All recorded data must be transmitted to the **GI Gateway** which will perform the applicable business and technical validations on the submitted data and provide a positive or negative acknowledgment message to the sender accordingly.
- The received data is subsequently transferred to the **GI Data Repository** where it is accessible to authorised personnel of HMGoG and any other nominated authority

2 Interfaces

2.1 Overview

This section describes the interfaces through which Economic Operators and Service Providers interact with the GI Gateway. The GI Gateway is accessible via API.

The process to request credentials for the API is shared as part of the onboarding process in the GI Track & Trace System. Economic Operators are able to request credentials on demand.

2.1.1 Accepted protocols

The API supports HTTPS-based REST API in JSON format.

HTTP Method POST is used for all requests.

2.1.2 Encoding

All messages are encoded in UTF-8.

2.1.3 Secured Communication

Communication between the interacting participants and the GI Gateway is secured by TLS 1.2 encryption AES256 cypher. Less secure Cypher suites are not supported. If the TLS version or cypher used proves to be corroded or vulnerable, Dentsu reserves the right to replace the affected item with a state-of-the-art item after prior announcement.

The Repository System uses OAuth 2.0 to authorize access to the web service methods. OAuth 2.0 is the industry-standard protocol for authorisation. OAuth 2.0 supersedes the work done on the original OAuth protocol created in 2006. OAuth 2.0 focuses on client developer simplicity while providing specific authorisation flows for web applications, desktop applications and server to server communication. The system uses the OAuth client credential flow. The client credentials flow is used as authorisation grant because the authorisation scope is limited to the protected resources previously arranged with the authorisation server (GI Repository).

Access tokens are issued in the form of credentials used to access protected resources.

An access token is a string representing an authorisation issued to the client. The string is opaque to the client and passed in the authentication header. Tokens represent specific scopes and durations of access, granted by the resource owner, and enforced by the resource server and authorisation server. Tokens expire after 86.400 seconds (24 hours).

2.2 GI Gateway interface

2.2.1 System Reception Timestamp

In some cases, economic operator systems can generate bursts of messages. Several messages can be produced during the same second and therefore will have the same EventTime and the same MessageTimeLong.

In order to implement efficiently the required sequence validation controls, the System Reception_Time is defined at the level of milliseconds.

The Reception_Time will be recorded and added by the GI Gateway upon reception of a given message.

2.2.2 Message identification and RecallCode

2.2.2.1 Overview

The Gateway assigns a unique chain of characters that uniquely identifies each message, called RecallCode.

2.2.2.2 Message Recall

Economic operators have the possibility to recall messages after those were transmitted to the GI system.

The reasons for recalling the original message may be:

1. Reported event did not materialise (only for messages related to dispatch events and trans-loading);
2. Message contained erroneous information;
3. Other.

2.2.2.3 RecallCode structure

ReallCode structure follows version 5 of the UUIs standards set out in ISO/IEC 11578:1996.

2.2.2.4 Messages

The following table describes the messages that may be recalled by economic operators.

	Annex II Reference	
IDA	*(2.3)*	*Deactivation of UIs (only if specific conditions are met)*
PAR	*(3.A1)*	*Code Pairing*
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 of tobacco products from a facility*

ERP	*(3.4)*	*Arrival of tobacco products at a facility*
ETL	*(3.5)*	*Trans-loading*
EUD	*(3.6)*	*Disaggregation of aggregated level UIs*
EVR	*(3.7)*	*Report of delivery carried out with a vending van to retail outlet*
EDX	*(3.8)*	*Dispatch of tobacco products from a facility to laboratories, waste disposal centres, national authorities, international governmental organisations, embassies and military bases*
EIV	*(4.1)*	*Issuing of the invoice*
EPO	*(4.2)*	*Issuing of the order number*
EPR	*(4.3)*	*Receipt of the payment*

2.2.2.5 Recall Process

The recall must include the respective message's RecallCode which was provided to the message sender in the acknowledgement of the original message. The recall must also contain the following information:

- Reason for recalling the original message;
- Description of the reason for recalling the original message;
- Any additional explanations on the reason for recalling the original message.

Recall of a given message results in flagging that message as cancelled but it does not delete the original message's database record.

2.2.2.6 RecallCode Field

The RecallCode is obtained from the original message's "code" property:

JSON Example response:

```
{
    "Code": "6854f9a6-a2b2-4c08-8000-0173f3c35567",
    "Message_Type": "EPA",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

Whereas "Code" is the RecallCode.

2.2.3 Message response

A message transmission corresponds to a message request performed by the sender system and a message response provided by the destination system. The message response contains the http status and the body of the message response.

2.2.3.1 Successful response or event acknowledgment

In line with CIR 2018/574 (as amended), messages / events are considered reported upon the receipt of the acknowledgement message (successful) transmitted from the GI

Gateway to the sender system. The http status for the message "positive response without any warning" is 200 and 202.

Note: A warning message (http status 299) is also considered as a successful response (message is acknowledged).

2.2.3.2 Negative response

The GI Gateway sends a negative response if the reported event does not meet the technical specifications. Negative response http status is in the range of 400-499 and 500-599.

2.2.3.3 Timeout

If the GI Gateway did not produce a response within the time that the sender system was prepared to wait, the sender system may repeat the request without modifications at any later time. The absence of a response (or the http timeout response) indicates that the message is not acknowledged.

2.2.3.4 Timeout handling

In case of a timeout for a certain request, the sender system should retransmit the original message (identical payload). If the sender system changes the original message (e.g., by updating the Message Time Long), the GI Gateway will consider the message as a different message.

If the GI Gateway was able to process the original message, but the sender never got a reply and retransmits the message with an identical payload, then the GI Gateway will return the Error Code "PAYLOAD_NOT_UNIQUE" along with the original RecallCode assigned to the original request. In this case, the sender will consider the original message to be positively acknowledged and does not need to resubmit it a third time.

2.2.3.5 JSON Successful response sample

```
HTTP Status 202

{

    "Code": " 6854f9a6-a2b2-4c08-8000-0173f3c35567",

    "Message_Type": "EPA",

    "Error": false,

    "Errors": null,

    "Checksum": "G6HF5H"

}
```

2.2.4 Error response detailed

The GI Gateway provides sufficient details to allow external system administrators to identify the issue and act accordingly.

The response message can contain multiple errors, see below:

```
JSON

    "Errors": [

            {<<Error>>},

            {<<Error>>},
            {<<Error>>}
]
```

Each error contains the following information:

- **Error_InternalID** is the unique identification of the message processing and validation activity.
- **Error_Code** is the identifier of the type within the system.
- **Error_Descr** is the description in human readable format containing specific error information.
- **Error_Data** is the data to which the error relates. This can be: EOIDs, FIDs, MIDs and UIs.
    - Note: the GI Gateway uses the character **#** as separator for the UIs in case a list of UIs is provided in the error data field.

Example List of Errors:

JSON

```
{
    "Error_InternalID": "yndkFz7TBEO706frD38hzA",
    "Error_Code": "INVALID_REQUEST_FORMAT",
    "Error_Descr": "The EconomicOperatorIdentifier field is unknown."
    "Error_Data": "123456789123456#123456789123455#123456789123444"
}
```

Note that "Error_InternalID" is only returned for system errors (HTTP 500).

2.2.4.1 *Security errors*

Security errors are provided **before** the sender can be authenticated in the GI system. Therefore, these error message types do not return the ordinary error code structure of a negative acknowledgement as foreseen under CIR 2018/574 (as amended). Instead, these are transmitted in standardised version of HTTP error responses, such as:

HTTP status	Error Code	
401		Invalid security token
401		Expired security token

2.2.4.2 *Processing Errors*

Processing Errors are generated **after** the sender has been authenticated in the GI system but are the result of a malformed message. In this case, the Error Code is provided as follows:

HTTP status	Error Code	
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” doesn’t correspond with 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.
504	Gateway Timeout	The request timeout

Error body sample:

```
JSON
{
    "Code": null,
    "Message_Type": null,
    "Error": true,
    "Errors": [
           {
             "Error_InternalID": "yndkFz7TBEO706frD38hzA",
             "Error_Code": "INVALID_REQUEST_FORMAT",
             "Error_Descr": "The EconomicOperatorIdentifier field is required.",
             "Error_Data": "54G7J”
             }
    ],
    "Checksum": "G6HF5H"
}
```

Note that “Error_InternalID” is only populated for system errors (HTTP 500).

2.2.5 Message integrity and hash

The GI Gateway always verifies the message checksum to ensure that data was not tampered with during transit. Messages containing an invalid hash are not accepted.

The client will add a MD5 hash to the X-OriginalHash HTTP header. This structure is then added to the message.

Message Header – JSON

X-OriginalHash	1234567890abcdefghijklmnopqrstuvwxyz
Content-Type	application/json
Authorisation	<Token>

If the MD5 hash validation fails, the GI Gateway will return the following error code:

HTTP status	**Error Code**	
401	INVALID_SIGNATURE	"The message signature does not match"

2.2.6 Message size

The maximum message size is 6MB. The limit on the HTTP header size is 10.240 bytes.

2.2.6.1 Maximum number of UI

Online sequence validation controls require a limitation on the number of UIs (sum of the unit level UI and the aggregated level UI) per message for the following events:

Message Type	**Annex II Reference**	**Message description**	**Number of UI (upUI + aUI)**
IDA	(2.3)	Request for deactivation of UIs	1000
IRR	(2.4)	Request for reactivation of UIs for products reported as stolen but recovered	5000
EUA	(3.1)	Application of unit level UIs on unit packets	5000. Divided into: 2500 upUI(L) + 2500 upUI(s)
PAR	(3.A1)	Paring event of unit level UIs	5000. Divided into: 2500 Printed_Code + 2500 Paired_Code
EPA	(3.2)	Application of aggregated level UIs on aggregated packaging	5000
EDP	(3.3)	Dispatch Event	5000
ERP	(3.4)	Reception event	5000
ETL	(3.5)	Trans-loading event	5000
EUD	(3.6)	Message to report an UI disaggregation	5000

EVR	(3.7)	Report the delivery carried out with a vending van to retail outlet	5000
EDX	(3.8)	Dispatch of tobacco products from a facility to laboratories, waste disposal centres, national authorities, international governmental organisations, embassies and military bases	5000
EIV	(4.1)	Message to report an invoice	5000
EPO	(4.2)	Purchase order	5000
EPR	(4.3)	Payment record	5000

2.2.7 Number of simultaneous connections

There is no limit for simultaneous connections between the sending systems and the GI Gateway.

2.2.8 Message Sequence

Message sequence must comply with the requirements of CIR 2018/574 (as amended).
The reporting of messages to the GI Gateway is completed upon receipt of an acknowledgement message by the GI Gateway.

2.2.9 Buffering and Burst transmissions

Messages should be transmitted continuously by the different systems without buffering.
In case of buffering caused by technical maintenance activities, the transmitting system should implement mechanisms to ensure the correct sequencing of the events.

2.2.10 Message Retransmission limitation

A message that was positively acknowledged must not be retransmitted a second time (unless the sender received a timeout and is not aware of the positive acknowledgement).

In case that a positive acknowledge message is retransmitted to the GI Gateway, the system will return a “PAYLOAD_NOT_UNIQUE” error by computing an MD5 hash of the body of the message to identify the duplicate retransmission.

3 Data description

3.1 Data types

Data Type	Description	Type	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 generated by the GI ID Issuer	Text(100)	
Boolean	Boolean value	Boolean	• 0 (false/disabled) • 1 (true/enabled)
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)	'GI'
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. '2026-03-31'
Decimal	Number values, decimal allowed	Decimal	E.g. '1' or '22.2' or '333.33'

<table>
<tr><td>Email</td><td>Maximum 80 characters</td><td>Text(80)</td><td>E.g. 'info@test.com'
Validation RegEx:
^((([a-zA-Z]|\d|[!#\$%&'*\+\-\/=\?\^_`{\|}~]|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])+(\.([a-zA-Z]|\d|[!#\$%&'\*\+\-\/=\?\^_`{\|}~]|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])+)*)|((\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])|(\\([\x01-\x09\x0b\x0c\x0d-\x7f]|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF]))))*(((\x20|\x09)*(\x0d\x0a))?(\x20|\x09)+)?(\x22)))@((([a-zA-Z]|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|(([a-zA-Z]|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])([a-zA-Z]|\d|-|\.|_|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])*([a-zA-Z]|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])))\.)+(([a-zA-Z]|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|(([a-zA-Z]|[\u00A0-\uD7FF\uF900-</td></tr>
</table>

<table>
<tr><td></td><td></td><td></td><td>\uFDCF\uFDF0-\uFFEF])([a-zA-Z]|\d|-|\.|_|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])*([a-zA-Z]|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF]))\.?$</td></tr>
<tr><td>EOID</td><td>Economic operator identifier code corresponding to the format established by ID issuer coded with the invariant set of ISO 8859-15:1999
EOID starts with the alphanumeric characters that constitute the ID issuer identification code, followed by alphanumeric sequence which is unique within the code pool of the ID issuer.</td><td>Text(50)</td><td></td></tr>
<tr><td>FID</td><td>Tobacco facility identifier code corresponding to the format established by ID issuer coded with the invariant set of ISO8859-15:1999</td><td>Text(50)</td><td></td></tr>
<tr><td>Integer</td><td>Rounded number values, no decimal numbers</td><td>Integer</td><td>E.g. '1' or '22' or '333'</td></tr>
<tr><td>IIID</td><td>ID Issuer code in line with the issuing agency codes of ISO/IEC 15459</td><td>Text(35)</td><td>E.g. 'QCGIT'</td></tr>
<tr><td>ITU</td><td>Individual transport unit code (e.g. SSCC) generated in accordance with ISO15459-1:2014 (or its latest equivalent)</td><td></td><td>'00791234560000000018'</td></tr>
<tr><td>List</td><td>Must be only one of the values present in the 'Values' column</td><td></td><td></td></tr>
</table>

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 country to which the declaration was sent, (c) unique identifier for entry/import per year and country, and (d) check digit.	Text(18)	'19IT9876AB88901235' Validation RegEx: `^[0-9]{2}[A-Z]{2}[a-zA-Z0-9]+[0-9]{1}$`
TP_PN	Product number – numeric identifier used in the CEG system to identify product presentations (e.g. GTIN (Global Trade Identification Number) of the product).	Text(30)	'00012345600012'
SEED	Excise number composed of: (a) country name coded with ISO-3166-1:2013 alpha-2 (or its latest equivalent) (e.g. 'LU') and (b) eleven alphanumeric characters, if needed, padded to the left with zeroes (e.g. '00000987ABC').	Text(13)	'LU00000987ABC' Validation RegEx: `^[A-Z]{2}[a-zA-Z0-9]{11}$`
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'
TPID	Tobacco Product Identifier (TP-ID) – numeric identifier used in the CEG system in the format: NNNNN-NN-NNNNN	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)		

upUI(i)	Unit packet level unique identifier coded with the invariant set of ISO646:1991 and composed of 2 blocks: (a) ID Issuer’s prefix in accordance with ISO154592:2015, (b) middle block in the format established by the ID issuer.		"LECNIzzzz000010000SLE”

3.2 Priority types

Type	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.

3.3 Cardinality types

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

3.4 Master Data Types

3.4.1 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

CA	Canada
CC	Cocos (Keeling) Islands
CD	Congo, Democratic Republic of the
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Côte d'Ivoire
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cabo Verde
CW	Curaçao
CX	Christmas Island
CY	Cyprus
CZ	Czechia
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt

EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands (Malvinas)
FM	Micronesia (Federated States of)
FO	Faroe Islands
FR	France
GA	Gabon
GB	United Kingdom of Great Britain
GD	Grenada
GE	Georgia
GF	French Guiana
GG	Guernsey
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the South Sandwich Islands
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	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IM	Isle of Man
IN	India
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
MF	Saint Martin (French part)
MG	Madagascar
MH	Marshall Islands
MK	Macedonia, the former Yugoslav Republic of
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macao
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
NI	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	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
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	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TL	Timor-Leste
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan, Province of China
TZ	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)
VI	Virgin Islands (U.S.)
VN	Viet Nam
VU	Vanuatu
WF	Wallis and Futuna
WS	Samoa
YE	Yemen
XI	Northern Ireland (in accordance with the Northern Ireland Protocol)
YT	Mayotte
ZA	South Africa
ZM	Zambia
ZW	Zimbabwe

3.4.2 DeactivationReasonType

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

3.4.3 EventType

Value	Name
IDA	Request for deactivation of UIs
IRR	Request for reactivation of UIs
PAR	Pairing between marked codes and virtual paired codes
EUA	Application of unit level UIs on unit packets
EPA	Application of aggregated level UIs on aggregated packaging
EDP	Dispatch Event
ERP	Arrival 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
EDX	Dispatch of tobacco products from a facility to laboratories, waste disposal centres, national authorities, international governmental organisations, embassies and military bases
EIV	Message to report an invoice
EPO	Purchase order
EPR	Payment record
RCL	Recall messages

3.4.4 InvoiceType

Value	Name
1	Original
2	Correction
3	Other

3.4.5 PaymentType

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

3.4.6 RecallReasonType

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

3.4.7 RegisterStatus

Value	Name
1	Registered
2	De-registered

3.4.8 TobaccoProductType

Value	Name
1	Cigarette
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	Not used
11	Novel tobacco product
12	Other

3.4.9 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

4 Messages

4.1 Message types to be exchanged

The message types set out in this section are laid down in Annex II to CIR 2018/574 (as amended), which is the official source and reference for all message fields and corresponding entries.

There are five categories of message, relating to:

- Identifier codes for economic operators, facilities and machines *(further described in the GI ID Issuer Technical Specifications)*
- Unique identifiers for unit level UIs or to be paired with associated unit level UIs, and for 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**
IDA	(2.3)	Request for deactivation of UIs
IRR	(2.4)	Request for reactivation of UIs
EUA	(3.1)	Application of unit level UIs on unit packets
PAR	(3.A1)	Code pairing of unit level 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
EDX	(3.8)	Dispatch of tobacco products from a facility to laboratories, waste disposal centres, national authorities, international governmental organisations, embassies and military bases
EIV	(4.1)	Message to report an invoice
EPO	(4.2)	Purchase order
EPR	(4.3)	Payment record

RCL	(5.0)	Recall messages

4.2 JSON Messages

4.2.1 Basic information block concerning the request

The following field is common to all messages.

Basic information block concerning the request - schema					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
Message_Type	The identifier of the type of message	Text(Limited to set of known message_types)	S	M	See above types of messages list

4.2.2 Basic information block concerning the response

Basic information block concerning the response - schema					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
Message_Type	The identifier of the type of message that the response refers to	Text	S	M	See above types of messages list
Error	Indicates the failure of the message reception	Boolean	S	M	0 – No 1- Yes
Errors	Array containing Error_Code, Error_Data (string), Error_Descr, Error_InternalID	Array of objects	S	M if Error = 1	
Code	RecallCode: Unique identifier of the message. Used for recall too.	Text(50)	S	M	
Checksum	The calculated checksum of the data received	Text(5000)	S	M	

4.2.2.1 Basic Error block description

Data Type	**Description**	**Type**	**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 controls, related RecallCode and fields when applicable.	Text(5000)	
Error_Internal ID	**Optional** internal ID of the error. This internal ID can be used for maintenance or audit purpose.	Text(50)	

4.2.3 Empty array and null values

4.2.3.1 Empty array

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

JSON

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

4.2.3.2 Null value

A JSON null value MUST be a literal named null.

JSON

