



SNEDAI SA	T : +226 25 65 57 93
Zogona, Ouagadougou	E : supportbf@snedai.com
Burkina Faso	W : www.snedai.com

GOVERNMENTAL REPOSITORY INTERFACE

DOCUMENT HISTORY

Version	Release Date	List of Changes
1.0	02 Jan 2020	First version of the Governmental Repository Interface document.
1.1	29 Jan 2021	Revised version on master data section: Products and Scanning location Adding event "Finished Goods Registration" Samples and examples have been added to the Events section
1.2	12 Mar 2021	EPC format update on commissioning and aggregation events
1.3	30 Apr 2021	Spelling error correction
1.4	25 Jun 2021	Section 1.3 and 1.4 reworked Section 2: EPC description completed Section 4 & 5 added: Response & Message Validation
1.4.1	07 July 2021	Typos and vocabulary update
1.5	24 th August 2021	Repository name updated to: "National T&T Repository" and unified throughout the document. Document keys should include SGLN instead of GLN. All message specifications and examples in the <i>Events</i> chapter have been updated regarding the order of the fields in (each) event specification, and the information that each event consists of an EPCIS header and EPCIS body part was added, together with examples of the complete EPCIS (header + body) event. Updated several examples in the <i>Transactional Documents</i> chapter. <i>Validation</i> chapter updated. Section <i>Technical Specification</i> in <i>Validation</i> chapter updated. Section 1.2: The data types used throughout the specifications have been reorganized into 2 sections:

- “*Data Types Description*” section - section was updated and reorganized: some data types were moved to the following (new) section and new data types were included.
- “*Complex Types Description*” section – a new section was added, containing the more complex data type definitions.

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1. DATA TYPES

1.1 PREREQUISITES FOR GS1/EPCIS

Economic operators involved in the manufacturing, trade, distribution, and selling of tobacco products must first register with GS1 to obtain a unique Company Prefix and supply this to the National T&T Repository as part of the registration process. The Company Prefix is used to create different types of numbers which can be used to uniquely identify products, cases, pallets, assets, locations, or other items. The Company Prefix contains between 6 and 12 digits, depending on how many Global Trade Item Numbers (GTINs) the organization requires.

The Company Prefix is used as the base for every GTIN that is created to uniquely identify individual products and aggregations of the same product type. Logistical units that are used to transport aggregated products throughout the supply chain are also identified by a unique number that uses the Company Prefix as the base, specifically a Serialized Shipping Container Code (SSCC).

In summary, as a minimum, the organizations reporting to the National T&T Repository must define:

- Homogeneous Aggregated Package Level Codes (e.g., bundle or master case): SGTINs are typically used to identify products. Serialized Shipping Container Codes (SSCCs) are also acceptable for homogeneous aggregated packages. For EU-based organizations, TPD aggregation-level (aUI) codes are acceptable.
- Inhomogeneous Aggregated Package Level Codes (e.g., pallet): SSCC, 18-digit Serialized Shipping Container Codes (SSCC) identify logistical units that are used to transport products throughout the supply chain. For EU-based organizations, TPD aggregation-level (aUI) codes are acceptable.
- Global Location Number (GLN), to identify locations within the organization.
- Business Transaction Document References, to uniquely identify shipping dispatch events.

Details on the prerequisites for GS1 compliance can be found at <https://www.gs1.org>.

1.2 DATA TYPES DESCRIPTION

The following subsections provide a detailed description of basic data types referred to in the events, transactional documents, and master data inserts listed in this document. For a list of complex data types see the following section.

Throughout this document the following occurrence rules apply:

Occurrence Key

1	Field is mandatory
1..n	One or many field occurrences
0..1	None or one only
0..n	None or many occurrences

1.2.1 Boolean

Represents a Boolean (true or false) value.

1.2.2 Integer

Represents a numeric value without a fractional component.

Example

30

1.2.3 Decimal

Represents a decimal floating-point number.

Example

100.99

1.2.4 Double

Represents a double-precision floating-point number (precision ~15-17 digits).

Example

0.9999999999999999

1.2.5 Date Time

UTC date and time encoded using the ISO 8601 format.

Example

2021-07-08T10:20:23.437Z

1.2.6 Offset

The UTC offset is the difference in hours and minutes from Coordinated Universal Time (UTC) for a particular place and date in the $\pm$ [hh]:[mm] format.

So if the time being described is one hour ahead of UTC (such as the time in Berlin during the winter), the UTC offset would be "+01:00".

1.2.7 Date Time Offset

UTC date, time, and offset encoded using the ISO 8601 format.

Example

2021-06-30T18:30:00+02:00

1.2.8 String

Represents non-Unicode text encoded in UTF-8; i.e., supports only Roman characters. Its length is limited to the value in the parentheses, which represents the number of actual characters and not the number of Unicode characters.

In case of String(constant), only one specific value is supported.

1.2.9 String(constant)

For format details, refer to String.

This data type is used whenever there is only one possible value. That value is provided in the specification for each field using this data type.

1.2.10 String(enum)

For format details, refer to String.

This data type is used when there is a list of specific values that are allowed in the field of this data type.

1.2.11 uString

Represents Unicode text encoded in UTF-8; i.e., supports non-Roman characters. Its length is limited to the value in the parentheses, which represents the number of actual characters and not the number of Unicode characters.

1.3 COMPLEX TYPES DESCRIPTION

The following subsections provide a detailed description of complex data types referred to in the events, transactional documents, and master data inserts listed in this document. For a list of available basic data types see the previous section.

1.3.1 Business Entity

Field	Occurrence	Type	Example / Specific Value	Description
sgln	1	SGLN	urn:epc:id:sgln:1233367.19084.0	Uniquely identifies the business entity.

name	1	uString(100)	<i>Żółty Promień S.A.</i>	Specifies the business entity's name.
nameRomanized	0..1	String(100)	<i>Zolty Promien S.A.</i>	Specifies the business entity's name (Roman characters only).
address1	1	uString(255)	<i>al. Spółdzielcza 663</i>	Specifies the business entity's address.
address1Romanized	0..1	String(255)	<i>al. Spoldzielcza 663</i>	Specifies the business entity's address (Roman characters only).
address2	0..1	uString(255)	<i>kol. Łękołody</i>	Specifies, if needed, additional information to the business entity's address.
address2Romanized	0..1	String(255)	<i>kol. Lekolody</i>	Specifies, if needed, additional information to the business entity's address (Roman characters only).
zip	1	uString (50)	<i>третья234</i>	Specifies the business entity's ZIP code.
zipRomanized	0..1	String(50)	<i>tret'ya234</i>	Specifies the business entity's ZIP code (Roman characters only).
city	1	uString(100)	<i>Łódź</i>	Specifies the business entity's city.
cityRomanized	0..1	String(100)	<i>Lodz</i>	Specifies the business entity's city (Roman characters only).
country	1	String(2)	<i>ES</i>	Specifies the business entity's country in ISO 3166-1-alpha-2 format.
coordinates	0..1	Coordinates	<pre>{ "latitude": -16.0629085, "longitude": -96.013224 }</pre>	Specifies the business entity's GPS coordinates.

1.3.2 Business Entity Tax

Field	Occurrence	Type	Example / Specific Value	Description
sgln	1	SGLN	urn:epc:id:sgln:1233367.19084.0	Uniquely identifies the business entity.
taxNumber	0..1	String(50)	238497298379873	Specifies the business entity's tax number.
name	1	uString(100)	Żółty Promień S.A.	Specifies the business entity's name.
nameRomanized	0..1	String(100)	Zolty Promien S.A.	Specifies the business entity's name (Roman characters only).
address1	1	uString(255)	al. Spółdzielcza 663	Specifies the business entity's address.
address1Romanized	0..1	String(255)	al. Spoldzielcza 663	Specifies the business entity's address (Roman characters only).
address2	0..1	uString(255)	kol. Łękołody	Specifies, if needed, additional information to the business entity's address.
address2Romanized	0..1	String(255)	kol. Lekolody	Specifies, if needed, additional information to the business entity's address (Roman characters only).
zip	1	uString (50)	третья234	Specifies the business entity's ZIP code.
zipRomanized	0..1	String(50)	tret'ya234	Specifies the business entity's ZIP code (Roman characters only).
city	1	uString(100)	Łódź	Specifies the business entity's city.
cityRomanized	0..1	String(100)	Lodz	Specifies the business entity's city (Roman characters only).

country	1	String(2)	ES	Specifies the business entity's country in ISO 3166-1-alpha-2 format.
coordinates	0..1	Coordinates	{ "latitude": -16.0629085, "longitude": -96.013224 }	Specifies the business entity's GPS coordinates.

1.3.3 Child Product

Field	Occurrence	Type	Example / Specific Value	Description
quantity	1	Integer	10	Specifies the quantity of child items. For instance, a bundle typically contains 10 packs of cigarettes.
childProduct	1	Product Definition		Defines the child product.

1.3.4 Coordinates

Field	Occurrence	Type	Example / Specific Value	Description
latitude	1	Double	41.4187	Defines the latitude in signed degrees format (DD.dddd). Precede South latitudes with a minus sign. Ranges from -90 to 90.
longitude	1	Double	2.1508	Defines the latitude in signed degrees format (DDD.dddd). Precede West longitudes with a minus sign. Ranges from -180 to 180.

1.3.5 Document Key

The document key is used to uniquely identify documents. These are the requirements:

- The key is unique across all systems.
- The key never expires; as long as the data store exists the key will allow to uniquely identify a document.
- The key cannot be updated.
- The key must match the specified format.

1.3.5.1 Key Format

String(255)

urn:tracking-gov-com:doc:[Document Type]:uid:[SGLN].[Document Number]

1.3.5.2 Document Type

Identifies the type of the document.

Document Type	Description
dn	Delivery note
so	Sales order
iv	Invoice
pr	Payment receipt

1.3.5.3 SGLN

This part of the document key needs to include an SGLN in the following format:

[Company Prefix].[Location Referencee].0

Refer to the SGLN type section for details.

1.3.5.4 Document Number

Identifies the document in the reporting system.

1.3.5.5 Examples

Document Type	Description	Key Example
dn	Delivery note	urn:tracking-gov-com:doc:iv:uid:1234567.89012.0.18390431
so	Sales order	urn:tracking-gov-com:doc:so:uid:1234567.89012.0.03740263
iv	Invoice	urn:tracking-gov-com:doc:iv:uid:1234567.89012.0.19374772
pr	Payment receipt	urn:tracking-gov-com:doc:pr:uid:1234567.89012.0.83926492

1.3.6 EPC

The Governmental Repository Interface accepts three item code formats. Each of them is encoded as EPC.

1.3.6.1 SGTIN EPC

SGTIN stands for Serialized Global Trade Item Number. It's one of the ways to give a unique code to an item. So the Governmental Repository Interface uses not the original SGTIN but its EPC form (or version, if you prefer the word). Again, note that both SGTIN and EPC are GS1 standards.

This is how an SGTIN code should be converted into the EPC format:

```
urn:epc:id:sgtin:[Company Prefix].[Item Ref And Indicator].[Serial Number]
```

The EPC version of an SGTIN code consists of five parts separated by a colon (:). `urn:epc:id:sgtin` is a fixed element that specifies we are dealing with an EPC code.

The last part consists of the following three ingredients separated by a dot (.):

- `[Company Prefix]` – A prefix assigned by GS1 to a managing entity or its delegates. This is the same as the GS1 Company Prefix digits within a GS1 GTIN key.
- `[Item Ref And Indicator]` – Item reference assigned by the managing entity to a particular object class. The item reference as it appears in the EPC code is derived from the GTIN by concatenating the indicator digit of the GTIN and the item reference digits, and treating the result as a single numeric string.
- `[Serial Number]` – Number assigned by the managing entity to an individual object. The serial number is not part of the GTIN, but is formally a part of the SGTIN.

Example

SGTIN with application identifiers:
(01)06291101121068(21)ZSSSJ8A3TBP8

EPC form:
`urn:epc:id:sgtin:6291101.012106.ZSSSJ8A3TBP8`

1.3.6.2 SSCC EPC

SSCC stands for Serial Shipping Container Code. It's used to identify a logistics handling unit, such as the contents of a shipping container or a pallet load. In the same way as for SGTIN, the Governmental Repository Interface requires the EPC version of SSCC.

This is the syntax of the EPC format of an SSCC code:

```
urn:epc:id:sscc:[Company Prefix].[Serial Reference]
```

Similar to the EPC version of an SGTIN code, the EPC version of an SSCC code consists of five parts separated by a colon (:). `urn:epc:id:sscc` is fixed for all SSCCs converted into the EPC form.

The last part consists of the unique identifier with a dot (.) in the middle. It should contain 17 characters (without counting the dot). To the left and right of the dot you have the following:

- `[Company Prefix]` – A prefix assigned by GS1 to a managing entity or its delegates. This is the same as the GS1 Company Prefix digits within a GS1 SSCC key.
- `[Serial Reference]` – Assigned by the managing entity to a particular logistics handling unit. The serial reference as it appears in the EPC code is derived from the SSCC by concatenating the extension digit of the SSCC and the serial reference digits, and treating the result as a single numeric string.

Example

SSCC with an application identifier:
(00)006141411234536672

EPC form:
`urn:epc:id:sscc:0614141.0123453667`

1.3.6.3 Other Formats

Items encoded differently than using SGTIN and SSCC should be reported to the National T&T Repository in the format you see below.

```
http://tracking-gov.com/epc/id/[Machine Readable Code]
```

[Machine Readable Code] is what is printed on the item. This includes, for example, the long format with data qualifiers of a TPD pack code issued in accordance with its ID issuer's guidelines.

Example

TPD code with a data qualifier:

5RQCBDRU%3Aa1ASTVCmXP040063960317160syua019060507

EPC form:

<http://tracking-gov.com/epc/id/5RQCBDRU%3Aa1ASTVCmXP040063960317160syua019060507>

Note that all codes reported through the Governmental Repository Interface should be URL-encoded, which means special characters (e.g., %) should be escaped.

Reference: EPC Tag Data Standard (https://www.gs1.org/sites/default/files/docs/epc/GS1_EPC_TDS_i1_13.pdf)

1.3.7 GIAI

Provided as String(255).

urn:epc:id:giai:[Company Prefix].[Individual Asset Reference]

- [Company Prefix] – The prefix of the company assigning the asset identifier.
- [Individual Asset Reference] – Alphanumeric individual asset reference. Its structure is left to the discretion of the asset owner or manager.

A GIAI can be used to identify a read point within a site (the `readPoint` field).

Example

urn:epc:id:giai:0614141.12345400

1.3.8 Product

Field	Occurrence	Type	E.g. in italic, else verbatim	Comment
gtin	1	String(14)	<i>01234567890123</i>	The GTIN of the lowest selling unit (pack, pouch ...)
quantity	1	Float	<i>1000</i>	Specifies the quantity of lowest selling units.

