Technical Guide for Logistics

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1 Document Control

1.1 Version History

Version	Date	Description of Change	Author / Company
1.0	13-Dec-2021	Initial Release.	Movilitas
2.0	17-Mar-2022	Minor updates after MoHAP and 3PL review.	Movilitas
3.0	30-May-2022	Additional features added.	Movilitas

Table 1 Version History

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2 Introduction

The UAE's Governmental department for healthcare and prevention - MoHAP has published legislation that defines the Serialisation and Track and Trace (T&T) requirements for all participants involved in manufacturing, distributing and dispensing of pharmaceutical products. This legislation:

- Defines the specific categories of products relevant to the legislation.

- Applies to the entirety of the UAE territory.

- It becomes effective:

    o Immediately prior to foreign product importation into the UAE.

    o Immediately prior to domestic manufacture release into the UAE.

- Concludes with dispensing to patients/consumers.

- Manages exceptions such as product recalls.

This legislation is driven by the need to maintain and improve patient safety whilst at the same time reduce counterfeits within the UAE.

Tatmeen is the Information Technology (IT) regulatory system that will support the UAE T&T legislation to the pharmaceutical industry. All products placed on the UAE market need to display a serialised unique identifier on the product secondary packaging. Also aggregated packaging (aggregated homogenous products or logistics unit) must display a serialised unique identifier. The appropriate serialised identifiers must be used to record the operational and transactional movements of the products throughout the supply chain and during dispensing to the patient / consumer.

The information recorded by the participants must be transmitted to the Tatmeen traceability system where it is stored. The stored data is made available for regulatory purposes to the authorities of the UAE MoHAP departments.

2.1 Scope of Document

The purpose of this document is to define the information that must be sent under the MoHAP regulations to the Tatmeen traceability system by logistics supply chain participants involved in the movement of medical products for the following processes:

1. Importation Into UAE: Initial Receipt of Goods for import clearance and customs release.

2. Sampling for Import Clearance and Customs Release / Market Release.

3. Domestic Manufacturing for UAE, staging for release.

4. Product transfer between stock holding owners and locations within the UAE.

5. Product hierarchy update within the UAE.

6. Product status update within the UAE.

7. Export of product from the UAE.

8. Destruction of product within the UAE.

These processes are the first draft of this technical guide and it is expected that additional processes will be added in future versions of this document, as appropriate.

2.1.1 In Scope

This guide covers the technical onboarding of organizations to the Tatmeen solution.

2.1.2 Out of Scope

The guide makes reference to systems external to the Tatmeen system and the onboarding to those external systems is not included in this guide.

Automatic processes within the Tatmeen solution are not covered within this guide.

2.2 Document Structure

The document follows the outline in Table 2.

Section	Content
Section 2	Introduction and Context.
Section 3	Message guidelines and specifications: • EPCIS message events. • EPCIS message status.
Section 4	Technical API Guidelines, providing usage guidelines for the technical API to submit data to the Tatmeen traceability system.
Section 5	Message Formats and examples of messages.

Table 2 Document Structure

2.3 Target Participants

The following stakeholders / participants for the Section 2.1 in scope processes are responsible for collecting serialised product item traceability records during the storing and moving of pharmaceutical products within the UAE market.

Participant	Description
3PL	The Third Party Logistics (3PL) participant is a logistics partner that is: • Physically located outside the UAE, and/or • Located in the UAE Free Trade Zone, and/or • Registered with GS1 as a 3PL partner. Similar to a Distributor, they may participate with handling and storing imported products immediately prior to the customs clearance process. This is based on the product delivery Incoterms.
Dispenser	A partner providing pharmacy services to provide accurate, timely and qualitative medical product dispensing services to registered patients.
Distributor	The Distributor is a supply chain partner representing a location for storing medical product and can have a MoHAP license for medical product importation; distribution storage.
Domestic Manufacturer	A domestic manufacture is a manufacturing entity located in the UAE supplying goods to the UAE market. A domestic manufacturer may also be the MAH.
MAH	Marketing Authorisation Holder is the company or other legal entity that has the authorization granted by MoHAP to market a medicine in the UAE.

Table 3 Document Stakeholders

2.4 Prerequisites

Please refer to the Technical Onboarding Guide to ensure the following prerequisites are met:

• Product Registration:

All products subject to the UAE MoHAP legislation (registered drugs; unregistered drugs) should be known in the appropriate MoHAP / Federal system and these should also be known in the GS1 BrandSync master data system. This product's information is synchronised between the BrandSync system and the Tatmeen solution.

- <u>Entity Registration</u>:
    - o All Distributors (and relevant 3PL's) involved in the storage or distribution of medical products should be known as supply chain partners and should be allocated a GS1 Global Location Number (GLN).

3 Message Guidelines

This section describes the messaging responsibilities of the participants for the processes in Section 2.1 according to the following scenarios.

- Importation to UAE, Initial Receipt of Goods.

- Sampling for Customs Release / Market Release.

- Product transfer between stock holding owners and locations within the UAE.

- Product hierarchy update within the UAE.

- Product status update within the UAE.

- Destruction of product within the UAE.

The following general principles for stakeholders in Section 2.3 reporting to the Tatmeen solution to meet the MoHAP legislation are:

- Logistics supply chain partners (Distributors) must report the relevant event serialisation information immediately when the physical event is completed.

- Messages that are sent to the Tatmeen platform must be constructed according to the GS1 EPCIS standards defined in this technical guide.

- A single event activity is represented by a single GS1 event document with the exception of scenario of packing into a new SSCC parent.

3.1 Importation to UAE - Initial Receipt of Goods

This section describes the reporting scenario for UAE Distributors that participate in the importation of foreign goods into the UAE market. The Distributor is the partner entity that must report the initial receipt of the goods into the UAE prior to import clearance and customs release by MoHAP and Federal Customs. All serialised pharmaceutical products subject to MoHAP legislation must not physically enter the UAE market without having completed this reporting.
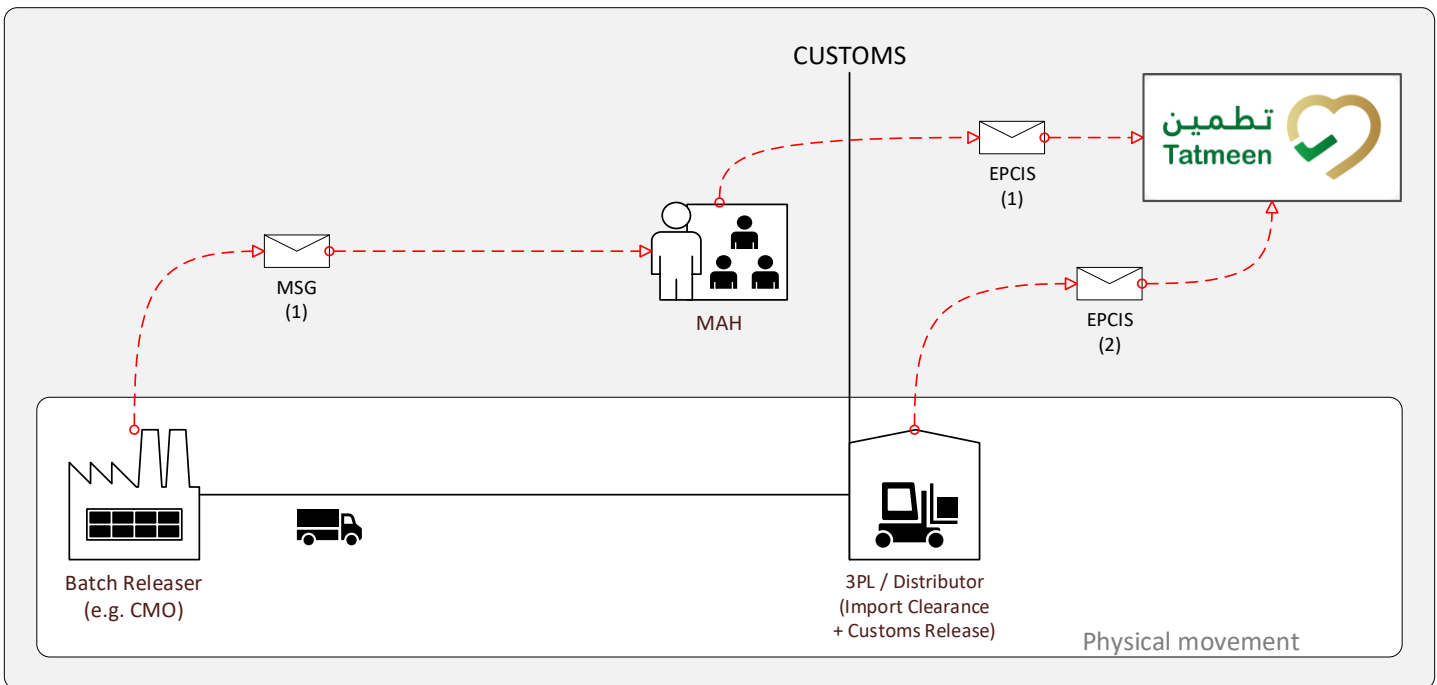
Figure 1 Importing Registered Drugs, Initial Receipt

3.1.1 Business Process Outline

This outline refers to Figure 1, above.

1. The MAH or their delegated technical representative must notify the UAE located Distributor (or where Incoterms dictate, the 3PL) once the importation EPCIS message(s) ("*EPCIS (1)*" in Figure 1) is successfully sent to the Tatmeen solution. The description of this messaging is described in the Tatmeen Technical Guide for Manufacturers and is not described in this document.

2. On subsequent receipt of the physical goods and the confirmation in the previous step, the UAE located Distributor (or where Incoterms dictate, the 3PL) must send an EPCIS message ("*EPCIS (2)*" in Figure 1) to the Tatmeen solution to receive the goods into the UAE market location in preparation of import clearance and customs release.

3. Once the imported product is successfully receipted into the Distributor (or where Incoterms dictate, the 3PL) location and reported to the Tatmeen solution, then the goods are sampled and inspected as appropriate at the Distributor (or where Incoterms dictate, the 3PL) location.

4. The Distributor (or where Incoterms dictate, the 3PL) must send any events for activities such as sampling and inspecting, that are conducted on behalf of the MoHAP

and Federal Customs inspectors during the import clearance and customs release processes.

5. Note the import clearance and customs release events are not recorded by the Distributor (or where Incoterms dictate, the 3PL) but instead are recorded by the relevant MoHAP and/or Federal Customs inspector.

3.1.2 Constraints and Validations

Failure to report this critical event means the goods are blocked to the UAE market therefore the Tatmeen solution expects to receive from the Distributor:

1. A single EPCIS message for a full / partial delivery receipt that defines the serialised product items for importation.

2. Each EPCIS message must contain an EPCIS Header, that specifies:

    a. A unique message identifier that is generated by the Distributor and is used to identify each EPCIS message.

    b. The message creation date and time.

    c. The message sender information, i.e., the Distributor GLN.

    d. The identifier for the relevant Tatmeen system that will receive the EPCIS message.

3. Each EPCIS message must consist of a single GS1 "receiving" EPCIS event recorded in the message and follows the structure below.
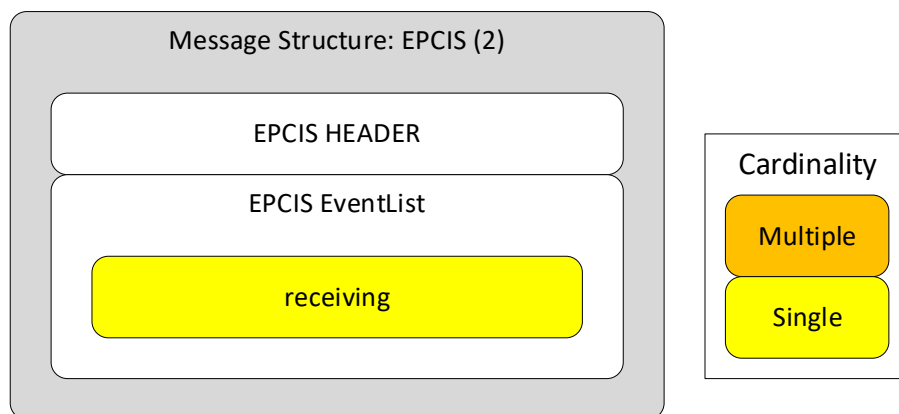
Figure 2 Importation Receipt EPCIS Message Structure

4. Only the top level hierarchy serialisation ID's are included in the receipt message.

3.2 Sampling for Customs Release / Market Release

There are numerous situations during operational logistics where a Distributor selects a small number of products items as samples for inspection purposes. These include (but not limited to):

- Import clearance sampling for product verification.

- Customs release sampling for product verification.

- Quality control.

3.2.1 Business Process Outline

The following steps outline the process for sampling at the Distributor location in the UAE.

1. During the sampling process the Distributor must capture the individual unique top level serialised tracking identifiers for the samples pharmaceutical product items.

    a. Item SGTIN

    b. Product Lot/Batch

    c. Serial Shipping Container Codes (SSCCs)

2. The Distributor must send an EPCIS document to the Tatmeen solution containing the serialised identifiers captured in the previous step. This document consists of the EPCIS event that then registers the specific items as sampled items so they are not available for dispensing in the UAE market.

3.2.2 Constraints and Validations

1. The Distributor must hold the pharmaceutical stock at their location immediately prior to changing the status.

2. A single EPCIS message must be sent that defines the sampling activity.

3. Each EPCIS message must contain an EPCIS Header, that specifies:

    a. A unique message identifier that is generated by the Distributor and is used to identify each EPCIS message.

    b. The message creation date and time.

    c. The message sender information, i.e., the Distributor.

    d. The identifier for the relevant Tatmeen system that will receive the EPCIS message.