```
{
   …
      "Code": null,
   …
 }
```

4.2.4 Decimal points

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

JSON

```
{
  …
    "DecimalValue": 35.21
  …
}
```

4.2.5 Common Error codes

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 (the message signature does not match).
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 a 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.

5 Message Validation

5.1 Overview

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

The GI Track & Trace system carries out real-time validations on two core aspects:

- **Technical validations** that focus on the structure of the information. Ensuring that the message is readable, and that the information contains all elements described in CIR 2018/574 (as amended) and the technical specifications.

- **Business validations** that focus on the sequence of the events:

  a) **Application check**: for the application of unit level UIs, verify that the application of a UI takes place at the location associated with that UI at the time of its generation/issuing.
  b) **Code-pairing checks**: for each message, ensure the correct association of GI UIs with foreign UIs (e.g., EU or other RoW T&T regimes).
  c) **Aggregation checks**: for the aggregation of UIs, verify that an aggregated-level UI and all UIs at lower packaging levels relate to the same facility (location validation).
  d) **Activation and duplication check**: for each transmitted reporting event, verify that the UI is activated, not duplicated, and that the UI is not marked as stolen, lost, or destroyed.
  e) **Location check**: for the dispatch of tobacco products, verify that a product is dispatched from the same location at which it was previously stored; for the arrival of tobacco products, verify that a product is marked as dispatched and in transit.
  f) **Sequence check**: Considering the history of the UIs in an event, avoid the declaration of double dispatch of products or double arrival of products.

<u>General functioning of validations:</u>

Upon the receipt of reported events relating to one or multiple UI(s), a certain number of calculated information called metadata are computed and managed internally on the GI repository and Gateway. 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 GI Repository and the GI Gateway to perform each validation in real time, ensuring compliance with the required response times for acknowledgment messages as set out in the concession contract (KPI levels).

Once the event is validated and accepted by the Gateway or the GI repository, the metadata for the respective UIs are updated.

5.2 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 warnings (validation failure),

the message is processed even with the warnings (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 in the GI Data Repository. The response contains the list of failed validations.

Note that the HTTP status 299 is used in multiple situations. 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.

5.3 Technical and business validation

The validation process is composed of a technical validation element and a business validation element. 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 took place and it focuses on the business data as such. Both technical and business validation are executed in accordance with the rules of CIR 2018/574 (as amended).

5.4 Timestamps

Control	**Event Time**	**Message Time Long**	**Reception Time**	**Record Time**
Source	Provided by EO system	Provided by EO system	Set by the GI Gateway	Established by the GI repository upon message consolidation
Precision	hour	second	milliseconds	milliseconds
		Used for sequence validation	Used for sequence validation as a replacement of the Message Time Long	Used for audit and reporting purposes
Note		Note: The Message time can be the Event Time on the second precision		

5.5 Type of validation

5.5.1 Security validation

The security validation is the first of the technical validations, ensuring that the connecting systems are authenticated and authorised to transmit data to the GI system.

Control	Description	Scope
VAL_SEC_HASH	Integrity check of the checksum	All messages
VAL_SEC_TOKEN	OAuth Security Token validation	All messages
VAL_SEC_CLAIM	Ensure that only Manufactures and Importers are able to submit the messages 3.1 (EUA) and 3.A1 (PAR)	EUA - PAR

5.5.2 Message Structure validation

This technical validation ensures that all incoming messages follow the technical guidelines. It also allows the GI system to access the message data accurately.

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

5.5.3 Message Transmission validation

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

Control	Description	Scope
VAL_MSG_DUPLICATE	Message payload already processed successfully by the Gateway should be rejected.	*IDA - IRR– PAR - EUA – EPA – EDP – ERP- ETL- EUD- EVR - EDX – EIV– EPO – EPR*

5.5.4 Unique Identifiers validation

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

5.5.4.1 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 will also be performed with the list of children in order to avoid first level cyclical reference.	*IDA – IRR - EUA – PAR - EPA – EDP - ERP- ETL- EUD – EVR - EDX – EIV - EPO - EPR*

5.5.4.2 Application Validation

Validate that the upUI(s) is only applied once to a upUI(L)

Control	Description	Scope
VAL_UI_EXIST_APP	The upUI(s) is not found in the GI Repository	*EUA – PAR - IDA*
VAL_UI_DUPLICATE_APP	Check if the upUI(s) has already been applied to a upUI(L)	*EUA - PAR*
VAL_UI_FID_APP	Validate that the FID inserted when requesting upUI(s) codes from the GI ID Issuer is matching the FID in the activation message.	*EUA*

5.5.4.3 Existence

The following control ensures that the UIs (upUI and aUI) exist, are valid and therefore can be used to report on product movement or transaction events.

Control	Description	Scope
VAL_UI_EXIST_UPUI	UI existence (generated by GI ID Issuer) upUI exists and has been successfully applied.	*EPA – EDP – ERP - ETL- EVR- EDX - EIV – EPO - EPR*
VAL_UI_EXIST_AUI	aUI existence (generated by GI ID Issuer) aUI has been aggregated (part of an EPA).	*IDA – EPA – EDP – ERP - ETL-*

		EVR – EDX - EIV – EPO - EPR
VAL_UI_EXIST_UPUI_SEQ	UI validity • upUI exists and has been successfully applied; • upUI has not been part of any deactivation message.	*EPA (Children) – EDP – ERP – ETL – EVR - IDA*
VAL_UI_EXIST_AUI_SEQ	aUI validity • aUI has been aggregated (part of an EPA); • aUI has not been disaggregated (including implicit disaggregation); • aUI has not been deactivated. • aUI is not being reused (after explicit disaggregation)	*IDA – EPA (Children) – EDP – ERP - ETL-EVR*

5.5.4.4 upUI Expiration

upUI(s) and aUIs that are issued by the GI ID Issuer and delivered to the Economic Operator are subject to a limited validity period.

Control	**Description**	**Scope**
VAL_UI_EXPIRY	Validate that the application or the aggregation date does not exceed the 6 months period from the time the UI was issued and transmitted to the Economic Operator.	*EUA, EPA, PAR*

5.5.4.5 UI level Message sequence validation

5.5.4.5.1 Sequence Validation overview

The following tables provide a summary overview of permitted UI events, based on the last event received for that specific UI.

Note that transactional events (4.x) are not described as there is no sequence validation implemented for those events.

Legend:

Yes (Green): the message is accepted for that specific UI; no location validation is applied.
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.	*IDA - IRR – PAR - EUA – EPA – EDP – ERP – ETL - EDX – EUD - EVR*

			PREVIOUS MESSAGE on the UI present in the received message							
Message Received	upUI GENERATED	aUI GENERATED	IDA 2.3	IRR 2.4	PAR (3.A1)	EUA 3.1	EUA 3.1 Import	EPA 3.2 parent UI	EPA 3.2 parent UI Import	EPA 3.2 Child
IDA 2.3	Yes	Yes	No	Yes	Yes (on printed codes)	Yes	Yes	Yes	Yes	Yes
IRR 2.4	No	No	Yes	No	No	No	No	No	No	No
PAR 3.A1	Yes	No	No	No	No	No	No	No	No	No
EUA 3.1	Yes	No	No	No	Yes (on printed codes)	No	No	No	No	No
EUA 3.1 Import	Yes	No	No	No	Yes (on printed codes)	No	No	No	No	No
EPA 3.2 parent UI	No	Yes	No	No	No	No	No	No	No	No
EPA 3.2 child UI (upUI)	No	No	No	Yes	No	Yes	Yes	No	No	Yes
EPA 3.2 child UI (aUI)	No	No	No	Yes	No	No	No	Yes	Yes	Yes
EDP 3.3 Export (type 1)	No	No	No	Yes	No	Yes	No	Yes	No	Yes
EDP 3.3 (type 2)	No	No	No	Yes	No	Yes	No	Yes	No	Yes
EDP 3.3 VM (type 3)	No	No	No	Yes	No	Yes	No	Yes	No	Yes
EDP 3.3 VV (type 4)	No	No	No	Yes	No	Yes	No	Yes	No	Yes
ERP 3.4	No	No	No	No	No	No	Yes	No	Yes	No
ERP 3.4 (Return)	No	No	No	No	No	No	No	No	No	No

ETL 3.5	No	No	No	No	No	No	No	No	No	No
ETL 3.5 (Export)	No	No	No	No	No	No	No	No	No	No
EUD 3.6	No	No	No	Yes	No	No	No	Yes	Yes	Yes
EVR 3.7	No	No	No	No	No	No	No	No	No	No
EDX 3.8	No	No	No	Yes	No	Yes	No	Yes	No	Yes
EIV 4.1	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
EPO 4.2	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
EPR 4.3	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes

	PREVIOUS MESSAGE on the UI present in the received message											
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	ERP 3.4	ERP 3.4 (Return)	ETL 3.5	ETL 3.5 Export	EUD 3.6	EUD 3.6 (aUI implicitly disaggregated) - reuse of aUI	EVR 3.7	EDX 3.8
IDA 2.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IRR 2.4	No	No	No	No	No	No	No	No	No	No	No	No
PAR 3.A1	No	No	No	No	No	No	No	No	No	No	No	No
EUA 3.1	No	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	No
EPA 3.2 parent UI	No	No	No	No	No	No	No	No	Yes	No	No	No
EPA 3.2 child UI (upUI)	No	No	No	No	Yes	Yes	No	No	No	No	No	No
EPA 3.2 child UI (aUI)	No	No	No	No	Yes	Yes	No	No	No	No	No	No
EDP 3.3 Export (type 1)	No	No	No	No	Yes	Yes	No	No	No	No	No	No
EDP 3.3 (type 2)	No	No	No	No	Yes	Yes	No	No	No	No	No	No
EDP 3.3 VM (type 3)	No	No	No	No	Yes	Yes	No	No	No	No	No	No
EDP 3.3 VV (type 4)	No	No	No	No	Yes	Yes	No	No	No	No	No	No
EDX 3.8	No	No	No	No	Yes	Yes	No	No	No	No	No	No
ERP 3.4	No	Yes	No	No	No	No	Yes	No	No	No	No	No
ERP 3.4 (Return)	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No	Yes	Yes
ETL 3.5	No	Yes	No	No	No	No	Yes	No	No	No	No	No
ETL 3.5 (Export)	Yes	No	No	No	No	No	No	Yes	No	No	No	No
EUD 3.6	No	No	No	No	Yes	Yes	No	No	No	Yes	No	No
EVR 3.7	No	No	No	Yes	No	No	No	No	No	No	No	No
EIV 4.1	Yes	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	Yes
EPR 4.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

For dispatch event 3.3 EDP, type refers to the Destination_ID1 field:

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

Type 'return' in ERP (3.4) is based on the Product_Return field:

0 – No
1– The arrival is of the type "product return"

The field Destination_ID1 in the ETL (3.5) event indicates if the ETL concerns an export event or is destined for a GI location:

0 – No
1 – Yes

5.5.4.5.2 Application and deactivation sequence validation

Control	**Description**	**Scope**
VAL_UI_ORD_REACTIVATION	upUIs that have been previously deactivated cannot be followed by an application event (EUA).	*EUA*
VAL_UI_ORD_DEACTIVATED	Previously deactivated UIs were mentioned in a message.	*EPA – PAR - EDP – ERP- ETL- EUD- EVR- EDX - IDA*
VAL_UI_ORD_REACTIVATION_NOT_ALLOWED	Reactivation of UIs not allowed (only permitted if in preceding message type 2-3, field Deact_reason1 = 2). So, the validation triggers if the UIs are NOT deactivated or if they are deactivated with Deact_reason1 != 2	*IRR*

5.5.4.5.3 Aggregation and Disaggregation Principles

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

Principle 2: All disaggregation events are full disaggregations. Once the aUI is disaggregated, no movement should be reported on that aUI.

Principle 3: Implicit disaggregation. The implicit disaggregation is detected when at least one child UI is reported in an aggregation or product movement event. 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. Consequently, once an implicit disaggregation is detected, no movement should be reported on that parent aUI.

Principle 4: All disaggregation must be performed at a registered location. Disaggregation during transport is not permitted.

Note that implicit disaggregation might be triggered during 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 Product Return.

5.5.4.5.4 Implicit disaggregation

Disaggregation events are optional. Therefore, it is likely that certain product movement messages will be reported at lower-level hierarchy, triggering an implicit disaggregation event.

5.5.4.5.4.1 Triggers

The implicit disaggregation will be detected / triggered when a given UI, belonging to a lower-level hierarchy in the overall aggregation tree, is identified in one of the following messages: IDA (2.3), EPA (3.2), EDP (3.3), ERP (3.4) of type Return, EUD (3.6), EVR (3.7) and EDX (3.8).

Note that transactional events, code pairing events and reactivation events do not trigger any implicit disaggregation.

Example of implicit disaggregation triggered by EDP (3.3):

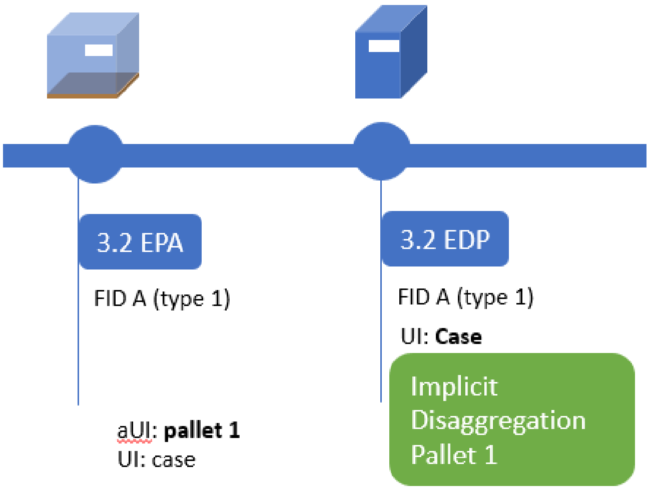


Figure 6 Implicit disaggregation triggered by EDP (3.3)

Example of implicit disaggregation triggered by EVR (3.7):

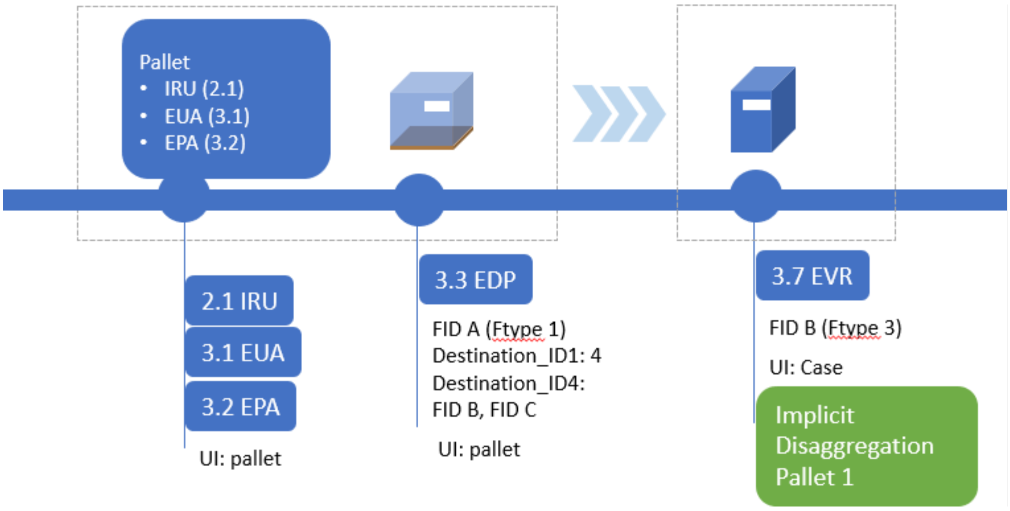


Figure 7 Implicit disaggregation triggered by EVR (3.7)

5.5.4.5.4.2 Disaggregated state

Once the UI is implicitly disaggregated, the UI should be considered disaggregated and should not be part of any subsequent product movement events (3.x). The definition of implicit disaggregation is that the affected parent aUI is considered completely unlinked from all children UIs that it was associated with at the time of the implicit disaggregation trigger. If a reported UI has more than one linked parent at the time of reporting, all parents will be implicitly disaggregated, including grand-parents and recursively upwards linked UIs until the upmost level.

5.5.4.5.4.3 Recall