1.3.9 Product Definition

Field	Occurrence	Type	Example / Specific Value	Description
productCode	1	uString(255)	<i>AS12345</i>	The manufacturer SKU code linked to this product
gtin	1	String(14)	<i>12345678901234</i>	The GTIN associated to the packaging level of this product
productDescription	1	uString(255)	<i>American Breeze Blue</i>	The full product description
brandFamily	1	uString(255)	<i>American Breeze</i>	The brand family of the product
category	1	String(255)	<i>cigarettes, cigars, pipe tobacco, roll your own, snuff, ...</i>	The category of the product.
destinationMarket	1	String(2)	<i>JO</i>	ISO country code of the market the goods are manufactured for
packagingType	1	String(255)	<i>pack, bundle, multi-bundle, shipping case</i>	The type of packaging (packaging level)
baseUnit	0..1	String(100)	<i>cigarettes, grams</i>	Mandatory for the unit pack.
quantityOfBaseUnit	0..1	Decimal	<i>20.0</i>	Mandatory for the unit pack.

content	0..n	Child Product		The content of the product
---------	------	---------------	--	----------------------------

1.3.10 SGLN

Provided as String(255).

```
urn:epc:id:sgln:[Company Prefix].[Location Reference].[Extension]
```

SGLN is a GS1 standard, the EPC form of the GLN (i.e., Global Location Number; the letter "S" in SGLN doesn't stand for anything and it's just to distinguish the GLN from its EPC form).

urn:epc:id:sgln: is a fixed part of an SGLN key. After it goes the SGLN itself. An SGLN is a converted GLN and consists of three blocks of characters separated by dots:

- [Company Prefix] – Assigned by GS1. This is the same as the company prefix digits within a GLN key.
- [Location Reference] – Assigned uniquely to a specific physical location.
- [Extension] – Assigned to an individual unique location. It can refer a sub-location. If the entire GLN extension is just a single zero digit, it indicates that the SGLN stands for a GLN, without an extension.

An SGLN without an extension (e.g., 0614141.12345.0) should be used to identify businesses in events, documents, and master data.

An SGLN with an extension (e.g., 0614141.12345.RP1) should be used to represent a specific machine or reader within a facility (i.e., a sub-location reference) in the readPoint field in events.

For differences between bizLocation and readPoint, refer to the validation section.

Note: [Company Prefix] and [Location Reference] combined should consist of 12 characters excluding the dot between them.

Example

```
urn:epc:id:sgln:0614141.12345.0
```

1.4 MASTER DATA

1.4.1 Description

Master data describes products, scanning locations, and business transactions in human-readable format. This gives meaning to the codes received within EPCIS events.

Master data for products and scanning locations is registered in the National T&T Repository and must be registered prior to using those products and scanning locations in events transmitted to the National T&T Repository.

Important note: The National T&T Repository validates both scanning locations and products received in event data. That means the master data for a specific scanning location/product must have already been inserted with dedicated requests before using that scanning location/product in an event. Otherwise, the National T&T Repository rejects the event with an error.

1.4.2 Request

A master data insert takes the form of a JSON document.

Refer to a specific master data type to get a complete example of the request body:

- Product
- Scanning Location

1.4.3 Response

There are two possible statuses returned in response to an authorized request to the National T&T Repository: successful (HTTP status 200) and failed (HTTP status 400).

A 400 response provides details on validation checks that prevented the request from being processed successfully.

1.4.3.1 Body

Field	Occurrence	Type	Example / Specific Value	Description
Detail	1	null		
Errors	1..n	Array of objects (nullable)		Returns a key-value pair for each validation error.
Key	1	enum	<i>ValidationError-ValidateUris-Key</i>	Displays the validation error code.
Value	1..n	Array of uString	[<i>"The data contract type cannot be deserialized because the required data member 'transmissionUid' was not found."</i>]	Lists the details of the validation error.
Extensions	1..n	Array (nullable)		
Instance	1	null		Displays the validation error code.
Status	1	Integer	<i>200</i>	Displays the HTTP code.
Title	1	null		
Transmissi onUid	1	uString	<i>f0275b4f-8573-4efe-9482- fc9208f5b408</i>	Returns transmissionUid from the request body.
Type	1	null		

1.4.3.2 Example of a Response to a Successful Transmission

```
{
  "Detail": null,
  "Errors": [],
  "Extensions": [],
  "Instance": null,
  "Status": 200,
  "Title": null,
  "TransmissionUid": "f0275b4f-8573-4efe-9482-fc9208f5b408",
  "Type": null
}
```

1.4.3.3 Example of a Response to a Failed Transmission

Product

```
{
  "Detail": null,
  "Errors": [
    {
      "Key": "ValidationError-ValidateBrandOwnerSglnSuffix-Sgln",
      "Value": [
        "Brand owner sgln 'urn:epc:id:sgln:1445131.02760.RP1' must end with .0 suffix."
      ]
    }
  ],
  "Extensions": [],
  "Instance": null,
  "Status": 400,
  "Title": null,
  "TransmissionUid": "f0275b4f-8573-4efe-9482-fc9208f5b408",
  "Type": null
}
```

1.4.4 Product

Endpoint

PUT /gov/masterdata/product

GTIN is what uniquely identifies a product. Accordingly, the master data cannot include more than one product of the same GTIN.

The **product** object must be defined for every single product in the product master data.

Master data for products is hierarchical. The **content** array inside the **product** object provides the quantity and (the very same) **product** object of what is under that former product in its structure.

	Field	Occurrence	Type	Example / Specific Value	Description
	transmissionUid	0..1	uString(255)	f0275b4f-8573-4efe-9482-fc9208f5b408	Uniquely identifies the transmission in the reporting system.
	brandOwner	1			
	brandOwner.sglN	1	SGLN	urn:epc:id:sgln:1445131.02760.0	Uniquely identifies the owner of the brand.
	brandOwner.name	1	uString(255)	Infinite Jest	Specifies the name of the brand owner.
	product	1	Product Definition		Defines the product in a hierarchy, from its highest packaging level down to the lowest packaging level.

Example: Shipping Case - Bundle - Pack Hierarchy

```
{
  "transmissionUid": "a91ac857-f1f6-4c8c-aa19-b47c4a5c44f0",
  "brandOwner": {
    "sgln": "urn:epc:id:sgln:1445131.02760.0",
    "name": "The Pale King"
  },
  "product": {
    "productCode": "wfu08u3208ejqd0j0923j0",
    "gtin": "26672922500937",
    "productDescription": "product kategoria 1",

```

```

"brandFamily": "ABC",
"category": "cigarettes",
"product": "cigarettes",
"destinationMarket": "JO",
"packagingType": "shipping case",
"content": [
  {
    "quantity": 20,
    "childProduct": {
      "productCode": "wfu08u3208ejqd0j0923j0a",
      "gtin": "22741008421108",
      "productDescription": "product kategoria 2",
      "brandFamily": "ABC",
      "category": "cigarettes",
      "destinationMarket": "JO",
      "packagingType": "bundle",
      "content": [
        {
          "quantity": 4,
          "childProduct": {
            "productCode": "wfu08u3208ejqd0j0923j0",
            "gtin": "29873359303376",
            "productDescription": "product kategoria 3",
            "brandFamily": "ABC",
            "category": "cigarettes",
            "destinationMarket": "JO",
            "packagingType": "pack",
            "baseUnit": "cigarettes",
            "quantityOfBaseUnit": "10"
          }
        }
      ]
    }
  }
]
}

```

Example: Multi-Bundle

```

{

```

```
"transmissionUid": "520113c7-8914-457b-8e87-ad396b755214",
"brandOwner": {
  "sgln": "urn:epc:id:sgln:1445131.02760.0",
  "name": "Infinite Jest"
},
"product": {
  "productCode": "AS12345",
  "gtin": "41234567890126",
  "productDescription": "American Breeze Mix",
  "brandFamily": "American Breeze",
  "category": "cigarettes",
  "destinationMarket": "JO",
  "packagingType": "shipping case",
  "content": [
    {
      "quantity": 25,
      "childProduct": {
        "productCode": "AS12345",
        "gtin": "31234567890129",
        "productDescription": "American Breeze Mix",
        "brandFamily": "American Breeze",
        "category": "cigarettes",
        "destinationMarket": "JO",
        "packagingType": "multi-bundle",
        "content": [
          {
            "quantity": 2,
            "childProduct": {
              "productCode": "AS12356",
              "gtin": "25678923456786",
              "productDescription": "American Breeze Blue",
              "brandFamily": "American Breeze",
              "category": "cigarettes",
              "destinationMarket": "JO",
              "packagingType": "bundle",
              "content": [
                {
                  "quantity": 10,
                  "childProduct": {
                    "productCode": "AS12367",
                    "gtin": "15678923456789",
                    "productDescription": "American Breeze Blue",
```

```
        "brandFamily": "American Breeze",
        "category": "cigarettes",
        "destinationMarket": "JO",
        "packagingType": "pack",
        "baseUnit": "cigarettes",
        "quantityOfBaseUnit": 20
      }
    ]
  }
}
```

1.4.5 Scanning Location

Endpoint
PUT /gov/masterdata/scanninglocation

This category of master data describes physical locations associated with tobacco items. Scanning locations can be of the following types:

All visibility events contain scanning locations. For example:

- An aggregation message mentions the read point where the items were aggregated.
- A shipment event provides the items' original location.

Locations are identifiable by an SGLN key.

Field	Occurrence	Type	Example / Specific Value	Description
-------	------------	------	--------------------------	-------------

transmissionUid	0..1	uString(255)	<i>f0275b4f-8573-4efe-9482-fc9208f5b408</i>	Uniquely identifies the transmission in the reporting system.
scanningLocation	1	Business Entity		Defines the scanning location.

Example

```
{
  "transmissionUid": "64bd9fe6-7429-4042-9739-d01036ef8590",
  "scanningLocation": {
    "sgln": "urn:epc:id:sgln:1233367.19084.0",
    "name": "Docs ŻÓŁTY",
    "nameRomanized": "Docs ZOLTY",
    "address1": "11, Wyrazów",
    "address1Romanized": "11, Wyrazow",
    "address2": "AB, żółta ulica",
    "address2Romanized": "AB, zolta ulica",
    "zip": "Ł333",
    "zipRomanized": "L333",
    "city": "Kraków",
    "cityRomanized": "Krakow",
    "country": "PL",
    "coordinates": {
      "latitude": -16.0629085,
      "longitude": -96.013224
    }
  }
}
```

1.5 AGGREGATION-LEVEL PACKAGE CODES

Aggregation-level package codes must be transformed from GS1 Data Matrix or GS1-128 into an EPCIS compliant format before being submitted to the National T&T Repository. This involves transforming the encoded data on the data carrier into the required EPCIS format. The following table shows the required format for each valid aggregation level code type.

Code Type	EPCIS Code Format
SGTIN	Required EPCIS format: urn:epc:id:sgtin:CompanyPrefix.ItemRefAndIndicator.SerialNumber Example (7-digit company prefix): Barcode data with application identifiers:(01)06291101121068(21)ZSSSJ8A3TBP8 EPCIS format: urn:epc:id:sgtin:0629110.112106.ZSSSJ8A3TBP8
SSCC	Required EPCIS format: urn:epc:id:sscc:CompanyPrefix.SerialReference Example (7-digit company prefix): Barcode data with application identifier: (00)006141411234536672 EPCIS format: urn:epc:id:sscc:0614141.0123453667

2. EVENTS

Tobacco manufacturers and supply chain operators must provide track and trace information to the governmental authorities. The EPCIS framework defines a standardized set of events to enable this data to be captured and managed in a consistent format across all manufacturers and supply chain operators. This section specifies the message structure and how the events are reported to the National T&T Repository.

2.1 REQUEST

An event takes the form of an XML EPCIS document comprising an EPCIS header element and an EPCIS body element.

2.1.1 Header

The header (EPCISHeader) must contain a `StandardBusinessDocumentHeader` object as described below.

Element	Value	Comment / Example
HeaderVersion	1.0	
Sender/Identifier	SGLN	Identifies the entity that is reporting the event.
Receiver/Identifier	SGLN	Identifies the National T&T Repository.
DocumentIdentification/Standard	EPCglobal	
DocumentIdentification/TypeVersion	1.0	
DocumentIdentification/InstanceIdentifier	String	Should be unique. In rare situations a document with an already used identifier can be resent (if you are uncertain whether that document has been successfully sent). Corresponds to the <code>TransmissionUid</code> field in the response.

DocumentIdentification/Type	Events	
DocumentIdentification/CreationDateAndTime	Date Time	2021-08-21T03:02:10.908Z

2.1.2 Body

An EPCIS body element (EPCISBody) contains the following fields:

Element	Value	Example
EventList/ObjectEvent <i>or</i> EventList/AggregationEvent	Aggregation and disaggregation use EventList/AggregationEvent. Other event types use EventList/ObjectEvent.	Refer to a specific event type to get a complete example of the EPCIS body section: • Code Pairing • Commissioning • Aggregation • Decommissioning • Disaggregation • Finished Goods Registration • Shipment • Receipt • Importing • Tax Registration • Destruction

2.1.3 Example

Commissioning

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-08-09T05:02:10.908+02:00" xmlns:epcis="urn:epcglobal:epcis:xsd:1">
```

```

<EPCISHeader>
  <StandardBusinessDocumentHeader xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
    <HeaderVersion>1.0</HeaderVersion>
    <Sender>
      <Identifier Authority="SGLN">urn:epc:id:sgln:2132231.99145.0</Identifier>
    </Sender>
    <Receiver>
      <Identifier Authority="SGLN">urn:epc:id:sgln:7812910.87532.0</Identifier>
    </Receiver>
    <DocumentIdentification>
      <Standard>EPCglobal</Standard>
      <TypeVersion>1.0</TypeVersion>
      <InstanceIdentifier>70f56182-6f91-4b3d-802d-3ee88611ef39</InstanceIdentifier>
      <Type>Events</Type>
      <CreationDateAndTime>2021-08-21T03:02:10.908+02:00</CreationDateAndTime>
    </DocumentIdentification>
  </StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2021-06-21T05:02:10.908Z</eventTime>
      <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:8564301.111086.4354343445</epc>
        <epc>urn:epc:id:sgtin:8564301.111086.435434FG4D</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:1233367.19084.PUN37</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:1233367.19084.0</id>
      </bizLocation>
      <ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
    </ObjectEvent>
  </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

2.2 RESPONSE

There are two possible statuses returned in response to an authorized request to the National T&T Repository: successful (HTTP status 200) and failed (HTTP status 400).

A 400 response provides details on validation checks that prevented the request from being processed successfully.

2.2.1 Body

Field	Occurrence	Type	Example / Specific Value	Description
Response	1	Object		Provides the response.
TransmissionUid	1	uString	<i>a5bbde10-b7bc-4807-84c7-27a85ef92c1h</i>	Returns DocumentIdentification/InstanceIdentifier from the header.
Status	1	enum	<i>200</i>	Displays the HTTP code.
Errors	1 (nullable)	Object		Returns validation errors.
KeyValue	0..n	Array of objects		Returns a key-value pair for each validation error.
Key	1	enum	<i>ValidationError-ValidateUris-childEPCs</i>	Displays the validation error code.
Value	1	uString	<i>The URI 'urn:epc:id:sgtin:0238750.101941.e1Hz GTsD5rGo' is incorrect</i>	Displays the details of the validation error.