4. Each EPCIS message must consist of a single GS1 "inspecting" EPCIS event recorded in the message and follows the structure below.
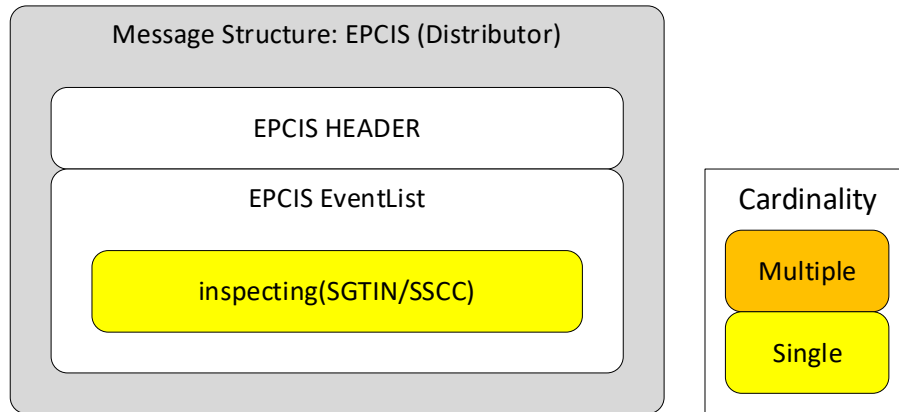
Figure 3 Sampling EPCIS Message Structure

5. Only the top level hierarchy ID's (SGTIN/SSCC) are included in the sample inspecting message.

3.3 Product Transfer Between Locations

Product transfers between locations registers the fundamental shipment and receipt of serialised products between those locations including any change of ownership. This transfer registration of the top level serialised product items or logistics unit must be reported to the Tatmeen system by both the sending and receiving parties.

Product Transfer process covers the following processes:

- Shipment
- Return - when shipment is rejected by the receiver, the receiver should receive the shipment and then use Return to ship back.

3.3.1 Business Process Outline

The following steps outline the process for transfer between locations in the UAE.

1. The Distributor initiating the product transfer (SENDER) must capture the individual unique top level serialised tracking identifiers for the pharmaceutical product items to be transferred.

    a. Item SGTIN

    b. Serial Shipping Container Codes (SSCCs)

2. The SENDER must send an EPCIS document to the Tatmeen solution containing the serialised identifiers captured in the previous step. This document contains the single EPCIS event that then registers the specific items as shipped items so they are no longer located at the SENDER location.

3. When the physical product items arrive at the intended destination, the receiving Distributor (RECEIVER) must capture the same top level tracking identifiers.

4. The RECEIVER must send an EPCIS document to the Tatmeen solution containing the serialised identifiers captured in the previous step. This document contains the single EPCIS event that then registers the specific items as received into stock at the RECEIVER location.

3.3.2 Constraints and Validations

The Tatmeen solution expects to receive a message firstly from the SENDER distributor and then at some later time the corresponding RECEIVER message. Failure to receive both messages will block the product items from being dispensed.

1. A single EPCIS message for a full / partial shipment that defines the serialised product items for transfer to another location.

2. A single EPCIS message for a full / partial receipt that defines the arrival of the serialised product items at the destination location.

3. Each EPCIS message must contain an EPCIS Header, that specifies:

    a. A unique message identifier that is generated by the Distributor and is used to identify each EPCIS message.

    b. The message creation date and time.

    c. The message sender information, i.e., the SENDER/RECEIVER GLN.

    d. The identifier for the relevant Tatmeen system that will receive the EPCIS message.

4. Each EPCIS message must consist of either:

   a. A single GS1 "shipping" EPCIS event recorded in the message and follows the structure below.
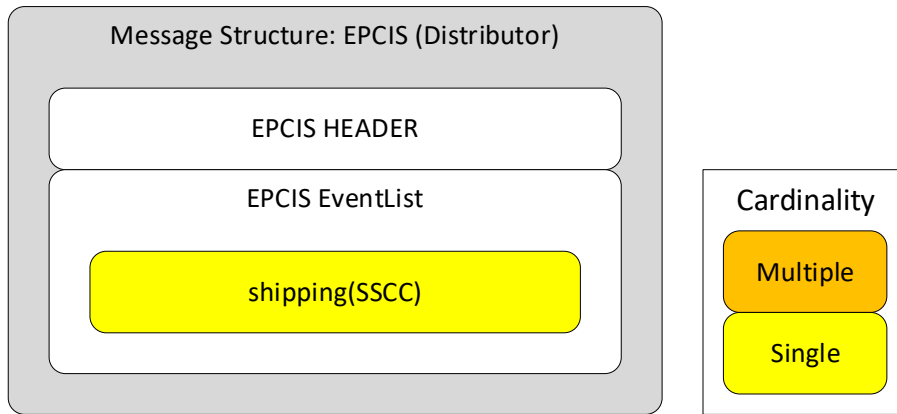
Figure 4 SENDER EPCIS Message Format

b. A single GS1 "receiving" EPCIS event recorded in the message and follows the structure below.
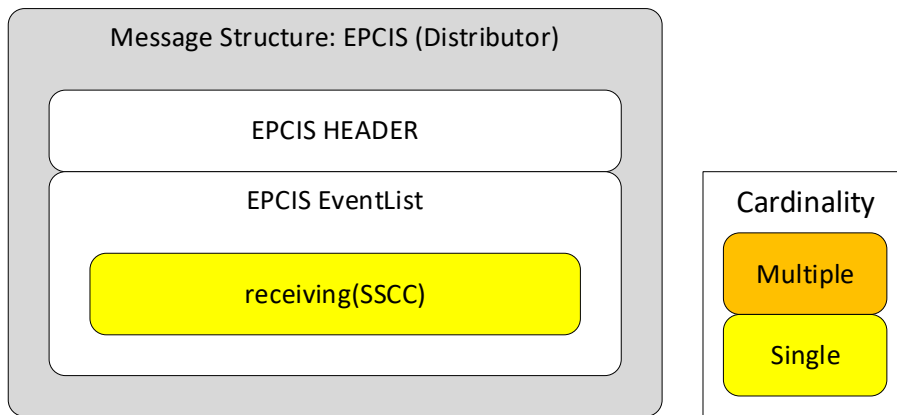
Figure 5 RECEIVER EPCIS Message Structure

5. Only the top level hierarchy serialisation ID's are included in each of the shipping and receiving messages.

3.4 Product Hierarchy Update Within UAE

A product hierarchy update consists of one of two operations at a Distributor location.

- Pack (consolidation of new aggregation structure)
- Unpack (deconsolidation of existing aggregation structure)

Aggregation is defined by the relationship between a parent item and children item(s). The Distributor must note that defining a new parent that has not been previously registered

in the Tatmeen solution requires that the top level (parent) identifier must first be registered before the aggregation activity is recorded. At a Distributor location this is only allowed for logistics units (SSCC).

Pack and Unpack activities with the supply chain must trigger reporting to inform the Tatmeen solution of the product hierarchy relationship changes.

3.4.1 Pack New SSCC

3.4.1.1 Business Process Outline

The following steps outline the process for packing product items into a new logistics unit (SSCC).

1. During the supply chain logistics process to pack serialised product items into a new logistics units the SSCC label for the serialised logistics unit is generated. The new SSCC serialised identifier is captured to register the new identifier.

2. During the physical packing activities, the Distributor must capture the serialised product item serialised items (SGTIN / SSCC) that are associated with the top level identifier.

3. The Distributor must send an EPCIS document to the Tatmeen solution containing the serialised identifiers captured in the previous step. This document contains:

    a. The EPCIS commissioning event that then registers the new SSCC parent so it is known to the Tatmeen solution.

    b. The EPCIS packing event that then registers the parent/child relationship between the new SSCC and the captured child identifiers.

3.4.1.2 Constraints and Validations

1. The Distributor must hold the pharmaceutical stock at their location immediately prior to changing the hierarchy.

2. A pair of EPCIS messages must be sent that defines:

    a. The creation of the SSCC identifier.

    b. The new parent/child association with the new SSCC as parent.

3. Each EPCIS message must contain an EPCIS Header, that specifies:

    a. A unique message identifier that is generated by the Distributor and is used to identify each EPCIS message.

b. The message creation date and time.

c. The message sender information, i.e., the logistics Distributor GLN.

d. The identifier for the relevant Tatmeen system that will receive the EPCIS message.

4. Each EPCIS document must consist of the pair of EPCIS events recorded according to the structure below.
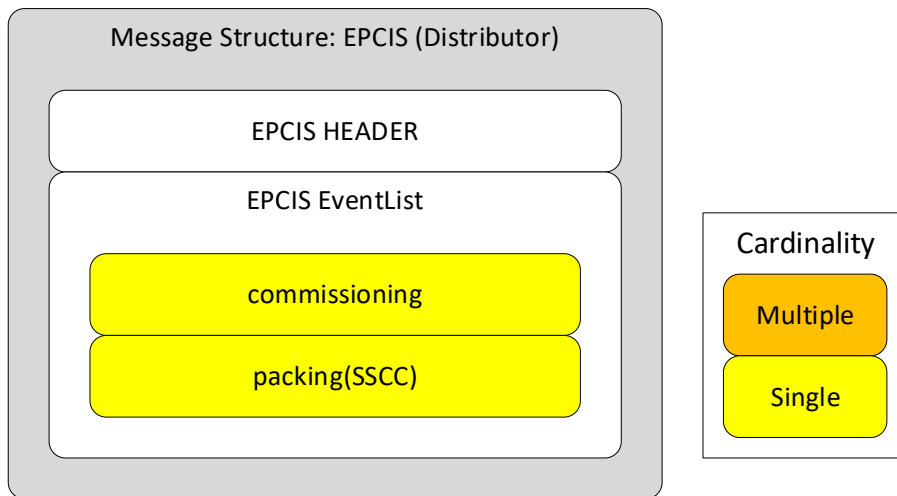
Figure 6 Pack to New SSCC - EPCIS Document Structure

3.4.2 Unpack Existing Hierarchy

3.4.2.1 Business Process Outline

The following steps outline the process for unpacking product items from an existing logistics unit (SSCC) or aggregated level SGTIN product item.

1. During the supply chain logistics process to unpack serialised product items from an existing structure the Distributor must capture the serialised product item identifier of the top level item.

2. The Distributor must send an EPCIS document to the Tatmeen solution containing the serialised identifiers captured in the previous step. This document contains a single EPCIS message that then registers the disassociation of the next level child items from the parent identifier. The parent identifier may no longer be used.

3.4.2.2 Constraints and Validations

1. The Distributor must hold the pharmaceutical stock at their location immediately prior to changing the hierarchy.

2. Each EPCIS message must contain an EPCIS Header, that specifies:

    a. A unique message identifier that is generated by the Distributor and is used to identify each EPCIS message.

    b. The message creation date and time.

    c. The message sender information, i.e., the logistics Distributor GLN.

    d. The identifier for the relevant Tatmeen system that will receive the EPCIS message.

3. Each EPCIS document must consist of a single GS1 "unpacking" EPCIS event recorded in the message and follows the structure below.
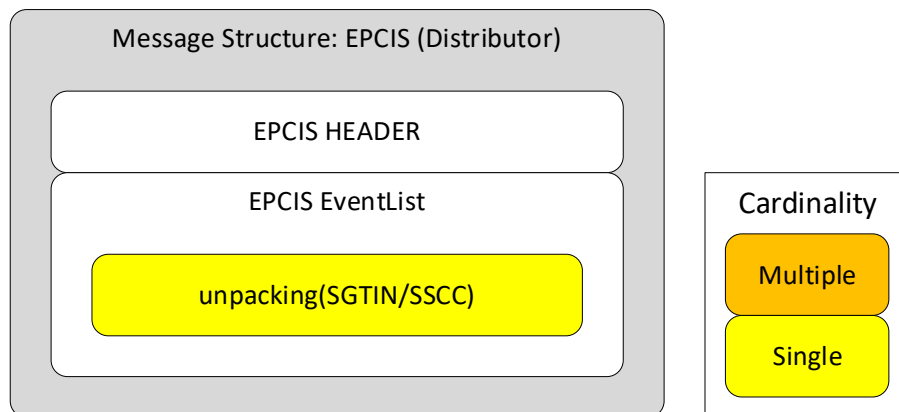
Figure 7 Unpack EPCIS Document Structure

3.5 Product status update within the UAE

Serialised product items can have the item status changed if they are:

- Known to the Tatmeen solution.

- Located at a licensed UAE Distributor.

3.5.1 Business Process Outline

The following steps outline the process for product item status change to restrict unsuitable product items from dispensing.

1. During the logistics process to change the status of any serialised product item, the Distributor must capture the individual unique top level tracking identification

    a. Item SGTIN

    b. Product Lot/Batch

    c. Serial Shipping Container Codes (SSCCs)

2. The Distributor must send an EPCIS document to the Tatmeen solution containing the serialised identifiers captured in the previous step. This document contains a single EPCIS message that then registers the specific items for status change so they are not available for dispensing in the UAE market.

3.5.2 Constraints and Validations

1. The Distributor must hold the pharmaceutical stock at their location immediately prior to changing the status.

2. A single EPCIS message must be sent that defines the status change.

3. Each EPCIS message must contain an EPCIS Header, that specifies:

    a. A unique message identifier that is generated by the Distributor and is used to identify each EPCIS message.

    b. The message creation date and time.

    c. The message sender information, i.e., the exporting Distributor GLN.

    d. The identifier for the relevant Tatmeen system that will receive the EPCIS message.

