



Egyptian Drug Authority

XML Commissioning, Packing, and Shipping in Masar B2B EPCIS Events Year 2026

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1. Overview

The Masar Track & Trace platform accepts EPCIS events in two primary XML shapes:

1. **B2B Partner XML (SOAP-wrapped EPCIS 1.2)** — used by external manufacturers, distributors, and pharmacies integrating via the B2B gateway.
2. **Dashboard Bulk XML (bare EPCIS 1.2)** — used by internal operators uploading files through the web dashboard.

Both formats share the same core EPCIS 1.2 schema (urn:epcglobal:epcis:xsd:1) and the same SBDH (Standard Business Document Header) structure. The principal difference is whether the document is wrapped in a SOAP envelope and which HTTP endpoint receives it.

This document explains:

- The XML structure for **commissioning, packing, and shipping** events.
- Required fields and their meaning.
- Concrete XML examples for each event type.
- How the B2B Postman XML differs from the Dashboard Bulk Upload XML.
- Where each XML format is generated and submitted in the frontend.
- How the backend processes each path.

2. EPCIS XML Foundations

2.1 Namespace Map

Prefix	Namespace URI	Purpose
`epcis`	`urn:epcglobal:epcis:xsd:1`	EPCIS 1.2 document body
`sbdh`	`http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader`	GS1 SBDH envelope

`cbvmd a`	`urn:epcglobal:cbv:mda`	Core Business Vocabular y master data (lot, expiry)
`eptts`	`http://eptts.eg/epcis/`	Egyptian Track & Trace extensions (permit, origin, reason codes)
`soap`	`http://www.w3.org/2003/05/soap-envelope`	SOAP 1.2 wrapper (B2B only)

2.2 SBDH Header (StandardBusinessDocumentHeader)

Every EPCIS XML submission — B2B or Dashboard — must include an SBDH header inside <EPCISHeader>. The SBDH carries routing and traceability metadata.

Element	Required	Meaning
`sbdh:HeaderVersion`	Yes	Always `1.3`
`sbdh:Sender / sbdh:Identifier`	Yes	13-digit GLN of the submitting party. Must match the authenticated entity.
`sbdh:Receiver / sbdh:Identifier`	Yes	13-digit GLN of the counterparty. For internal commissioning/packing, receiver may equal sender.

`sbdh:DocumentIdentification / sbdh:Standard`	Yes	Always `EPCGlobal`
`sbdh:DocumentIdentification / sbdh:TypeVersion`	Yes	Always `1.0`
`sbdh:DocumentIdentification / sbdh:InstanceIdentifier`	Yes	Unique message ID. 32–40 alphanumeric characters. Used for idempotency and status polling.
`sbdh:DocumentIdentification / sbdh:Type`	Yes	Always `Events`
`sbdh:DocumentIdentification / sbdh:CreationDateAndTime`	Yes	ISO-8601 timestamp with offset.

3. XML Commissioning

Commissioning registers new serialised trade items (SGTINs) or logistic containers (SSCCs) into the system. It is an **ObjectEvent** with action=ADD.

3.1 Required Fields — Commissioning ObjectEvent

Field	Required	Meaning
`eventTime`	Yes	ISO-8601 timestamp when the event occurred.
`eventTimeZoneOffset`	Yes	Timezone offset, e.g. `+02:00` or `+03:00`.
`epcList / epc`	Yes	One or more SGTIN URNs (`urn:epc:id:sgtin:...`) or SSCC URNs (`urn:epc:id:sscc:...`).
`action`	Yes	Always `ADD` for commissioning.
`bizStep`	Yes	`urn:epcglobal:cbv:bizstep:commissioning`
`disposition`	Yes	`urn:epcglobal:cbv:disp:active`
`readPoint / id`	Yes	SGLN URN of the physical location where commissioning occurred.
`bizLocation / id`	Yes	SGLN URN of the business location. Usually identical to `readPoint`.