2.2.2 Example of a Response to a Successful Transmission

Aggregation

```
<Response xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

```

<TransmissionUid>a5bbde10-b7bc-4807-84c7-27a85ef92c1h</TransmissionUid>
<Status>200</Status>
<Errors/>
</Response>

```

2.2.3 Example of a Response to a Failed Transmission

Aggregation

```

<Response xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <TransmissionUid>22edb28f-7da3-4be6-a54c-8d360c09e9cf</TransmissionUid>
  <Status>400</Status>
  <Errors>
    <KeyValue>
      <Key>ValidationError-ValidateBizLocationSuffix-bizLocation</Key>
      <Value>
        <string>BizLocation 'urn:epc:id:sgln:1233367.19084.1' must end with .0 suffix.</string>
      </Value>
    </KeyValue>
    <KeyValue>
      <Key>ValidationError-ValidateQuantities-childEPCs</Key>
      <Value>
        <string>Number of child items (3) does not match quantity of parent (urn:epc:id:sgtin:2741008.242110.e1HzGTsD5rGh) GTIN
(22741008421108) product. The recorded Quantity for this product is: 4.</string>
      </Value>
    </KeyValue>
  </Errors>
</Response>

```

2.3 MANUFACTURERS

Economic operators involved in tobacco manufacturing and factory distribution are obliged to provide details of various events that occur during the manufacturing process. This section provides descriptions of the events supported by the EPCIS interface exposed by the National T&T Repository.

The manufacturers can report the following events:

- Commissioning: applying codes to packs.

- Code Pairing (optional, EU manufacturers only): pairing an EU pack code with a domestic code.
- Aggregation: packaging of goods from individual pack to pallet (packs to bundle, bundles to master case, master cases to pallet).
- Disaggregation: unpacking of goods from a parent container.
- Shipping: shipping of goods from the manufacturer's site.
- Decommissioning: destruction within the factory, before the Finished Goods event.

2.4 SUPPLY CHAIN OPERATORS

Tobacco supply chain operators are obliged to provide details of various events that occur during their handling of controlled goods.

The supply chain operators report the following events:

- Receiving: receipt of a shipment at a supply chain operator's site.
- Aggregation: re-packing of goods from individual pack to pallet.
- Disaggregation: unpacking of goods from a container.
- Shipping: shipping of goods from the supply chain operator's site (a Delivery Note document must be provided prior to a Shipping event).
- Destruction: destruction of finished goods released to the market (i.e., items that have passed the Finished Goods event).

2.5 COMMISSIONING

Commissioning is the process of associating a unique unit level pack code to a physical unit level pack. Note that commissioning events are not required for aggregation-level package codes.

Endpoint	EPCIS event
POST /gov/epcis/capture	ObjectEvent
Important	
The fields in the event request must be provided in fixed order – exactly as listed below in the description and examples.	
A complete EPCIS event consists of two parts:	

- the **EPCIS header** section, which is the same for all EPCIS events.
- the **EPCIS body** section, which is different for each EPCIS event.

Refer to the EPCIS request header section for details. The last example in this event description contains a complete EPCIS event document, including both the header and body.

The EPCIS body section details are described in the following table. The first example beneath the table presents the contents of the EPCIS body section only.

	Field	Occurrence	Type	Example / Specific Value	Description
WHEN	eventTime	1	Date Time	2021-08-04T03:02:01.209Z	Defines the UTC date and time of the event.
	eventTimeZoneOffset	1	Offset	+02:00	Defines the UTC offset of eventTime.
WHAT	epcList	1..n	EPC[]	<epc>[EPC]</epc> <epc>[EPC]</epc>	Lists the machine-readable codes printed on the items (one code per item).
EPCIS event	action	1	String(constant)	ADD	Defines that the objects listed in the epcList field enter the business process.
WHY	bizStep	1	String(constant)	urn:epcglobal:cbv:bizstep:commissioning	Identifies the EPCIS event, which is a specific part of the business process.
	disposition	0..1	String(constant)	urn:epcglobal:cbv:disp:active	Identifies the business condition of the objects listed in the epcList field.
WHERE	readPoint	1	SGLN or GIAI	<id>urn:epc:id:sgln:1233367.19084.SC1</id>	Identifies the specific location where the event took place. In case of an SGLN, the key:

					- Should have an extension (e.g., RP1) to represent a specific machine or reader within a facility; i.e., a sub-location reference. - Must equal the value in the bizLocation field (excl. the extension part). - Must be registered as a scanning location (excl. the extension) in master data before reporting the event. In case of a GIAI key: - The company prefix part must equal the company prefix part of the SGLN key in the bizLocation field.
	bizLocation	1	SGLN	<code><id>urn:epc:id:sgln:1233367.19084.0</id></code>	Identifies the organization to which products can be associated. The extension of the SGLN key should equal 0. The SGLN key is compared with the readPoint value: Must equal the readPoint value (without the extension part) if the latter provides an SGLN key.

					The company prefix in both fields must match if the readPoint value provides a GIAI key.
Extension	comment	0..1	uString(1000)	comment	Provides a comment from the reporting system.

Example 1 - only the EPCIS body (ObjectEvent) section

```

<ObjectEvent>
  <eventTime>2021-08-04T03:02:01.209Z</eventTime>
  <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:8564301.111086.4354343445</epc>
    <epc>urn:epc:id:sgtin:8564301.111086.435434FG4D</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:1233367.19084.RP1</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:1233367.19084.0</id>
  </bizLocation>
  <ext:Comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:Comment>
</ObjectEvent>

```

Example 2 - the complete EPCIS event, including EPCIS header and EPCIS body (ObjectEvent) sections

```

<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-08-04T05:02:01.209+02:00" xmlns:epcis="urn:epcglobal:epcis:xsd:1">
  <EPCISHeader>
    <StandardBusinessDocumentHeader xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
      <HeaderVersion>1.0</HeaderVersion>
      <Sender>
        <Identifier Authority="SGLN">urn:epc:id:sgln:2132231.99145.0</Identifier>
      </Sender>
    </StandardBusinessDocumentHeader>
  </EPCISHeader>
  <ObjectEvent>
    <eventTime>2021-08-04T03:02:01.209Z</eventTime>
    <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sgtin:8564301.111086.4354343445</epc>
      <epc>urn:epc:id:sgtin:8564301.111086.435434FG4D</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:1233367.19084.RP1</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:1233367.19084.0</id>
    </bizLocation>
    <ext:Comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:Comment>
  </ObjectEvent>
</epcis:EPCISDocument>

```

```
<Receiver>
  <Identifier Authority="SGLN">urn:epc:id:sgln:7812910.87532.0</Identifier>
</Receiver>
<DocumentIdentification>
  <Standard>EPCglobal</Standard>
  <TypeVersion>1.0</TypeVersion>
  <InstanceIdentifier>70f56182-6f91-4b3d-802d-3ee88611ef39</InstanceIdentifier>
  <Type>Events</Type>
  <CreationDateAndTime>2021-08-04T03:02:01.209+02:00</CreationDateAndTime>
</DocumentIdentification>
</StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2021-08-04T03:02:01.209Z</eventTime>
      <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:8564301.111086.4354343445</epc>
        <epc>urn:epc:id:sgtin:8564301.111086.435434FG4D</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:1233367.19084.RP1</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:1233367.19084.0</id>
      </bizLocation>
      <ext:Comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:Comment>
    </ObjectEvent>
  </EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

2.6 CODE PAIRING (EU-BASED MANUFACTURERS ONLY)

Code pairing is the process of linking an EU-issued pack code to a domestic code. For manufacturers based in the EU, the EU-issued code will be applied to the pack and submitted within a commissioning event.

The manufacturer can also receive an allocation of generated codes for each pack produced and this event is used to link the EU pack code with the domestic code.

Note the difference in the code structure for pack codes issued in the EU.

Endpoint	EPCIS event
POST /gov/epcis/capture	ObjectEvent

Important

The fields in the event request must be provided in fixed order – exactly as listed below in the description and examples.

A complete EPCIS event consists of two parts:

- the **EPCIS header** section, which is the same for all EPCIS events.
- the **EPCIS body** section, which is different for each EPCIS event.

Refer to the EPCIS request header section for details. The last example in this event description contains a complete EPCIS event document, including both the header and body.

The EPCIS body section details are described in the following table. The first example beneath the table presents the contents of the EPCIS body section only.

	Field	Occurrence	Type	Example / Specific Value	Description
WHEN	eventTime	1	Date Time	2021-08-04T03:02:01.209Z	Defines the UTC date and time of the event.
	eventTimeZoneOffset	1	Offset	+02:00	Defines the UTC offset of eventTime.
WHAT	epcList	1..n	EPC[]	<epc>http://tracking-gov.com/epc/id/5RQCBDRU%3Aa1ASTVCmXP040063960317160syua021060507</epc>	Lists the machine-readable codes printed on the items (one code per

				<epc>http://tracking-gov.com/epc/id/5RQCBDRU%3Aa1ASTVCmXP040063960317161syua021060507</epc>	item). Should be in the same order as pairedEpcList.
EPCIS event	action	1	String(constant)	OBSERVE	Defines that the objects listed in the epcList field participated in the event in the same way.
WHY	bizStep	1	String(constant)	urn:tracking-gov-com:bizstep:code_pairing	Identifies the EPCIS event, which is a specific part of the business process.
	disposition	0..1	String(constant)	urn:epcglobal:cbv:disp:unknown	Identifies the business condition of the objects listed in the epcList field.
WHERE	readPoint	1	SGLN or GIAI	<id>urn:epc:id:sgln:1233367.19084.SC1</id>	Identifies the specific location where the event took place. In case of an SGLN, the key: • Should have an extension (e.g., RP1) to represent a specific machine or reader within a facility; i.e., a sub-location reference. • Must equal the value in the bizLocation field (excl. the extension part).

					- Must be registered as a scanning location (excl. the extension) in master data before reporting the event. In case of a GIAI key: - The company prefix part must equal the company prefix part of the SGLN key in the bizLocation field.
	bizLocation	1	SGLN	<id>urn:epc:id:sgln:1233367.19084.0</id>	Identifies the organization to which products can be associated. The extension of the SGLN key should equal 0. The SGLN key is compared with the readPoint value: - Must equal the readPoint value (excl. the extension) if the latter provides an SGLN key. - The company prefix in both fields must match if the readPoint value provides a GIAI key.

Extensions	pairedEpcList	1..n	EPC[]	<code><epc>urn:epc:id:sgtin:6291101.012106.ZSSS J8A3TBP8</epc></code> <code><epc>urn:epc:id:sgtin:6291101.012106.ZSSS J8A3TBP9</epc></code>	Lists the government-compliant codes to be paired with the codes from another regulation. Should be in the same order as epcList.
	comment	0..1	uString(1000)	<code>comment</code>	Provides a comment from the reporting system.

Example 1 - only the EPCIS body (ObjectEvent) section

```

<ObjectEvent>
  <eventTime>2021-08-04T03:02:01.209Z</eventTime>
  <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
  <epcList>
    <epc>http://tracking-gov.com/epc/id/2351Eg5dSGlvf3afZl]0178888234127355800821071611</epc>
    <epc>http://tracking-gov.com/epc/id/2351Eg5dSHlvf3afZl]0178888234127355800821071611</epc>
  </epcList>
  <action>OBSERVE</action>
  <bizStep>urn:tracking-gov-com:bizstep:code_pairing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:unknown</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:1233367.19084.SC1</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:1233367.19084.0</id>
  </bizLocation>
  <ext:pairedEpcList xmlns:ext="urn:inexto:extension:xsd">
    <epc>urn:epc:id:sgtin:9209033.258989.pGvtV00rpxtT</epc>
    <epc>urn:epc:id:sgtin:9209033.258989.X39vn5KjCY4Q</epc>
  </ext:pairedEpcList>
  <ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
</ObjectEvent>

```

Example 2 - the complete EPCIS event, including EPCIS header and EPCIS body (ObjectEvent) sections

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-08-04T05:02:01.209+02:00" xmlns:epcis="urn:epcglobal:epcis:xsd:1">
  <EPCISHeader>
    <StandardBusinessDocumentHeader xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
      <HeaderVersion>1.0</HeaderVersion>
      <Sender>
        <Identifier Authority="SGLN">urn:epc:id:sgln:2132231.99145.0</Identifier>
      </Sender>
      <Receiver>
        <Identifier Authority="SGLN">urn:epc:id:sgln:7812910.87532.0</Identifier>
      </Receiver>
      <DocumentIdentification>
        <Standard>EPCglobal</Standard>
        <TypeVersion>1.0</TypeVersion>
        <InstanceIdentifier>70f56182-6f91-4b3d-802d-3ee88611ef39</InstanceIdentifier>
        <Type>Events</Type>
        <CreationDateAndTime>2021-08-04T03:02:01.209Z</CreationDateAndTime>
      </DocumentIdentification>
    </StandardBusinessDocumentHeader>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
      <ObjectEvent>
        <eventTime>2021-08-04T03:02:01.209Z</eventTime>
        <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
        <epcList>
          <epc>http://tracking-gov.com/epc/id/2351Eg5dSGLvf3afZlJ0178888234127355800821071611</epc>
          <epc>http://tracking-gov.com/epc/id/2351Eg5dSHlvf3afZlJ0178888234127355800821071611</epc>
        </epcList>
        <action>OBSERVE</action>
        <bizStep>urn:tracking-gov-com:bizstep:code_pairing</bizStep>
        <disposition>urn:epcglobal:cbv:disp:unknown</disposition>
        <readPoint>
          <id>urn:epc:id:sgln:1233367.19084.SC1</id>
        </readPoint>
        <bizLocation>
          <id>urn:epc:id:sgln:1233367.19084.0</id>
        </bizLocation>
        <ext:pairedEpcList xmlns:ext="urn:inexto:extension:xsd">
          <epc>urn:epc:id:sgtin:9209033.258989.pGvtV00rpxtT</epc>
          <epc>urn:epc:id:sgtin:9209033.258989.X39vn5KjCY4Q</epc>
        </ext:pairedEpcList>
        <ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
      </ObjectEvent>
    </EventList>
  </EPCISBody>
</EPCISDocument>
```