It is important to note that implicit disaggregation will be rolled back in case the event that triggered it is recalled.

5.5.4.5.4.4 Explicit disaggregation after implicit disaggregation

It is possible to disaggregate an aUI with message EUD (3.6) after it was part of an implicit disaggregation.

5.5.4.5.5 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). This control prevents the reuse of an aUI.	*EPA*
VAL_UI_ORD_DISAGG	Validation that an aUI that has been disaggregated cannot be part of any product movement message.	*EDP - ERP – ETL – EVR – EPA (Children) - EDX*

VAL_UI_ORD_IMPLDISAGG	Validation that an aUI that has been implicitly disaggregated cannot be part of any product movement message.	*EDP – ERP – ETL – EVR- EPA (Children) - EDX*

5.5.4.5.6 Location based Validation

5.5.4.5.6.1 UI Location Update

The sequence validation also considers the implementation of location-based controls.

The FID of the UI is updated upon processing of the following events:

- ERP (3.4)
- EPA (3.2) update of the newly created parent id
- EVR (3.7) the UIs present in the event will have the location metadata updated to the retail outlet.
- RCL (5.0) rolls back to the previous state

5.5.4.5.6.2 Location based controls

Control	**Description**	**Scope**
VAL_UI_ORD_AGG_FID	This Validation is in place to ensure that the aggregation and disaggregation events happen at the same facility (FID) where the products have been either created or arrived. **Exception**: The validation is not applicable for products before being imported into GI.	*EPA - EUD*

5.5.4.5.6.3 Location validation exception for Imports

Due to the fact that product movements outside of GI are not subject to being reported into the GI Gateway (i.e. Dispatch/Arrivals), in the event that an Economic Operator requires to modify the hierarchy of the goods before the import into GI, 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 may be modified in terms of their logistic hierarchy BEFORE the first Arrival 3.4 into GI Territory).

5.5.4.5.7 Dispatch and arrival Validation

Principle 5: Reporting on the arrival event should be associated with the same UI that was previously reported during the Dispatch/Transloading process. This is a consequence of principle 4. This means that an Arrival event that contains child UIs of an UI reported during the Dispatch/Transloading Event will be rejected. The same UI must be reported.

Exception VAL_UI_ORD_ARRIVAL_RETURN: arrival of type return skips the principle 5 but still enforces the sequence validation (there must be a prior Dispatch or Transloading event for the UIs)

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. *Exception:* Imported products	*ERP where* *Product_Return = 0*
VAL_UI_ORD_ARRIVAL_RETURN	Validation that a UI is part of a prior reported dispatch, transloading or delivery via vending van event (EDP 3.3, ETL 3.5, EVR 3.7). This validation concerns the sequence of events. In this validation principle 5 doesn't apply.	*ERP where Product_Return = 1*

5.5.4.5.7.1 Imported goods exception

When the message request 2.1 (request upUIs) is sent to the GI ID Issuer, the messages contain 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 with an EUA (message 3.1) and eventually aggregated with an EPA (message 3.2) in a facility whose country is **outside** GI must be reported in an arrival message with a facility whose country is inside GI (the physical importation of the goods) before being part of any logistic movement inside GI.

b) Unit packs that contain the import flag information and that have been applied with an EUA (message 3.1) and eventually aggregated with an EPA (message 3.2) in a facility whose country is **inside** GI, must not report an arrival message. In this case, it is understood that the physical import (or production) has taken place between the generation of the codes (message 2.1) and the application/aggregation of the UIs with EUA (message 3.1) and EPA (message 3.2) events.

5.5.4.5.7.2 Arrival of type return

The reporting of the arrival of type return can be performed on child UIs. This operation is allowed and will trigger an implicit disaggregation as long as the UIs have a prior Dispatch or Transloading event.

5.5.4.5.7.3 Dispatch validation

Control	Description	Scope
VAL_UI_ORD_DISPATCH	Validation that a UI's last location (FID) matches the source location (FID) of the dispatch event. The UI must have been: - applied or aggregated at that specific location (FID) - arrived at that location.	*EDP - EDX*

5.5.4.6 Message Event Time Validation

The following message validation compares the event time (Event Time) to the actual reception time of the event.

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 Reception Time of the GI Gateway. NOTE: this validation will be reduced to 3 hours after 20 May 2028 **Failing this validation will not trigger a negative acknowledgement but rather generate a warning to the sender system**	*EUA – EPA – EVR – EIV – EPO – EPR*

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 "Reception Time of the GI Gateway – Event Time of the event" time difference. **Failing this validation will not trigger a negative acknowledgement but rather generate a warning to the sender system.**	*EDP – ETL - EDX*

5.5.4.7 Identifier Code validation

Identifier codes (IDs) are used in several messages. Validating the existence and active status of IDs 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 GI registry	*All messages*
VAL_ENT_EXIST_FID	Check if FID, exists in the GI registry	*All messages*
VAL_ENT_ACTIVE_EOID	Check if EOID is marked as active in the repository	*All messages*
VAL_ENT_ACTIVE_FID	Check if FID is marked as active in the repository	*All messages*

5.5.4.8 Recall Validation

5.5.4.8.1 General recall rules

The sequence validation on the product movement introduces additional controls on the recall process. To maintain the consistency of the history of the UI, only the recall of the last event for each UI will be authorised.

If a message to be recalled contains a UI (any in the reported list of the event that refers to) that is also associated with subsequent event(s), the subsequent event(s) must be recalled first.

For the sake of clarity, the following scenarios describe the process of recall:

An EO reports two product movements on an UI (Event 1 and Event 2). If the EO wishes to recall Event 1, the EO has first to recall Event 2 and only afterwards the recall of Event 1 will be possible. Moreover, Event 2 must be the last event that occurred on all UIs contained in Event 2, otherwise Event 2 cannot be recalled.

5.5.4.8.2 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

5.5.4.8.3 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, it is the very last unrecalled event occurred on all such UI including related implicitly disaggregated parents.	*RCL*

5.5.4.9 Code-Pairing Validation

The code pairing flow from the GI Gateway point of view is expected to be:

1) The GI ID Issuer generates GI UIDs (upUIs)
2) The GI Gateway receives the code-pairing message (PAR) with the GI UIDs and the foreign printed codes
3) The GI Gateway receives the application message (EUA) for the foreign printed codes

The following validations are implemented:

Control	Description	Scope
VAL_PRINTED_CODES_ALREADY_USED	Check that the Printed Codes are not already paired with GI issued UIDs.	*PAR*
VAL_PAIRED_CODES_ALREADY_USED	Check that the GI issued UIDs are not already paired with other Printed Codes.	*PAR*

5.5.5 Validation Scope

	IDA (2.3)	IRR (2.4)	EUA (3.1)	PAR (3A.1)	EPA (3.2)	EDP (3.3)	ERP (3.4)	ETL (3.5)	EUD (3.6)	EVR (3.7)	EDX (3.8)	EIV (4.1)	EPO (4.2)	EPR (4.3)	RCL (5)
Technical validation															
VAL_SEC_HASH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAL_SEC_TOKEN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAL_SEC_CLAIM			X	X											
VAL_MSG_JSON	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAL_MSG_TYPE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAL_FIE_MAN	X	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	X
VAL_FIE_REF	X	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	X
VAL_UI_MULT_MSG	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Business rule validation															
UI creation															
VAL_UI_EXIST_APP	X		X	X											
VAL_UI_DUPLICATE_APP			X	X											
VAL_UI_EXIST_UPUI		X			X	X	X	X		X	X	X	X	X	
VAL_UI_EXIST_AUI		X			X	X	X	X	X	X	X	X	X	X	
VAL_UI_EXIST_UPUI_SEQ	X				X	X	X	X		X	X				
VAL_UI_EXIST_AUI_SEQ	X				X	X	X	X	X	X	X				
VAL_UI_EXPIRY			X	X	X										
Entity Validation															
VAL_ENT_EXIST_EOID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAL_ENT_EXIST_FID		X	X		X	X	X	X	X	X	X				
VAL_ENT_ACTIVE_EOID	X	X	X	X	X	X	X	X	X	X	X				
VAL_ENT_ACTIVE_FID		X	X		X	X	X	X	X	X	X				
Pairing Validation															
VAL_PRINTED_CODES_ALREADY_USED				X											
VAL_PAIRED_CODES_ALREADY_USED				X											

Sequence Validation															
VAL_UI_FID_APP			X												
VAL_UI_ORD_REACTIVATION			X												
VAL_UI_ORD_REACTIVATION_NOT_ALLOWED		X													
VAL_UI_ORD_DEACTIVATED	X				X	X	X	X	X	X	X				
VAL_UI_ORD_AGG_MULT					X										
VAL_UI_ORD_DISAGG						X	X	X		X	X				
VAL_UI_ORD_IMPLDISAGG					X	X	X	X		X	X				
VAL_UI_ORD_AGG_FID					X				X						
VAL_UI_ORD_ARRIVAL							X								
VAL_UI_ORD_ARRIVAL_RETURN							X								
VAL_UI_ORD_DISPATCH						X					X				
VAL_UI_ORD_SEQUENCE	X	X	X	X	X	X	X	X	X	X	X				
Message Timing															
VAL_EVT_24H			X	X	X					X		X	X	X	
VAL_EVT_TIME						X		X			X				
Recall															
VAL_RECALL_EXIST															X
VAL_RECALL_LAST															X

5.5.6 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 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	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_UI_MULT_MSG	MULTIPLE_UI UI_NOT_VALID UIS_NOT_VALID	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 UI_NOT_VALID	400
VAL_UI_EXIST_AUI	UI_NOT_EXIST	400
VAL_UI_EXIST_UPUI_SEQ	UI_NOT_VALID	400
VAL_UI_EXIST_AUI_SEQ	UI_NOT_EXIST	400
VAL_UI_EXPIRY	UI_EXPIRED	400
Entity Validation		
VAL_ENT_EXIST_EOID	EOID_NOT_EXIST_OR_ACTIVE	400
VAL_ENT_EXIST_FID	FID_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

Pairing Validation		
VAL_PRINTED_CODES_ALREADY_USED	PRINTED_CODES_ALREADY_USED	400
VAL_PAIRED_CODES_ALREADY_USED	PAIRED_CODES_ALREADY_USED	400
Sequence Validation		
VAL_UI_FID_APP	FID_MISMATCH	400
VAL_UI_ORD_REACTIVATION	UI_DEACTIVATED	400
VAL_UI_ORD_REACTIVATION_NOT_ALLOWED	FAILED_VALIDATION	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
Recall		
VAL_RECALL_EXIST	CODE_NOT_EXIST CODE_NOT_UNIQUE	400
VAL_RECALL_LAST	RECALL_NOT_LAST_EVENT	400

5.6 Unique identifiers Messages

5.6.1 IDA – (2.3) Request for deactivation of UIs

5.6.1.1 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.

5.6.1.1.1 Product deactivation

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

It is only possible to declare IDA with Deat_Reason1 = 2 for upUIs as long as the upUIs have been produced (meaning, they have been associated with a successful 3.1 Activation EUA message prior to the declaration of the IDA message). If this is not the case, a UI_SEQUENCE_ERROR will be returned by the Gateway, since product that has not been produced yet cannot be stolen.

Example of a pallet product deactivation:

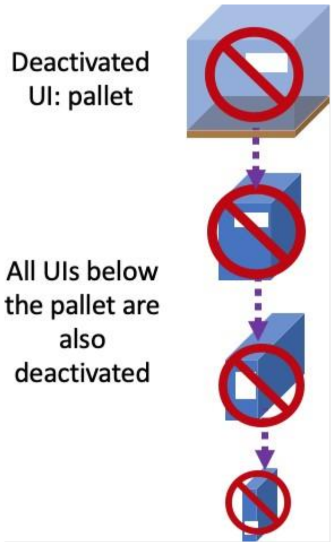


Figure 8 Hierarchy deactivation triggered by an IDA with Deact_Reason1 = 1 or 2

5.6.1.1.2 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 related hierarchy UIs would still exist in the GI repository as active. It is the responsibility of the Economic Operator to report on this event once they become aware of the particular event (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:

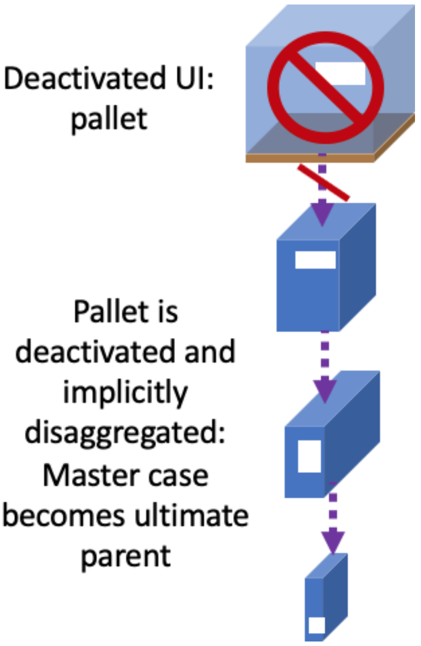

Deactivated UI: pallet
Pallet is deactivated and implicitly disaggregated: Master case becomes ultimate parent

Figure 9 Implicit disaggregation triggered by an IDA Deact_Reason1 = 3,4,5 or 6

5.6.1.2 Deactivation upUI

For non-code pairing scenarios, the deactivation event 2.3 allows the deactivation of the UI based on:

- The upUI(s).
- The upUI(L)
- The upUI(i).

For the code pairing scenario, the deactivation event can be sent on:

- The Printed_Code

For upUIs that are GENERATED by the GI ID Issuer but still not activated or paired, the upUI(s) (Human readable) representation of the UI cannot be used for deactivation, only the upUI(i) may be used. Using the upUI(s) version will result in a "UI_NOT_EXIST" validation as the Gateway registers the upUI(s) and upUI(L) via the activation message.

5.6.1.3 Description of the fields

request for the deactivation of UIs – request					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	M	Message_Type = IDA
Event_Time	Intended time of event occurrence	Time(s)	S	M	
Message_Time_long	Message sending Time	Time(L)	S	M	

EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
Deact_Type	Deactivation of unit packet or aggregated level UIs	Integer	S	M	1 – Unit pack level UIs 2 – Aggregated level UIs
Deact_Reason1	Identification of the reason for deactivation	Integer	S	M	See DeactivationReasonType
Deact_Reason2	Description of other reason	Text(5000)	S	M, if Deact_Reason1=6 (other reason)	
Deact_Reason3	Additional description of the reason	Text (Limited to the set of known deactivation_types)	S	O	
Deact_upUI	List of unit packet level UIs to be deactivated	upUI(s)	M	M, if Deact_Type = 1	
Deact_aUI	List of aggregated level UIs to be deactivated	aUI	M	M, if Deact_Type = 2	

5.6.1.3.1 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	M	Message_Type = IDA

5.6.1.4 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
Sequence Validation	
VAL_UI_ORD_DEACTIVATED	Deact_upUI, Deact_aUI

5.6.1.5 *Implicit disaggregation trigger*

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

5.6.1.6 *JSON Request sample*