4. Each EPCIS message must consist of a single GS1 status change EPCIS event recorded in the message and follows the structure below using the Business Step and Disposition identified in Table 4.
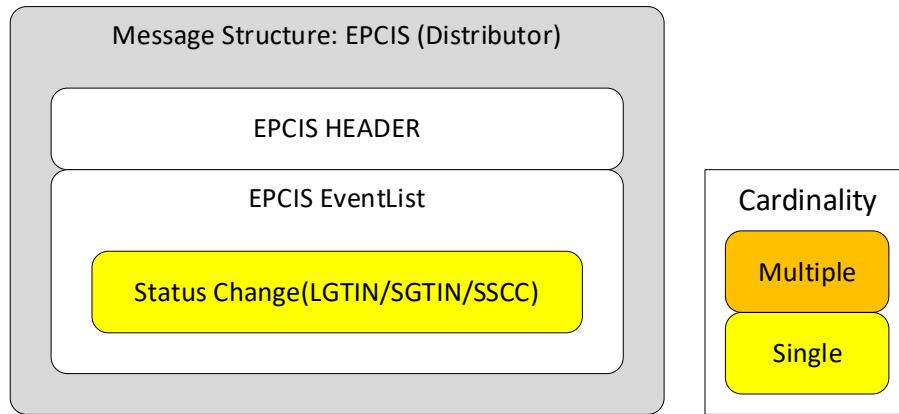
Figure 8 Status Change EPCIS Message Structure

Case	Business Step	Disposition
Block	UPDATING	BLOCKED
Unblock	UPDATING	UNBLOCKED
Recalled	UPDATING	RECALLED
Export	DECOMMISSIONING	NON_SELLABLE_OTHER

Table 4 Status Change Parameters

5. Only the top level hierarchy ID's (LGTIN/SGTIN/SSCC) are included in the status change message.

3.6 Destruction of product within the UAE

Destruction is a logistics operation that removes previously valid and authentic products from the market for a variety of situations.

- No dispensing of any destroyed products is possible
- Also no transfer is possible when blocked for destruction.

The following destruction scenarios are included for Distributors:

- Destruction: product is identified for destruction for any number of reasons.
- Damaged: product is identified as damaged and unfit for further distribution.
- Stolen: missing product is identified as stolen and must be reported accordingly.

- Lost / Missing: previously known items can no longer be located and therefore missing.

3.6.1 Business Process Outline

The following steps outline the process for exporting from the UAE.

1. During the process to record the destruction/removal of product item identifiers from record, the Distributor must capture the individual unique top level tracking identifiers either by scanning or from internal records.

2. The Distributor must send an EPCIS document to the Tatmeen solution containing the serialised identifiers captured in the previous step. This document contains a single EPCIS message for the appropriate destruction activity that then registers the specific items destruction in the Tatmeen system and further blocking the items for dispensing in the UAE market.

3.6.2 Constraints and Validations

1. The last known location of the serialised product items must be the Distributor reporting the destruction activity.

2. A single EPCIS document must be sent that reports the relevant destruction scenario of the identified serialised IDs.

3. Each EPCIS message must contain an EPCIS Header, that specifies:

    a. A unique message identifier that is generated by the Distributor and is used to identify each EPCIS message.

    b. The message creation date and time.

    c. The message sender information, i.e., the reporting Distributor GLN.

    d. The identifier for the relevant Tatmeen system that will receive the EPCIS message.

4. Each EPCIS message must consist of a single GS1 destruction EPCIS event (see Table 5 for event context) recorded in the document and follows the structure below.
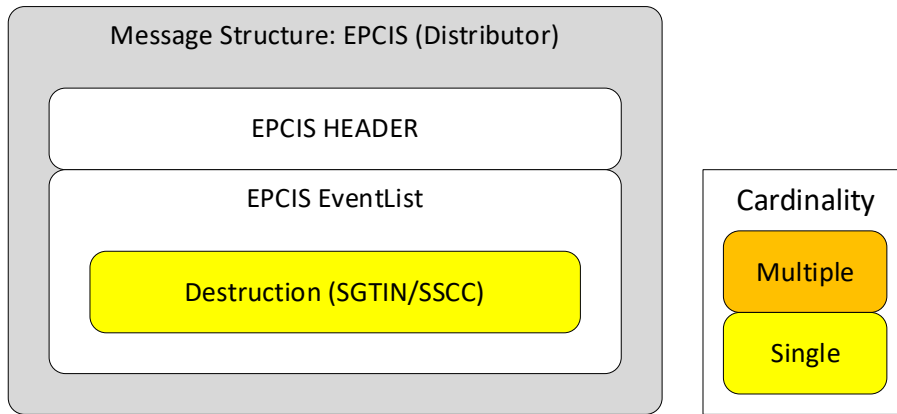
Figure 9 Destruction EPCIS Message Structure

Case	Business Step	Disposition
Destruction	DESTROYING	DESTROYED
Damaged	DECOMMISSIONING	DESTROYED
Stolen	DECOMMISSIONING	STOLEN
Lost	DECOMMISSIONING	INACTIVE

Table 5 Destruction Parameters

5. Only the top level hierarchy ID's (SGTIN/SSCC) are included in the destruction message.

4 API Specification

During the business partner onboarding process, the Single Point of Contact (SPOC) will be registered and the SPOC then manages the API subscription to enable electronic submission of messages to the Tatmeen solution. This section describes the following:

- API Subscription

- Service APIs

- Message Formats

- Message Status Formats

- Message Acknowledgements

4.1 API Subscription

To be able to subscribe to the Tatmeen solution APIs, the following steps must be followed.

1. The business partner (Distributor) SPOC must register a single technical user following the user registration process in the Tatmeen Technical Onboarding Guide.

2. Once approval for the user is given, the technical user credentials (sign-on ID and password) are created in the Tatmeen solution and authorised for messages that reference the business partner GLN.

3. The SPOC provides these credentials to their technical team to subscribe to the Tatmeen APIs. During subscription the Tatmeen API Application Key and Application Secret are issued. These must be saved for use during technical messaging with the Tatmeen system.

4.2 API Authentication

Prior to connecting to any specific API services, the API connection must be authenticated using OpenID Connect. OpenID Connect is an identity layer that allows the business partner technical user to be verified against the Tatmeen identity service. The following considerations are required.

1. The API calls must use OpenID authentication to communicate with the Tatmeen system.

2. Each API technical user must send messages by calling the designated API Authentication endpoints and must include the Tatmeen API Application Key and Tatmeen API Application Secret.

4.2.1 Staging Authentication Endpoints

The table below contains the current expected test endpoint. This section shall be updated once this detail is available for publication.

IP Range	Service URL	Operations	Description
x.x.x.x	*https://stgapim.tatmeen.ae/v1*	*/auth*	Authorization Service

Table 6 Authentication Test Endpoints

4.2.2 Live Authentication Endpoints

The table below contains the current expected live endpoint. This section shall be updated once this detail is available for publication.

IP Range	Service URL	Operations	Description
x.x.x.x	*https://apim.tatmeen.ae/v1*	*/auth*	Authorization Service

Table 7 Authentication Live Endpoints

4.3 Service APIs

The tables below (Table 8 and Table 9) provide the list of service URLs for the Dispensing partner activities.

4.3.1 Staging Service Endpoints

IP Range	Service URL	Operations	Description
x.x.x.x	*https:/stgapim.tatmeen.ae/v1*	*/scp/SendEPCIS*	EPCIS Message Events
x.x.x.x	*https://stgapim.tatmeen.ae/v1*	*/MsgStatusQuery*	Check EPCIS Message Status
x.x.x.x	*https://stgapim.tatmeen.ae/v1*	*/VerifyProduct*	Product Verification Service

Table 8 Service Test Endpoints

4.3.2 Live Service Endpoints

IP Range	Service URL	Operations	Description
x.x.x.x	*https://apim.tatmeen.ae/v1*	*/epcisMsgAsync*	EPCIS Message Events
x.x.x.x	*https://apim.tatmeen.ae/v1*	*/MsgStatusQuery*	Check EPCIS Message Status
x.x.x.x	*https://apim.tatmeen.ae/v1*	*/VerifyProduct*	Product Verification Service

Table 9 Service Live Endpoints

4.4 Message Formats

The following message formats are to be used.

Data	Content-Type	Standards
EPCIS Event Messages	Application/xml	GS1 EPCIS 1.2
EPCIS Message Status Query	Application/xml	Tatmeen xml
Product Verification Service	Application/xml	Tatmeen xml

Table 10 Message Formats

For further details about the message formats, please refer to:

- GS1 EPCIS and CBV Implementation guide document

    (https://www.gs1.org/docs/epc/EPCIS_Guideline.pdf)

- GS1 Common Business Vocabulary Standard

    (https://www.gs1.org/sites/default/files/docs/epc/CBV-Standard-1-2-2-r-2017-10-12.pdf)

- GS1 Standard Business Document Header (SBDH) Version 1.3

    (https://www.gs1.org/sites/default/files/docs/xml/SBDH_v1_3_Technical_Implementation_Guide.pdf)

- ISO 8601: Representation of dates and times "Data elements and interchange formats – Information interchange."

These documents form the basis for the EPCIS Message Formats described in the next section.

5 EPCIS Message Format

This section provides detailed information about the format of the EPCIS documents and message events that must be sent by the Distributor participant to the Tatmeen system.

It is assumed that the recipient of this document is familiar with the GS1 EPCIS standards and the technical xml formats described in the subsequent sections.

Current messaging is defined in the section although there are additional messages anticipated for future scenarios. These shall be updated in future revisions of this document.

5.1 EPCIS: Custom Tatmeen Namespace

To allow custom Tatmeen vocabulary within the EPCIS messages, some EPCIS messages contain a custom xml namespace definition at the start of the message envelope.

This namespace definition is:

xmlns:tatmeen="http://tatmeen.ae/epcis/"

Although not used in the dispensing request event, this section is retained for general reference.

5.2 EPCIS: Header Attributes

All EPCIS messages originating from a Distributor must present a standard GS1 EPCIS header at the start of the message that is structured according to the UN/CEFACT V1.3: 2004 standard business document header (SBDH) specification as described in the GS1 Standard Business Document Header (SBDH) Version 1.3 Technical Implementation Guide.

This header contains information to uniquely identify:

- Which registered Distributor sent the message.

- The intended destination for the message.

- A unique message identifier identifying a specific message.

Element	Occurrence & Format	Description	Example
<HeaderVersion>	Mandatory	Constant value representing the header version, being v1.3: (2004).	<sbdh:HeaderVersion>**1.3**</sbdh:HeaderVersion>

Element	Occurrence & Format	Description	Example
<Sender><Identifier>	Mandatory	The Authority is always "GLN", followed by the GLN representing the Sender Application or the GLN for the Distributor business partner in standard 13-digit format.	<sbdh:Sender> <sbdh:Identifier Authority="GS1">**Sender GLN**</sbdh:Identifier> </sbdh:Sender>
<Receiver><Identifier>	Mandatory	The Authority is always "GLN", followed by the Receiver GLN. This is always the Tatmeen system GLN. Please note: This GLN value will be provided at a later stage.	<sbdh:Receiver> <sbdh:Identifier Authority="GS1">**Tatmeen GLN**</sbdh:Identifier> </sbdh:Receiver>
<DocumentIdentification ><sbdh:Standard>	Mandatory	Constant Value "EPCGlobal".	<sbdh:Standard>**EPCglobal**</sbdh:Standard>
<sbdh:TypeVersion>	Mandatory	Constant Value "1.0" that matches the 'xsd:schema' version for ATTP.	<sbdh:TypeVersion>**1.0**</sbdh:TypeVersion>
<InstanceIdentifier>	Mandatory	A unique message identifier issued by the Distributor. This is limited to a maximum of 40 alphanumeric characters.	<sbdh:InstanceIdentifier>**e999f82e78 28a9633d977c64016a8f81**</sbdh:InstanceIdentifier>
<sbdh:Type>	Mandatory	Constant Value "Events" from GS1 standard.	<sbdh:Type>**Events**</sbdh:Type>
<CreationDateAndTime>	Mandatory	Creation timestamp of this message according to ISO 8601 standard UTC format; indicated by the suffix "Z".	<sbdh:CreationDateAndTime>2020-05-05T10:04:17Z</sbdh:CreationDateAndTime>

Table 11 EPCIS: Header Attributes

5.3 EPCIS Commissioning Attributes

The EPCIS message attributes for the commissioning event for a logistics unit (SSCC) at a Distributor's location are listed below. The most common example of a logistics unit is a pallet. There are several constant values in the definition below that are explained in the GS1 EPCIS Common Business Vocabulary standard. The assumption of this technical guide is that this is read in conjunction with the standards on which message formats are defined.

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	A list of one or more SSCC EPCs naming specific objects to which the event pertained.	<epcList> <epc>urn:epc:id:sscc:123456.02029914567</epc> </epcList>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action.	<action>ADD</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	<bizStep>urn:epcglobal:cbv:bizstep:**commissioning**</bizStep>
	<disposition>	Mandatory	Constant Value.	<disposition>urn:epcglobal:cbv:disp:active</disposition>
	<readPoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:123456.789101.0</id> </readPoint>
	<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation> <id>urn:epc:id:sgln:123456.789101.0</id> </bizLocation>

Table 12 Commissioning – SSCC

5.4 EPCIS Hierarchy Update Attributes

5.4.1 Aggregation Event: Packing

This section provides detailed information about the parent / child relationship between packaged product items as they progress through logistics preparation of being shipped to meet demand from customers or supply chain partners.