```

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

```

2.7 AGGREGATION (PACKING) EVENT

Aggregation is a specific activity within a business process that includes putting objects into a larger container – usually for shipping. Aggregation of one unit to another typically occurs at this point. Typically, unit level packs are aggregated into bundles, bundles are aggregated into master cases, and master cases are aggregated into pallets.

Endpoint	EPCIS event
POST /gov/epcis/capture	AggregationEvent

Important

The fields in the event request must be provided in fixed order – exactly as listed below in the description and examples.

A complete EPCIS event consists of two parts:

- the **EPCIS header** section, which is the same for all EPCIS events.
- the **EPCIS body** section, which is different for each EPCIS event.

Refer to the EPCIS request header section for details. The last example in this event description contains a complete EPCIS event document, including both the header and body.

The EPCIS body section details are described in the following table. The first example beneath the table presents the contents of the EPCIS body section only.

	Field	Occurrence	Type	Example / Specific Value	Description
WHEN	eventTime	1	Date Time	2021-08-04T03:02:01.209Z	Defines the UTC date and time of the event.
	eventTimeZoneOffset	1	Offset	+02:00	Defines the UTC offset of eventTime.

WHAT	parentID	1	EPC	<i>urn:epc:id:sgtin:9209033.258989.e1HzGTsD5rGh</i>	Specifies the machine-readable code printed on the parent item.
	childEPCs	1..n	EPC[]	<i><epc>[EPC]</epc> <epc>[EPC]</epc></i>	Lists the machine-readable codes printed on the items (one code per item).
EPCIS event	action	1	String(constant)	ADD	Defines that children are added to an aggregation during the event.
WHY	bizStep	1	String(constant)	urn:epcglobal:cbv:bizstep:packing	Identifies the EPCIS event, which is a specific part of the business process.
	disposition	0..1	String(constant)	urn:epcglobal:cbv:disp:in_progress	Identifies the business condition of the objects listed in the <i>epcList</i> field.
WHERE	readPoint	1	SGLN or GIAI	<i><id>urn:epc:id:sgln:1233367.19084.SC1</id></i>	Identifies the specific location where the event took place. In case of an SGLN, the key: • Should have an extension (e.g., RP1) to represent a specific machine or reader within a facility; i.e., a sub-location reference. • Must equal the value in the <i>bizLocation</i> field (excl. the extension part). • Must be registered as a scanning location (excl. the extension) in

					master data before reporting the event. In case of a GIAI key: The company prefix part must equal the company prefix part of the SGLN key in the <code>bizLocation</code> field.
	<code>bizLocation</code>	1	SGLN	<code><id>urn:epc:id:sgln:1233367.19084.0</id></code>	Identifies the organization to which products can be associated. The extension of the SGLN key should equal 0. The SGLN key is compared with the <code>readPoint</code> value: - Must equal the <code>readPoint</code> value (excl. the extension) if the latter provides an SGLN key. - The company prefix in both fields must match if the <code>readPoint</code> value provides a GIAI key.
Extension	<code>comment</code>	0..1	<code>uString(1000)</code>	<i>comment</i>	Provides a comment from the reporting system.

Example 1 - only the EPCIS body (AggregationEvent) section

<AggregationEvent>

```

<eventTime>2021-08-04T03:02:01.209Z</eventTime>
<eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
<parentID>urn:epc:id:sgtin:9209033.258989.e1HzGTsD5rGh</parentID>
<childEPCs>
  <epc>urn:epc:id:sgtin:7238750.101941.e1HzGTsD5rGo</epc>
  <epc>urn:epc:id:sgtin:7238750.101941.e1HzGTsD5rGp</epc>
  <epc>urn:epc:id:sgtin:7238750.101941.e1HzGTsD5rGq</epc>
  <epc>urn:epc:id:sgtin:7238750.101941.e1HzGTsD5rGr</epc>
</childEPCs>
<action>OBSERVE</action>
<bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:1233367.19084.SC1</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:1233367.19084.0</id>
</bizLocation>
<ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
</AggregationEvent>

```

Example 2 - the complete EPCIS event, including EPCIS header and EPCIS body (AggregationEvent) sections

```

<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-08-04T05:02:01.209+02:00" xmlns:epcis="urn:epcglobal:epcis:xsd:1">
  <EPCISHeader>
    <StandardBusinessDocumentHeader xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
      <HeaderVersion>1.0</HeaderVersion>
      <Sender>
        <Identifier Authority="SGLN">urn:epc:id:sgln:2132231.99145.0</Identifier>
      </Sender>
      <Receiver>
        <Identifier Authority="SGLN">urn:epc:id:sgln:7812910.87532.0</Identifier>
      </Receiver>
      <DocumentIdentification>
        <Standard>EPCglobal</Standard>
        <TypeVersion>1.0</TypeVersion>
        <InstanceIdentifier>70f56182-6f91-4b3d-802d-3ee88611ef39</InstanceIdentifier>
        <Type>Events</Type>
        <CreationDateAndTime>2021-08-04T03:02:01.209Z</CreationDateAndTime>
      </DocumentIdentification>
    </StandardBusinessDocumentHeader>
  </EPCISHeader>
  <AggregationEvent>

```

```

</EPCISHeader>
<EPCISBody>
  <EventList>
    <AggregationEvent>
      <eventTime>2021-08-04T03:02:01.209Z</eventTime>
      <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
      <parentID>urn:epc:id:sgtin:9209033.258989.e1HzGTsD5rGh</parentID>
      <childEPCs>
        <epc>urn:epc:id:sgtin:7238750.101941.e1HzGTsD5rGo</epc>
        <epc>urn:epc:id:sgtin:7238750.101941.e1HzGTsD5rGp</epc>
        <epc>urn:epc:id:sgtin:7238750.101941.e1HzGTsD5rGq</epc>
        <epc>urn:epc:id:sgtin:7238750.101941.e1HzGTsD5rGr</epc>
      </childEPCs>
      <action>OBSERVE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:1233367.19084.SC1</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:1233367.19084.0</id>
      </bizLocation>
      <ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
    </AggregationEvent>
  </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

2.8 DECOMMISSIONING

Decommissioning is the process of terminating a unit-level pack code in response to damage of that pack. The pack shall not be the subject of any subsequent events.

This event reports destruction within the factory, before the finished goods event happens.

Endpoint	EPCIS event
POST /gov/epcis/capture	ObjectEvent

Important

The fields in the event request must be provided in fixed order – exactly as listed below in the description and examples.

A complete EPCIS event consists of two parts:

- the **EPCIS header** section, which is the same for all EPCIS events.
- the **EPCIS body** section, which is different for each EPCIS event.

Refer to the EPCIS request header section for details. The last example in this event description contains a complete EPCIS event document, including both the header and body.

The EPCIS body section details are described in the following table. The first example beneath the table presents the contents of the EPCIS body section only.

	Field	Occurrence	Type	Example / Specific Value	Description
WHEN	eventTime	1	Date Time	2021-08-04T03:02:01.209Z	Defines the UTC date and time of the event.
	eventTimeZoneOffset	1	Offset	+02:00	Defines the UTC offset of eventTime.
WHAT	epcList	1..n	EPC[]	<epc>[EPC]</epc> <epc>[EPC]</epc>	Lists the machine-readable codes printed on the items (one code per item).
EPCIS event	action	1	String(constant)	DELETE	Defines the last step in the business process for the objects listed in the epcList field. No other events for those objects should follow this one.
WHY	bizStep	1	String(constant)	urn:epcglobal:cbv:bizstep:decommissioning	Identifies the EPCIS event, which is a specific part of the business process.
	disposition	0..1	String(constant)	urn:epcglobal:cbv:disp:inactive	Identifies the business condition of the objects listed in the epcList field.

WHERE	readPoint	1	SGLN or GIAI	<code><id>urn:epc:id:sgln:1233367.19084.SC1</id></code>	Identifies the specific location where the event took place. In case of an SGLN, the key: - Should have an extension (e.g., RP1) to represent a specific machine or reader within a facility; i.e., a sub-location reference. - Must equal the value in the <code>bizLocation</code> field (excl. the extension part). - Must be registered as a scanning location (excl. the extension) in master data before reporting the event. In case of a GIAI key: - The company prefix part must equal the company prefix part of the SGLN key in the <code>bizLocation</code> field.
	bizLocation	1	SGLN	<code><id>urn:epc:id:sgln:1233367.19084.0</id></code>	Identifies the organization to which products can be associated. The extension of the SGLN key should equal 0. The SGLN key is compared with the <code>readPoint</code> value:

					- Must equal the readPoint value (excl. the extension) if the latter provides an SGLN key. - The company prefix in both fields must match if the readPoint value provides a GIAI key.
Extension	comment	0..1	uString(1000)	comment	Provides a comment from the reporting system.

Example 1 - only the EPCIS body (ObjectEvent) section

```

<ObjectEvent>
  <eventTime>2021-08-04T03:02:01.209Z</eventTime>
  <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:8564301.111086.4354343445</epc>
    <epc>urn:epc:id:sgtin:8564301.111086.435434FG4D</epc>
  </epcList>
  <action>DELETE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:decommissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:inactive</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:1233367.19084.SC1</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:1233367.19084.0</id>
  </bizLocation>
  <ext:Comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:Comment>
</ObjectEvent>

```

Example 2 - the complete EPCIS event, including EPCIS header and EPCIS body (ObjectEvent) sections

```

<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-08-04T05:02:01.209+02:00" xmlns:epcis="urn:epcglobal:epcis:xsd:1">
  <EPCISHeader>

```

```

<StandardBusinessDocumentHeader xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
  <HeaderVersion>1.0</HeaderVersion>
  <Sender>
    <Identifier Authority="SGLN">urn:epc:id:sgln:2132231.99145.0</Identifier>
  </Sender>
  <Receiver>
    <Identifier Authority="SGLN">urn:epc:id:sgln:7812910.87532.0</Identifier>
  </Receiver>
  <DocumentIdentification>
    <Standard>EPCglobal</Standard>
    <TypeVersion>1.0</TypeVersion>
    <InstanceIdentifier>70f56182-6f91-4b3d-802d-3ee88611ef39</InstanceIdentifier>
    <Type>Events</Type>
    <CreationDateAndTime>2021-08-04T03:02:01.209+02:00</CreationDateAndTime>
  </DocumentIdentification>
</StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2021-08-04T03:02:01.209Z</eventTime>
      <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:8564301.111086.4354343445</epc>
        <epc>urn:epc:id:sgtin:8564301.111086.435434FG4D</epc>
      </epcList>
      <action>DELETE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:decommissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:inactive</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:1233367.19084.SC1</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:1233367.19084.0</id>
      </bizLocation>
      <ext:Comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:Comment>
    </ObjectEvent>
  </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

2.9 FINISHED GOODS REGISTRATION

This event should be sent when the goods exit the manufacturing (usually the secondary area of the factory) to be put in stock.

This event should be sent within a maximum of 72 hours after the aggregation of the last level of finished goods (not validated technically).

Not all commissioned items need to exit the manufacturing area. Authorities can collect a series of tobacco products at the factory to check their commissioning status with a field device running a verification application connected to the Central Information System. Such audited items are considered production wastage, which is the difference between the volume of commissioned item codes reported to the National T&T Repository and the number of items exiting the manufacturing area.

Endpoint	EPCIS event
POST /gov/epcis/capture	ObjectEvent

Important

The fields in the event request must be provided in fixed order – exactly as listed below in the description and examples.

A complete EPCIS event consists of two parts:

- the **EPCIS header** section, which is the same for all EPCIS events.
- the **EPCIS body** section, which is different for each EPCIS event.

Refer to the EPCIS request header section for details. The last example in this event description contains a complete EPCIS event document, including both the header and body.

The EPCIS body section details are described in the following table. The first example beneath the table presents the contents of the EPCIS body section only.

	Field	Occurrence	Type	Example / Specific Value	Description
WHEN	eventTime	1	Date Time	2021-08-04T03:02:01.209Z	Defines the UTC date and time of the event.
	eventTimeZoneOffset	1	Offset	+02:00	Defines the UTC offset of eventTime.
WHAT	epcList	1..n	EPC[]	<epc>[EPC]</epc> <epc>[EPC]</epc>	Lists the machine-readable codes printed on the items (one code per item).

EPCIS event	action	1	String(constant)	OBSERVE	
WHY	bizStep	1	String(constant)	urn:tracking-gov-com:bizstep:registeringFinishedGoods	Identifies the EPCIS event, which is a specific part of the business process.
	disposition	0..1	String(constant)	urn:epcglobal:cbv:disp:in_progress	Identifies the business condition of the objects listed in the <code>epcList</code> field.
WHERE	readPoint	1	SGLN or GIAI	<id>urn:epc:id:sgln:1233367.19084.SC1</id>	Identifies the specific location where the event took place. In case of an SGLN, the key: - Should have an extension (e.g., RP1) to represent a specific machine or reader within a facility; i.e., a sub-location reference. - Must equal the value in the <code>bizLocation</code> field (excl. the extension part). - Must be registered as a scanning location (excl. the extension) in master data before reporting the event.

					In case of a GIAI key: The company prefix part must equal the company prefix part of the SGLN key in the <code>bizLocation</code> field.
	<code>bizLocation</code>	1	SGLN	<code><id>urn:epc:id:sgln:1233367.19084.0</id></code>	Identifies the organization to which products can be associated. The extension of the SGLN key should equal 0. The SGLN key is compared with the <code>readPoint</code> value: - Must equal the <code>readPoint</code> value (excl. the extension) if the latter provides an SGLN key. - The company prefix in both fields must match if the <code>readPoint</code> value provides a GIAI key.
Extension	<code>comment</code>	0..1	uString(1000)	<i>comment</i>	Provides a comment from the reporting system.

Example 1 - only the EPCIS body (ObjectEvent) section

```

<ObjectEvent>
  <eventTime>2021-08-04T03:02:01.209Z</eventTime>
  <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:9873359.230337.0820142803</epc>
    <epc>urn:epc:id:sgtin:9873359.230337.e1HzGTsD5rGo</epc>
  </epcList>
  <action>OBSERVE</action>

```

```

<bizStep>urn:tracking-gov-com:bizstep:registeringFinishedGoods</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:1233367.19084.RP1</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:1233367.19084.0</id>
</bizLocation>
<ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
</ObjectEvent>

```

Example 2 - the complete EPCIS event, including EPCIS header and EPCIS body (ObjectEvent) sections

```

<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-08-04T05:02:01.209+02:00" xmlns:epcis="urn:epcglobal:epcis:xsd:1">
  <EPCISHeader>
    <StandardBusinessDocumentHeader xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
      <HeaderVersion>1.0</HeaderVersion>
      <Sender>
        <Identifier Authority="SGLN">urn:epc:id:sgln:2132231.99145.0</Identifier>
      </Sender>
      <Receiver>
        <Identifier Authority="SGLN">urn:epc:id:sgln:7812910.87532.0</Identifier>
      </Receiver>
      <DocumentIdentification>
        <Standard>EPCglobal</Standard>
        <TypeVersion>1.0</TypeVersion>
        <InstanceIdentifier>70f56182-6f91-4b3d-802d-3ee88611ef39</InstanceIdentifier>
        <Type>Events</Type>
        <CreationDateAndTime>2021-08-04T03:02:01.209+02:00</CreationDateAndTime>
      </DocumentIdentification>
    </StandardBusinessDocumentHeader>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
      <ObjectEvent>
        <eventTime>2021-08-04T03:02:01.209Z</eventTime>
        <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
        <epcList>
          <epc>urn:epc:id:sgtin:9873359.230337.0820142803</epc>
          <epc>urn:epc:id:sgtin:9873359.230337.e1HzGTsD5rGo</epc>
        </epcList>
      </ObjectEvent>
    </EventList>
  </EPCISBody>
</EPCISDocument>

```

```

<action>OBSERVE</action>
<bizStep>urn:tracking-gov-com:bizstep:registeringFinishedGoods</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:1233367.19084.RP1</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:1233367.19084.0</id>
</bizLocation>
<ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

2.10 DISAGGREGATION (UNPACKING) EVENT

Disaggregation is a specific activity within a business process that includes removing products (individuals, inners, cases, pallets) from a larger container – usually after receiving or accepting a shipment. Disaggregation of one unit from another typically occurs at this point.