```
{
  "EO_ID": "QCGIT1AB02005",
  "Event_Time" : "26032014",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "Deact_Type": 1,
  "Deact_Reason1": 1,
  "Deact_Reason2": "reason one",
  "Deact_Reason3": "reason two",
  "Deact_upUI": [ "DANXXXXXXXXXXXX1PR0123456789" ],
  "Deact_apUI": [],
  "Message_Type": "IDA"
}
```

5.6.1.7 *JSON Successful response sample*

```
HTTP Status 202
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "IDA",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

5.6.1.8 *Error response sample*

Processing errors

HTTP status	**Error Code**	**Error Description**
<< Common 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
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_EOID
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_EOID
400	UI_DEACTIVATED	VAL_UI_ORD_DEACTIVATED
400	UI_SEQUENCE_ERROR	VAL_UI_ORD_SEQUENCE

5.6.2 IRR – (2.4) Request for reactivation of UIs for products reported as stolen but recovered

5.6.2.1 Description

Cancels a previous deactivation of UIs due to "Product Stolen".

The hierarchy below these UIs will be reactivated as well, since "Product Stolen" is a recursive deactivation.

This message is only permitted if, in a preceding message type 2.3 (IDA), the field Deact_Reason1 = 2 and such message was positively acknowledged.

The reactivation can be done at upUI or aUI level. The UIs will be considered as "received" in the IRR's location (the FID declared in the IRR message). In this regard, the IRR message behaves like an "Arrival return – ERP return".

Note that there is no location validation on the reactivation event, therefore the UIs can be reactivated at any location.

5.6.2.2 Description of the fields

request for the reactivation of UIs – request					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	M	Message_Type = IRR
Event_Time	Intended time of event occurrence	Time(s)	S	M	
Message_Time_long	Message sending Time	Time(L)	S	M	
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
F_ID	Facility Identifier code (facility of recovery)	FID	S	M	
React_Type	Reactivation of unit packet or aggregated level UIs	Integer	S	M	1 – Unit pack level UIs 2 – Aggregated level UIs

React_Reason	Description of the context of reactivation	Text(5000)	S	O	
React_upUI	List of unit packet level UIs to be reactivated	upUI(L) or upUI(i) or upUI(s) or Printed_Code	M	M, if Deact_Type = 1	
React_aUI	List of aggregated level UIs to be deactivated	aUI	M	M, if Deact_Type = 2	

5.6.2.3 *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	M	Message_Type = IRR

5.6.2.4 *Business Validation*

	IRR (2.4)
Business rule validation	
UI creation	
VAL_UI_EXIST_APP	React_upUI
VAL_UI_EXIST_UPUI_SEQ	React_upUI
VAL_UI_EXIST_AUI_SEQ	React_aUI
Entity Validation	
VAL_ENT_EXIST_EOID	EO_ID
VAL_ENT_ACTIVE_EOID	EO_ID
VAL_ENT_EXIST_FID	F_ID
VAL_ENT_ACTIVE_FID	F_ID
Sequence Validation	
VAL_UI_ORD_REACTIVATION_NOT_ALLOWED	React_upUI, React_aUI

5.6.2.5 *Implicit disaggregation trigger*

The reactivation event may trigger an implicit disaggregation in the case that the solen goods were reported higher up in the hierarchy and the recovered goods are reported lower in such hierarchy.

5.6.2.6 *JSON Request sample*

```
{
  "EO_ID": "QCGIT1AB02005",
  "Event_Time" : "26032014",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "React_Type": 1,
  "React_Reason": "recovered",
  "React_upUI": [ "DANXXXXXXXXXXXX1PR0123456789" ],
  "React_apUI": [],
  "Message_Type": "IRR"
}
```

5.6.2.7 *JSON Successful response sample*

```
HTTP Status 202
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "IRR",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

5.6.2.8 *Error response sample*

Processing errors

HTTP status	**Error Code**	**Error Description**
<< Common 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
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_EOID
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_EOID
400	FID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_FID
400	FID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_FID
400	FAILED_VALIDATION	VAL_UI_ORD_REACTIVATION_NOT_ALLOWERD
400	UI_SEQUENCE_ERROR	VAL_UI_ORD_SEQUENCE

5.6.3 PAR - (3.A1) Issuing of code pairing message

5.6.3.1 Description

Where a manufacturer or importer intends to leverage a foreign code to be printed onto a unit packet, the following event schedule must be observed:

After the manufacturer or importer received from the GI ID Issuer the GI UIs, and prior to the submission of the application message (3.1 – EUA), the following code-pairing message must be transmitted to the GI System (that is, to the GI Gateway who validates and forwards to the GI repository).

This message will trigger the creation of the link between the GI code and the foreign code (printed code) in the GI Data Repository. Due to this "virtual" link, subsequent traceability messages must be reported based on the printed code.

5.6.3.2 Description of fields

request for the code pairing of UIs – request					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	M	Message_Type = PAR
Event_Time	Intended time of event occurrence	Time(s)	S	M	
Message_Time_long	Message sending Time	Time(L)	S	M	
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
upUI	List of Paired codes		S	M	
upID	Code pairing detail		M	M	
Printed_Code	Unit packet level UI marked on packs	upUI(L) of foreign ID Issuer	S	M	
Paired_Code	Paired UI	upUI(i)	S	M	

The GI System will link the upUI Printed_Code with the upUI Paired_Code applying a 1:1 relationship and then store this information in the GI Repository.

The upUI Printed_Codes must have not been paired beforehand. The GI UI Codes must exist, not be expired, and not have been paired or activated beforehand.

5.6.3.2.1 Response

response for the code pairing of UIs – response					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	M	Message_Type = PAR

5.6.3.3 Business validation

	IDA (2.3)
Business rule validation	
UI creation	
VAL_UI_EXIST_APP	upUI Paired_Code
VAL_UI_DUPLICATE_APP	upUI Paired_Code, upUI Printed_Code
VAL_UI_EXPIRY	upUI Paired_Code
Entity Validation	
VAL_ENT_EXIST_EOID	EO_ID
VAL_ENT_ACTIVE_EOID	EO_ID
Pairing Validation	
VAL_PRINTED_CODES_ALREADY_USED	upUI Printed_Code
VAL_PAIRED_CODES_ALREADY_USED	upUI Paired_Code
Sequence Validation	
VAL_UI_ORD_SEQUENCE	upUI Paired_Code, upUI Printed_Code

The GI Gateway will apply a sequence validation in which the paired UIs (i.e., printed code + GI code) must be reported first in a message of type 3.A1 (PAR) and then in a 3.1 message (EUA). This is to enforce the applicable regulatory rules requiring that the codes are paired before the application of the foreign code is reported to the system.

When the EUA message is reported on the Printed code after the pairing, the UI will be able to be queried by:

- The upUI(s) version of the GI Code
- The upuI(L) version of the Printed Code
- The Human Readable Version (upUI(s)) of the Printed Code (as reported in the EUA message)

Note that after a pairing has been confirmed the GI code can only be activated by submitting an activation message using the printed code.

5.6.3.4 JSON Request Sample

```
{
  "Message_Type": "PAR",
  "EO_ID": "QCGIT1AB02005",
  "Event_Time": "26032014",
  "Message_Time_Long": "2026-03-20T14:16:45Z",
  "upUI": {
    "upID": [
      {
        "Printed_Code": "PRINTEDXXXXXXXXXXXX1PR012345678919030110",
        "Paired_Code": "QCGITXXXXXXXXXXX10FA000001"
      },
      {
        "Printed_Code": "PRINTEDXXXXXXXXXXXX1PR012345678919030110",
        "Paired_Code": "QCGITXXXXXXXXXXX10FA000001"
      }
    ]
  }
}
```

5.6.3.5 JSON Successful response Sample

```
HTTP Status 202
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "PAR",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

5.6.3.6 Error response sample

Processing errors

HTTP status	Error Code	Error Description
<< Common 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
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_EXIST_EOID
400	EOID_NOT_EXIST_OR_ACTIVE	VAL_ENT_ACTIVE_EOID
400	UI_EXPIRED	VAL_UI_EXPIRY
400	PRINTED_CODES_ALREADY_USED	VAL_PRINTED_CODES_ALREADY_USED
400	PAIRED_CODES_ALREADY_USED	VAL_PAIRED_CODES_ALREADY_USED
400	UI_SEQUENCE_ERROR	VAL_UI_ORD_SEQUENCE

5.8 Reporting operational events (product movement information)

5.8.1 EUA – (3.1) Application of unit level UIs on unit packets

5.8.1.1 Description

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

5.8.1.2 Description of the fields

upUI application event					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	M	Message_Type = EUA
Event_Time	Intended time of event occurrence	Time(s)	S	M	
Message_Time_long	Message sending Time	Time(L)	S	M	
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
F_ID	Facility identifier code	FID	S	M	
upUI_1	List of unit packet level UIs to be recorded (full length)	upUI(L)	M	M	
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)	M	M	
upUI_comment	Comments by the reporting entity	Text(5000)	S	O	

5.8.1.2.1 Response

response for the code pairing of UIs – response					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	M	Message_Type = EUA

5.8.1.3 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

5.8.1.4 Sequence validation

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

	upUI(i) Codes Generated	PAR (3.A1)
Message Received		
EUA 3.1	Yes	Yes
EUA 3.1 Import	Yes	Yes

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

The EUA (3.1) application event must be preceded by the generation of the codes and/or a Code Pairing message.

5.8.1.5 JSON Request sample

```
{
  "EO_ID": "QCGIT1AB02005",
  "F_ID": "QCGIT1FB02005",
  "Event_Time": "26032014",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "upUI_1": [
    "DANXXXXXXXXXXXX1PR012345678926030110",
    "DANXXXXXXXXXXXX2PR012345678926030110"
  ],
  "upUI_2": [
    "DANXXXXXXXXXXXX1PR0123456789",
    "DANXXXXXXXXXXXX2PR0123456789"
  ],
  "upUI_comment": "Comments",
  "Message_Type": "EUA"
}
```

5.8.1.6 JSON Successful response sample

```
HTTP Status 202

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

5.8.1.7 Error response sample

HTTP status	Error Code	Error Description
<< Common response code >>		
400	MULTIPLE_UI	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

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

5.8.2.1 Description

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

5.8.2.2 Description of the fields

Application of aggregated level UIs on aggregated packaging - request					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	M	Message_Type = EPA
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
F_ID	Facility identifier code	FID	S	M	
Event_Time	Time of event occurrence	Time(s)	S	M	
Message_Time_long	Message sending Time	Time(L)	S	M	
aUI	Aggregated level UI	aUI	S	M	
Aggregation_Type	Identification of aggregation type	Integer	S	M	1 – aggregation of only unit packet level UIs 2 – aggregation of only aggregated level UIs 3 – aggregation of both unit packet and aggregated level UIs
Aggregated_UIs1	List of unit packet level UIs subject to aggregation	upUI(L)	M	M, if Aggregation_Type = 1 or 3	
Aggregated_UIs2	List of aggregated level UIs subject to further aggregation	aUI	M	M, if Aggregation_Type = 2 or 3	
aUI_comment	Comments by the reporting entity	Text(5000)	S	O	

5.8.2.2.1 Response

Application of aggregated level UIs on aggregated packaging – response					
Field	**Description**	**Data Type**	**Cardinality**	**Priorit y**	**Values**
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	M	Message_Type = EPA
Basic Information Block	Additional optional acknowledgment Information	Component << Basic	S	O	
		Information Block >>			

5.8.2.3 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

5.8.2.4 Sequence Validation

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

Message Received	IRA or self-generated aUI	IRR 2.4	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)	EUD 3.6
EPA 3.2 parent UI	Yes	No	No	No	No	No	No	No	No	Yes
EPA 3.2 child UI (upUI)	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No
EPA 3.2 child UI (aUI)	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No

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

A parent aUI can be

- A 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 an aUI that is being re-used. This aUI must be preceded by an 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.

- An upUI can be applied, following a EUA (3.1) event.
- An 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.
- An 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.
- An upUI or aUI that are arrived via transmission of an ERP (3.4) event.

Location validation on the child UI is performed for the aggregation as the UI should be in the location where the aggregation took place.

5.8.2.5 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:

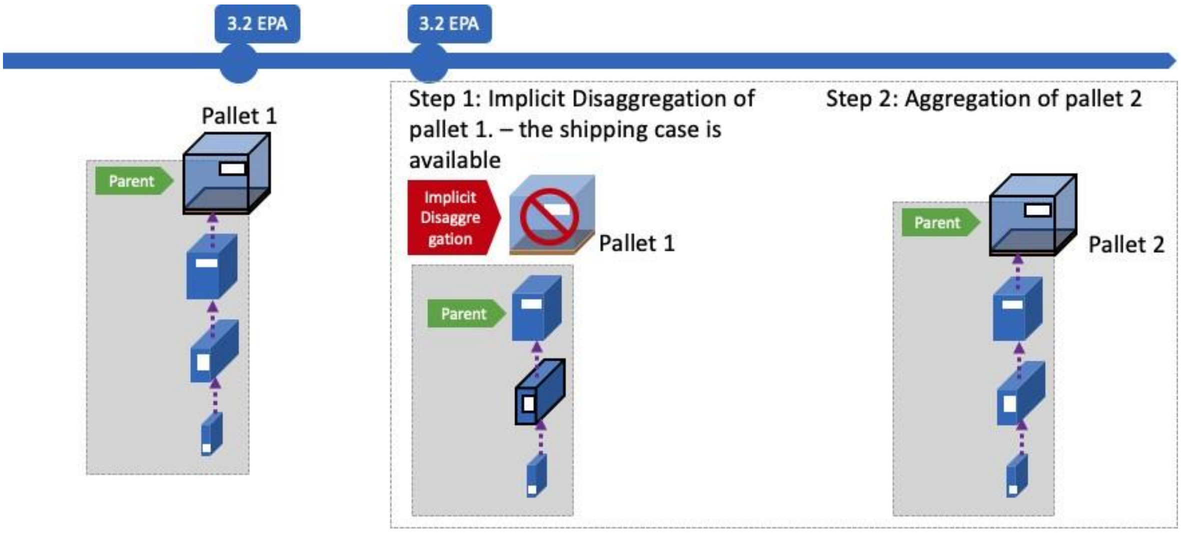

3.2 EPA
3.2 EPA
Pallet 1
Parent
Step 1: Implicit Disaggregation of pallet 1. – the shipping case is available
Implicit Disaggre gation
Pallet 1
Parent
Step 2: Aggregation of pallet 2
Parent
Pallet 2

Figure 10 Implicit disaggregation triggered by an EPA (3.2) event

In this scenario, the second aggregation event (EPA 3.2) results in the creation of the new pallet with the same content as pallet 1, which has become implicitly disaggregated.

5.8.2.6 JSON Request sample