	Element	Occurrence & Format	Description	Example
Standard Fields	\<eventTime\>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	\<eventTime\>2021-05-31T12:02:11.000Z\</eventTime\>
	\<eventTimeZoneOffset\>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	\<eventTimeZoneOffset\>+01:00\</eventTimeZoneOffset\>
	\<parentID\>	Mandatory	The parent element to capture the UID of parent SGTIN/SSCC for the following packed items.	\<parentID\>urn:epc:id:sscc:0123456.0001000516\</parentID\>
	\<childEPCs\>	Mandatory	A list of one or more EPCs of contained objects identified by instance-level identifiers.	\<childEPCs\> \<epc\>urn:epc:id:sgtin:0123456.305513.NN2P266YLXPC\</epc\> \<epc\>urn:epc:id:sgtin:0123456.305513.NN2P266YYXX2\</epc\> \</childEPCs\>
	\<action\>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	\<action\>**ADD**\</action\>
	\<bizStep\>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	\<bizStep\>urn:epcglobal:cbv:bizstep:**packing**\</bizStep\>
	\<readpoint\>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	\<readPoint\> \<id\>urn:epc:id:sgln:123456.789101.0\</id\> \</readPoint\>
	\<bizLocation\>	Mandatory	The business location must be the same GLN as the \<readpoint\>.	\<bizLocation\> \<id\>urn:epc:id:sgln:123456.789101.0\</id\> \</bizLocation\>

Table 13 Aggregation Attributes

5.4.2 Aggregation Event: Unpacking

This section provides detailed information about the disaggregation of the parent / child relationship between packaged product items.

5.4.2.1 Scenario: Unpack Parent

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<parentID>	Mandatory	The parent element to capture the UID of parent SGTIN/SSCC for the following packed items.	<parentID>urn:epc:id:sscc:0123456.0001000516</parentID>
	<childEPCs>	Mandatory	A list of one or more EPCs of selected objects to remove from the parent, each selected object being identified by instance-level identifiers. Only these selected items are removed from the hierarchy.	<childEPCs></childEPCs>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>**DELETE**</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	<bizStep>urn:epcglobal:cbv:bizstep:**unpacking**</bizStep>
	<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:123456.789101.0</id> </readPoint>

Element	Occurrence & Format	Description	Example
<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation> <id>urn:epc:id:sgln:123456.000000.0</id> </bizLocation>

Table 14 Aggregation – "Unpacking Parent" Attributes

5.4.2.2 Scenario: Unpack Selected Objects

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<parentID>	Mandatory	The parent element to capture the UID of parent SGTIN/SSCC for the following packed items.	<parentID>urn:epc:id:sscc:0123456.0001000516</parentID>
	<childEPCs>	Mandatory	This is a mandatory empty list as only the top level item is captured to disassociate the parentID from all the childEPCs.	<childEPCs> <epc>urn:epc:id:sgtin:0123456.305513.NN2P266YLXPC</epc> </childEPCs>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>**DELETE**</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	<bizStep>urn:epcglobal:cbv:bizstep:**unpacking**</bizStep>
	<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:123456.789101.0</id> </readPoint>

Element	Occurrence & Format	Description	Example
<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation> <id>urn:epc:id:sgln:123456.000000.0</id> </bizLocation>

Table 15 Aggregation – "Unpacking Selected Objects" Attributes

5.5 EPCIS Shipping Attributes

5.5.1 EPCIS Shipping Event

The shipping event is used to control the flow of goods as they are shipped through the UAE market. Typically, the products are packaged onto pallets (SSCC), prior to shipping. This aids logistics transactions and logistics movements for Distributor warehouse efficiency. The transaction based messages therefore:

- Must follow the aggregation events for the top level hierarchy EPC and relevant packaged product items.

- Must report only the top-level hierarchy EPCs.

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	A list of one or more EPCs naming specific objects to which the event pertained. Only the highest level aggregated EPCs in the hierarchy are listed here.	<epcList> <epc>urn:epc:id:sscc:123456. 02029914567</epc> </epcList>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>OBSERVE</action>

	Element	Occurrence & Format	Description	Example
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	<bizStep>urn:epcglobal:cbv:bizstep:**shipping**</bizStep>
	<disposition>	Mandatory	Constant value. The disposition relevant to the business step representing the event activity (see Section 6 for overview).	<disposition>urn:epcglobal:cbv:disp:**in_transit**</disposition>
	<readPoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:123456.789101.0</id> </readPoint>
	<bizTransaction List>	Optional	A list of business transactions that define the context of this event.	
	<bizTransaction >	Optional	An identifier that denotes the specific shipping despatch advice reference between the Distributor and the recipient. Only the "desadv" reference is recorded in the Tatmeen solution when provided within the message. Format is: **bt:<GLN>:<reference>** where <GLN> is the Distributors own GLN and the <reference> is the Distributors unique reference.	<bizTransaction type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0123456999995:0105</bizTransaction>
Extension	<extension><sourceList>	Mandatory	A list of Source elements that provide context about the originating endpoint.	
	<source>	Mandatory	Only the Owning Party applies to this Event and is the same GLN as the <readPoint> represented in urn SGLN format.	<source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:123456.789101.0</source>
	<destinationList >	Mandatory	A list of Destination elements that provide context about the terminating endpoint of a business transfer.	

Element	Occurrence & Format	Description	Example
<destination>	Mandatory	Both the Owning Party (sold-to partner) and the Location (ship-to partner) GLN's are required in SGLN format.	<destination type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0333333.00000.0</destination> <destination type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:0356787.00040.0</destination>

Table 16 Shipping Attributes - Shipping Event

Note that the <bizTransaction> is shown as optional as this reference has no significance to the Tatmeen solution. Recording this allows the Distributor to track event records against their own business document references.

5.5.2 EPCIS Shipping Return Event

The shipping return event is used to control the flow of goods for a shipment or partial shipment that is returned to the original SENDER. The transaction based messages therefore:

- Must follow any disaggregation or aggregation events relevant to the returns preparation and loading processes.

- Must report only the top-level hierarchy EPCs being returned.

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	A list of one or more EPCs naming specific objects to which the event pertained. Only the highest level aggregated EPCs in the hierarchy are listed here.	<epcList> <epc>urn:epc:id:sscc:0471234.1001234569</epc> <epc>urn:epc:id:sscc:123456.02029914567</epc>

	Element	Occurrence & Format	Description	Example
				</epcList>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>OBSERVE</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	<bizStep>urn:epcglobal:cbv:bizstep:**shipping**</bizStep>
	<disposition>	Mandatory	Constant value. The disposition relevant to the business step representing the event activity (see Section 6 for overview).	<disposition>urn:epcglobal:cbv:disp:**returned**</disposition>
	<readPoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:0473456.00100.0</id> </readPoint>
	<bizTransactionList>	Optional	A list of business transactions that define the context of this event.	
	<bizTransaction>	Optional	An identifier that denotes the specific shipping despatch advice and returns authorisation references between the Distributor and the recipient. The "desadv" reference and "rma" reference are recorded in the Tatmeen solution when provided within the message. Format is: **bt:<GLN>:<reference>** where <GLN> is the Distributors own GLN and the <reference> is the Distributors unique reference.	<bizTransactionList> <bizTransaction type="urn:epcglobal:cbv:btt:**desadv**">urn:epcglobal:cbv:bt:0476543000102:0105</bizTransaction> <bizTransaction type="urn:epcglobal:cbv:btt:**rma**">urn:epcglobal:cbv:bt:0476543000102:R0105</bizTransaction> </bizTransactionList>
Extension	<extension><sourceList>	Mandatory	A list of Source elements that provide context about the originating endpoint.	
	<source>	Mandatory	Only the Owning Party applies to this Event and is the same GLN as the	<source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0476543.00010.0</source>

Element	Occurrence & Format	Description	Example
		<readPoint> represented in urn SGLN format.	
<destinationList>	Mandatory	A list of Destination elements that provide context about the terminating endpoint of a business transfer.	
<destination>	Mandatory	Both the Owning Party (sold-to partner) and the Location (ship-to partner) GLN's are required in SGLN format.	<destination type="urn:epcglobal:cbv:sdt:**owning_party**">urn:epc:id:sgln:0473456.00001.0</destination> <destination type="urn:epcglobal:cbv:sdt:**location**">urn:epc:id:sgln:0473456.00100.0</destination>
<tatmeen:reasonCode>	Mandatory	Custom reason code for shipping return. See Table for possible codes.	<tatmeen:reasonCode>R01</tatmeen:reasonCode>

Table 17 Shipping Attributes - Shipping Return Event

Note that the <bizTransaction> is shown as optional as this reference has no significance to the Tatmeen solution. Recording this allows the Distributor to track event records against their own business document references.

Reason Code	Description
R01	Product does not match
R02	Quantity does not match
R03	Permit and Delivery Order mismatch
R04	Serial number mismatch
R05	Seal broken
R06	Packaging damaged
R07	Storage conditions violated
R08	Multiple supporting documents missing

Table 18 Shipping Return Reason Codes

5.6 EPCIS Receiving Attributes

5.6.1 EPCIS Receiving Event

The receiving event is used to control the flow of goods as they arrive at locations throughout the UAE market. Typically, the products are packaged onto pallets (SSCC), prior to shipping. This aids logistics transactions and logistics movements for Distributor warehouse efficiency. The transaction based messages therefore:

- Must follow the shipping events initiating the transfer of the top level hierarchy EPC and relevant packaged product items.

- Must report only the top-level hierarchy EPCs.

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	A list of one or more EPCs naming specific objects to which the event pertained. Only the highest level aggregated EPCs in the hierarchy are listed here.	<epcList> <epc>urn:epc:id:sscc:123456.02029914567</epc> </epcList>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>**OBSERVE**</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	<bizStep>urn:epcglobal:cbv:bizstep:**receiving**</bizStep>
	<disposition>	Mandatory	Constant value. The disposition relevant to the business step representing the event activity (see Section 6 for overview).	<disposition>urn:epcglobal:cbv:disp:**in_progress**</disposition>

Element	Occurrence & Format	Description	Example
<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:0356787.00040.0</id> </readPoint>
<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation> <id>urn:epc:id:sgln:0356787.00040.0</id> </bizLocation>
<bizTransactionList>	Optional	A list of business transactions that define the context of this event.	
<bizTransaction>	Optional	An identifier that denotes the specific shipping despatch advice reference between the Distributor and the recipient. Only the "desadv" reference is recorded in the Tatmeen solution when provided within the message. Format is: **bt:<GLN>:<reference>** where <GLN> is the Distributors own GLN and the <reference> is the Distributors unique reference.	<bizTransaction type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt: 0356787000406:GR8015694</bizTransaction>
<source>	Mandatory	Only the Owning Party applies to this Event and is the same GLN as the <readPoint> represented in urn SGLN format.	<source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:123456.789101.0</source>
<destinationList>	Mandatory	A list of Destination elements that provide context about the terminating endpoint of a business transfer.	
<destination>	Mandatory	Both the Owning Party (sold-to partner) and the Location (ship-to partner) GLN's are required in SGLN format.	<destination type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0333333.00000.0</destination> <destination type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:0356787.00040.0</destination>

Table 19 Receiving Attributes – Receiving Event

Note that the <bizTransaction> is shown as optional as this reference has no significance to the Tatmeen solution. Recording this allows the Distributor to track event records against their own business document references.

5.6.2 EPCIS Receiving Returns Event

The receiving returns event is used to control the flow of goods as they are returned at locations throughout the UAE market. Typically, the products are packaged onto pallets (SSCC), prior to returned shipping. This aids logistics transactions and logistics movements for Distributor warehouse efficiency. The transaction based messages therefore:

- Must follow the shipping events initiating the transfer of the top level hierarchy EPC and relevant packaged product items.

- Must report only the top-level hierarchy EPCs.

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	A list of one or more EPCs naming specific objects to which the event pertained. Only the highest level aggregated EPCs in the hierarchy are listed here.	<epcList><epc>urn:epc:id:sscc:0471234.1001234569</epc><epc>urn:epc:id:sscc:123456.02029914567</epc></epcList>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>**OBSERVE**</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	<bizStep>urn:epcglobal:cbv:bizstep:**receiving**</bizStep>

Element	Occurrence & Format	Description	Example
<disposition>	Mandatory	Constant value. The disposition relevant to the business step representing the event activity (see Section 6 for overview).	<disposition>urn:epcglobal:cbv:disp:**returned**</disposition>
<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:0356787.00040.0</id> </readPoint>
<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation> <id>urn:epc:id:sgln:0473456.00100.0</id> </bizLocation>
<bizTransactionList>	Optional	A list of business transactions that define the context of this event.	
<bizTransaction>	Optional	An identifier that denotes the specific shipping despatch advice reference between the Distributor and the recipient. Only the "recadv" reference is recorded in the Tatmeen solution when provided within the message. Format is: **bt:<GLN>:<reference>** where <GLN> is the Distributors own GLN and the <reference> is the Distributors unique reference.	<bizTransaction type="urn:epcglobal:cbv:btt:recadv">urn:epcglobal:cbv:bt: 0473456001004:GR8015694</bizTransaction>
<extension><sourceList>	Mandatory	A list of Source elements that provide context about the originating endpoint.	
<source>	Mandatory	Only the Owning Party applies to this Event and is the same GLN as the <readPoint> represented in urn SGLN format.	<source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0476543.00010.0</source>
<destinationList>	Mandatory	A list of Destination elements that provide context about the terminating endpoint of a business transfer.	

Element	Occurrence & Format	Description	Example
<destination>	Mandatory	Both the Owning Party (sold-to partner) and the Location (ship-to partner) GLN's are required in SGLN format.	<destination type="urn:epcglobal:cbv:sdt:**owning_party**">urn:epc:id:sgln:0473456.00001.0</destination> <destination type="urn:epcglobal:cbv:sdt:**location**">urn:epc:id:sgln:0473456.00100.0</destination>

Table 20 Receiving Attributes – Receiving Returns Event

Note that the <bizTransaction> is shown as optional as this reference has no significance to the Tatmeen solution. Recording this allows the Distributor to track event records against their own business document references.

5.7 EPCIS Status and Destruction Attributes

This section covers all update definitions:

- Blocked/Unblocked – for inspection
- Sampled Product Event
- Product Destruction Event
- Damaged Goods Event
- Stolen Goods Event
- Exportation Event
- Lost/Missing Goods Event

5.7.1 Blocked / Unblocked for Inspection

During the importation processes the import clearance or customs release inspectors may request that products are blocked for inspection by the logistics operators. Once the inspection is complete, then the products should be unblocked to release them for further logistics activities.