Disaggregation events only need to be submitted if the organization intends to reuse the parent code. If disaggregation events are submitted, then a full disaggregation must be performed and supplied in a single event.

Endpoint	EPCIS event
POST /gov/epcis/capture	AggregationEvent

Important

The fields in the event request must be provided in fixed order – exactly as listed below in the description and examples.

A complete EPCIS event consists of two parts:

- the **EPCIS header** section, which is the same for all EPCIS events.
- the **EPCIS body** section, which is different for each EPCIS event.

Refer to the EPCIS request header section for details. The last example in this event description contains a complete EPCIS event document, including both the header and body.

The EPCIS body section details are described in the following table. The first example beneath the table presents the contents of the EPCIS body section only.

	Field	Occurrence	Type	Example / Specific Value	Description
WHEN	eventTime	1	Date Time	2021-08-04T03:02:01.209Z	Defines the UTC date and time of the event.
	eventTimeZoneOffset	1	Offset	+02:00	Defines the UTC offset of eventTime.
WHAT	parentID	1	EPC	urn:epc:id:sgtin:9209033.258989.e1HzGTsD5rGh	Specifies the machine-readable code printed on the parent item.
	childEPCs	0	NULL		Should be provided as NULL.
EPCIS event	action	1	String(constant)	DELETE	Defines that children are removed from an aggregation during the event.
WHY	bizStep	1	String(constant)	urn:epcglobal:cbv:bizstep:unpacking	Identifies the EPCIS event, which is a specific part of the business process.
	disposition	0..1	String(constant)	urn:epcglobal:cbv:disp:in_progress	Identifies the business condition of the objects listed in the <code>epcList</code> field.
WHERE	readPoint	1	SGLN or GIAI	<id>urn:epc:id:sgln:1233367.19084.SC1</id>	Identifies the specific location where the event took place. In case of an SGLN, the key: Should have an extension (e.g., RP1) to represent a specific machine or

					reader within a facility; i.e., a sub-location reference. • Must equal the value in the bizLocation field (excl. the extension part). • Must be registered as a scanning location (excl. the extension) in master data before reporting the event. In case of a GIAI key: • The company prefix part must equal the company prefix part of the SGLN key in the bizLocation field.
	bizLocation	1	SGLN	<code><id>urn:epc:id:sgln:1233367.19084.0</id></code>	Identifies the organization to which products can be associated. The extension of the SGLN key should equal 0. The SGLN key is compared with the readPoint value: • Must equal the readPoint value (excl. the extension) if the latter provides an SGLN key.

					The company prefix in both fields must match if the readPoint value provides a GIAI key.
Extension	comment	0..1	uString(1000)	comment	Provides a comment from the reporting system.

Example 1 - only the EPCIS body (AggregationEvent) section

```
<AggregationEvent>
  <eventTime>2021-08-04T03:02:01.209Z</eventTime>
  <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:2106071.0755641735</parentID>
  <childEPCs/>
  <action>DELETE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:1233367.19084.SC1</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:1233367.19084.0</id>
  </bizLocation>
  <ext:Comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:Comment>
</AggregationEvent>
```

Example 2 - the complete EPCIS event, including EPCIS header and EPCIS body (AggregationEvent) sections

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-08-04T05:02:01.209+02:00" xmlns:epcis="urn:epcglobal:epcis:xsd:1">
  <EPCISHeader>
    <StandardBusinessDocumentHeader xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
      <HeaderVersion>1.0</HeaderVersion>
      <Sender>
        <Identifier Authority="SGLN">urn:epc:id:sgln:2132231.99145.0</Identifier>
      </Sender>
      <Receiver>
```

```

    <Identifier Authority="SGLN">urn:epc:id:sgln:7812910.87532.0</Identifier>
  </Receiver>
  <DocumentIdentification>
    <Standard>EPCglobal</Standard>
    <TypeVersion>1.0</TypeVersion>
    <InstanceIdentifier>70f56182-6f91-4b3d-802d-3ee88611ef39</InstanceIdentifier>
    <Type>Events</Type>
    <CreationDateAndTime>2021-08-04T03:02:01.209+02:00</CreationDateAndTime>
  </DocumentIdentification>
</StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <AggregationEvent>
      <eventTime>2021-08-04T03:02:01.209Z</eventTime>
      <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
      <parentID>urn:epc:id:sscc:2106071.0755641735</parentID>
      <childEPCs/>
      <action>DELETE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:1233367.19084.SC1</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:1233367.19084.0</id>
      </bizLocation>
      <ext:Comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:Comment>
    </AggregationEvent>
  </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

2.11 SHIPMENT

A shipping event indicates the outbound process of logistic flow with a reference of a delivery document.

Note: The key of the delivery note(s) linked to the shipment **must** be provided in the bizTransationList section.

Endpoint	EPCIS event
----------	-------------

POST /gov/epcis/capture

ObjectEvent

Important

The fields in the event request must be provided in fixed order – exactly as listed below in the description and examples.

A complete EPCIS event consists of two parts:

- the **EPCIS header** section, which is the same for all EPCIS events.
- the **EPCIS body** section, which is different for each EPCIS event.

Refer to the EPCIS request header section for details. The last example in this event description contains a complete EPCIS event document, including both the header and body.

The EPCIS body section details are described in the following table. The first example beneath the table presents the contents of the EPCIS body section only.

	Field	Occurrence	Type	Example / Specific Value	Description
WHEN	eventTime	1	Date Time	2021-08-04T03:02:01.209Z	Defines the UTC date and time of the event.
	eventTimeZoneOffset	1	Offset	+02:00	Defines the UTC offset of eventTime.
WHAT	epcList	1..n	EPC[]	<epc> [EPC] </epc> <epc> [EPC] </epc>	Lists the machine-readable codes printed on the items (one code per item).
EPCIS event	action	1	String(constant)	OBSERVE	
WHY	bizStep	1	String(constant)	urn:epcglobal:cbv:bizstep:shipping	Identifies the EPCIS event, which is a specific part of the business process.
	disposition	0..1	String(constant)	urn:epcglobal:cbv:disp:in_transit	Identifies the business condition of the objects listed in the epcList field.

WHERE	readPoint	1	SGLN or GIAI	<code><id>urn:epc:id:sgln:1233367.19084.SC1</id></code>	Identifies the specific location where the event took place. In case of an SGLN, the key: • Should have an extension (e.g., RP1) to represent a specific machine or reader within a facility; i.e., a sub-location reference. • Must equal the value in the bizLocation field (excl. the extension part). • Must be registered as a scanning location (excl. the extension) in master data before reporting the event. In case of a GIAI key: • The company prefix part must equal the company prefix part of the SGLN key in the bizLocation field.
	bizLocation	1	SGLN	<code><id>urn:epc:id:sgln:1233367.19084.0</id></code>	Identifies the organization to which products can be associated. The extension of the SGLN key should equal 0.

					The SGLN key is compared with the readPoint value: • Must equal the readPoint value (excl. the extension) if the latter provides an SGLN key. • The company prefix in both fields must match if the readPoint value provides a GIAI key.
WHY	bizTransactionList	1..n	uString	<code><bizTransaction>urn:tracking-gov-com:doc:dn:uid:1234567.89012.0.18390431<bizTransaction></code>	The urn of the delivery note linked to the shipment
Extension	comment	0..1	uString(1000)	<i>comment</i>	Provides a comment from the reporting system.

Example 1 - only the EPCIS body (ObjectEvent) section

```

<ObjectEvent>
  <eventTime>2021-08-04T03:02:01.209Z</eventTime>
  <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:2106071.0755497723</epc>
    <epc>urn:epc:id:sscc:2106071.0755497724</epc>
  </epcList>
  <action>OBSERVE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:1233367.19084.RP1</id>
  </readPoint>

```

```

<bizLocation>
  <id>urn:epc:id:sgln:1233367.19084.0</id>
</bizLocation>
<bizTransactionList>
  <bizTransaction>urn:tracking-gov-com:doc:dn:uid:1234567.89012.0.18390431</bizTransaction>
</bizTransactionList>
<ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
</ObjectEvent>

```

Example 2 - the complete EPCIS event, including EPCIS header and EPCIS body (ObjectEvent) sections

```

<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-08-04T05:02:01.209+02:00" xmlns:epcis="urn:epcglobal:epcis:xsd:1">
  <EPCISHeader>
    <StandardBusinessDocumentHeader xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
      <HeaderVersion>1.0</HeaderVersion>
      <Sender>
        <Identifier Authority="SGLN">urn:epc:id:sgln:2132231.99145.0</Identifier>
      </Sender>
      <Receiver>
        <Identifier Authority="SGLN">urn:epc:id:sgln:7812910.87532.0</Identifier>
      </Receiver>
      <DocumentIdentification>
        <Standard>EPCglobal</Standard>
        <TypeVersion>1.0</TypeVersion>
        <InstanceIdentifier>70f56182-6f91-4b3d-802d-3ee88611ef39</InstanceIdentifier>
        <Type>Events</Type>
        <CreationDateAndTime>2021-08-04T03:02:01.209+02:00</CreationDateAndTime>
      </DocumentIdentification>
    </StandardBusinessDocumentHeader>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
      <ObjectEvent>
        <eventTime>2021-08-04T03:02:01.209Z</eventTime>
        <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
        <epcList>
          <epc>urn:epc:id:sscc:2106071.0755497723</epc>
          <epc>urn:epc:id:sscc:2106071.0755497724</epc>
        </epcList>
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
      </ObjectEvent>
    </EventList>
  </EPCISBody>
</EPCISDocument>

```

```

<disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
<readPoint>
  <id>urn:epc:id:sgln:1233367.19084.RP1</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:1233367.19084.0</id>
</bizLocation>
<bizTransactionList>
  <bizTransaction>urn:tracking-gov-com:doc:dn:uid:1234567.89012.0.18390431</bizTransaction>
</bizTransactionList>
<ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

2.12 RECEIPT

Indicates the inbound process of logistic flow to a specific location.

Endpoint	EPCIS event
POST /gov/epcis/capture	ObjectEvent

Important

The fields in the event request must be provided in fixed order – exactly as listed below in the description and examples.

A complete EPCIS event consists of two parts:

- the **EPCIS header** section, which is the same for all EPCIS events.
- the **EPCIS body** section, which is different for each EPCIS event.

Refer to the EPCIS request header section for details. The last example in this event description contains a complete EPCIS event document, including both the header and body.

The EPCIS body section details are described in the following table. The first example beneath the table presents the contents of the EPCIS body section only.

	Field	Occurrence	Type	Example / Specific Value	Description
--	-------	------------	------	--------------------------	-------------

WHEN	eventTime	1	Date Time	2021-08-04T03:02:01.209Z	Defines the UTC date and time of the event.
	eventTimeZoneOffset	1	Offset	+02:00	Defines the UTC offset of eventTime.
WHAT	epcList	1..n	EPC[]	<epc>[EPC]</epc> <epc>[EPC]</epc>	Lists the machine-readable codes printed on the items (one code per item).
EPCIS event	action	1	String(constant)	OBSERVE	
WHY	bizStep	1	String(constant)	urn:epcglobal:cbv:bizstep:receiving	Identifies the EPCIS event, which is a specific part of the business process.
	disposition	0..1	String(constant)	urn:epcglobal:cbv:disp:in_progress	Identifies the business condition of the objects listed in the epcList field.
WHERE	readPoint	1	SGLN or GIAI	<id>urn:epc:id:sgln:1233367.19084.SC1</id>	Identifies the specific location where the event took place. In case of an SGLN, the key: Should have an extension (e.g., RP1) to represent a specific machine or reader within a facility; i.e., a sub-location reference.

					• Must equal the value in the <code>bizLocation</code> field (excl. the extension part). • Must be registered as a scanning location (excl. the extension) in master data before reporting the event. In case of a GIAI key: • The company prefix part must equal the company prefix part of the SGLN key in the <code>bizLocation</code> field.
	<code>bizLocation</code>	1	SGLN	<code><id>urn:epc:id:sgln:1233367.19084.0</id></code>	Identifies the organization to which products can be associated. The extension of the SGLN key should equal 0. The SGLN key is compared with the <code>readPoint</code> value: • Must equal the <code>readPoint</code> value (excl. the extension) if the latter provides an SGLN key. • The company prefix in both fields must match if the <code>readPoint</code> value provides a GIAI key.

Extension	comment	0..1	uString(1000)	comment	Provides a comment from the reporting system.
-----------	---------	------	---------------	---------	---

Example 1 - only the EPCIS body (ObjectEvent) section

```

<ObjectEvent>
  <eventTime>2021-08-04T03:02:01.209Z</eventTime>
  <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:2106071.0755497724</epc>
    <epc>urn:epc:id:sscc:2106071.0755497723</epc>
  </epcList>
  <action>OBSERVE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:1233367.19084.RP1</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:1233367.19084.0</id>
  </bizLocation>
  <ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
</ObjectEvent>

```

Example 2 - the complete EPCIS event, including EPCIS header and EPCIS body (ObjectEvent) sections

```

<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-08-04T05:02:01.209+02:00" xmlns:epcis="urn:epcglobal:epcis:xsd:1">
  <EPCISHeader>
    <StandardBusinessDocumentHeader xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
      <HeaderVersion>1.0</HeaderVersion>
      <Sender>
        <Identifier Authority="SGLN">urn:epc:id:sgln:2132231.99145.0</Identifier>
      </Sender>
      <Receiver>
        <Identifier Authority="SGLN">urn:epc:id:sgln:7812910.87532.0</Identifier>
      </Receiver>
      <DocumentIdentification>
        <Standard>EPCglobal</Standard>
      </DocumentIdentification>
    </StandardBusinessDocumentHeader>
  </EPCISHeader>
  <ObjectEvent>
    <eventTime>2021-08-04T03:02:01.209Z</eventTime>
    <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:2106071.0755497724</epc>
      <epc>urn:epc:id:sscc:2106071.0755497723</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:1233367.19084.RP1</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:1233367.19084.0</id>
    </bizLocation>
    <ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
  </ObjectEvent>
</epcis:EPCISDocument>

```

```

    <TypeVersion>1.0</TypeVersion>
    <InstanceIdentifier>70f56182-6f91-4b3d-802d-3ee88611ef39</InstanceIdentifier>
    <Type>Events</Type>
    <CreationDateAndTime>2021-08-04T03:02:01.209+02:00</CreationDateAndTime>
  </DocumentIdentification>
</StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2021-08-04T03:02:01.209Z</eventTime>
      <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sscc:2106071.0755497724</epc>
        <epc>urn:epc:id:sscc:2106071.0755497723</epc>
      </epcList>
      <action>OBSERVE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:1233367.19084.RP1</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:1233367.19084.0</id>
      </bizLocation>
      <ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
    </ObjectEvent>
  </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

2.13 DESTRUCTION

Destruction is the process of terminating a unit-level pack code in response to the destruction of the physical pack. The pack shall not be the subject of any subsequent events. Destruction events are not required for aggregation-level package codes.