```
{
  "EO_ID": "QCGIT1AB02005",
  "F_ID": "QCGIT1AB02005",
  "Event_Time": "26032014",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "Aggregation_Type": "1",

  "aUI": "QCGITA12345678",

  "Aggregated_UIs1": ["DANXXXXXXXXXXXX1PR012345678919030110",
"DANXXXXXXXXXXXX2PR012345678919030110", "DANXXXXXXXXXXXX3PR012345678919030110",

"DANXXXXXXXXXXX10FA00000119030110"],

  "Aggregated_UIs2": ["QCGITA22345678"],

  "aUI_comment": "Comments",

  "Message_Type": "EPA”

}
```

5.8.2.7 JSON Successful response sample

```
HTTP Status 202

{

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

    "Message_Type": "EPA",

    "Error": false,

    "Errors": null,

    "Checksum": "G6HF5H"

}
```

5.8.2.8 Error response sample

HTTP status	Error Code	Error Description
<< Common 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
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

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

5.8.3.1 Description

Records the dispatching of tobacco products (UIs mentioned in the message) by an Economic Operator from one location to another.

5.8.3.2 Description of the fields

Dispatch of tobacco products from a facility event					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	M	Message_Type = EDP
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
Event_Time	Time of event occurrence	Time (s)	S	M	
Message_Time_long	Message sending Time	Time (L)	S	M	
F_ID	Dispatch facility identifier code	FID	S	M	
Destination_ID1	Indication if the destination facility is located on GI territory and if it is a vending machine (VM)	Integer	S	M	1 – Non GI destination. 2 – GI destination other than VM – fixed quantity delivery 3 – GI VM(s) 4 – GI destination other than VM – delivery with VV
Destination_ID2	Destination facility identifier code	FID	S	M, if Destination_ID1 = 2	

Destination_ID3	Destination facility identifier code(s) – possible multiple vending machines	FID	M (limited to 1000 FID)	M, if Destination_ID1 = 3	
Destination_ID4	Destination id facility codes	FID	M (limited to 1000 FID)	M, if Destination_ID1 = 4	
Destination_ID5	Destination facility's full address	Text(5000)	S	M, if Destination_ID 1 = 1	
Destination_ID5_Address_Name	Destination facility's full address - Name part of the Address	Text(5000)	S	O	
Destination_ID5_Address_StreetOne	Destination facility's full address - Street part of the Address	Text(5000)	S	M, if Destination_ID 1 = 1	
Destination_ID5_Address_StreetTwo	Destination facility's full address - Second Element of the Street part of the Address	Text(5000)	S	O	
Destination_ID5_Address_City	Destination facility's full address - City	Text(5000)	S	M, if Destination_ID 1 = 1	
Destination_ID5_Address_PostCode	Destination facility's full address - PostalCode information	Text(5000)	S	O	
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	M	See TransportMode
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	M	‘n/a’ is permitted value if Transport_mode = 0 and product movement takes place between adjacent facilities and is delivered manually
Transport_cont1	Indication if the transport is containerised and uses an individual transport unit code (e.g. SSCC)	Boolean	S	M	0 – No 1 – Yes

Transport_cont2	Individual transport unit code of the container	ITU	S	M, if Transport_cont1 = 1	
Transport_s1	Indication if the dispatch takes place with the logistic/postal operator who operates its own track and trace system. Only for small quantities of tobacco products (net weight of the products dispatched below 10 kg) destined for exports to other countries	Boolean	S	M	0 – No 1 – Yes
Transport_s2	The logistic operator's tracking number	Text(5000)	S	M, if Transport_s1 = 1	
EMCS	Dispatch under the Excise Movement and Control System (EMCS)	Boolean	S	M	0 – No 1 – Yes
EMCS_ARC	Administrative Reference Code (ARC)	ARC	S	M, if EMCS = 1	
SAAD	Dispatch with a simplified accompanying document, see: Commission Regulation (EEC) No 3649/92	Boolean	S	M	0 – No 1 – Yes
SAAD_number	Reference number of the declaration and/or authorisation which has to be given by the competent authority in the country of destination before the movement starts	T Text(5000)	S	M, if SAAD = 1	
Exp_Declaration	Indication if the Movement Reference Number (MRN) has been issued by the customs office	Boolean	S	M	0 – No 1 – Yes
Exp_ DeclarationNumber	Movement Reference Number (MRN)	MRN	S	M, if Exp_Declaration = 1	

UI_Type	Identification of UI types in the dispatch (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 subject to the dispatch	upUI(L)	M	M, if UI_Type = 1 or 3	
aUIs	List of aggregated level UIs subject to the dispatch	aUI	M	M, if UI_Type = 2 or 3	
Dispatch_comment	Comments by the reporting entity	Text(5000)	S	O	

5.8.3.2.1 Response

Response:

Dispatch event – response					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	M	Message_Type = EDP

5.8.3.3 Business validation

	EDP (3.3)
Technical validation	
VAL_MSG_JSON	EXCISE_NUMBER_NOT_VALID
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, Destination_ID2, Destination_ID3, Destination_ID4
VAL_ENT_ACTIVE_EOID	EO_ID
VAL_ENT_ACTIVE_FID	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

5.8.3.4 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” for event 3.3 EDP refers to the Destination_ID1 field where:

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

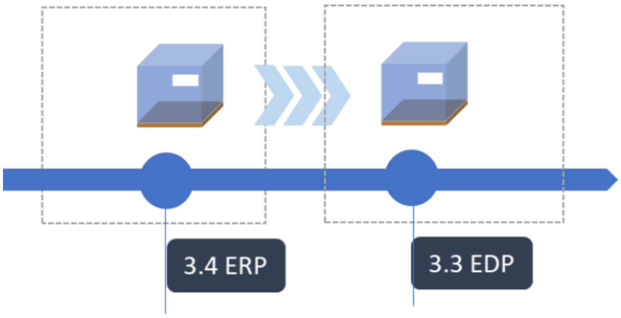
Message Received	IRR 2.4	EUA 3.1	EUA 3.1 Import	EPA 3.2 parent UI	EPA 3.2 parent UI Import	EPA 3.2 Child	ERP 3.4	ERP 3.4 (Return)
EDP 3.3 Export (type 1)	Yes	Yes	No	Yes	No	Yes	Yes	Yes
EDP 3.3 (type 2)	Yes	Yes	No	Yes	No	Yes	Yes	Yes
EDP 3.3 VM (type 3)	Yes	Yes	No	Yes	No	Yes	Yes	Yes
EDP 3.3 VV (type 4)	Yes	Yes	No	Yes	No	Yes	Yes	Yes

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

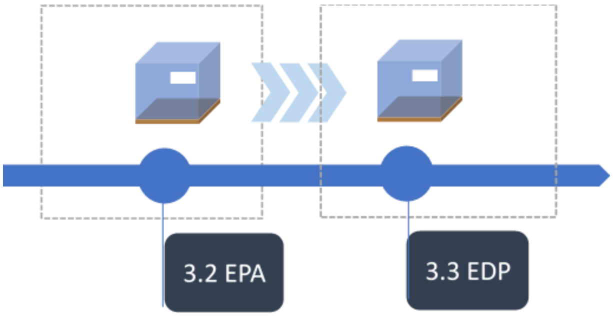
Products can be dispatched from a location only if they were applied (EUA 3.1) or aggregated (EPA 3.2) at that specific location, or if they were previously reported as having been arrived at that location. This means that Dispatch events should follow an Arrival, an Aggregation or an Application message,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

5.8.3.4.1 Expected sequences

- ERP (Arrival) – 3.4 message > EDP (Dispatch) – 3.3 message



- EPA (Aggregation) – 3.2 message > EDP (Dispatch) – 3.3 message



5.8.3.4.2 Example of sequence errors for EDP (3.3):

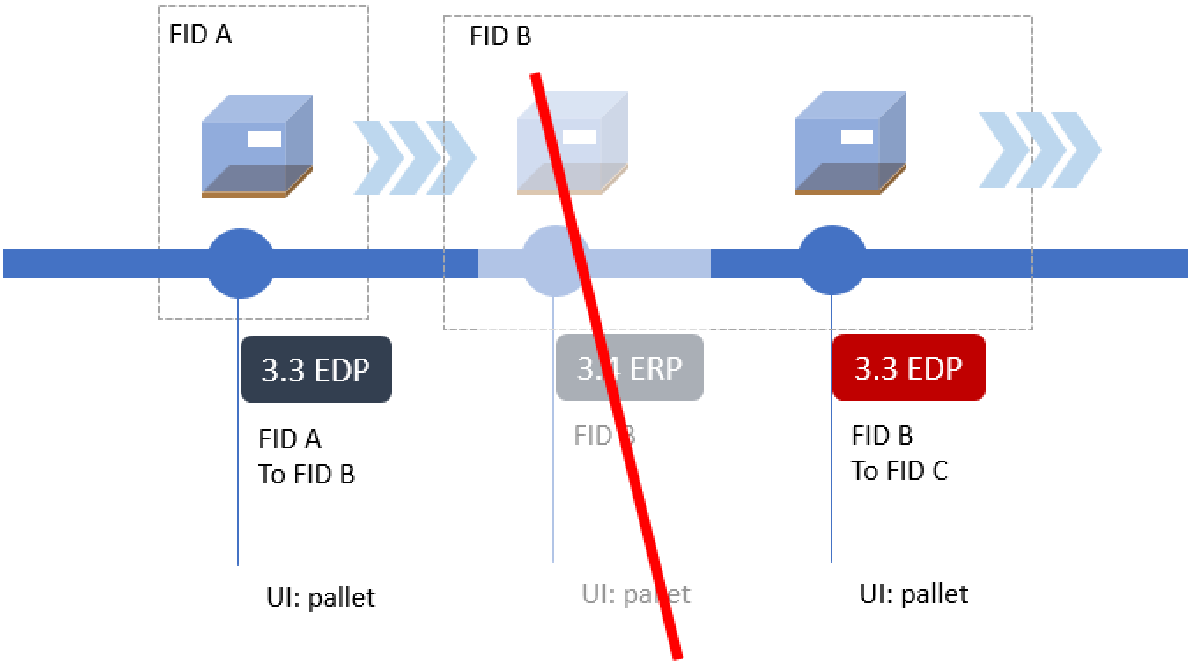
- UI_SEQUENCE_ERROR:

The error is generated when UIs scanned at Dispatch are not part of a prior Arrival, Aggregation or Application message.

The UIs are considered as "in transit" and cannot be dispatched again.

The prior Arrival of the UIs at the location might not have been reported or the UIs might have already been dispatched from the location.

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

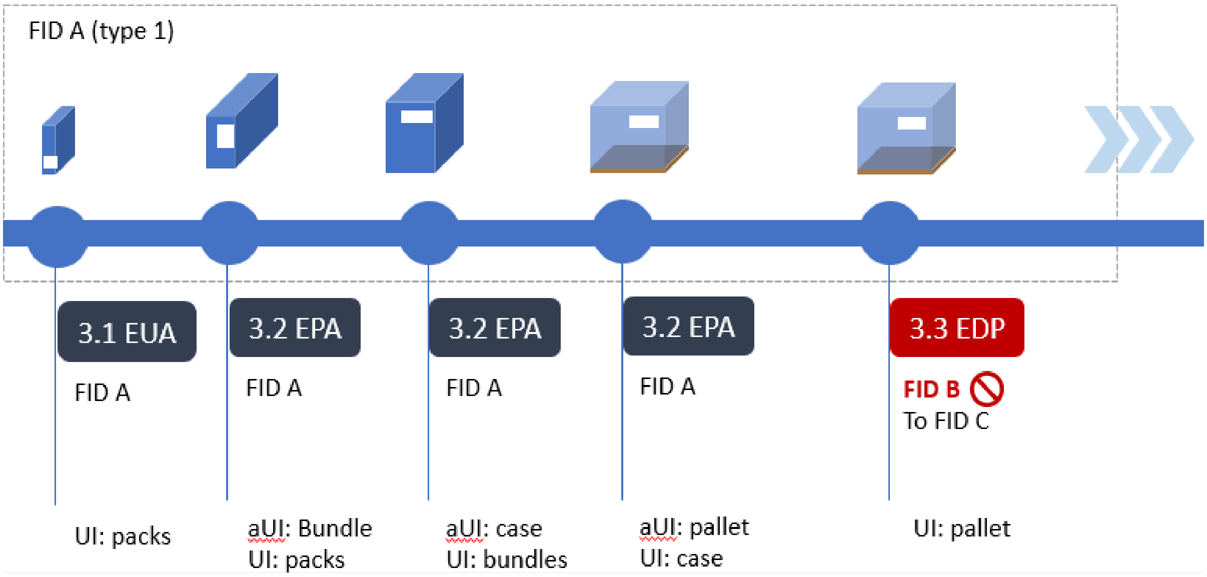


- LOCATION_MISMATCH

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 Dispatch/Arrival message sequence 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:



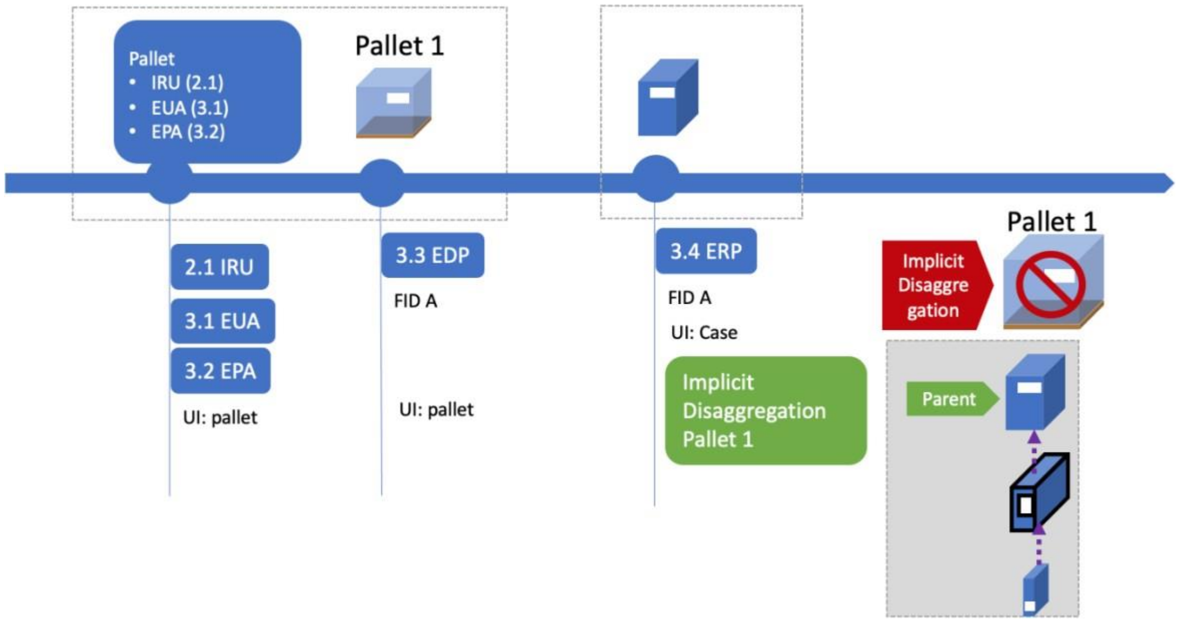
5.8.3.4.3 Import scenario

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

5.8.3.5 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:



5.8.3.6 JSON Request sample