`extension / ilmd / cbvmda:lotNumber`	Yes*	Required for **product** SGTINs (not for pure SSCC containers). The batch/lot number.
`extension / ilmd / cbvmda:itemExpirationDate`	Yes*	Required for product SGTINs. Format: `YYYY-MM-DD`.
`eptts:lotManufacturingDate`	No	EPTTS extension. Manufacturing date (`YYYY-MM-DD`).
`eptts:manufacturingOrigin`	No	EPTTS extension. Origin code, e.g. `L` for local.
`eptts:shipmentPermit`	No	EPTTS extension. Permit reference number.

*ILMD is mandatory for product-level commissioning (SGTINs) and omitted for pure logistic containers (SSCCs).

3.2 Commissioning XML Example (B2B / SOAP-wrapped)

This is the exact shape used in the **Postman B2B collection** and by external partners. It commissions a unit SGTIN with lot and expiry data.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
  xmlns:urn="urn:sap-com:document:sap:soap:functions:mc-style">
  <soap:Header/>
  <soap:Body>
    <epcis:EPCISDocument schemaVersion="1.2"
      creationDate="2026-05-05T10:00:00+03:00"
      xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
      xmlns:epcis="urn:epcglobal:epcis:xsd:1"
      xmlns:cbvmda="urn:epcglobal:cbv:mda"
      xmlns:eptts="http://eptts.eg/epcis/">

      <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
          <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
          <sbdh:Sender>
            <sbdh:Identifier Authority="GS1">5413868000009</sbdh:Identifier>
          </sbdh:Sender>
          <sbdh:Receiver>
            <sbdh:Identifier Authority="GS1">9506000140476</sbdh:Receiver>
          </sbdh:Receiver>
        </EPCISHeader>
      </epcis:EPCISDocument>
    </soap:Body>
  </soap:Envelope>
```

```

<sbdh:DocumentIdentification>
  <sbdh:Standard>EPCGlobal</sbdh:Standard>
  <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
  <sbdh:InstanceIdentifier>a1b2c3d4e5f67890abcdef1234567890</sbdh:InstanceIdentifier>
  <sbdh:Type>Events</sbdh:Type>
  <sbdh:CreationDateAndTime>2026-05-05T10:00:00+03:00</sbdh:CreationDateAndTime>
</sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>

<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2026-05-05T10:00:00+03:00</eventTime>
      <eventTimeZoneOffset>+03:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:5413868.011042.SN00000001</epc>
        <epc>urn:epc:id:sgtin:5413868.011042.SN00000002</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:5413868.00000.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:5413868.00000.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>LOT-MFG-001</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2028-12-31</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
  </EventList>
</EPCISBody>