5.7.1.1 Scenario: Block LGTIN

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	An empty list representing all objects within the batch/lot.	<epcList/>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>**OBSERVE**</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	For Inactive Case: <bizStep>urn:tatmeen:cbv:bizstep:**updating**</bizStep>
	<disposition>	Mandatory	Constant Value (see Section 6 for overview).	<disposition>urn:tatmeen:cbv:disp:**blocked**</disposition>
	<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:123456.789101.0</id> </readPoint>
	<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation> <id>urn:epc:id:sgln:123456.789101.0</id> </bizLocation>
Extension	<quantityElement>	Mandatory	This element contains the Batch / Lot reference for the product and is represented in the form of an LGTIN, i.e., a serialized LOT. The LGTIN does not contain any quantity as this message is intended to apply to ALL of the available product for this event and is stock at the location represented by the ReadPoint.	<quantityList> <quantityElement> <epcClass>urn:epc:class:lgtin:0123456.305512.LOTTEST1</epcClass> </quantityElement> </quantityList>

Element	Occurrence & Format	Description	Example
		This LGTIN represents: • GTIN: 3012345055123 • LOT: LOTTEST1	
\<tatmeen.reasonCode>	Mandatory	Custom reason code for blocking. See Table for possible codes.	\<tatmeen.reasonCode>**B01**\</tatmeen.reasonCode>
\<tatmeen:blocked>	Mandatory	Custom status indicator **'X'** to mark the LGTIN as blocked.	\<tatmeen:blocked>**X**\</tatmeen:blocked>

Table 21 EPCIS Blocked LGTIN Attributes

Reason Code	Description
B01	License Expired
B02	Storage conditions violated
B03	Market release issue
B04	Federal Customs Release issue
B05	MoHAP Import clearance issue
B06	Suspicious origin
B07	Criminal Investigation
B08	Random Quality Check
B09	Product recalled
B10	Batch recalled
B11	Destruction issue
B12	Destruction
B13	Legislative Violation

Table 22 Blocking Reason Codes

5.7.1.2 Scenario: Block Object ID

	Element	Occurrence & Format	Description	Example
Standard Fields	\<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	\<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	\<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	\<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	\<epcList>	Mandatory	A list of one or more EPCs naming specific objects to which the event pertained. Only the highest level aggregated EPCs in the hierarchy are listed here.	\<epcList> \<epc>urn:epc:id:sgtin:123456.0202991.AFA0UM128F4C</epc> </epcList>
	\<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	\<action>**OBSERVE**</action>
	\<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	For Inactive Case: \<bizStep>urn:tatmeen:cbv:bizstep:**updating**</bizStep>
	\<disposition>	Mandatory	Constant Value (see Section 6 for overview).	\<disposition>urn:tatmeen:cbv:disp:**blocked**</disposition>
	\<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	\<readPoint> \<id>urn:epc:id:sgln:123456.789101.0</id> </readPoint>
	\<bizLocation>	Mandatory	The business location must be the same GLN as the \<readpoint>.	\<bizLocation> \<id>urn:epc:id:sgln:123456.789101.0</id> </bizLocation>
Extension	\<tatmeen.reasonCode>	Mandatory	Custom reason code for blocking. See Table for possible codes.	\<tatmeen.reasonCode>**B01**</tatmeen.reasonCode>
	\<tatmeen:blocked>	Mandatory	Custom status indicator **'X'** to mark the specified Object IDs are blocked.	\<tatmeen:blocked>**X**</tatmeen:blocked>

Table 23 EPCIS Blocked Object ID Attributes

5.7.1.3 Scenario: Unblock LGTIN

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	An empty list representing all objects within the batch/lot.	<epcList/>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>**OBSERVE**</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	For Inactive Case: <bizStep>urn:tatmeen:cbv:bizstep:**updating**</bizStep>
	<disposition>	Mandatory	Constant Value (see Section 6 for overview).	<disposition>urn:tatmeen:cbv:disp:**unblocked**</disposition>
	<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:123456.789101.0</id> </readPoint>
	<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation> <id>urn:epc:id:sgln:123456.789101.0</id> </bizLocation>
Extension	<quantityElement>	Mandatory	This element contains the Batch / Lot reference for the product and is represented in the form of an LGTIN, i.e., a serialized LOT. The LGTIN does not contain any quantity as this message is intended to apply to ALL	<quantityList> <quantityElement> <epcClass>urn:epc:class:lgtin:0123456.305512.LOTTEST1</epcClass> </quantityElement> </quantityList>

Element	Occurrence & Format	Description	Example
		of the available product for this event and is stock at the location represented by the ReadPoint. This LGTIN represents: • GTIN: 3012345055123 • LOT: LOTTEST1	
<tatmeen:blocked>	Mandatory	Custom status indicator **'N'** to mark the LGTIN as unblocked.	<tatmeen:blocked>**N**</tatmeen:blocked>

Table 24 EPCIS Unblocked LGTIN Attributes

5.7.1.4 Scenario: Unblock Object ID

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	A list of one or more EPCs naming specific objects to which the event pertained. Only the highest level aggregated EPCs in the hierarchy are listed here.	<epcList> <epc>urn:epc:id:sgtin:123456.0202991.AFA0UM128F4C</epc> </epcList>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>**OBSERVE**</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	For Inactive Case: <bizStep>urn:tatmeen:cbv:bizstep:**updating**</bizStep>

	Element	Occurrence & Format	Description	Example
	<disposition>	Mandatory	Constant Value (see Section 6 for overview).	<disposition>urn:tatmeen:cbv:disp:**unblocked**</disposition>
	<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint><id>urn:epc:id:sgln:123456.789101.0</id></readPoint>
	<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation><id>urn:epc:id:sgln:123456.789101.0</id></bizLocation>
Ext.	<tatmeen:blocked>	Mandatory	Custom status indicator **'N'** to mark the specified Object IDs are unblocked.	<tatmeen:blocked>**N**</tatmeen:blocked>

Table 25 EPCIS Unblocked Object IDs Attributes

5.7.2 Sampled Product Event

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	A list of one or more EPCs naming specific objects to which the event pertained. Only the highest level aggregated EPCs in the hierarchy are listed here.	<epcList><epc>urn:epc:id:sgtin:123456.0202991.AFA0UM128F4C</epc> </epcList>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>**OBSERVE**</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	For Inactive Case: <bizStep>urn:epcglobal:cbv:bizstep:**inspecting**</bizStep>

	Element	Occurrence & Format	Description	Example
	<disposition>	Mandatory	Constant Value (see Section 6 for overview).	<disposition>urn:epcglobal:cbv:disp:**destroyed**</disposition>
	<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:123456.789101.0</id> </readPoint>
	<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation> <id>urn:epc:id:sgln:123456.789101.0</id> </bizLocation>
Extensiion	<tatmeen.reasonCode>	Mandatory	Custom reason code for the sample. Possible sampling reason codes are listed in Table .	<tatmeen.reasonCode>S01</tatmeen.reasonCode>

Table 26 Decommission Attributes

Reason Code	Description
S01	Sample for Doctors
S02	Packaging Review
S03	Laboratory Sample
S04	Criminal Investigation
S05	Prequalification
S06	Retention for future testing
S07	Consumer Report
S08	Product Documentation
S09	Sampling through PMS (Posta Marketing Surveillance)
S10	Suspect activity
S11	Storing condition

Table 27 Sampling Reason Codes

5.7.3 Destroyed Goods Event

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	A list of one or more EPCs naming specific objects to which the event pertained. Only the highest level aggregated EPCs in the hierarchy are listed here.	<epcList> <epc>urn:epc:id:sgtin:123456.0202991.AFA0UM128F4C</epc> </epcList>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>**DELETE**</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	For Inactive Case: <bizStep>urn:epcglobal:cbv:bizstep:**destroying**</bizStep>
	<disposition>	Mandatory	Constant Value (see Section 6 for overview).	<disposition>urn:epcglobal:cbv:disp:**destroyed**</disposition>
	<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:123456.789101.0</id> </readPoint>
	<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation> <id>urn:epc:id:sgln:123456.789101.0</id> </bizLocation>

Table 28 Destroyed Attributes

5.7.4 Damaged Goods Event

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	A list of one or more EPCs naming specific objects to which the event pertained. Only the highest level aggregated EPCs in the hierarchy are listed here.	<epcList> <epc>urn:epc:id:sgtin:123456.0202991.AFA0UM128F4C</epc> </epcList>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>**DELETE**</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	For Inactive Case: <bizStep>urn:epcglobal:cbv:bizstep:**Decommissioning**</bizStep>
	<disposition>	Mandatory	Constant Value (see Section 6 for overview).	<disposition>urn:epcglobal:cbv:disp:**destroyed**</disposition>
	<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:123456.789101.0</id> </readPoint>
	<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation> <id>urn:epc:id:sgln:123456.789101.0</id> </bizLocation>
Ext.	<tatmeen:reasonCode>	Mandatory	Custom reason code for reported damage, see Table .	<tatmeen:reasonCode>D01</tatmeen:reasonCode>

Table 29 Damaged Attributes

Reason Code	Description
D01	Broken
D02	Unfolded
D03	Torn
D04	2D Matrix not readable
D05	Smashed
D06	Damage due To liquid spill
D07	Other

Table 30 Damage Reason Codes

5.7.5 Stolen Goods Event

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	A list of one or more EPCs naming specific objects to which the event pertained. Only the highest level aggregated EPCs in the hierarchy are listed here.	<epcList> <epc>urn:epc:id:sgtin:123456.0202991.AFA0UM128F4C</epc> </epcList>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>**DELETE**</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	For Inactive Case: <bizStep>urn:epcglobal:cbv:bizstep:**decommissioning**</bizStep>

	Element	Occurrence & Format	Description	Example
	<disposition>	Mandatory	Constant Value (see Section 6 for overview).	<disposition>urn:epcglobal:cbv:disp:**stolen**</disposition>
	<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:123456.789101.0</id> </readPoint>
	<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation> <id>urn:epc:id:sgln:123456.789101.0</id> </bizLocation>

Table 31 Stolen Attributes

5.7.6 Exportation Event

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	A list of one or more EPCs naming specific objects to which the event pertained. Only the highest level aggregated EPCs in the hierarchy are listed here.	<epcList> <epc>urn:epc:id:sgtin:123456.0202991.AFA0UM128F4C</epc> </epcList>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>**OBSERVE**</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	For Inactive Case: <bizStep>urn:epcglobal:cbv:bizstep:**decommissioning**</bizStep>

	Element	Occurrence & Format	Description	Example
	<disposition>	Mandatory	Constant Value (see Section 6 for overview).	<disposition>urn:epcglobal:cbv:disp:**non_sellable_other**</disposition>
	<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:123456.789101.0</id> </readPoint>
	<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation> <id>urn:epc:id:sgln:123456.789101.0</id> </bizLocation>

Table 32 Export Attributes

5.7.7 Lost/Missing Goods Event

	Element	Occurrence & Format	Description	Example
Standard Fields	<eventTime>	Mandatory	The date and time, in ISO 8601 standard UTC format, at which the EPCIS Capturing Applications asserts the event occurred.	<eventTime>2021-05-31T12:02:11.000Z</eventTime>
	<eventTimeZoneOffset>	Mandatory	The UTC time zone offset, including daylight saving considerations, in effect at the time and place the event occurred.	<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
	<epcList>	Mandatory	A list of one or more EPCs naming specific objects to which the event pertained. Only the highest level aggregated EPCs in the hierarchy are listed here.	<epcList> <epc>urn:epc:id:sgtin:123456.0202991.AFA0UM128F4C</epc> </epcList>
	<action>	Mandatory	Constant Value from "xsd:schema" for the event type action (see Section 6 for overview).	<action>**OBSERVE**</action>
	<bizStep>	Mandatory	Constant value. The business step representing the event activity (see Section 6 for overview).	For Inactive Case: <bizStep>urn:epcglobal:cbv:bizstep:**decommissioning**</bizStep>

Element	Occurrence & Format	Description	Example
<disposition>	Mandatory	Constant Value (see Section 6 for overview).	<disposition>urn:epcglobal:cbv:disp:**inactive**</disposition>
<readpoint>	Mandatory	The read point must be the GLN in SGLN format of the Distributor.	<readPoint> <id>urn:epc:id:sgln:123456.789101.0</id> </readPoint>
<bizLocation>	Mandatory	The business location must be the same GLN as the <readpoint>.	<bizLocation> <id>urn:epc:id:sgln:123456.789101.0</id> </bizLocation>

Table 33 Lost Attributes

5.8 EPCIS Message Technical Response

The following technical responses will provide immediate confirmation regarding delivery of the EPCIS event list message described in the previous sections, to the Tatmeen solution. The Tatmeen system returns standard HTTP/HTTPS codes to the Distributor. The response codes follow the general standard where:

- 200-299 indicate success / information,
- 300-399 indicate redirection,
- 400-499 are technical errors, and
- 500-599 are application errors.

Solution example codes are shown in the table below with custom messages codes also provided for efficient error handling. Once the complete set of solution technical and application codes are finalised, this document shall be updated and reissued.

The messages detailing the errors and rejections on data will be sent from Tatmeen Systems to the Distributor when using the message status query service.

Code	Message Code	Type	Action	Description
404	Standard	Service Error	Retry	Service Not Found
401	Standard	Auth Error	Retry	Authorization Error
202	I001	Information	N/A	OK
500	E001	Internal Error	Retry	Tatmeen applications not reachable

Code	Message Code	Type	Action	Description
500	E002	Internal Error	No Retry	Invalid Import Permit
500	E003	Internal Error	No Retry	Message Validation Error

Table 34 Technical Acknowledgments

5.9 EPCIS: Examples

This following examples include the possible supply chain logistic operations.