```
{
  "EO_ID": "QCGITAB020054",
  "F_ID": "QCGIT1AB02005",
  "Event_Time": "26032014",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "Destination_ID1": "1",
  "Destination_ID2": "FacilityIdB",
  "Destination_ID3": [ " FacilityIdB ", " FacilityIdB " ],
  "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": [ "DANXXXXXXXXXXXX1PR012345678919030110",
"DANXXXXXXXXXXXX2PR012345678919030110" ],
  "aUIs": [ "DANXXXXXXXXXXXX1FA00000119030110" ],
  "Dispatch_comment": "Comments",
  "Message_Type": "EDP"
}
```

5.8.3.7 *JSON Successful response sample*

```
HTTP Status 202
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "EDP",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

5.8.3.8 *Error response sample*

Processing errors

HTTP status		
<< Common response code >>		
400	EXCISE_NUMBER_NOT_VALID	VAL_FIE_FORMAT
400	MULTIPLE_UI	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
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
299	SHIPMENT_WITHIN_24_HOURS	VAL_EVT_TIME
400	UI_SEQUENCE_ERROR	VAL_UI_ORD_SEQUENCE

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

5.8.4.1 Description

Record that the UIs listed in the message have been received by an economic operator.

5.8.4.2 Description of the fields

Arrival of tobacco products at a facility					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	M	Message_Type = ERP
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
F_ID	Arrival facility identifier code	FID	S	M	
Event_Time	Time of event occurrence	Times(s)	S	M	
Message_Time_long	Message sending Time	Times(L)	S	M	
Product_Return	Indication if the arriving products are a return following complete or partial non-delivery	Boolean	S	M	0 – No 1 – Yes

UI_Type	Identification of UI types received (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 received	upUI(L)	M	M, if UI_Type = 1 or 3	
aUIs	List of aggregated level UIs received	aUI	M	M, if UI_Type = 2 or 3	
Arrival_comment	Comments by the reporting entity	Text	S	O	

5.8.4.2.1 Response

Arrival of tobacco products at a facility– response					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	M	Message_Type = ERP

5.8.4.3 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
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

5.8.4.4 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	EDX (3.8)	ETL 3.5	ETL 3.5 Export	EVR 3.7
ERP 3.4	Yes	Yes	No	Yes	No	No	No	Yes	No	No
ERP 3.4 (Return)	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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

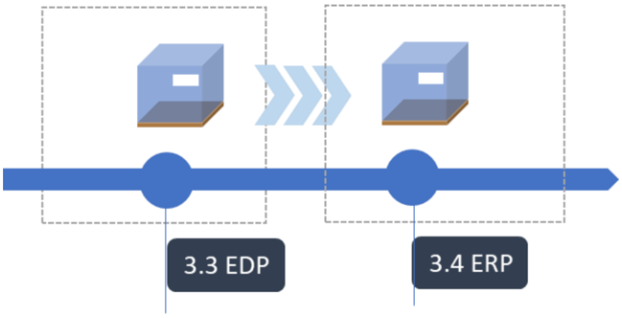
<u>Events must be transmitted in sequence:</u> Arrivals are expected to be reported in proper event sequences, following a dispatch, a transloading, as a (partial) return from Vending Van delivery or from retail outlets.

5.8.4.4.1 Import scenario

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

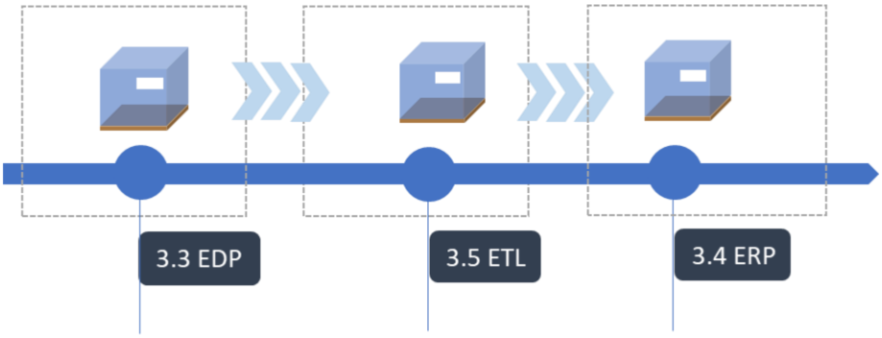
5.8.4.4.2 Arrival after Dispatch

- EDP – 3.3 (type 2) message > ERP – 3.4 message



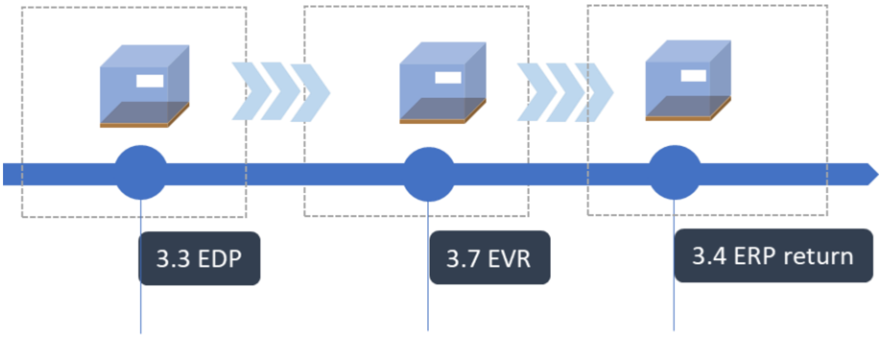
5.8.4.4.3 Arrival after Transloading

- ETL – 3.5 message > ERP – 3.4 message



5.8.4.4.4 Arrival after dispatch carried out by vending van

- EVR – 3.7 messages > ERP of type return – 3.4 message



<u>Events must be reported respecting Principle 4:</u> All Disaggregations must be performed at a location. Disaggregation during transport is not permitted.

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

5.8.4.4.5 Arrival of type return

If, during transit, tobacco products cannot reach a destination, Economic Operators should transmit an Arrival event of type return at either the Facility of origin or a different facility. This applies to any tobacco products that are in transit regardless of their destination type (export/domestic delivery).

5.8.4.4.6 Examples of sequence 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 his Dispatch/Transloading message.

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:

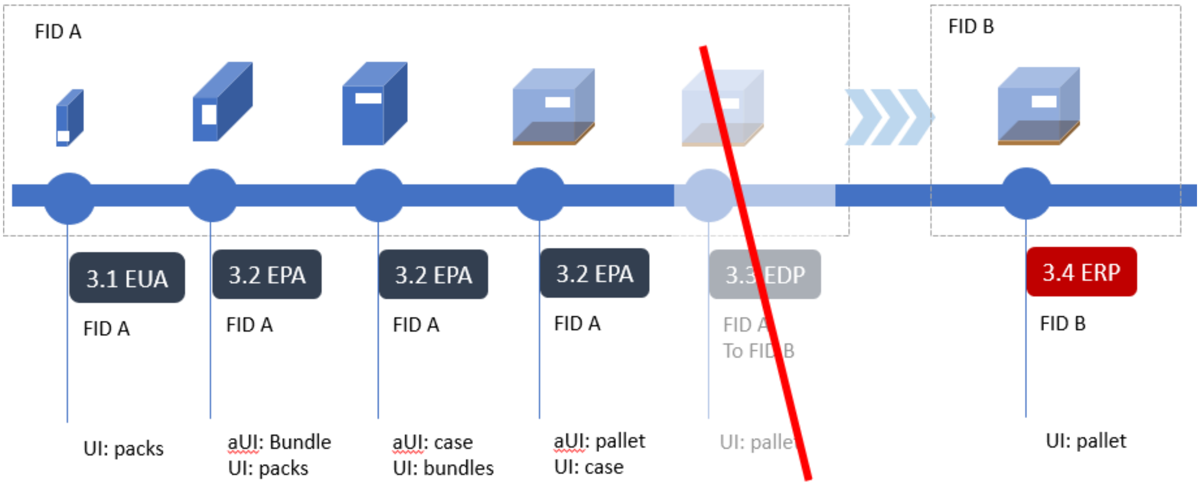


Figure 11 Arrival sequence error ARRIVAL_NOTALLOWED

- **UI_SEQUENCE_ERROR**

The error is generated when UIs scanned at Arrival are not identical to those 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 he reported the Dispatch/Transloading event.

Exception: Arrivals of type return will not generate this error because implicit disaggregation is in that case permitted.

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

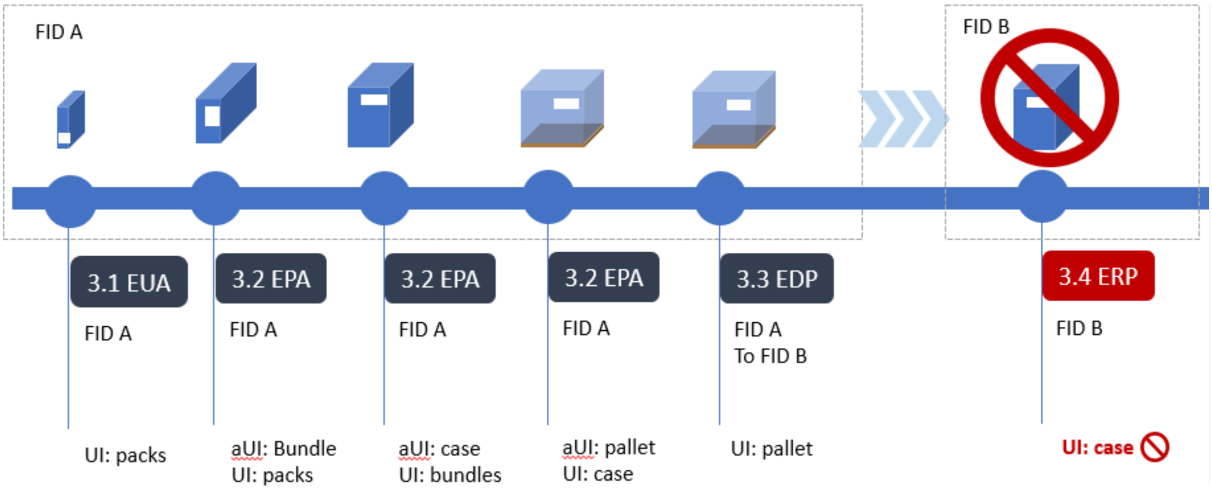


Figure 12 Arrival sequence error UI_SEQUENCE_ERROR

5.8.4.5 Implicit Disaggregation Trigger

The Arrival of type Return (Product_Return = “true”) ERP (3.4) can trigger an implicit disaggregation (or several) 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.

5.8.4.6 JSON Request sample

```
{
  "EO_ID": "QCGIT1AB02005",
  "F_ID": "QCGIT1FB02005",
  "Event_Time": "26032014",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "Product_Return": "true",
  "UI_Type": 1,
  "upUIs": [ "DANXXXXXXXXXXXX1PR012345678919030110", "
  DANXXXXXXXXXXXX2PR012345678919030110" ],
  "aUIs": [ "DANXXXXXXXXXXXX1PR012345678919030110" ],
  "Arrival_comment": "Comments",
  "Message_Type": "ERP"
}
```

5.8.4.7 JSON Successful response sample

```
HTTP Status 202
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "ERP",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

5.8.4.8 Error response sample

HTTP status	Error Code	Error Description
<< Common response code >>		
400	MULTIPLE_UI	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

5.8.5 ETL – (3.5) Trans-loading

5.8.5.1 Description

Event reporting on the transfer of tobacco products (UIs) from one vehicle to another during which tobacco products do not enter and exit a facility.

5.8.5.2 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	M	Message_Type = ETL
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
Event_Time	Intended time of event occurrence	Time(s)	S	M	
Message_Time_long	Message sending Time	Time(L)	S	M	
Destination_ID1	Indication if the destination facility is located in GI	Integer	S	M	0 – No 1 – Yes
Destination_ID2	Destination facility identifier code	FID	S	M, if Destination_ID1 = 1	
Destination_ID3	Destination facility's full address	Text(5000)	S	M, if Destination_ID1 = 0	
Destination_ID3_Address_Name	Destination facility's full address - Name part of the Address	Text(5000)	S	O	
Destination_ID3_Address_StreetOne	Destination facility's full address - Street part of the Address	Text(5000)	S	M, if Destination_ID1 = 0	
Destination_ID3_Address_StreetTwo	Destination facility's full address - Second Element of the Street part of the Address	Text(5000)	S	O	
Destination_ID3_Address_City	Destination facility's full address - City	Text(5000)	S	M, if Destination_ID1 = 0	
Destination_ID3_Address_PostCode	Destination facility's full address - PostalCode information	Text(5000)	S	O	
Transport_mode	Mode of transport to which the product is trans-loaded, see: Commission Regulation (EC) No 684/2009, Annex II,	Integer	S	M	See TransportMode

	Code List 7				
Transport_vehicle	Identification of the vehicle (i.e. number plates, train number, plane/flight number, ship name or other identification)	Text(5000)	S	M	
Transport_cont1	Indication if the transport is containerised and uses an individual transport unit code (e.g. SSCC)	Boolean	S	M	0 – No 1 – Yes
Transport_cont2	Individual transport unit code of the container	ITU	S	M, if Transport_cont1 = 1	
EMCS	Dispatch under the Excise Movement and Control System (EMCS)	Boolean	S	M	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	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 trans-loading	upUI(L)	M	M, if UI_Type = 1 or 3	
aUIs	List of aggregated level UIs subject to the trans-loading	aUI	M	M, if UI_Type = 2 or 3	
Transloading_comment	Comments by the reporting entity	Text(5000)	S	O	

5.8.5.2.1 Response

Trans-loading event – response					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	M	Message_Type = ETL

5.8.5.3 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

5.8.5.4 Sequence validation

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	EDX 3.8	ETL 3.5	ETL 3.5 Export
ETL 3.5	No	Yes	No	No	No	Yes	No
ETL 3.5 (Export)	Yes	No	No	No	No	No	Yes

No	Next message not allowed for the UI (including different aggregation level)
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.

5.8.5.5 JSON Request sample

```
{
  "EO_ID": "QCGIT1AB02005",
  "Event_Time": "26032014",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "Destination_ID1": 1,
  "Destination_ID2": "FGHZ7G",
  "Destination_ID3": "",
  "Transport_mode": 1,
  "Transport_vehicle": 1,
  "Transport_cont1": 1,
  "Transport_cont2": "code",
  "EMCS": 1,
  "EMCS_ARC": "ref",
  "UI_Type": 1,
  "upUIs": [ "DANXXXXXXXXXXXX1PR0123456789l9030110", "
  DANXXXXXXXXXXXX2PR0123456789l9030110" ],
  "aUIs": [ "DANXXXXXXXXXXX10FA00000119030110" ],
  "Transloading_comment": "Comments",
  "Message_Type": "ETL”
}
```

5.8.5.6 JSON Successful response sample

```
HTTP Status 202
{
   "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "ETL",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

5.8.5.7 Error response sample

HTTP status		
<< Common response code >>		
400	MULTIPLE_UI	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
299	SHIPMENT_WITHIN_24_HOURS	VAL_EVT_TIME

5.8.6 EUD – (3.6) Disaggregation of aggregated level UIs

5.8.6.1 Description

Event reporting that an aggregation no longer exists.