</epcis:EPCISDocument>
</soap:Body>
</soap:Envelope>

```

4. XML Packing (Aggregation)

Packing groups individual packs (SGTINs) into a parent container (SSCC). It is modelled as an **AggregationEvent** with action=ADD and bizStep=packing.

4.1 Required Fields — Packing AggregationEvent

Field	Required	Meaning
`eventTime`	Yes	ISO-8601 timestamp when packing occurred.
`eventTimeZoneOffset`	Yes	Timezone offset.
`parentID`	Yes	Parent container URN. For packing this is an **SSCC** (<code>urn:epc:id:sscc:...</code>). For multi-level aggregation, a case SGTIN can also be a parent.
`childEPCs / epc`	Yes	One or more child SGTIN URNs being packed into the parent.
`action`	Yes	Always `ADD` for packing.
`bizStep`	Yes	<code>urn:epcglobal:cbv:bizstep:packing`</code>
`readPoint / id`	Yes	SGLN URN of the packing location.
`bizLocation / id`	Yes	SGLN URN of the business location.
`disposition`	Yes	<code>urn:epcglobal:cbv:disp:active`</code> (Masar validator requires disposition on **all** events, including AggregationEvents).

4.2 Multi-Level Packing

The platform supports two levels of aggregation:

- **Level 1 (Case):** packs (SGTINs) aggregated into a case (SSCC or case SGTIN).
- **Level 2 (Pallet):** cases (child SSCCs or case SGTINs) aggregated into a pallet SSCC.

When childEPCs contain SSCC URNs instead of SGTIN URNs, the parser marks the aggregation as level: 2 (pallet).

4.3 Packing XML Example (B2B / SOAP-wrapped)

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
  xmlns:urn="urn:sap-com:document:sap:soap:functions:mc-style">
  <soap:Header/>
  <soap:Body>
    <epcis:EPCISDocument schemaVersion="1.2"
      creationDate="2026-05-05T10:00:00+03:00"
      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">5413868000009</sbdh:Identifier>
          </sbdh:Sender>
          <sbdh:Receiver>
            <sbdh:Identifier Authority="GS1">9506000140476</sbdh:Receiver>
          </sbdh:Receiver>
          <sbdh:DocumentIdentification>
            <sbdh:Standard>EPCGlobal</sbdh:Standard>
            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
            <sbdh:InstanceIdentifier>a1b2c3d4e5f67890abcdef1234567890</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
            <sbdh:CreationDateAndTime>2026-05-05T10:00:00+03:00</sbdh:CreationDateAndTime>
          </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
      </EPCISHeader>

      <EPCISBody>
        <EventList>
          <AggregationEvent>
            <eventTime>2026-05-05T10:00:00+03:00</eventTime>
            <eventTimeZoneOffset>+03:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sscc:05413868.00990000001</parentID>
            <childEPCs>
              <epc>urn:epc:id:sgtin:5413868.011042.SN00000001</epc>
              <epc>urn:epc:id:sgtin:5413868.011042.SN00000002</epc>
            </childEPCs>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
            <disposition>urn:epcglobal:cbv:disp:active</disposition>
            <readPoint>
```



```

    <id>urn:epc:id:sgln:5413868.00000.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:5413868.00000.0</id>
  </bizLocation>
</AggregationEvent>
</EventList>
</EPCISBody>

</epcis:EPCISDocument>
</soap:Body>
</soap:Envelope>

```

5. XML Shipping

Shipping records the transfer of ownership or custody of packs or containers from one party to another. It is an **ObjectEvent** with action=OBSERVE and bizStep=shipping.

5.1 Required Fields — Shipping ObjectEvent

Field	Required	Meaning
`eventTime`	Yes	ISO-8601 timestamp when the shipment left the source.
`eventTimeZoneOffset`	Yes	Timezone offset.
`epcList / epc`	Yes	One or more SGTIN or SSCC URNs being shipped.
`action`	Yes	Always `OBSERVE` for shipping.
`bizStep`	Yes	`urn:epcglobal:cbv:bizstep:shipping`
`disposition`	Yes	`urn:epcglobal:cbv:disp:in_transit`
`readPoint / id`	Yes	SGLN URN of the departure location.
`bizLocation / id`	Yes	SGLN URN of the source business location.
`extension / sourceList / source`	Yes	Ownership transfer source. `type` must be `urn:epcglobal:cbv:sdt:owning_party`. Value is the source SGLN URN.
`extension / destinationList / destination`	Yes	Ownership transfer destination. `type` must be `urn:epcglobal:cbv:sdt:owning_party`. Value is the destination SGLN URN.

`bizTransactionList / bizTransaction`	No	DESADV (dispatch advice) or invoice reference. `type` = `urn:epcglobal:cbv:btt:desadv`.
--	----	---

****Important****: The `sourceList` and `destinationList` inside `` are ****mandatory**** for shipping events because they declare the ownership transfer. The parser only extracts

****Multi-Level Aggregation Status Behavior****: When you ship a ****pallet**** (level-2 SSCC), the system updates the pallet's own `aggregations.status` to `IN\_TRANSIT`, updates every ****pack**** (SGTIN) under it to `IN\_TRANSIT`, and also cascades `IN\_TRANSIT` to the ****child boxes**** (level-1 SSCCs) inside the pallet. This ensures the entire hierarchy moves together. The same cascade applies on receive: a pallet and all its child boxes transition to `RECEIVED` (and their packs to `ACTIVE`).