- Packing new SSCC
- Shipping
- Receiving
- Decommissioning

5.9.1 Packing New SSCC Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda">
        <EPCISHeader>
                <sbdh:StandardBusinessDocumentHeader>
                        <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                        <sbdh:Sender>
                                <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                        </sbdh:Sender>
                        <sbdh:Receiver>
                                <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                        </sbdh:Receiver>
                        <sbdh:DocumentIdentification>
                                <sbdh:Standard>EPCglobal</sbdh:Standard>
                                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                                <sbdh:Type>Events</sbdh:Type>
                                <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                        </sbdh:DocumentIdentification>
                </sbdh:StandardBusinessDocumentHeader>
        </EPCISHeader>
```

```
<EPCISBody>
    <EventList>
        <ObjectEvent>
            <!--Commissioning of SSCC/PALLET-->
            <eventTime>2021-05-31T12:02:20.000Z</eventTime>
            <eventTimeZoneOffset>+05:30</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:0123456.0001000516</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:0123456.99999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:0123456.99999.0</id>
            </bizLocation>
        </ObjectEvent>
        <AggregationEvent>
            <!-- AGGREGATION OF 2 FULL CASES INTO A PALLET-->
            <eventTime>2021-05-31T12:02:22.000Z</eventTime>
            <eventTimeZoneOffset>+05:30</eventTimeZoneOffset>
            <parentID>urn:epc:id:sscc:0123456.0001000516</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:0123456.305512.Y4QOQBH0VVW1</epc>
                <epc>urn:epc:id:sgtin:0123456.305512.A4QIY780KL6M</epc>
            </childEPCs>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:0123456.99999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:0123456.99999.0</id>
            </bizLocation>
        </AggregationEvent>
    </EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

Table 35 EPCIS Packing New SSCC Example

5.9.2 Unpacking Parent Example

```xml
<epcis:EPCISDocument
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
                                xmlns:epcis="urn:epcglobal:epcis:xsd:1"
                                xmlns:cbvmda="urn:epcglobal:cbv:mda"
                                schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z">
        <EPCISHeader>
                <sbdh:StandardBusinessDocumentHeader>
                        <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                        <sbdh:Sender>
                                <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                        </sbdh:Sender>
                        <sbdh:Receiver>
                                <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                        </sbdh:Receiver>
                        <sbdh:DocumentIdentification>
                                <sbdh:Standard>EPCglobal</sbdh:Standard>
                                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                                <sbdh:Type>Events</sbdh:Type>
                                <sbdh:CreationDateAndTime>2020-05-
05T10:04:17Z</sbdh:CreationDateAndTime>
                        </sbdh:DocumentIdentification>
                </sbdh:StandardBusinessDocumentHeader>
        </EPCISHeader>
        <EPCISBody>
                <EventList>
                        <AggregationEvent>
                                <!--Unpacking Parent Event-->
                                <eventTime>2021-05-29T07:47:40.000Z</eventTime>
                                <eventTimeZoneOffset>+05:30</eventTimeZoneOffset>
                                <parentID>urn:epc:id:sscc:0123456.0001018244</parentID>
                                <childEPCs></childEPCs>
                                <action>DELETE</action>
                                <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
                                <readPoint>
                                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                                </readPoint>
                                <bizLocation>
                                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                                </bizLocation>
                        </AggregationEvent>
```

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

Table 36 EPCIS Unpacking Parent Example

5.9.3 Unpacking Selected Objects Example

```
<epcis:EPCISDocument
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
                                    xmlns:epcis="urn:epcglobal:epcis:xsd:1"
                                    xmlns:cbvmda="urn:epcglobal:cbv:mda"
                                    schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z">
        <EPCISHeader>
                <sbdh:StandardBusinessDocumentHeader>
                        <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                        <sbdh:Sender>
                                <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                        </sbdh:Sender>
                        <sbdh:Receiver>
                                <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                        </sbdh:Receiver>
                        <sbdh:DocumentIdentification>
                                <sbdh:Standard>EPCglobal</sbdh:Standard>
                                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                                <sbdh:Type>Events</sbdh:Type>
                                <sbdh:CreationDateAndTime>2020-05-
05T10:04:17Z</sbdh:CreationDateAndTime>
                        </sbdh:DocumentIdentification>
                </sbdh:StandardBusinessDocumentHeader>
        </EPCISHeader>
        <EPCISBody>
                <EventList>
                        <AggregationEvent>
                                <!--Unpacking Objects Event-->
                                <eventTime>2021-05-29T07:47:40.000Z</eventTime>
                                <eventTimeZoneOffset>+05:30</eventTimeZoneOffset>
                                <parentID>urn:epc:id:sscc:0123456.0001018244</parentID>
                                <childEPCs>
                                        <epc>urn:epc:id:sgtin:0123456.305513.NN2P266YLXPC</epc>
                                        <epc>urn:epc:id:sgtin:0123456.305513.NN2P266YYXX2</epc>
                                </childEPCs>
```

```
                              <action>DELETE</action>
                              <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
                              <readPoint>
                                    <id>urn:epc:id:sgln:0123456.99999.0</id>
                              </readPoint>
                              <bizLocation>
                                    <id>urn:epc:id:sgln:0123456.99999.0</id>
                              </bizLocation>
                        </AggregationEvent>
                  </EventList>
            </EPCISBody>
</epcis:EPCISDocument>
```

Table 37 EPCIS Unpacking Selected Objects Example

5.9.4 Shipping Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda">
      <EPCISHeader>
            <sbdh:StandardBusinessDocumentHeader>
                  <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                  <sbdh:Sender>
                        <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                  </sbdh:Sender>
                  <sbdh:Receiver>
                        <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                  </sbdh:Receiver>
                  <sbdh:DocumentIdentification>
                        <sbdh:Standard>EPCglobal</sbdh:Standard>
                        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

      <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                        <sbdh:Type>Events</sbdh:Type>
                        <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                  </sbdh:DocumentIdentification>
            </sbdh:StandardBusinessDocumentHeader>
      </EPCISHeader>
      <EPCISBody>
            <EventList>
                  <ObjectEvent>
                        <!--Shipping Event-->
```

```
                                        <eventTime>2021-05-31T12:02:25.000Z</eventTime>
                                        <eventTimeZoneOffset>+03:00</eventTimeZoneOffset>
                                        <epcList>
                                                <epc>urn:epc:id:sscc:0123456.0001000516</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:0123456.99999.0</id>
                                        </readPoint>
                                        <bizTransactionList>
                                                <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0123456999995:0105</bizTransaction>
                                        </bizTransactionList>
                                        <extension>
                                                <sourceList>
                                                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0123456.99999.1</source>
                                                        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:0123456.99999.1</source>
                                                </sourceList>
                                                <destinationList>
                                                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0333333.00000.0</destination>
                                                        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:0356787.00040.0</destination>
                                                </destinationList>
                                        </extension>
                                </ObjectEvent>
                        </EventList>
                </EPCISBody>
</epcis:EPCISDocument>
```

Table 38 EPCIS Shipping Example

5.9.5 Shipping Returns Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:tatmeen="http://tatmeen.ae/epcis/">
        <EPCISHeader>
                <sbdh:StandardBusinessDocumentHeader>
```

```
                    <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                    <sbdh:Sender>
                            <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                    </sbdh:Sender>
                    <sbdh:Receiver>
                            <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                    </sbdh:Receiver>
                    <sbdh:DocumentIdentification>
                            <sbdh:Standard>EPCglobal</sbdh:Standard>
                            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                            <sbdh:Type>Events</sbdh:Type>
                            <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                    </sbdh:DocumentIdentification>
            </sbdh:StandardBusinessDocumentHeader>
        </EPCISHeader>
        <EPCISBody>
            <EventList>
                <ObjectEvent>
                        <!--Shipping Returns Event-->
                        <eventTime>2021-05-31T12:02:25.000Z</eventTime>
                        <eventTimeZoneOffset>+03:00</eventTimeZoneOffset>
                        <epcList>
                                <epc>urn:epc:id:sscc:0123456.0001000516</epc>
                        </epcList>
                        <action>OBSERVE</action>
                        <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
                        <disposition>urn:epcglobal:cbv:disp:returned</disposition>
                        <readPoint>
                                <id>urn:epc:id:sgln:0123456.99999.0</id>
                        </readPoint>
                        <bizTransactionList>
                                <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0123456999995:0105</bizTransaction>
                                <bizTransaction
type="urn:epcglobal:cbv:btt:rma">urn:epcglobal:cbv:bt:0123456999995:R0602</bizTransaction>
                        </bizTransactionList>
                        <extension>
                                <sourceList>
                                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0123456.99999.1</source>
                                        <destinationList>
```

```
                                              <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0333333.00000.0</destination>
                                              <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:0356787.00040.0</destination>
                                        </destinationList>
                                  </extension>
                                  <tatmeen:reasonCode>R06</tatmeen:reasonCode>
                          </ObjectEvent>
                    </EventList>
              </EPCISBody>
</epcis:EPCISDocument>
```

Table 39 EPCIS Shipping Returns Example

5.9.6 Receiving Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda">
        <EPCISHeader>
                <sbdh:StandardBusinessDocumentHeader>
                        <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                        <sbdh:Sender>
                                <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                        </sbdh:Sender>
                        <sbdh:Receiver>
                                <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                        </sbdh:Receiver>
                        <sbdh:DocumentIdentification>
                                <sbdh:Standard>EPCglobal</sbdh:Standard>
                                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                                <sbdh:Type>Events</sbdh:Type>
                                <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                        </sbdh:DocumentIdentification>
                </sbdh:StandardBusinessDocumentHeader>
        </EPCISHeader>
        <EPCISBody>
                <EventList>
                        <ObjectEvent>
                        <!-- Receiving Event-->
                                <eventTime>2019-12-19T11:50:09.000Z</eventTime>
```

```
                                        <eventTimeZoneOffset>+03:00</eventTimeZoneOffset>
                                        <epcList>
                                                <epc>urn:epc:id:sscc:0123456.0001000516</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:0123456.99999.0</id>
                                        </readPoint>
                                        <bizLocation>
                                                <id>urn:epc:id:sgln:0123456.99999.0</id>
                                        </bizLocation>
                                        <bizTransactionList>
                                                <bizTransaction
type="urn:epcglobal:cbv:btt:recadv">urn:epcglobal:cbv:bt:0123456999995:GR1230105</bizTransaction>
                                        </bizTransactionList>
                                        <extension>
                                                <sourceList>
                                                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0123456.99999.1</source>
                                                        <destinationList>
                                                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0333333.00000.0</destination>
                                                        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:0356787.00040.0</destination>
                                                        </destinationList>
                                                </extension>
                                        </ObjectEvent>
                                </EventList>
                        </EPCISBody>
                </epcis:EPCISDocument>
```

Table 40 EPCIS Receiving Example

5.9.7 Receiving Returns Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda">
        <EPCISHeader>
                <sbdh:StandardBusinessDocumentHeader>
                        <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                        <sbdh:Sender>
```

```
                                <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                        </sbdh:Sender>
                        <sbdh:Receiver>
                                <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                        </sbdh:Receiver>
                        <sbdh:DocumentIdentification>
                                <sbdh:Standard>EPCglobal</sbdh:Standard>
                                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                                <sbdh:Type>Events</sbdh:Type>
                                <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                        </sbdh:DocumentIdentification>
                </sbdh:StandardBusinessDocumentHeader>
        </EPCISHeader>
        <EPCISBody>
                <EventList>
                        <ObjectEvent>
                        <!-- Receiving Returns Event-->
                                <eventTime>2019-12-19T11:50:09.000Z</eventTime>
                                <eventTimeZoneOffset>+03:00</eventTimeZoneOffset>
                                <epcList>
                                        <epc>urn:epc:id:sscc:0123456.0001000516</epc>
                                </epcList>
                                <action>OBSERVE</action>
                                <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
                                <disposition>urn:epcglobal:cbv:disp:returned</disposition>
                                <readPoint>
                                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                                </readPoint>
                                <bizLocation>
                                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                                </bizLocation>
                                <bizTransactionList>
                                        <bizTransaction
type="urn:epcglobal:cbv:btt:recadv">urn:epcglobal:cbv:bt:0123456999995:GR1230456</bizTransaction>
                                </bizTransactionList>
                                <extension>
                                        <sourceList>
                                                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0123456.99999.1</source>
                                        <destinationList>
```

```
                                              <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0333333.00000.0</destination>
                                              <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:0356787.00040.0</destination>
                                       </destinationList>
                                 </extension>
                          </ObjectEvent>
                   </EventList>
            </EPCISBody>
</epcis:EPCISDocument>
```

Table 41 EPCIS Receiving Returns Example

5.9.8 Blocking Batch/Lot Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:tatmeen="http://tatmeen.ae/epcis/">
       <EPCISHeader>
              <sbdh:StandardBusinessDocumentHeader>
                     <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                     <sbdh:Sender>
                            <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                     </sbdh:Sender>
                     <sbdh:Receiver>
                            <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                     </sbdh:Receiver>
                     <sbdh:DocumentIdentification>
                            <sbdh:Standard>EPCglobal</sbdh:Standard>
                            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

       <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                            <sbdh:Type>Events</sbdh:Type>
                            <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                     </sbdh:DocumentIdentification>
              </sbdh:StandardBusinessDocumentHeader>
       </EPCISHeader>
       <EPCISBody>
              <EventList>
                     <ObjectEvent>
                     <!—Blocking Batch/Lot Event-->
                            <eventTime>2021-05-31T12:02:11.000Z</eventTime>
```