5.8.6.2 Description of the fields

aUI disaggregation event					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	M	Message_Type = EUD
EO_ID	Economic operator's identifier	EOID	S	M	

F_ID	Facility's identifier	FID	S	M	
Event_Time	Time of event occurrence	Time(s)	S	M	
Message_Time_long	Message sending Time	Time(L)	S	M	
aUI	Aggregated level UI subject to disaggregation	aUI	S	M	
disaUI_comment	Comments by the reporting entity	Text(5000)	S	O	

6.8.6.2.1 Response

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

5.8.6.3 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)

5.8.6.4 Sequence validation

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

Message Received	IRR 2.4	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	aUI implicitly disaggregated
EUD 3.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes

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

5.8.6.4.1 Clarification 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 disaggregated must be in the same facility.

There is an exception for aUIs that were already disaggregated implicitly.

5.8.6.4.2 Clarification on the impact of Implicit disaggregation

It is possible to report a disaggregation event (EUD 3.6) for an aUI that was previously implicitly disaggregated (i.e., the reporting of an event that allows the triggering of the implicit disaggregation mechanism) and does not correspond to any physical movement. Therefore, the location validation control VAL_UI_ORD_AGG_FID will not be applied.

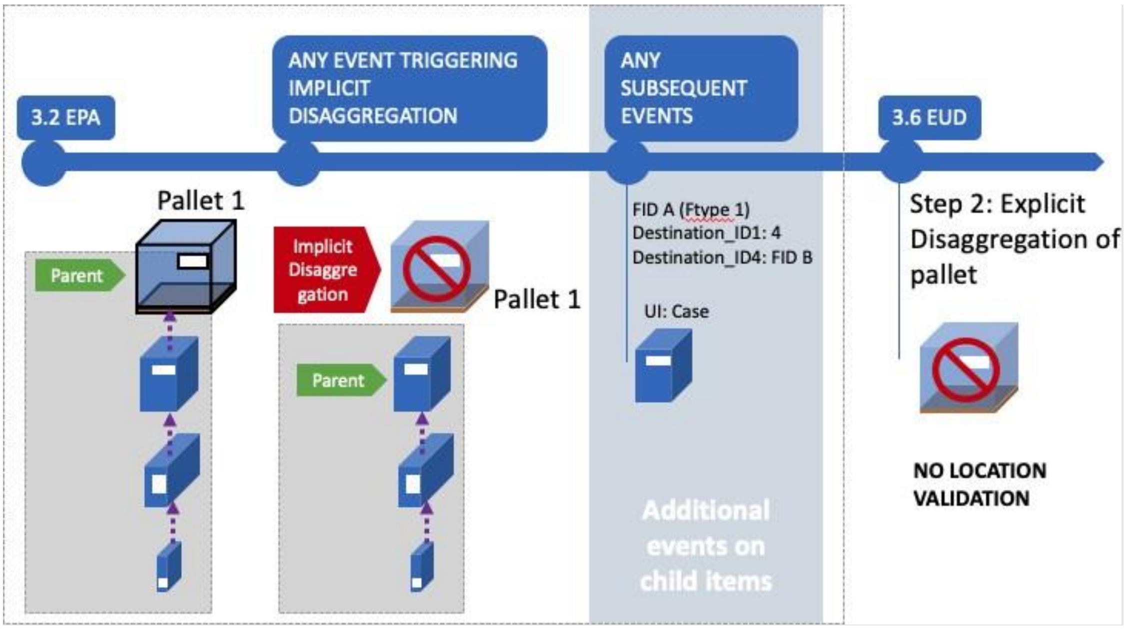


Figure 13 reporting of disaggregation event on aUI that are implicitly disaggregated.

5.8.6.5 Implicit disaggregation trigger

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

5.8.6.6 JSON Request sample

```
{
  "EO_ID": "QCGIT1AB02005",
  "F_ID": "QCGITAB020054",
  "Event_Time": "26032014",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "aUI": "DANXXXXXXXXXXX10FA00000119030110",
  "disaUI_comment": "Comments",
  "Message_Type": "EUD"
}
```

5.8.6.7 JSON Successful response sample

```
HTTP Status 202
{
   "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "EUD",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

5.8.6.8 Error response sample

HTTP status	Error Code	Error Description
<< Common 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

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

5.8.7.1 Description

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

5.8.7.2 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	M	Message_Type = EVR
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
F_ID	Facility identifier code of retail outlet	FID	S	M	
Event_Time	Time of event occurrence	Time(s)	S	M	

Message_Time_long	Message sending Time	Time(L)	S	M	
UI_Type	Identification of UI types delivered (recorded at the highest level of available aggregation)	Integer	S	M	1 – only unitpacket level UIs 2 – only aggregated levelUIs 3 – both unit packet andaggregated level UIs
upUIs	List of unit packet level UIs delivered	upUI(L)	M	M, if UI_Type = 1 or 3	
aUIs	List of aggregated level UIs delivered	aUI	M	M, if UI_Type = 2 or 3	
Delivery_comment	Comments by the reporting entity	Text(5000)	S	O	

5.8.7.2.1 Response

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

5.8.7.3 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

5.8.7.4 Sequence Validation

The following table represents the authorized transitions for an UI and specifically the previous message associated with that 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	EDX 3.8
EVR 3.7	No	No	No	Yes	No

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

For each UI in the event, an EVR must be preceded by a Dispatch event (EDP 3.3) of type 4. Any_other combination will result in a Sequence Error.

Note that omitting the reporting of the Dispatch event (EDP 3.3) will result in a SEQUENCE_ERROR.

5.8.7.5 *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 Delivering to Retail Outlet (EVR 3.7):

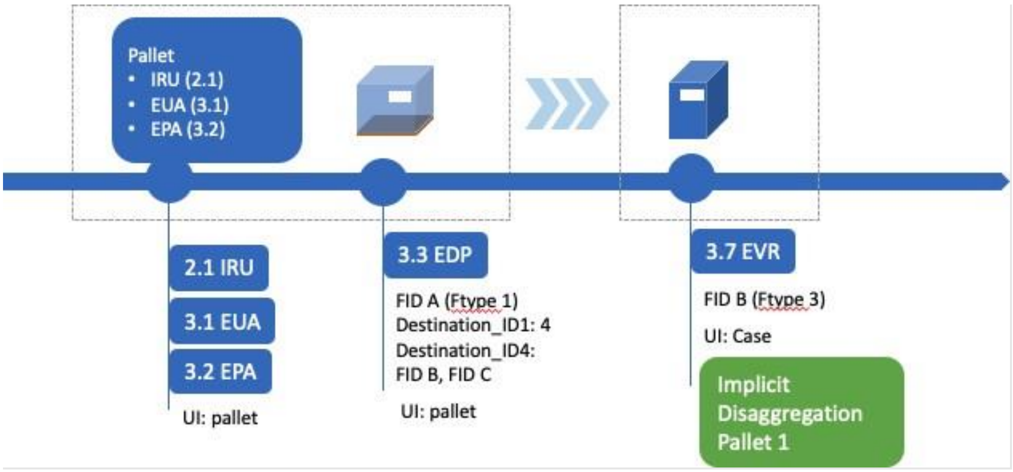


Figure 14 Implicit disaggregation trigger

5.8.7.6 *JSON Request sample*

```
{
  "EO_ID": "QCGIT1AB02005",
  "F_ID": "QCGIT1FB02005",
  "Event_Time": "26032014",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "UI_Type": 1,
  "upUIs": [ "DANXXXXXXXXXXXX1PR0123456789190301l0", "
  DANXXXXXXXXXXXX2PR01234567891903011O" ],
  "aUIs": [ "DANXXXXXXXXXXX10FA00000119030110" ],
  "Delivery_comment": "Comments",
  "Message_Type": "EVR"
}
```

5.8.7.7 *JSON Successful response sample*

```
HTTP Status 202
{
   "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "EVR",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

5.8.7.8 *Error response sample*

HTTP status	Error Code	Error Description
<< Common response code >>		
400	MULTIPLE_UI	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
299	SHIPMENT_WITHIN_24_HOURS	VAL_EVT_24H

5.8.8 EDX – (3.8) Dispatch of tobacco products from a facility to laboratories, waste disposal centres, national authorities, international governmental organisations, embassies and military bases

5.8.8.1 Description

Event that indicates that the UIs listed in the message have been dispatched from the economic operator to special destinations.

5.8.8.2 Description of the fields

Dispatch of tobacco products from a facility to laboratories, waste disposal centres, national authorities, international governmental organisations, embassies and military bases					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	M	Message_Type = EDX
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
Event_Time	Time of event occurrence	Time (s)	S	M	
Message_Time_long	Message sending Time	Time (L)	S	M	
F_ID	Dispatch facility identifier code	FID	S	M	
Destination_ID1	Indication of destination type	Integer	S	M	1– Laboratory. 2– Waste disposal centre 3 – National Authority 4 – International governmental organization 5 – Embassy 6 – Military base
Destination_2	Destination's street name and house number (or road number and kilometer)	Text(300)	S	M	
Destination_3	Destination's municipality (city, town or village)	Text(100)	S	M	
Destination_4	Destination's postal code	Text(50)	S	M	'n/a' is permitted value if no postal code has been assigned

Destination_5	Destination's country	Country	S	M	
Transport_mode	Mode of transport by which the product leaves the facility, see Annex II, Code List 7 of Commission Regulation (EC) No 684/20091	Integer	S	M	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
Transport_vehicle	Identification of the vehicle (i.e. number plates, train number, plane/flight number, ship name or other identification)	Text(5000)	S	M	'n/a' is permitted value if Transport_mode = 0 and product movement takes place between adjacent facilities and is delivered manually
Transport_cont1	Indication if the transport is containerised and uses an individual transport unit code (e.g. SSCC)	Boolean	S	M	0 – No 1 – Yes
Transport_cont2	Individual transport unit code of the container	ITU	S	M, if Transport_cont1 = 1	
UI_Type	Identification of UI types in the dispatch (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 subject to the dispatch	upUI(L)	M	M, if UI_Type = 1 or 3	
aUIs	List of aggregated level UIs subject to the dispatch	aUI	M	M, if UI_Type = 2 or 3	
S_Dispatch_comment	Comments by the reporting entity	Text(5000)	S	O	

5.8.8.3 Business validation

	EDX (3.8)

Technical validation	
VAL_MSG_JSON	EXCISE_NUMBER_NOT_VALID
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
VAL_ENT_ACTIVE_FID	F_ID
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

5.8.8.4 Sequence validation

The EDX message shares very similar validations as the EDP (3.3) message.

The most significant exception is that it is not possible to declare ETL (3.5 Transloading) after an EDX 3.8. The only valid product movement events after an EDX are an ERP Return (Arrival of type return) or IDA (deactivation).

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

Message Received	IRR 2.4	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)
EDX 3.8	Yes	Yes	No	Yes	No	Yes	Yes	Yes

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

UIs 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 (including EDX 3.8) 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

5.8.8.5 *Implicit disaggregation trigger*

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

5.8.8.6 *JSON Request sample*

```
{
  "EO_ID": "QCGITAB020054",
  "F_ID": "QCGIT1AB02005",
  "Event_Time": "26032014",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "Destination_ID1": "1",
  "Destination_ID2": "Street A",
  "Destination_ID3": "City A",

  "Destination_ID4": "n/a"

  "Destination_ID5": "GI",
  "Transport_mode": "3",
  "Transport_vehicle": "AB12345AB",
  "Transport_cont1": 1,
  "Transport_cont2": "1",
  "Transport_s1": 1,
  "Transport_s2": "1",
  "UI_Type": 3,
  "upUIs": [ "DANXXXXXXXXXXXX1PR012345678919030110",
  "DANXXXXXXXXXXXX2PR012345678919030110" ],
  "aUIs": [ "DANXXXXXXXXXXXX1FA00000119030110" ],
  "S_Dispatch_comment": "Comments",
  "Message_Type": "EDX"
}
```

5.8.8.7 *JSON Successful response sample*

```
HTTP Status 202
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "EDX",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

5.8.8.8 *Error response sample*

Processing errors

HTTP status	Error Code	Error Description
<< Common response code >>		
400	EXCISE_NUMBER_NOT_VALID	VAL_FIE_FORMAT
400	MULTIPLE_UI	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
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
299	SHIPMENT_WITHIN_24_HOURS	VAL_EVT_TIME
400	UI_SEQUENCE_ERROR	VAL_UI_ORD_SEQUENCE

5.9 Reporting transactional events (trade information)

5.9.1 EIV – (4.1) Issuing of the invoice

5.9.1.1 Description.

Event reporting on the details of an invoice submitted from one Economic Operator to another.

5.9.1.2 Description of the fields

Invoice reporting					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	M	Message_Type = EIV
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
Event_Time	Time of event occurrence	Time(s)	S	M	
Message_Time_long	Message sending Time	Time(L)	S	M	
Invoice_Type1	Type of the invoice	Integer	S	M	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	M	
Invoice_Date	Date of the invoice	Date	S	M	

Invoice_Seller	Identity of the seller	EOID	S	M	
Invoice_Buyer1	Identification if the buyer is located in GI	Boolean	S	M	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	O	
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	O	
Buyer_Address_City	Buyer's address - City	Text(5000)	S	M, if Invoice_ Buyer1 = 0	
Buyer_Address_PostCo de	Buyer's address - PostalCode information	Text(5000)	S	O	
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_GI	Identification if the invoice is issued by the first seller in GI, i.e. the GI manufacturer or the importer, and the product is destined for the GI market	Boolean	S	M	0 – No 1 – Yes

Product_Items_1	List of TPIDs corresponding to the product items listed on the invoice	TPID	M	O	
Product_Items_2	List of product numbers corresponding to the product items listed on the invoice (In case that Product_Items_1 is reported then Products_Item_2 must be in the same order as Product_Items_1)	PN	M	M, if First_Seller_GI = 1	
Product_Price	Net unit packet price per each product number (in the same order as product_Items_2)	Decimal	M	M, if First_Seller_GI = 1	
Invoice_Net	Total net amount of the invoice	Decimal	S	M	
Invoice_Currency	Currency of the invoice	Currency	S	M	
UI_Type	Identification of UI types covered by the invoice (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 invoice	upUI(L)	M	M, if UI_Type = 1 or 3	
aUIs	List of aggregated level UIs covered by the invoice	aUI	M	M, if UI_Type = 2 or 3	
Invoice_comment	Comments by the reporting entity	Text(5000)	S	O	

5.9.1.2.1 Response

Invoice reporting– response					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Resp	Block of basic information elements	Component << Basic Information Response >>	S	M	Message_Type = EIV

5.9.1.3 JSON Request sample

{

```
  "EO_ID": "QCGIT1AB02005",
  "Event_Time": "26032014",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "Invoice_Type1": 1,
  "Invoice_Type2": "other type",
  "Invoice_Number": "INV000001",
  "Invoice_Date": "2026-08-23T07:32:20.7878086+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_GI: 1,
  "Product_Items_1": [ "11111-1111111","11111-1111112" ],
  "Product_Items_2": [ "01234567891234","01234567891235"  ],
  "Product_Price": [ "16.99", "19.99" ],
  "Invoice_Net": 10099.99,
  "Invoice_Currency": "EUR”,
  "UI_Type": 1,
  "upUIs": [ "DANXXXXXXXXXXXX1PR012345678919030110",
  "DANXXXXXXXXXXXX1PR012345678919030110" ],
  "aUIs": [ "DANXXXXXXXXXXX10FA00000119030110" ],
  "Invoice_comment": "Comments",
  "Message_Type": "EIV"
}
```

5.9.1.4 JSON Successful response sample

```
HTTP Status 202
{
   "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "EIV",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

5.9.1.5 Error response sample

Processing errors

HTTP status	Error Code	Error Description
<< Common response code >>		

5.9.2 EPO – (4.2) Issuing of the order number

5.9.2.1 Description

Event reporting on a purchase order event for tobacco products (UIs) from one Economic Operator to another.