Reports destruction of finished goods released to the market (i.e., goods reported in the Finished Goods Registration event).

Endpoint	EPCIS event
----------	-------------

POST /gov/epcis/capture

ObjectEvent

Important

The fields in the event request must be provided in fixed order – exactly as listed below in the description and examples.

A complete EPCIS event consists of two parts:

- the **EPCIS header** section, which is the same for all EPCIS events.
- the **EPCIS body** section, which is different for each EPCIS event.

Refer to the EPCIS request header section for details. The last example in this event description contains a complete EPCIS event document, including both the header and body.

The EPCIS body section details are described in the following table. The first example beneath the table presents the contents of the EPCIS body section only.

	Field	Occurrence	Type	Example / Specific Value	Description
WHEN	eventTime	1	Date Time	2021-08-04T03:02:01.209Z	Defines the UTC date and time of the event.
	eventTimeZoneOffset	1	Offset	+02:00	Defines the UTC offset of eventTime.
WHAT	epcList	1..n	EPC[]	<epc>[EPC]</epc> <epc>[EPC]</epc>	Lists the machine-readable codes printed on the items (one code per item).
EPCIS event	action	1	String(constant)	DELETE	Defines the last step in the business process for the items listed in the epcList field. No other events for those items should follow this one.
WHY	bizStep	1	String(constant)	urn:epcglobal:cbv:bizstep:destroying	Identifies the EPCIS event, which is a specific part of the business process.
	disposition	0..1	String(constant)	urn:epcglobal:cbv:disp:inactive	Identifies the business condition of the objects listed in the epcList field.

WHERE	readPoint	1	SGLN or GIAI	<id>urn:epc:id:sgln:1233367.19084.SC1</id>	Identifies the specific location where the event took place. In case of an SGLN, the key: - Should have an extension (e.g., RP1) to represent a specific machine or reader within a facility; i.e., a sub-location reference. - Must equal the value in the bizLocation field (excl. the extension part). - Must be registered as a scanning location (excl. the extension) in master data before reporting the event. In case of a GIAI key: - The company prefix part must equal the company prefix part of the SGLN key in the bizLocation field.
	bizLocation	1	SGLN	<id>urn:epc:id:sgln:1233367.19084.0</id>	Identifies the organization to which products can be associated. The extension of the SGLN key should equal 0.

					The SGLN key is compared with the readPoint value: • Must equal the readPoint value (excl. the extension) if the latter provides an SGLN key. • The company prefix in both fields must match if the readPoint value provides a GIAI key.
Extension	comment	0..1	uString(1000)	comment	Provides a comment from the reporting system.

Example 1 - only the EPCIS body (ObjectEvent) section

```

<ObjectEvent>
  <eventTime>2021-08-04T03:02:01.209Z</eventTime>
  <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:2106071.0755497723</epc>
    <epc>urn:epc:id:sscc:2106071.0755497724</epc>
  </epcList>
  <action>DELETE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:destroying</bizStep>
  <disposition>urn:epcglobal:cbv:disp:inactive</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:1233367.19084.RP1</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:1233367.19084.0</id>
  </bizLocation>
  <ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
</ObjectEvent>

```

Example 2 - the complete EPCIS event, including EPCIS header and EPCIS body (ObjectEvent) sections

```

<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-08-04T05:02:01.209+02:00" xmlns:epcis="urn:epcglobal:epcis:xsd:1">
  <EPCISHeader>
    <StandardBusinessDocumentHeader xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
      <HeaderVersion>1.0</HeaderVersion>
      <Sender>
        <Identifier Authority="SGLN">urn:epc:id:sgln:2132231.99145.0</Identifier>
      </Sender>
      <Receiver>
        <Identifier Authority="SGLN">urn:epc:id:sgln:7812910.87532.0</Identifier>
      </Receiver>
      <DocumentIdentification>
        <Standard>EPCglobal</Standard>
        <TypeVersion>1.0</TypeVersion>
        <InstanceIdentifier>70f56182-6f91-4b3d-802d-3ee88611ef39</InstanceIdentifier>
        <Type>Events</Type>
        <CreationDateAndTime>2021-08-04T03:02:01.209+02:00</CreationDateAndTime>
      </DocumentIdentification>
    </StandardBusinessDocumentHeader>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
      <ObjectEvent>
        <eventTime>2021-08-04T03:02:01.209Z</eventTime>
        <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
        <epcList>
          <epc>urn:epc:id:sscc:2106071.0755497723</epc>
          <epc>urn:epc:id:sscc:2106071.0755497724</epc>
        </epcList>
        <action>DELETE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:destroying</bizStep>
        <disposition>urn:epcglobal:cbv:disp:inactive</disposition>
        <readPoint>
          <id>urn:epc:id:sgln:1233367.19084.RP1</id>
        </readPoint>
        <bizLocation>
          <id>urn:epc:id:sgln:1233367.19084.0</id>
        </bizLocation>
        <ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
      </ObjectEvent>
    </EventList>
  </EPCISBody>
</EPCISDocument>

```

```
</EPCISBody>
</epcis:EPCISDocument>
```

2.14 IMPORTING

Reports importing tobacco goods. In the event, you need to define the location.

Endpoint	EPCIS event
POST /gov/epcis/capture	ObjectEvent

Important

The fields in the event request must be provided in fixed order – exactly as listed below in the description and examples.

A complete EPCIS event consists of two parts:

- the **EPCIS header** section, which is the same for all EPCIS events.
- the **EPCIS body** section, which is different for each EPCIS event.

Refer to the EPCIS request header section for details. The last example in this event description contains a complete EPCIS event document, including both the header and body.

The EPCIS body section details are described in the following table. The first example beneath the table presents the contents of the EPCIS body section only.

	Field	Occurrence	Type	Example / Specific Value	Description
WHEN	eventTime	1	Date Time	2021-08-04T03:02:01.209Z	Defines the UTC date and time of the event.
	eventTimeZoneOffset	1	Offset	+02:00	Defines the UTC offset of eventTime.
WHAT	epcList	1..n	EPC[]	<epc>[EPC]</epc> <epc>[EPC]</epc>	Lists the machine-readable codes printed on the items (one code per item).
EPCIS event	action	1	String(constant)	OBSERVE	
WHY	bizStep	1	String(constant)	urn:tracking-gov- com:bizstep:importing	Identifies the EPCIS event, which is a specific part of the business process.

	disposition	0..1	String(constant)	urn:epcglobal:cbv:disp:in_progress	Identifies the business condition of the objects listed in the <code>epcList</code> field.
WHERE	readPoint	1	SGLN or GIAI	<id>urn:epc:id:sgln:1233367.19084.SC1</id>	Identifies the specific location where the event took place. In case of an SGLN, the key: - Should have an extension (e.g., RP1) to represent a specific machine or reader within a facility; i.e., a sub-location reference. - Must equal the value in the <code>bizLocation</code> field (excl. the extension part). - Must be registered as a scanning location (excl. the extension) in master data before reporting the event. In case of a GIAI key: - The company prefix part must equal the company prefix part of the SGLN key in the <code>bizLocation</code> field.

	bizLocation	1	SGLN	<code><id>urn:epc:id:sgln:1233367.19084.0</id></code>	Identifies the organization to which products can be associated. The extension of the SGLN key should equal 0. The SGLN key is compared with the readPoint value: • Must equal the readPoint value (excl. the extension) if the latter provides an SGLN key. • The company prefix in both fields must match if the readPoint value provides a GIAI key.
Extension	comment	0..1	uString(1000)	comment	Provides a comment from the reporting system.

Example 1 - only the EPCIS body (ObjectEvent) section

```

<ObjectEvent>
  <eventTime>2021-08-04T03:02:01.209Z</eventTime>
  <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:2106080.0820976336</epc>
    <epc>urn:epc:id:sscc:2106080.0820002280</epc>
  </epcList>
  <action>OBSERVE</action>
  <bizStep>urn:tracking-gov-com:bizstep:importing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:1233367.19084.RP1</id>
  </readPoint>

```

```
<bizLocation>
  <id>urn:epc:id:sgln:1233367.19084.0</id>
</bizLocation>
<ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
</ObjectEvent>
```

Example 2 - the complete EPCIS event, including EPCIS header and EPCIS body (ObjectEvent) sections

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-08-04T05:02:01.209+02:00" xmlns:epcis="urn:epcglobal:epcis:xsd:1">
  <EPCISHeader>
    <StandardBusinessDocumentHeader xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
      <HeaderVersion>1.0</HeaderVersion>
      <Sender>
        <Identifier Authority="SGLN">urn:epc:id:sgln:2132231.99145.0</Identifier>
      </Sender>
      <Receiver>
        <Identifier Authority="SGLN">urn:epc:id:sgln:7812910.87532.0</Identifier>
      </Receiver>
      <DocumentIdentification>
        <Standard>EPCglobal</Standard>
        <TypeVersion>1.0</TypeVersion>
        <InstanceIdentifier>70f56182-6f91-4b3d-802d-3ee88611ef39</InstanceIdentifier>
        <Type>Events</Type>
        <CreationDateAndTime>2021-08-04T03:02:01.209+02:00</CreationDateAndTime>
      </DocumentIdentification>
    </StandardBusinessDocumentHeader>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
      <ObjectEvent>
        <eventTime>2021-08-04T03:02:01.209Z</eventTime>
        <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
        <epcList>
          <epc>urn:epc:id:sscc:2106080.0820976336</epc>
          <epc>urn:epc:id:sscc:2106080.0820002280</epc>
        </epcList>
        <action>OBSERVE</action>
        <bizStep>urn:tracking-gov-com:bizstep:importing</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
          <id>urn:epc:id:sgln:1233367.19084.RP1</id>
```

```

</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:1233367.19084.0</id>
</bizLocation>
<ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

2.15 TAX REGISTRATION

Endpoint	EPCIS event
POST /gov/epcis/capture	ObjectEvent

Important

The fields in the event request must be provided in fixed order – exactly as listed below in the description and examples.

A complete EPCIS event consists of two parts:

- the **EPCIS header** section, which is the same for all EPCIS events.
- the **EPCIS body** section, which is different for each EPCIS event.

Refer to the EPCIS request header section for details. The last example in this event description contains a complete EPCIS event document, including both the header and body.

The EPCIS body section details are described in the following table. The first example beneath the table presents the contents of the EPCIS body section only.

	Field	Occurrence	Type	Example / Specific Value	Description
WHEN	eventTime	1	Date Time	2021-08-04T03:02:01.209Z	Defines the UTC date and time of the event.
	eventTimeZoneOffset	1	Offset	+02:00	Defines the UTC offset of eventTime.
WHAT	epcList	1..n	EPC[]	<epc>[EPC]</epc> <epc>[EPC]</epc>	Lists the machine-readable codes printed on the items (one code per item).
EPCIS event	action	1	String(constant)	OBSERVE	

WHY	bizStep	1	String(constant)	urn:tracking-gov-com:bizstep:registeringTax	Identifies the EPCIS event, which is a specific part of the business process.
	disposition	0..1	String(constant)	urn:epcglobal:cbv:disp:in_progress	Identifies the business condition of the objects listed in the <code>epcList</code> field.
WHERE	readPoint	1	SGLN or GIAI	<id>urn:epc:id:sgln:1233367.19084.SC1</id>	Identifies the specific location where the event took place. In case of an SGLN, the key: - Should have an extension (e.g., RP1) to represent a specific machine or reader within a facility; i.e., a sub-location reference. - Must equal the value in the <code>bizLocation</code> field (excl. the extension part). - Must be registered as a scanning location (excl. the extension) in master data before reporting the event. In case of a GIAI key:

					The company prefix part must equal the company prefix part of the SGLN key in the bizLocation field.
	bizLocation	1	SGLN	<code><id>urn:epc:id:sgln:1233367.19084.0</id></code>	Identifies the organization to which products can be associated. The extension of the SGLN key should equal 0. The SGLN key is compared with the readPoint value: - Must equal the readPoint value (excl. the extension) if the latter provides an SGLN key. - The company prefix in both fields must match if the readPoint value provides a GIAI key.
Extension	comment	0..1	uString(1000)	comment	Provides a comment from the reporting system.

Example 1 - only the EPCIS body (ObjectEvent) section

```

<ObjectEvent>
  <eventTime>2021-08-04T03:02:01.209Z</eventTime>
  <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:9209033.258989.e1HzGTsD5rGb</epc>
  </epcList>
  <action>OBSERVE</action>
  <bizStep>urn:tracking-gov-com:bizstep:registeringTax</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>

```

```

<readPoint>
  <id>urn:epc:id:sgln:1233367.19084.RP1</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:1233367.19084.0</id>
</bizLocation>
<ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
</ObjectEvent>