```
                                <eventTimeZoneOffset>+03:00</eventTimeZoneOffset>
                                <epcList/>
                                <action>OBSERVE</action>
                                <bizStep>urn:tatmeen:cbv:bizstep:updating</bizStep>
                                <disposition>urn:tatmeen:cbv:disp:blocked</disposition>
                                <readPoint>
                                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                                </readPoint>
                                <bizLocation>
                                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                                </bizLocation>
                                <extension>
                                  <quantityList>
                                      <quantityElement>
                                        <epcClass>
                                            urn:epc:class:lgtin:123456.0000000.TSLT151201
                                        </epcClass>
                                      </quantityElement>
                                  </quantityList>
                                </extension>
                                <tatmeen:reasonCode>B05</tatmeen:reasonCode>
                                <tatmeen:blocked>X</tatmeen:blocked>
                            </ObjectEvent>
                    </EventList>
            </EPCISBody>
</epcis:EPCISDocument>
```

Table 42 EPCIS Blocking LGTIN Example

5.9.9 Blocking Object IDs Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:tatmeen="http://tatmeen.ae/epcis/">
        <EPCISHeader>
                <sbdh:StandardBusinessDocumentHeader>
                        <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                        <sbdh:Sender>
                                <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                        </sbdh:Sender>
                        <sbdh:Receiver>
                                <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                        </sbdh:Receiver>
```

```
                    <sbdh:DocumentIdentification>
                            <sbdh:Standard>EPCglobal</sbdh:Standard>
                            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                            <sbdh:Type>Events</sbdh:Type>
                            <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                    </sbdh:DocumentIdentification>
            </sbdh:StandardBusinessDocumentHeader>
        </EPCISHeader>
        <EPCISBody>
            <EventList>
                <ObjectEvent>
                <!—Blocking Object IDs Event-->
                    <eventTime>2021-05-31T12:02:11.000Z</eventTime>
                    <eventTimeZoneOffset>+03:00</eventTimeZoneOffset>
                    <epcList>
                        <epc>urn:epc:id:sgtin:0123456.305512.NP2P2236YDY7</epc>
                        <epc>urn:epc:id:sscc:0123456.0001018330</epc>
                    </epcList>
                    <action>OBSERVE</action>
                    <bizStep>urn:tatmeen:cbv:bizstep:updating</bizStep>
                    <disposition>urn:tatmeen:cbv:disp:blocked</disposition>
                    <readPoint>
                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                    </readPoint>
                    <bizLocation>
                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                    </bizLocation>
                    <tatmeen:reasonCode>B05</tatmeen:reasonCode>
                    <tatmeen:blocked>X</tatmeen:blocked>
                </ObjectEvent>
            </EventList>
        </EPCISBody>
</epcis:EPCISDocument>
```

Table 43 EPCIS Blocking Object IDs Example

5.9.10 Unblocking Batch/Lot Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda"
```

```
xmlns:tatmeen="http://tatmeen.ae/epcis/">
        <EPCISHeader>
                <sbdh:StandardBusinessDocumentHeader>
                        <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                        <sbdh:Sender>
                                <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                        </sbdh:Sender>
                        <sbdh:Receiver>
                                <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                        </sbdh:Receiver>
                        <sbdh:DocumentIdentification>
                                <sbdh:Standard>EPCglobal</sbdh:Standard>
                                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                                <sbdh:Type>Events</sbdh:Type>
                                <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                        </sbdh:DocumentIdentification>
                </sbdh:StandardBusinessDocumentHeader>
        </EPCISHeader>
        <EPCISBody>
                <EventList>
                        <ObjectEvent>
                        <!—Unblocking Batch/Lot Event-->
                                <eventTime>2021-05-31T12:02:11.000Z</eventTime>
                                <eventTimeZoneOffset>+03:00</eventTimeZoneOffset>
                                <epcList/>
                                <action>OBSERVE</action>
                                <bizStep>urn:tatmeen:cbv:bizstep:updating</bizStep>
                                <disposition>urn:tatmeen:cbv:disp:unblocked</disposition>
                                <readPoint>
                                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                                </readPoint>
                                <bizLocation>
                                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                                </bizLocation>
                                <extension>
                                  <quantityList>
                                    <quantityElement>
                                      <epcClass>
                                        urn:epc:class:lgtin:123456.0000000.TSLT151201
                                      </epcClass>
                                    </quantityElement>
```

```
                                            </quantityList>
                                        </extension>
                                        <tatmeen:blocked>N</tatmeen:blocked>
                                </ObjectEvent>
                        </EventList>
                </EPCISBody>
        </epcis:EPCISDocument>
```

Table 44 EPCIS Unblocking LGTIN Example

5.9.11 Unblocking Object IDs Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:tatmeen="http://tatmeen.ae/epcis/">
        <EPCISHeader>
                <sbdh:StandardBusinessDocumentHeader>
                        <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                        <sbdh:Sender>
                                <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                        </sbdh:Sender>
                        <sbdh:Receiver>
                                <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                        </sbdh:Receiver>
                        <sbdh:DocumentIdentification>
                                <sbdh:Standard>EPCglobal</sbdh:Standard>
                                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                                <sbdh:Type>Events</sbdh:Type>
                                <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                        </sbdh:DocumentIdentification>
                </sbdh:StandardBusinessDocumentHeader>
        </EPCISHeader>
        <EPCISBody>
                <EventList>
                        <ObjectEvent>
                        <!—Unblocking Object IDs Event-->
                                <eventTime>2021-05-31T12:02:11.000Z</eventTime>
                                <eventTimeZoneOffset>+03:00</eventTimeZoneOffset>
                                <epcList>
                                        <epc>urn:epc:id:sgtin:0123456.305512.NP2P2236YDY7</epc>
```

```
                                <epc>urn:epc:id:sscc:0123456.0001018330</epc>
                        </epcList>
                        <action>OBSERVE</action>
                        <bizStep>urn:tatmeen:cbv:bizstep:updating</bizStep>
                        <disposition>urn:tatmeen:cbv:disp:blocked</disposition>
                        <readPoint>
                                <id>urn:epc:id:sgln:0123456.99999.0</id>
                        </readPoint>
                        <bizLocation>
                                <id>urn:epc:id:sgln:0123456.99999.0</id>
                        </bizLocation>
                        <tatmeen:blocked>N</tatmeen:blocked>
                </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

Table 45 EPCIS Unblocking Object IDs Example

5.9.12 Sampling Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:tatmeen="http://tatmeen.ae/epcis/">
        <EPCISHeader>
                <sbdh:StandardBusinessDocumentHeader>
                        <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                        <sbdh:Sender>
                                <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                        </sbdh:Sender>
                        <sbdh:Receiver>
                                <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                        </sbdh:Receiver>
                        <sbdh:DocumentIdentification>
                                <sbdh:Standard>EPCglobal</sbdh:Standard>
                                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                                <sbdh:Type>Events</sbdh:Type>
                                <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                        </sbdh:DocumentIdentification>
                </sbdh:StandardBusinessDocumentHeader>
```

```
        </EPCISHeader>
        <EPCISBody>
            <EventList>
                <ObjectEvent>
                <!-- Decommission - Sample -->
                    <eventTime>2021-05-31T12:02:11.000Z</eventTime>
                    <eventTimeZoneOffset>+05:30</eventTimeZoneOffset>
                    <epcList>
                        <epc>urn:epc:id:sgtin:0123456.305512.NP2P22376C9A</epc>
                        <epc>urn:epc:id:sgtin:0123456.305512.NP2P2236YDY7</epc>
                        <epc>urn:epc:id:sscc:0123456.0001018329</epc>
                        <epc>urn:epc:id:sscc:0123456.0001018330</epc>
                    </epcList>
                    <action>OBSERVE</action>
                    <bizStep>urn:epcglobal:cbv:bizstep:inspecting</bizStep>
                    <disposition>urn:epcglobal:cbv:disp:destroyed</disposition>
                    <readPoint>
                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                    </readPoint>
                    <bizLocation>
                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                    </bizLocation>
                    <tatmeen:reasonCode>S01</tatmeen:reasonCode>
                </ObjectEvent>
            </EventList>
        </EPCISBody>
</epcis:EPCISDocument>
```

Table 46 EPCIS Sampling Example

5.9.13 Destruction Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:tatmeen="http://tatmeen.ae/epcis/">
        <EPCISHeader>
            <sbdh:StandardBusinessDocumentHeader>
                <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                <sbdh:Sender>
                    <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                </sbdh:Sender>
                <sbdh:Receiver>
                    <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
```

```
                </sbdh:Receiver>
                <sbdh:DocumentIdentification>
                        <sbdh:Standard>EPCglobal</sbdh:Standard>
                        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

    <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                        <sbdh:Type>Events</sbdh:Type>
                        <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <ObjectEvent>
            <!-- Decommission - Destroyed -->
                <eventTime>2021-05-31T12:02:11.000Z</eventTime>
                <eventTimeZoneOffset>+05:30</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:0123456.305512.NP2P22376C9A</epc>
                    <epc>urn:epc:id:sgtin:0123456.305512.NP2P2236YDY7</epc>
                    <epc>urn:epc:id:sscc:0123456.0001018329</epc>
                    <epc>urn:epc:id:sscc:0123456.0001018330</epc>
                </epcList>
                <action>DELETE</action>
                <bizStep>urn:epcglobal:cbv:bizstep:destroying</bizStep>
                <disposition>urn:epcglobal:cbv:disp:destroyed</disposition>
                <readPoint>
                    <id>urn:epc:id:sgln:0123456.99999.0</id>
                </readPoint>
                <bizLocation>
                    <id>urn:epc:id:sgln:0123456.99999.0</id>
                </bizLocation>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

Table 47 EPCIS Destruction Example

5.9.14 Damaged Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:tatmeen="http://tatmeen.ae/epcis/">
        <EPCISHeader>
                <sbdh:StandardBusinessDocumentHeader>
                        <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                        <sbdh:Sender>
                                <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                        </sbdh:Sender>
                        <sbdh:Receiver>
                                <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                        </sbdh:Receiver>
                        <sbdh:DocumentIdentification>
                                <sbdh:Standard>EPCglobal</sbdh:Standard>
                                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                                <sbdh:Type>Events</sbdh:Type>
                                <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                        </sbdh:DocumentIdentification>
                </sbdh:StandardBusinessDocumentHeader>
        </EPCISHeader>
        <EPCISBody>
                <EventList>
                        <ObjectEvent>
                        <!-- Decommission - Damaged -->
                                <eventTime>2021-05-31T12:02:11.000Z</eventTime>
                                <eventTimeZoneOffset>+05:30</eventTimeZoneOffset>
                                <epcList>
                                        <epc>urn:epc:id:sgtin:0123456.305512.NP2P22376C9A</epc>
                                        <epc>urn:epc:id:sgtin:0123456.305512.NP2P2236YDY7</epc>
                                        <epc>urn:epc:id:sscc:0123456.0001018329</epc>
                                        <epc>urn:epc:id:sscc:0123456.0001018330</epc>
                                </epcList>
                                <action>DELETE</action>
                                <bizStep>urn:epcglobal:cbv:bizstep:decommissioning</bizStep>
                                <disposition>urn:epcglobal:cbv:disp:destroyed</disposition>
                                <readPoint>
                                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                                </readPoint>
```

```
                    <bizLocation>
                            <id>urn:epc:id:sgln:0123456.99999.0</id>
                    </bizLocation>
                    <tatmeen:reasonCode>D01</tatmeen:reasonCode>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

Table 48 EPCIS Damaged Example

5.9.15 Stolen Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:tatmeen="http://tatmeen.ae/epcis/">
        <EPCISHeader>
                <sbdh:StandardBusinessDocumentHeader>
                        <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                        <sbdh:Sender>
                                <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                        </sbdh:Sender>
                        <sbdh:Receiver>
                                <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                        </sbdh:Receiver>
                        <sbdh:DocumentIdentification>
                                <sbdh:Standard>EPCglobal</sbdh:Standard>
                                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                                <sbdh:Type>Events</sbdh:Type>
                                <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                        </sbdh:DocumentIdentification>
                </sbdh:StandardBusinessDocumentHeader>
        </EPCISHeader>
        <EPCISBody>
                <EventList>
                        <ObjectEvent>
                        <!-- Decommission - Stolen -->
                                <eventTime>2021-05-31T12:02:11.000Z</eventTime>
                                <eventTimeZoneOffset>+05:30</eventTimeZoneOffset>
                                <epcList>
```

```
                                        <epc>urn:epc:id:sgtin:0123456.305512.NP2P22376C9A</epc>
                                        <epc>urn:epc:id:sgtin:0123456.305512.NP2P2236YDY7</epc>
                                        <epc>urn:epc:id:sscc:0123456.0001018329</epc>
                                        <epc>urn:epc:id:sscc:0123456.0001018330</epc>
                            </epcList>
                            <action>DELETE</action>
                            <bizStep>urn:epcglobal:cbv:bizstep:decommissioning</bizStep>
                            <disposition>urn:epcglobal:cbv:disp:stolen</disposition>
                            <readPoint>
                                    <id>urn:epc:id:sgln:0123456.99999.0</id>
                            </readPoint>
                            <bizLocation>
                                    <id>urn:epc:id:sgln:0123456.99999.0</id>
                            </bizLocation>
                    </ObjectEvent>
            </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

Table 49 EPCIS Stolen Example

5.9.16 Exported Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:tatmeen="http://tatmeen.ae/epcis/">
        <EPCISHeader>
                <sbdh:StandardBusinessDocumentHeader>
                        <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                        <sbdh:Sender>
                                <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                        </sbdh:Sender>
                        <sbdh:Receiver>
                                <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                        </sbdh:Receiver>
                        <sbdh:DocumentIdentification>
                                <sbdh:Standard>EPCglobal</sbdh:Standard>
                                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                                <sbdh:Type>Events</sbdh:Type>
                                <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
```