5.9.2.2 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	M	Message_Type = EPO
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
Event_Time	Time of event occurrence	Time(s)	S	M	
Message_Time_long	Message sending Time	Time(L)	S	M	
Order_Number	Number of the purchase order	Text	S	M	
Order_Date	Date of the purchase order	Date	S	M	
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)	M	M, if UI_Type = 1 or 3	

aUIs	List of aggregated level UIs covered by the purchase order	aUI	M	M, if UI_Type = 2 or 3	
Order_comment	Description of the reason for delayed recording of the purchase order	Text(5000)	S	O	

5.9.2.2.1 Response

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

5.9.2.3 JSON Request sample

```
{
  "EO_ID": "QCGIT1AB02004",
  "Event_Time": "26032014",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "Order_Number": "1234",
  "Order_Date": "2026-08-23T07:32:20.7878086+00:00",
  "UI_Type": 1,
  "upUIs": [ "DANXXXXXXXXXXXX1PR012345678919030110",
"DANXXXXXXXXXXXX1PR012345678919030110" ],
  "aUIs": [ "DANXXXXXXXXXXX10FA00000119030110" ],
  "Order_comment": "Comments",
  "Message_Type": "EPO"
}
```

5.9.2.4 JSON Successful response sample

```
HTTP Status 202
{
    "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "EPO",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

5.9.2.5 Error response sample

Processing errors

HTTP status	Error Code	Error Description
<< Common response code >>		

5.9.3 EPR – (4.3) Receipt of the payment

5.9.3.1 Description

Event reporting on the reception of a payment relating to an invoice for tobacco products previously issued by an Economic Operator.

5.9.3.2 Description of the fields

Payment record event					
Field	**Description**	**Data Type**	**Cardinality**	**Priority**	**Values**
BasicInfo_Req	Block of basic information elements	Component << Basic Information Request >>	S	M	Message_Type = EPR
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
Event_Time	Time of event occurrence	Time(s)	S	M	
Message_Time_long	Message sending Time	Time(L)	S	M	
Payment_Date	Date of the payment receipt	Date	S	M	
Payment_Type	Type of payment	Integer	S	M	See PaymentType
Payment_Amount	Amount of the payment	Decimal	S	M	
Payment_Currency	Currency of the payment	Currency	S	M	
Payment_Payer1	Identification if the payer is located in GI	Boolean	S	M	0 – No 1 – Yes
Payment_Payer2	Identity of the payer	EOID	S	M, if Payment_Payer1 = 1	
Payer_Name	Payer's registered legal name	Text(5000)	S	M, if Payment_Payer1= 0	

Payer_Address	Buyer's address	Text(5000)	S	M, if Payment_Payer1= 0	
Payer_Address_Name	Buyer's address - Name part of the Address	Text(5000)	S	O	
Payer_Address_StreetOne	Buyer's address - Street part of the Address	Text(5000)	S	M, if Payment_Payer1= 0	
Payer_Address_StreetTwo	Payer's address - Second Element of the Street part of the Address	Text(5000)	S	O	
Payer_Address_City	Payer's address - City	Text(5000)	S	M, if Payment_Payer1= 0	
Payer_Address_PostCode	Payer's address - PostalCode information	Text(5000)	S	O	
Payer_CountryReg	Payer's country of registration	Country	S	M, if Payment_Payer1 = 0	
Payer_TAX_N	Payer's tax registration number	Text(5000)	S	M, if Payment_Payer1 = 0	
Payment_Recipient	Identity of the recipient	EIOD	S	M	
Payment_Invoice	Indication if the payment corresponds to the existing invoice	Boolean	S	M	0 – No 1 – Yes
Invoice_Paid	Number of the invoice paid with the payment	Text(5000)	S	M, if Payment_Invoice = 1	
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	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)	M	M, if AND Payment_Invoice = 0 UI_Type = 1 or 3	
aUIs	List of aggregated level UIs covered by the payment	aUI	M	M, if AND Payment_Invoice = 0 UI_Type = 2 or 3	
Payment_comment	Comments by the reporting entity	Text(5000)	S	O	

5.9.3.2.1 Response

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

5.9.3.3 JSON Request sample

```
{
  "EO_ID": "QCGIT1AB02004",
  "Event_Time": "26032014",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "Payment_Date": "2026-08-23T07:32:20.7878086+00:00",
  "Payment_Type": 1,
  "InvoiceType": 1,
  "UI_Type": 1,
  "Payment_Amount": 1.99,
  "Payment_Currency": "EUR",
  "Payment_Payer1": true,
  "Payment_Payer2": "PayerId",
  "Payer_Name": "PayerNmae",
  "Payer_Address": "Address",
  "Payer_CountryReg":  "GI",
  "Payer_TAX_N": "TaxId",
  "Payment_Recipient": "PaymentRecipient",
  "Payment_Invoice": 1,
  "Invoice_Paid":  "test" ,
  "upUIs": [ "DANXXXXXXXXXXXX1PR012345678919030110",
  "DANXXXXXXXXXXXX2PR012345678919030110"  ],
  "aUIs": [ "DANXXXXXXXXXXX10FA00000119030110", "DANXXXXXXXXXXX20FA00000119030110"
],
  "Payment_comment": "Comments",
  "Message_Type": "EPR"
}
```

5.9.3.4 JSON Successful response sample

```
HTTP Status 202
{
   "Code": "873345b2-882f-4064-91f0-90669b46c30a",
    "Message_Type": "EPR",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

5.9.3.5 *Error response sample*

Processing errors

HTTP status		
<< Common response code >>		

5.10 Recall

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

5.10.1.1 Description

Economic Operators may recall certain messages by the transmission of this event and including the recall code ("Code" field value from the response of any message). Recalled events are marked invalid.

This is possible for message types 2-1, 2-2, 2.3, 3-A1 (code pairing), 3-1 to 3-8, 4-1, 4-2 and 4-3.

Note that message 2.3 (IDA) must meet certain conditions to be able to be recalled:

- Condition 1: Deact_Reason1 must be other than "2 – Product stolen"
- Condition 2: Less than 24h must've passed since the original 2.3 message was reported to the system. This time will be measured using the "Reception Time" (Time at which the message is received at the Gateway).

5.10.1.2 Sequence validation

For recall reason 1, previous messages can only be 3.3 EDP, 3.5 ETL and 3.8 EDX

	EUA 3.1	EPA 3.2	EDP 3.3	ERP 3.4	ETL 3.5	EUD 3.6	EVR 3.7	EDX 3.8
RCL 5.0 (Recall Reason = 1)	No	No	Yes	No	Yes	No	No	Yes

5.10.1.3 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	M	Message_Type = RCL
EO_ID	Economic operator identifier code of the submitting entity	EOID	S	M	
Message_Time_long	Message sending Time	Time(L)	S	M	
Recall_CODE	Message recall code provided to the message sender in the acknowledgement of the original message to be recalled	UUID	S	M	
Recall_Reason 1	Reason for recalling the original message	Integer	S	M	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	O	

5.10.1.3.1 Response

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

5.10.1.4 JSON Request sample

```
{
  "EO_ID":"QCGIT1AB02005",
  "Message_Time_Long":"2026-03-20T14:16:45Z",
  "RecallReason1":1,
  "RecallReason2":1,
  "RecallReason3":"Comments",
  "Message_Type":"RCL",
  "Recall_Code":  "873345b2-882f-4064-91f0-90669b46c30a"
}
```

Note that “Recall_Code” is a reference to the message that it is wished to be recalled.

5.10.1.5 JSON Successful response sample

```
HTTP Status 202
{
    "Code": "873345b2-882f-4064-91f0-111122222222",
    "Message_Type": "RCL",
    "Error": false,
    "Errors": null,
    "Checksum": "G6HF5H"
}
```

Note that “Code” is the Recall Code of the Recall Message, provided by the GI Gateway, used to uniquely identify each submitted Recall Message (same as for all other message responses).

5.10.1.6 Error response sample

HTTP status	**Error Code**	**Error Description**
<< Common response code >>		
400	RECALL_NOT_LAST_EVENT	Recall code not found: ERROR: The provided recall code does not exist. Recall code not the last event: ERROR: Please note that a recall can only be performed on valid messages that refer to UIs which were not later used in other messages.

6 List of Error Codes

6.1 Security errors

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

6.2 Processing errors

HTTP status	Error Code	Text Description
400	FAILED_VALIDATION Related control: VAL_FIE_REF	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 (**XXX**) is not in the defined set of values for AggregationType (**YYY**) (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 present in the same message.
400	REQUIRED_FIELD_FAILED_VALIDATION Related controls: VAL_FIE_MAN VAL_MSG_JSON	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
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 Related control: VAL_SEC_HASH	Error Descr: Hash information not matching the message signature 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> Comment: The message doesn’t follow the specifications defined in the Data Dictionary. The number of characters must remain under the max length.
400	MIN_LENGTH_FAILED_VALIDATION Related control: VAL_MSG_JSON	Error Descr: The field <XXX> should be a value with minimum length of <Y> Comment: The message doesn’t follow the specifications defined in the Data Dictionary. The number of characters must remain above the min length.
400	ENTRY_LENGTH_FAILED_VALIDATION Related control: VAL_MSG_JSON	Error Descr: The field <XXX> should be a 2-dimensional array where each row contains <Y> elements

		Comment: The message doesn’t follow the specifications defined in the Data Dictionary.
400	INVALID_INPUT_FORMAT Related controls: VAL_MSG_JSON VAL_FIE_FORMAT	Error Descr: see examples below Example for 3.3 message (dispatch - EDP): n/a is a permitted value for the field 'Transport_vehicle' only if Transport_mode = 0 Example for recall messages: Please note that a recall cannot be performed on <XXX> messages. 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)
400	PAYLOAD_NOT_UNIQUE Related control: VAL_MSG_DUPLICATE	Error Descr: The message should contain a payload which was not 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 Related control: VAL_MSG_JSON	Error Descr: The field 'EO_ExciseNumber2' should contain a valid 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 be compatible with ‘upUI_1’

	Related control: 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 Related control: VAL_MSG_JSON	Error Descr: For 3.1 message (activation - EUA): The field 'upUI_1' should contain the same number of items as ‘upUIs_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 ‘ProductIdentifiers’.
400	MULTIPLE_UI Related control: VAL_UI_MULT_MSG	Error Descr: The field 'upUI'/’aUI’ contains duplicate values Comment: Multiple duplicate UI present in the message lists. Message must contain only one occurrence of the same UI.
500	SYSTEM_ERROR	Error descr: Null Comment: The internal error ID should be provided to Dentsu support if required.

6.3 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.

6.4 Validation errors

HTTP status	Error Code	Text Description
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 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 GI repository, or which have already received an application event.
400	UI_DEACTIVATED Related controls: VAL_UI_ORD_REACTIVATION VAL_UI_ORD_DEACTIVATED	Error Descr for 3.1 messages (activation - EUA): Unique identifier application on unit 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 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 Related control: VAL_UI_ORD_AGG_MULT	Error Descr: Aggregation is not expected nor allowed when the pack is considered as already 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:	Error Descr: <action> is not expected nor allowed once the pack has been made explicitly available for aggregation after disaggregation

	VAL_UI_ORD_DISAGG VAL_UI_ORD_IMPLDISAGG	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.
400	LOCATION_MISMATCH Related controls: VAL_UI_ORD_AGG_FID VAL_UI_ORD_DISPATCH	Error Descr: the FID must match with the 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 a facility following an application, arrival or return. Error Data: list of UI Comment: arrival in GI 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 GI facility without having any prior dispatch or transloading
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. 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): *Dispatch from GI for delivery to retail destination is not expected nor allowed when the pack has been reported as dispatched for delivery to retail destination (DISPATCHED_GI_FIXED_QT_RETAIL/EDP_GI_FIXED_QT_RETAIL)* 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) *Report of GI delivery with a vending van to retail outlet destination is not expected nor allowed when the pack has not been previously reported as dispatched for VV delivery (DISPATCHED_GI_FIXED_QT_RETAIL/EVR)*

		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.
400	UI_EXPIRED Related control: VAL_UI_EXPIRY	Error Descr: Some or all unique identifiers listed in the message have expired 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.
400	CODE_NOT_UNIQUE Related controls: 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 GI repository.

400	RECALL_NOT_LAST_EVENT Related control: VAL_RECALL_LAST	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. Error Data: list of pair (UI @ Previous RecallCode) Comment: recalls can only be performed on last event.
400	PRINTED_CODES_ALREADY_USED Related control: VAL_PRINTED_CODES_ALREADY_USED	Error Descr: The printed code has already been paired with another UI. Error Data: list of UI
400	PAIRED_CODES_ALREADY_USED Related control: VAL_PAIRED_CODES_ALREADY_USED	Error Descr: The code to be paired has already been paired with another UI. Error Data: list of UI

7 Endpoints

The following URLs are the system URLs.

Service	PRE-PROD URL (Public Testing/Integration environment)
GI ID Issuer API	https://api.idissuer.pre.gitobaccotracing.com
GI ID Issuer API (Swagger)	https://api.idissuer.pre.gitobaccotracing.com/swagger/index.html
GI ID Issuer API (Auth)	https://auth.pre.gitobaccotracing.com/oauth2/token
GI ID Issuer Portal	https://idissuer.pre.gitobaccotracing.com
GI Gateway (JSON)	https://api.gateway.pre.gitobaccotracing.com
GI Gateway (Auth)	https://auth.pre.gitobaccotracing.com
Service	**PROD URL (Production URL)**
GI ID Issuer API	https://api.idissuer.prod.gitobaccotracing.com
GI ID Issuer API (Swagger)	https://api.idissuer.prod.gitobaccotracing.com/swagger/index.html
GI ID Issuer API (Auth)	https://auth.prod.gitobaccotracing.com/oauth2/token
GI ID Issuer Portal	https://idissuer.prod.gitobaccotracing.com
GI Gateway (JSON)	https://api.gateway.prod.gitobaccotracing.com
GI Gateway (Auth)	https://auth.prod.gitobaccotracing.com
Document Centre	https://www.gitobaccotracing.com/
Support Portal	https://support.gitobaccotracing.com/

8 List of Standards

1	OAuth 2	https://www.oauth.com/oauth2-servers/access-tokens/client-credentials/
2	ISO/IEC 9834-8:2014 Information technology -- Procedures for the operation of object identifier registration authorities -- Part 8: Generation of universally Unique identifier (UI) (UUIs) and their use in object identifiers	https://www.iso.org/standard/62795.html
3	The JavaScript Object Notation (JSON) Data Interchange Format Internet Engineering Task Force (IETF) Request for Comments: 8259	https://tools.ietf.org/html/rfc8259
4	UUID	https://www.ietf.org/rfc/rfc4122.txt