```

Example 2 - the complete EPCIS event, including EPCIS header and EPCIS body (ObjectEvent) sections

```

<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-08-04T05:02:01.209+02:00" xmlns:epcis="urn:epcglobal:epcis:xsd:1">
  <EPCISHeader>
    <StandardBusinessDocumentHeader xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
      <HeaderVersion>1.0</HeaderVersion>
      <Sender>
        <Identifier Authority="SGLN">urn:epc:id:sgln:2132231.99145.0</Identifier>
      </Sender>
      <Receiver>
        <Identifier Authority="SGLN">urn:epc:id:sgln:7812910.87532.0</Identifier>
      </Receiver>
      <DocumentIdentification>
        <Standard>EPCglobal</Standard>
        <TypeVersion>1.0</TypeVersion>
        <InstanceIdentifier>70f56182-6f91-4b3d-802d-3ee88611ef39</InstanceIdentifier>
        <Type>Events</Type>
        <CreationDateAndTime>2021-08-04T03:02:01.209+02:00</CreationDateAndTime>
      </DocumentIdentification>
    </StandardBusinessDocumentHeader>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
      <ObjectEvent>
        <eventTime>2021-08-04T03:02:01.209Z</eventTime>
        <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
        <epcList>
          <epc>urn:epc:id:sgtin:9209033.258989.e1HzGTsD5rGb</epc>
        </epcList>
        <action>OBSERVE</action>
        <bizStep>urn:tracking-gov-com:bizstep:registeringTax</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      </ObjectEvent>
    </EventList>
  </EPCISBody>
</EPCISDocument>

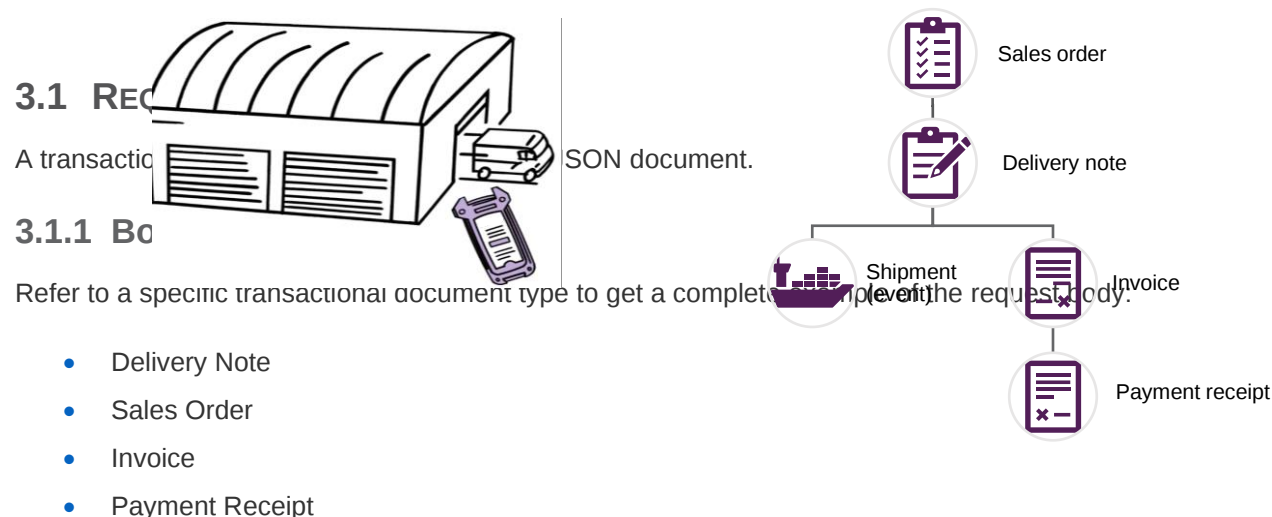
```

```
<readPoint>
  <id>urn:epc:id:sgln:1233367.19084.RP1</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:1233367.19084.0</id>
</bizLocation>
<ext:comment xmlns:ext="urn:inexto:extension:xsd">comment</ext:comment>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

3. TRANSACTIONAL DOCUMENTS

While the previous section was related to the events describing the physical flow of the tobacco products, this section further explains the transactional documents and the mechanisms available to manufacturers and supply chain operators to report information relevant for trading events and related documentation to the National T&T Repository.

As a shipment event will refer to a delivery note, the delivery note document must be provided prior to the shipment event.



3.1.2 Document Key

Transactional documents are identifiable by their document keys (i.e., value of the key property). The key looks like this: `urn:tracking-gov-com:doc:[Document Type]:uid:[SGLN].[Document Number]`.

For details, refer to the Document Key type section.

3.2 RESPONSE

There are two possible statuses returned in response to an authorized request to the National T&T Repository: successful (HTTP status 200) and failed (HTTP status 400).

A 400 response provides details on validation checks that prevented the request from being processed successfully.

3.2.1 Body

Field	Occurrence	Type	Example / Specific Value	Description
Detail	1	null		
Errors	1..n	Array of objects (nullable)		Returns a key-value pair for each validation error.
Key	1	enum	<i>ValidationError-ValidateUris-Key</i>	Displays the validation error code.
Value	1..n	Array of uString	["The data contract type cannot be deserialized because the required data member 'transmissionUid' was not found."]	Lists the details of the validation error.
Extensions	1..n	Array (nullable)		
Instance	1	null		Displays the validation error code.
Status	1	Integer	<i>200</i>	Displays the HTTP code.
Title	1	null		
TransmissionUid	1	uString	<i>f0275b4f-8573-4efe-9482-fc9208f5b408</i>	Returns

				transmissionUid from the request body.
Type	1	null		

3.2.2 Example of a Response to a Successful Transmission

```
{
  "Detail": null,
  "Errors": [],
  "Extensions": [],
  "Instance": null,
  "Status": 200,
  "Title": null,
  "TransmissionUid": "f0275b4f-8573-4efe-9482-fc9208f5b408",
  "Type": null
}
```

3.2.3 Example of a Response to a Failed Transmission

Invoice

```
{
  "Detail": null,
  "Errors": [
    {
      "Key": "ValidationError-ValidateUris-Key",
      "Value": [
        "The URI 'urn:tracking-gov-com:doc:dn:uid:0614141000029.50122617.0' is not supported"
      ]
    }
  ],
  "Extensions": [],
  "Instance": null,
  "Status": 400,
  "Title": null,
  "TransmissionUid": "f0275b4f-8573-4efe-9482-fc9208f5b408",
  "Type": null
}
```

}

3.3 DELIVERY NOTE

Provides logistical information for a shipment event and invoice, and should be associated with both. The corresponding document type in the key is dn.

Endpoint

PUT /gov/transactional/StoreDeliveryNote

Field	Occurrence	Type	Example / Specific Value	Description
transmissionUid	0..1	uString(255)	<i>f0275b4f-8573-4efe-9482-fc9208f5b408</i>	Uniquely identifies the transmission in the reporting system.
key	1	Document Key	<i>urn:tracking-gov-com:doc:dn:uid:1234567.89012.0.18390431</i>	Uniquely identifies the delivery note.
orderDateTime	1	Date Time Offset	<i>2021-08-30T18:30:00+02:00</i>	Indicates the date, time, and offset of the order.
expectedDeliveryDateTime	1	Date Time Offset	<i>2021-08-30T18:30:00+02:00</i>	Indicates the expected delivery date and time to monitor documents for which there are no linked events.
comment	0..1	uString(255)	<i>comment</i>	Provides a comment from the reporting system.
isInternalTransaction	1	Boolean	<i>true</i> or <i>false</i>	Indicates whether the business transaction is internal to the entity that generated the

				document (e.g., the goods can be "delivered" within the same company).
isOriginalCustomerDocument	1	Boolean	true or false	Indicates whether the business entity identified in the soldTo object is the final customer of the goods.
products	1..n	Product[]		Lists products.
stockOwner	1	Business Entity		Describes the stock owner.
soldTo	1	Business Entity		Describes the entity that the products were sold to.
destination	1	Business Entity		Describes the destination.
scanningLocation	1	Business Entity		Describes the scanning location, which at the reporting time must be already registered in master data.

Example:

```

{
  "transmissionUid": "f0275b4f-8573-4efe-9482-fc9208f5b407",
  "key": "urn:tracking-gov-com:doc:dn:uid:1234567.89012.0.18390431",
  "orderDateTime": "2021-08-30T18:30:00+02:00",
  "expectedDeliveryDateTime": "2021-08-30T18:30:00+02:00",
  "comment": "comment",
  "isInternalTransaction": false,
  "isOriginalCustomerDocument": true,
  "products": [
    {
      "gtin": "FA051144.04",
      "quantity": 94
    }
  ]
}

```

```

],
"stockOwner": {
  "sgln": "urn:epc:id:sgln:1233367.19084.0",
  "name": "Test Automation Owner One S.A.",
  "nameRomanized": "Test Automation Owner One S.A.",
  "address1": "al. Malczewskiego 32",
  "address1Romanized": "al. Malczewskiego 32",
  "address2": "aleja Orkana 84",
  "address2Romanized": "aleja Orkana 84",
  "zip": "92-518",
  "zipRomanized": "92-518",
  "city": "Piaseczno",
  "cityRomanized": "Piaseczno",
  "country": "PL",
  "coordinates": {
    "latitude": 46.519654,
    "longitude": 6.632273
  }
},
"soldTo": {
  "sgln": "urn:epc:id:sgln:0172913.56055.0",
  "name": "Test Automation Owner Two S.A.",
  "nameRomanized": "Test Automation Owner Two S.A.",
  "address1": "al. Spółdzielcza 663",
  "address1Romanized": "al. Spoldzielcza 663",
  "address2": "ul. Szewska 29",
  "address2Romanized": "ul. Szewska 29",
  "zip": "14-995",
  "zipRomanized": "14-995",
  "city": "Zduńska Wola",
  "cityRomanized": "Zdunska Wola",
  "country": "PL",
  "coordinates": {
    "latitude": 46.119654,
    "longitude": 1.132273
  }
},
"destination": {
  "sgln": "urn:epc:id:sgln:2132231.99145.0",
  "name": "Test Automation Location Two S.A.",
  "nameRomanized": "Test Automation Location Two S.A.",
  "address1": "ul. Pszenna 185",

```

```

    "address1Romanized": "ul. Pszenna 185",
    "address2": "al. Władysława Jagiełły 78/13",
    "address2Romanized": "al. Wladyslawa Jagielly 78/13",
    "zip": "58-936",
    "zipRomanized": "58-936",
    "city": "Płońsk",
    "cityRomanized": "Plonsk",
    "country": "PL"
  },
  "scanningLocation": {
    "sgln": "urn:epc:id:sgln:1233367.19084.0",
    "name": "Test Automation Location One S.A.",
    "nameRomanized": "Test Automation Location One S.A.",
    "address1": "ul. Chmielna 56",
    "address1Romanized": "ul. Chmielna 56",
    "address2": "al. Popiełuszki 58/32",
    "address2Romanized": "al. Popieluszki 58/32",
    "zip": "33-480",
    "zipRomanized": "33-480",
    "city": "Wałbrzych",
    "cityRomanized": "Walbrzych",
    "country": "PL"
  }
}

```

3.4 SALES ORDER

Notes:

- This document should be a sales order with the final customer who is receiving the goods (not an intercompany sales order).
- The delivery note(s) for the goods that are covered by a sales order **must** be provided in the relatedDocuments array.
- The corresponding document type in the key is so.

Endpoint

PUT /gov/transactional/StoreSalesOrder

Field	Occurrence	Type	Example / Specific Value	Description
transmissionUid	0..1	uString(255)	<i>f0275b4f-8573-4efe-9482-fc9208f5b407</i>	Uniquely identifies the transmission in the reporting system.
key	1	Document Key	<i>urn:tracking-gov-com:doc:so:uid:1234567.89012.0.03740263</i>	Uniquely identifies the sales order.
orderDateTime	1	Date Time Offset	<i>2021-08-30T18:30:00+02:00</i>	Indicates the date, time, and offset of the order.
comment	0..1	uString(255)	<i>comment</i>	Provides a comment from the reporting system.
isInternalTransaction	1	Boolean	<i>true</i> or <i>false</i>	Indicates whether the business transaction is internal to the entity that generated the document (e.g., the goods can be "sold" by a company to itself, indicating that it's not a real sale but a stock transfer).
isOriginalCustomerDocument	1	Boolean	<i>true</i> or <i>false</i>	If true indicate that the business entity identified in the soldTo section of the message is the final customer of the goods.
products	1..n	Product[]	<pre>[{ "gtin": "48394839242428", "quantity": 94 }, { ... }]</pre>	Lists products.

			<pre> }] </pre>	
relatedDocuments	1..n	Document Key[]	<pre> ["urn:tracking-gov- com:doc:dn:uid:1234567.89012.0.18390431", "...",] </pre>	Lists keys of delivery notes associated with the document.
stockOwner	1	Business Entity		Describes the stock owner.
soldTo	1	Business Entity		Describes the entity that the products were sold to.
destination	1	Business Entity		Describes the destination.
scanningLocation	0..1	Business Entity		Describes the scanning location, which at the reporting time must be already registered in master data.

Example:

```

{
  "transmissionUid": "f0275b4f-8573-4efe-9482-fc9208f5b407",
  "key": "urn:tracking-gov-com:doc:so:uid:1234567.89012.0.03740263",
  "orderDateTime": "2021-08-30T18:30:00+02:00",
  "comment": "comment",
  "isInternalTransaction": false,
  "isOriginalCustomerDocument": true,
  "products": [
    {
      "gtin": "48394839242428",
      "quantity": 94
    }
  ]
}

```

```

    }
  ],
  "relatedDocuments": [
    "urn:tracking-gov-com:doc:dn:uid:1234567.89012.0.18390431"
  ],
  "stockOwner": {
    "sgln": "urn:epc:id:sgln:1445131.02760.0",
    "name": "Test Automation Owner One S.A.",
    "nameRomanized": "Test Automation Owner One S.A.",
    "address1": "al. Malczewskiego 32",
    "address1Romanized": "al. Malczewskiego 32",
    "address2": "al. Orkana 84",
    "address2Romanized": "al. Orkana 84",
    "zip": "92-518",
    "zipRomanized": "92-518",
    "city": "Piaseczno",
    "cityRomanized": "Piaseczno",
    "country": "PL",
    "coordinates": {
      "latitude": 46.519654,
      "longitude": 6.632273
    }
  },
  "soldTo": {
    "sgln": "urn:epc:id:sgln:0172913.56055.0",
    "name": "Test Automation Owner Two S.A.",
    "nameRomanized": "Test Automation Owner Two S.A.",
    "address1": "al. Spółdzielcza 663",
    "address1Romanized": "al. Spoldzielcza 663",
    "address2": "ul. Szewska 29",
    "address2Romanized": "ul. Szewska 29",
    "zip": "14-995",
    "zipRomanized": "14-995",
    "city": "Zduńska Wola",
    "cityRomanized": "Zdunska Wola",
    "country": "PL",
    "coordinates": {
      "latitude": 16.519654,
      "longitude": 76.632273
    }
  },
  "destination": {

```

```

"sgln": "urn:epc:id:sgln:2132231.99145.0",
"name": "Test Automation Location Two S.A.",
"nameRomanized": "Test Automation Location Two S.A.",
"address1": "ul. Pszenna 185",
"address1Romanized": "ul. Pszenna 185",
"address2": "al. Władysława Jagiełły 78/13",
"address2Romanized": "al. Wladyslawa Jagielly 78/13",
"zip": "58-936",
"zipRomanized": "58-936",
"city": "Płońsk",
"cityRomanized": "Plonsk",
"country": "PL",
"coordinates": {
  "latitude": 6.519654,
  "longitude": 16.632273
}
},
"scanningLocation": {
  "sgln": "urn:epc:id:sgln:1233367.19084.0",
  "name": "Test Automation Location One S.A.",
  "nameRomanized": "Test Automation Location One S.A.",
  "address1": "ul. Chmielna 56",
  "address1Romanized": "ul. Chmielna 56",
  "address2": "al. Popiełuszki 58/32",
  "address2Romanized": "al. Popieluszki 58/32",
  "zip": "33-480",
  "zipRomanized": "33-480",
  "city": "Wałbrzych",
  "cityRomanized": "Walbrzych",
  "country": "PL",
  "coordinates": {
    "latitude": 22.519654,
    "longitude": 9.632273
  }
}
}

```

3.5 INVOICE

Notes:

- The document should be an invoice with the final customer who purchased the goods (not an intercompany invoice).
- The delivery note(s) for the goods that are covered by the invoice **must** be provided in the `relatedDocuments` array.
- The corresponding document type in the key is `iv`.

Endpoint**PUT** `/gov/transactional/StoreInvoice`

Field	Occurrence	Type	Example / Specific Value	Description
<code>transmissionUid</code>	0..1	<code>uString(255)</code>	<code>f0275b4f-8573-4efe-9482-fc9208f5b408</code>	Uniquely identifies the transmission in the reporting system.
<code>key</code>	1	Document Key	<code>urn:tracking-gov-com:doc:iv:uid:1234567.89012.0.19374772</code>	Uniquely identifies the invoice.
<code>invoiceType</code>	1	<code>String(100)</code>	<i>Original, Correction, Other</i>	Specifies the type of the invoice.
<code>invoiceDateTime</code>	1	Date Time Offset	<code>2021-08-30T18:30:00+02:00</code>	Indicates the date, time, and offset of the order.
<code>comment</code>	0..1	<code>uString(255)</code>	<i>comment</i>	Provides a comment from the reporting system.
<code>netAmount</code>	1	Decimal	<code>3324.32</code>	Specifies the total net amount.
<code>grossAmount</code>	1	Decimal	<code>5022.12</code>	Specifies the total gross amount.
<code>currency</code>	1	<code>String(3)</code>	<code>EUR</code>	Specifies the currency in ISO 4217:2015 (or its latest equivalent).
<code>products</code>	1..n	<code>Product[]</code>	<pre>[{ "gtin": "48394839242428", "quantity": 94 }]</pre>	Lists the invoiced products.

			<pre> }, { ... }] </pre>	
relatedDocuments	1..n	Document Key[]	<pre> ["urn:tracking-gov- com:doc:dn:uid:1234567.89012.0.18390431 ", "... "] </pre>	Lists the keys of delivery notes associated with the document.
seller	1	Business Entity Tax		Describes the seller.
buyer	1	Business Entity Tax		Describes the buyer.

Example:

```

{
  "transmissionUid": "f0275b4f-8573-4efe-9482-fc9208f5b408",
  "key": "urn:tracking-gov-com:doc:iv:uid:1234567.89012.0.19374772",
  "invoiceType": "Original",
  "invoiceDateTime": "2021-08-30T18:30:00+02:00",
  "comment": "comment",
  "netAmount": 3324.32,
  "grossAmount": 5022.12,
  "currency": "EUR",
  "products": [
    {
      "gtin": "48394839242428",
      "quantity": 94
    }
  ]
}

```

```

    }
  ],
  "relatedDocuments": [
    "urn:tracking-gov-com:doc:dn:uid:1234567.89012.0.18390431"
  ],
  "seller": {
    "sgln": "urn:epc:id:sgln:1445131.02760.0",
    "taxNumber": "23897423984798",
    "name": "Test Automation Owner One S.A.",
    "nameRomanized": "Test Automation Owner One S.A.",
    "address1": "al. Malczewskiego 32",
    "address1Romanized": "al. Malczewskiego 32",
    "address2": "al. Orkana 84",
    "address2Romanized": "al. Orkana 84",
    "zip": "92-518",
    "zipRomanized": "92-518",
    "city": "Piaseczno",
    "cityRomanized": "Piaseczno",
    "country": "PL",
    "coordinates": {
      "latitude": 46.519654,
      "longitude": 6.632273
    }
  },
  "buyer": {
    "sgln": "urn:epc:id:sgln:0172913.56055.0",
    "taxNumber": "230980954254098",
    "name": "Test Automation Owner Two S.A.",
    "nameRomanized": "Test Automation Owner Two S.A.",
    "address1": "al. Spółdzielcza 663",
    "address1Romanized": "al. Spoldzielcza 663",
    "address2": "ul. Szewska 29",
    "address2Romanized": "ul. Szewska 29",
    "zip": "14-995",
    "zipRomanized": "14-995",
    "city": "Zduńska Wola",
    "cityRomanized": "Zdunska Wola",
    "country": "PL",
    "coordinates": {
      "latitude": 16.519654,
      "longitude": 46.632273
    }
  }
}

```

```

    }
  }

```

3.6 PAYMENT RECEIPT

Notes:

- The invoice(s) for which the payment was received **must** be provided in the `relatedDocuments` array.
- The corresponding document type in the key is `pr`.

Endpoint

PUT `/gov/transactional/StorePaymentReceipt`

Field	Occurrence	Type	Example / Specific Value	Description
<code>transmissionUid</code>	0..1	uString(255)	<code>f0275b4f-8573-4efe-9482-fc9208f5b408</code>	Uniquely identifies the transmission in the reporting system.
<code>key</code>	1	Document Key	<code>urn:tracking-gov-com:doc:pr:uid:1234567.89012.0.83926492</code>	Uniquely identifies the payment receipt.
<code>paymentType</code>	1	String(100)	<code>bankTransfer, bankCard, etc.</code>	Specifies the type of the payment.
<code>paymentDateTime</code>	1	Date Time Offset	<code>2021-08-30T18:30:00+02:00</code>	Specifies when the payment occurred.
<code>comment</code>	0..1	uString(255)	<code>comment</code>	Provides a comment from the reporting system.
<code>amount</code>	0..1	Decimal	<code>1234.56</code>	The amount paid.
<code>currency</code>	1	String(3)	<code>EUR</code>	Specifies the currency in ISO 4217:2015 (or its latest equivalent).

relatedDocuments	1..n	Document Key[]	["urn:tracking-gov-com:doc:iv:uid:1234567.89012.0.19374772", "..."]	Lists keys of invoices associated with the document.
recipient	1	Business Entity Tax		Describes the recipient.
payer	1	Business Entity Tax		Describes the payer.

Example:

```
{
  "transmissionUid": "f0275b4f-8573-4efe-9482-fc9208f5b408",
  "key": "urn:tracking-gov-com:doc:pr:uid:1234567.89012.0.83926492",
  "paymentType": "bankTransfer",
  "paymentDateTime": "2021-08-30T18:30:00+02:00",
  "comment": "comment",
  "amount": 1234.56,
  "currency": "EUR",
  "relatedDocuments": [
    "urn:tracking-gov-com:doc:iv:uid:1234567.89012.0.19374772"
  ],
  "recipient": {
    "sgln": "urn:epc:id:sgln:1445131.02760.0",
    "taxNumber": "23897423984798",
    "name": "Test Automation Owner One S.A.",
    "nameRomanized": "Test Automation Owner One S.A.",
    "address1": "al. Malczewskiego 32",
    "address1Romanized": "al. Malczewskiego 32",
    "address2": "al. Orkana 84",
    "address2Romanized": "al. Orkana 84",
    "zip": "92-518",
    "zipRomanized": "92-518",
    "city": "Piaseczno",
    "cityRomanized": "Piaseczno",
  }
}
```

```
"country": "PL",
"coordinates": {
  "latitude": 46.519654,
  "longitude": 6.632273
}
},
"payer": {
  "sgln": "urn:epc:id:sgln:0172913.56055.0",
  "taxNumber": "23098092384098",
  "name": "Test Automation Owner Two S.A.",
  "nameRomanized": "Test Automation Owner Two S.A.",
  "address1": "al. Spółdzielcza 663",
  "address1Romanized": "al. Spoldzielcza 663",
  "address2": "ul. Szewska 29",
  "address2Romanized": "ul. Szewska 29",
  "zip": "14-995",
  "zipRomanized": "14-995",
  "city": "Zduńska Wola",
  "cityRomanized": "Zdunska Wola",
  "country": "PL",
  "coordinates": {
    "latitude": 16.519654,
    "longitude": 36.632273
  }
}
}
```

4. VALIDATION

4.1 MESSAGE STRUCTURE

Performed on: [EVENTS](#) [DOCUMENTS](#) [MASTER DATA](#)

Error keys:

```
ValidationError-ValidateUri-{Field Name}  
ValidationError-ValidateBizLocationSuffix-bizLocation  
ValidationError-CheckBizLocationReadPointMatch-bizLocation
```

Fields and their values must be in the scope of the event, transactional document, or master data insert you are reporting to the National T&T Repository.

Each event, transactional document, and master data insert is checked against its specifications. This means, you should use only the specified fields, and in the defined format, for a given event, transactional document, and master data insert. Additionally, the fields in events must follow the order defined in the event specification.

In case of a validation error, the response to your request to the National T&T Repository tells you the details of what went wrong.

Example #1: An aggregation event should have a parentID value, which is not permitted for shipment events.

Example #2: The key for the delivery note should indicate the dn type, the key for the invoice should indicate the iv type, etc.

Example #3: The bizStep field should provide the value depending on the event:

Event	bizStep
Code Pairing	urn:tracking-gov-com:bizstep:code_pairing
Commissioning	urn:epcglobal:cbv:bizstep:commissioning
Aggregation	urn:epcglobal:cbv:bizstep:packing

Decommissioning	urn:epcglobal:cbv:bizstep:decommissioning
Disaggregation	urn:epcglobal:cbv:bizstep:unpacking
Finished Goods Registration	urn:tracking-gov-com:bizstep:registeringFinishedGoods
Shipment	urn:epcglobal:cbv:bizstep:shipping
Receipt	urn:epcglobal:cbv:bizstep:receiving
Importing	urn:tracking-gov-com:bizstep:importing
Tax Registration	urn:tracking-gov-com:bizstep:registeringTax
Destruction	urn:epcglobal:cbv:bizstep:destroying

Error Example (Events):

```
<Response xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <TransmissionUid>missing</TransmissionUid>
  <Status>400</Status>
  <Errors>
    <KeyValue>
      <Key>ValidationError-ValidateBizLocationSuffix-bizLocation</Key>
      <Value>
        <string>BizLocation 'urn:epc:id:sgln:1233367.19084.5' must end with .0 suffix.</string>
      </Value>
    </KeyValue>
  </Errors>
</Response>
```

Error Example (Documents & Master Data):

```
{
  "Detail": null,
  "Errors": [
```

```
{
  "Key": "ValidationError-ValidateUris-Sgln",
  "Value": [
    "The URI 'urn:epc:id:giai:0614141.12345400' is not supported"
  ]
},
"Extensions": [],
"Instance": null,
"Status": 400,
"Title": null,
"TransmissionUid": "missing",
"Type": null
}
```

4.2 PRODUCT VERIFICATION

Performed on: [EVENTS](#)

Error keys:

```
ValidationError-ProductRegistrationValidation-epcList
ValidationError-ValidateQuantities-parentID
ValidationError-ValidateQuantities-childEPCs
```

All item codes encoded as EPC SGTIN are being validated for the product. This validation applies to all events.

Product is information you associate your items with through a GTIN. A GTIN uniquely identifies a product in master data. Items reported in events need to be encoded as EPC SGTINs. A GTIN must be recorded in the National T&T Repository's master data before you can report an event with item codes associated with that GTIN.

Note that the National T&T Repository requires you to:

- Use GTIN to register product master data.
- Use EPC SGTIN to report item codes in events.

Error Example:

```
<Response xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <TransmissionUid>missing</TransmissionUid>
  <Status>400</Status>
  <Errors>
    <KeyValue>
      <Key>ValidationError-ProductRegistrationValidation-epcList</Key>
      <Value>
        <string>GTIN for EPC urn:epc:id:sgtin:9209033.358989.e1HzGTsD5rGh is unknown. Please register Product.</string>
      </Value>
    </KeyValue>
  </Errors>
</Response>
```

4.3 SCANNING LOCATION VERIFICATION

Performed on: EVENTS**Error key:**

```
ValidationError-BusinessEntityRegistrationValidation-BusinessLocationType
```

The scanning location of an event is provided in the `readPoint` field as an SGLN without the extension part. For example, `urn:epc:id:sgln:8394192.19084.0` is the scanning location read from the value `urn:epc:id:sgln:8394192.19084.123`.

Each of the scanning locations you use in events must previously be recorded in the National T&T Repository's master data. Otherwise, the National T&T Repository will not accept your event.

Difference between `readPoint` & `bizLocation`

The value of the `readPoint` field indicates the specific place within a facility, where an event took place. The value in the `bizLocation` field points to the business owning that facility.

The readPoint value (without the extension part) is compared with scanning location master data. For example, if you used urn:epc:id:sgln:1233367.19084.RP1 as a readPoint, there should be a scanning location registered with the SGLN urn:epc:id:sgln:1233367.19084.0 in your master data.

In case of SGLN used in both fields, the values should point to the same scanning location (i.e., values differ only in the extension part).
In case of SGLN used for bizLocation and GIAI used for readPoint, the values should have the same company prefix.

	readPoint	bizLocation
	Identifies the specific location where an event took place, at a bizLocation.	Identifies the organization to which products can be associated.
SGLN	ALLOWED	ALLOWED
SGLN Extension	Cannot be .0	Must be .0
Example urn:epc:id:sgln:1233367.19084.0	NOT ALLOWED	ALLOWED
Example urn:epc:id:sgln:1233367.19084.RP1	ALLOWED	NOT ALLOWED
SGLN Rules	All readPoint SGLNs MUST be recorded in scanning location master data. - readPoint SGLNs must correspond to a registered bizLocation. - readPoint and the bizLocation are associated by [Company Prefix].[Location Reference]	All bizLocation SGLNs MUST be recorded in scanning location master data. bizLocation SGLNs are registered in the format [Company Prefix].[Location Reference].0 Example: bizLocation SGLN urn:epc:id:sgln:1233367.19084.0

	Example: readPoint associated with bizLocation urn:epc:id:sgln:1233367.19084.RP1	
GIAI	ALLOWED	NOT ALLOWED
GIAI Rules	The company prefix should match the company prefix of the SGLN in the bizLocation field.	

Error Example:

```
<Response xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <TransmissionUid>071cc322-badb-47bc-8687-8bce893b5e54</TransmissionUid>
  <Status>400</Status>
  <Errors>
    <KeyValue>
      <Key>ValidationError-BusinessEntityRegistrationValidation-BusinessLocationType</Key>
      <Value>
        <string>Read Point urn:epc:id:sgln:5917141.87835.RP is unknown. Please register Business Entity.</string>
      </Value>
    </KeyValue>
  </Errors>
</Response>
```

4.4 ITEM AGGREGATION VERIFICATION

Performed on: EVENTS**Error key:**

ValidationError-ValidateQuantities-childEPCs

In aggregation events, the number of children under the parentID must match the quantity defined in the National T&T Repository's master data for the product you have defined for that parentID.

Product master data is hierarchical. So product A contains a number of units of product B, which on its part includes a number of units of product C. Now, that number of units (quantity) is important to determine whether information you provide in aggregation events is consistent with master data.

For example, you report an aggregation of 10 units of product B into a container of product A. But master data has recorded that product A includes 20 units of product B. At this point, the National T&T Repository would respond with a validation error.

Error Example:

```
<Response xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <TransmissionUid>missing</TransmissionUid>
  <Status>400</Status>
  <Errors>
    <KeyValue>
      <Key>ValidationError-ValidateQuantities-childEPCs</Key>
      <Value>
        <string>Number of child items (10) does not match quantity of parent (urn:epc:id:sgtin:9209033.258989.e1HzGTsD5rGh) GTIN
(29209033589895) product. The recorded Quantity for this product is: 20.</string>
      </Value>
    </KeyValue>
  </Errors>
</Response>
```

5. GLOSSARY OF TERMS AND ABBREVIATIONS

Term	Definition
EPC	Electronic Product Code / Electronic Package Code
EPCIS	Electronic Product Code Information Services
FCTC	Framework Convention on Tobacco Control
GDTI	GS1 Global Document Type Identifiers https://www.gs1.org/standards/id-keys
GZIP	Data compression method
HTTP	Hyper Text Transport Protocol
SFTP	Secure File Transfer Protocol
SGTIN	GS1 Serial Global Trading Identification Number https://www.gs1.org/standards/id-keys
SGLN	GS1 Global Location Number (with or without extension) https://www.gs1.org/standards/id-keys
SSCC	GD1 Serial Shipping Container Code https://www.gs1.org/standards/id-keys
URI	Uniform Resource Identifier
URL	Uniform Resource Locator
UTC	Coordinated Universal Time
XML	Extensible Mark-up Language