```
                </sbdh:DocumentIdentification>
            </sbdh:StandardBusinessDocumentHeader>
        </EPCISHeader>
        <EPCISBody>
            <EventList>
                <ObjectEvent>
                <!-- Decommission - Exported -->
                    <eventTime>2021-05-31T12:02:11.000Z</eventTime>
                    <eventTimeZoneOffset>+05:30</eventTimeZoneOffset>
                    <epcList>
                        <epc>urn:epc:id:sgtin:0123456.305512.NP2P22376C9A</epc>
                        <epc>urn:epc:id:sgtin:0123456.305512.NP2P2236YDY7</epc>
                        <epc>urn:epc:id:sscc:0123456.0001018329</epc>
                        <epc>urn:epc:id:sscc:0123456.0001018330</epc>
                    </epcList>
                    <action>OBSERVE</action>
                    <bizStep>urn:epcglobal:cbv:bizstep:decommissioning</bizStep>
                    <disposition>urn:epcglobal:cbv:disp:non_sellable_other</disposition>
                    <readPoint>
                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                    </readPoint>
                    <bizLocation>
                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                    </bizLocation>
                </ObjectEvent>
            </EventList>
        </EPCISBody>
</epcis:EPCISDocument>
```

Table 50 EPCIS Exported Example

5.9.17 Lost Example

```
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2021-01-28T07:21:26Z"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:tatmeen="http://tatmeen.ae/epcis/">
        <EPCISHeader>
            <sbdh:StandardBusinessDocumentHeader>
                <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
                <sbdh:Sender>
                    <sbdh:Identifier Authority="GS1">0123456789005</sbdh:Identifier>
                </sbdh:Sender>
                <sbdh:Receiver>
```

```
                              <sbdh:Identifier Authority="GS1">7894561230005</sbdh:Identifier>
                    </sbdh:Receiver>
                    <sbdh:DocumentIdentification>
                              <sbdh:Standard>EPCglobal</sbdh:Standard>
                              <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

        <sbdh:InstanceIdentifier>2f1bdabdfaee464c87e1aeb7e586e6ab</sbdh:InstanceIdentifier>
                              <sbdh:Type>Events</sbdh:Type>
                              <sbdh:CreationDateAndTime>2021-05-
31T12:02:05.000Z</sbdh:CreationDateAndTime>
                    </sbdh:DocumentIdentification>
          </sbdh:StandardBusinessDocumentHeader>
      </EPCISHeader>
      <EPCISBody>
          <EventList>
              <ObjectEvent>
                  <!-- Decommission Lost -->
                  <eventTime>2021-05-31T12:02:11.000Z</eventTime>
                  <eventTimeZoneOffset>+05:30</eventTimeZoneOffset>
                  <epcList>
                        <epc>urn:epc:id:sgtin:0123456.305512.NP2P22376C9A</epc>
                        <epc>urn:epc:id:sgtin:0123456.305512.NP2P2236YDY7</epc>
                        <epc>urn:epc:id:sscc:0123456.0001018329</epc>
                        <epc>urn:epc:id:sscc:0123456.0001018330</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:0123456.99999.0</id>
                  </readPoint>
                  <bizLocation>
                        <id>urn:epc:id:sgln:0123456.99999.0</id>
                  </bizLocation>
              </ObjectEvent>
          </EventList>
      </EPCISBody>
</epcis:EPCISDocument>
```

Table 51 EPCIS Lost Example

5.10 EPCIS Message Technical Response Examples

5.10.1 Success

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<Response>
  <statustype>I</statustype>
  <code>202</code>
  <date>2021-07-20T09:36:47.127Z</date>
  <messageid>660d45b4-360c-51b5-8645-1192e09ac44c</messageid>
  <status>
    <reason> Message accepted for Tatmeen Processing, the message status can be viewed in the message status query</reason>
    <code>I001</code>
  </status>
</Response>
```

Table 52 Success Example

5.10.2 Connectivity Error

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<Response>
  <statustype>E</statustype>
  <code>500</code>
  <date>2021-07-20T09:36:47.127Z</date>
  <messageid>660d45b4-360c-51b5-8645-1192e09ac44c</messageid>
  <status>
    <reason>Tatmeen applications not reachable, try later </reason>
    <code>E001</code>
  </status>
</Response>
```

Table 53 Connectivity Error Example

5.10.3 System Error

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<Response>
  <statustype>E</statustype>
  <code>500</code>
  <date>2021-07-20T09:36:47.127Z</date>
  <messageid>660d45b4-360c-51b5-8645-1192e09ac44c</messageid>
  <status>
    <reason>Invalid Import Permit</reason>
```

```
        <code>E003</code>
    </status>
  </Response>
```

Table 54 System Error Example

5.10.4 Mapping Error

```
<?xml version="1.0" encoding="UTF-8" ?>
<Response>
   <statustype>E</statustype>
   <code>500</code>
   <date>2021-07-20T09:36:47.127Z</date>
   <messageid>660d45b4-360c-51b5-8645-1192e09ac44c</messageid>
   <status>
      <reason>Message Validation Error</reason>
      <code>E003</code>
   </status>
   <status>
      <reason>Mandatory field SSCC – XXXX length not valid</reason>
      <code>E003</code>
   </status>
</Response>
```

Table 55 Mapping Error Example

5.11 EPCIS Message Query Status

The intention is for the Tatmeen system to provide the message status for EPCIS messages technically accepted by the Tatmeen.

The Distributor sends a query message to the Tatmeen solution to determine the status they have sent to the Tatmeen solution.

The response from the Tatmeen solution provides a series of system log entries that are shared with the technical user of the sending party.

The response is an overall status for the messages, followed by a list of the log responses from the Tatmeen solution. These response are organised into a response list to publish the Tatmeen solution responses to the message received by that system.

There are two elements in each entry of the status log response:

- Log type

- Log Message

Type	Meaning
S	Successful
W	Successful with Warnings
E	Application Error
A	Technical Error
C	Cancelled
U	Unknown

Table 56 Message Status Query Types

5.11.1 Message Status Query

```
<?xml version="1.0" encoding="utf-8"?>
<tatmeenMsgStatusQuery>
 <language>E</language>
 <instanceIdentifier>52540081D8101edA8FA0FF68B3CA74E3</instanceIdentifier>
</tatmeenMsgStatusQuery>
```

Table 57 Message Status Query Example

5.11.2 Message Status Query Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<tatmeenResponse>
    <instanceIdentifier>52540081D8101edA8FA0FF68B3CA74E3</instanceIdentifier>
    <messagestatus>A  - Technical Error</messagestatus>
<logList>
    <log>
        <type>A</type>
        <message>Object Event failed, all changes in the event have been reverted</message>
    </log>
    <log>
        <type>E</type>
        <message>Event on 18.11.2021 12:02:11 failed. (1)</message>
    </log>
    <log>
        <type>E</type>
        <message>Activity packing is invalid as object does not exist</message>
    </log>
    <log>
```

```
        <type>I</type>
        <message>Invalid object: 123456.3111113.ASADSFSDSRT(SGTIN)</message>
    </log>
</logList>
</tatmeenResponse>
```

Table 58 Message Query Response Example

5.12 Product Verification Service

The Tatmeen system provides a product verification service where the Distributor sends a query message to the Tatmeen solution to determine the status of an object (SGTIN or SSCC) that are located at the Distributor's facility.

The response from the Tatmeen solution provides a confirmation of the object ID and the current status of the successfully queried object.

5.12.1 SGTIN Product Verification Query

```
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope">
    <env:Header/>
    <env:Body>
            <ProductVerificationRequest>
                    <GeoLatitude/>
                    <GeoLongitude/>
                    <Language>E</Language>
                    <ProductID>urn:epc:id:sgtin:6295000041.055.01118926886313825</ProductID>
            </ProductVerificationRequest>
    </env:Body>
</env:Envelope>
```

Table 59 SGTIN Product Verification Query Example

5.12.2 SSCC Product Verification Query

```
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope">
    <env:Header/>
    <env:Body>
            <ProductVerificationRequest>
                    <GeoLatitude/>
                    <GeoLongitude/>
                    <Language>E</Language>
                    <ProductID> urn:epc:id:sscc:6033923.1189268863</ProductID>
            </ProductVerificationRequest>
```

```
      </env:Body>
    </env:Envelope>
```

Table 60 SGTIN Product Verification Query Example

5.12.3 Product Verification Success Response

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
  <soap:Header/>
  <soap:Body>
    <ProductVerificationResponse>
      <ProductDetails>
        <ProductID>(01)06295000041557(21)01118926886313825</ProductID>
        <GLN>6295000041663</GLN>
        <LocationName>AL Taweelah Medical Center</LocationName>
        <LocationNumber>
          <RegulationAuthority>DHCC</RegulationAuthority>
          <RegulationLicense>132</RegulationLicense>
        </LocationNumber>
        <GeoLongitude>25.111144586569</GeoLongitude>
        <GeoLatitude>55.280821232987</GeoLatitude>
        <ProductDescription>LacArte Splash EDO 100mg LacArte Splash EDO 100mg</ProductDescription
>
        <LotNumber>PKY11417</LotNumber>
        <DateOfManufacture>2023-05-24</DateOfManufacture>
        <DateOfExpiry>2022-01-15</DateOfExpiry>
      </ProductDetails>
      <ProductStatusList>
        <ProductStatus>
          <Status>Active</Status>
        </ProductStatus>
        <ProductStatus>
          <Status>Status 2</Status>
        </ProductStatus>
      </ProductStatusList>
    </ProductVerificationResponse>
  </soap:Body>
</soap:Envelope>
```

Table 61 Product Verification Success Response Example

5.12.4 Product Verification Error Response

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
```

```
    <soap:Header/>
    <soap:Body>
      <ProductVerificationResponse>
        <LogList>
          <Log>
            <Type>E</Type>
            <code>E016</code>
            <Message>ID urn:epc:id:sgtin:6295000041.055.01118926886314825 is not verified successfully!.
</Message>
          </Log>
        </LogList>
      </ProductVerificationResponse>
    </soap:Body>
  </soap:Envelope>
```

Table 62 Product Verification Error Response Example

6 EPCIS Message Summary

Activity	Field	Event Type	Action Type	EPC(List)	Business Step	Disposition	Business Transaction Type	Read Point	Business Location
	XML Tag	variable	\<action\>	variable	\<bizstep\>	\<disposition\>	\<bizTransactionType\>	\<readPoint\>	\<bizLocation\>
	Dimension	EVENT		WHAT	WHY			WHERE	
Registering serialised object		\<ObjectEvent\>	ADD	\<epc\> sgtin; sscc	commissioning	active		sgln	sgln
Aggregation - packing		\<AggregationEvent\>	ADD	\<parentID\> sgtin; sscc \<epc\> sgtin; sscc	packing			sgln	sgln
Aggregation - unpacking		\<AggregationEvent\>	DELETE	\<parentID\> sgtin; sscc \<epc\> null	unpacking			sgln	sgln
Shipping		\<ObjectEvent\>	OBSERVE	\<epc\> sgtin; sscc	shipping	in_transit	desadv	sgln	
Shipping Return		\<ObjectEvent\>	OBSERVE	\<epc\> sgtin; sscc	shipping	returned	desadv rma	sgln	
Receiving		\<ObjectEvent\>	OBSERVE	\<epc\> sgtin; sscc	receiving	in_progress	recadv	sgln	sgln
Receiving Returns		\<ObjectEvent\>	OBSERVE	\<epc\> sgtin; sscc	receiving	returned	recadv	sgln	sgln
Blocking		\<ObjectEvent\>	OBSERVE	\<epc\> sgtin; sscc lgtin	updating	blocking		sgln	sgln
Unblocking		\<ObjectEvent\>	OBSERVE	\<epc\> sgtin; sscc	updating	unblocking		sgln	sgln

Activity	Field	Event Type	Action Type	EPC(List)	Business Step	Disposition	Business Transaction Type	Read Point	Business Location
	XML Tag	variable	<action>	variable	<bizstep>	<disposition>	<bizTransactionType>	<readPoint>	<bizLocation>
	Dimension	EVENT		WHAT	WHY			WHERE	
				lgtin					
Sample		<ObjectEvent>	OBSERVE	<epc> sgtin; sscc	inspecting	destroyed		sgln	sgln
Destroyed		<ObjectEvent>	DELETE	<epc> sgtin; sscc	destroying	destroyed		sgln	sgln
Damaged		<ObjectEvent>	DELETE	<epc> sgtin; sscc	decommissioning	destroyed		sgln	sgln
Stolen		<ObjectEvent>	DELETE	<epc> sgtin; sscc	decommissioning	stolen		sgln	sgln
Export		<ObjectEvent>	OBSERVE	<epc> sgtin; sscc	decommissioning	non_sellable_other		sgln	sgln
Lost		<ObjectEvent>	OBSERVE	<epc> sgtin; sscc	decommissioning	inactive		sgln	sgln

Table 63 Summary of EPCIS Message Constant Values

NOTES:

1. The Action Types apply to the actions being applied to the EPCs in the 'WHAT' dimension above.

2. The 'WHEN' and 'EXTENSION' dimensions are omitted from this table for simplicity.

7 Glossary

General short terms and abbreviations can be found in the Global Glossary (see references).

Short Term	Description
3PL	3rd Party Logistics
API	Application Programming Interface
EPCIS	Electronic Product Code Information Services
ESB	Enterprise Service Bus
GTIN	Global Trade Item Number
HTTP(s)	Hypertext Transfer Protocol
ILMD	Item Level Master Data is the GS1 EPCIS master data extension segment within the product item commissioning event.
MAH	Marketing Authorization Holder
REST	Representational State Transfer
SC	Supply Chain
SGTIN	Serialized Global Trade Item Number
SPOC	Single Point of Contact, being the individual in a business partner organisation responsible for managing the interactions with the Tatmeen system.
SSCC	Serial Shipping Container Code
UTC	Coordinated Universal Time, which is the time standard commonly used across the world.
VPN	Virtual Private Network
WSDL	Web Service Definition Language
XML	Extensible Markup Language

Table 64 Glossary