5.2 Shipping XML Example (Dashboard Bulk Upload / Bare EPCIS)

This example continues the same commissioning flow above. The manufacturer (GLN 5413868000009) now ships the **pallet SSCC** to the branch (GLN 9506000140476). It is **not** wrapped in SOAP.

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
SHIPPING — Manufacturer ships pallet to Branch.
Pallet: urn:epc:id:sscc:5413868.0260426001 (packed in Section 6 example)
Submit to: POST /masar-service/api/v1/epcis
Headers: Authorization: Bearer <jwt>, Content-Type: application/xml
Returns: 202 + { messageId, status: "RECEIVED" }
-->
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2026-04-26T10:30:00+02:00"
  xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
  xmlns:epcis="urn:epcglobal:epcis:xsd:1"
  xmlns:cbvmda="urn:epcglobal:cbv:mda"
  xmlns:eppts="http://eppts.eg/epcis/">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GS1">5413868000009</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GS1">9506000140476</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCGlobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>SHIP20260426PALLET000000000001</sbdh:InstanceIdentifier>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
  </EPCISHeader>
</epcis:EPCISDocument>
```

```

<sbdh:Type>Events</sbdh:Type>
<sbdh:CreationDateAndTime>2026-04-26T10:30:00+02:00</sbdh:CreationDateAndTime>
</sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2026-04-26T10:30:00+02:00</eventTime>
      <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
      <epcList>
        <!-- The pallet SSCC commissioned & packed in Section 6 -->
        <epc>urn:epc:id:sscc:5413868.0260426001</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:5413868.00000.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:5413868.00000.0</id>
      </bizLocation>
      <extension>
        <sourceList>
          <source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:5413868.00000.0</source>
        </sourceList>
        <destinationList>
          <destination type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:9506000.14047.0</destination>
        </destinationList>
      </extension>
      <bizTransactionList>
        <bizTransaction type="urn:epcglobal:cbv:btt:desadv">DESADV-20260426-001</bizTransaction>
      </bizTransactionList>
    </ObjectEvent>
  </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

You may also list individual SGTINs in ``<epcList>`` if shipping loose packs instead of a pallet. For example: ``<epc>urn:epc:id:sgtin:5413868.011042.S260426001</epc>``.

5.3 Shipping XML Example (SOAP-wrapped / B2B)

The same shipment as Section 5.2, wrapped in SOAP for the B2B gateway.

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
  xmlns:urn="urn:sap-com:document:sap:soap:functions:mc-style">
  <soap:Header/>
  <soap:Body>
    <epcis:EPCISDocument schemaVersion="1.2" creationDate="2026-04-26T10:30:00+02:00"
      xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
      xmlns:epcis="urn:epcglobal:epcis:xsd:1"
      xmlns:cbvmda="urn:epcglobal:cbv:mda"
      xmlns:epts="http://epts.eg/epcis/">
      <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
          <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
          <sbdh:Sender>
            <sbdh:Identifier Authority="GS1">5413868000009</sbdh:Identifier>
          </sbdh:Sender>
          <sbdh:Receiver>
            <sbdh:Identifier Authority="GS1">9506000140476</sbdh:Identifier>
          </sbdh:Receiver>
          <sbdh:DocumentIdentification>
            <sbdh:Standard>EPCGlobal</sbdh:Standard>
            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
            <sbdh:InstanceIdentifier>SHIP20260426PALLET000000000001</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
            <sbdh:CreationDateAndTime>2026-04-26T10:30:00+02:00</sbdh:CreationDateAndTime>
          </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
      </EPCISHeader>
      <EPCISBody>
        <EventList>
          <ObjectEvent>
            <eventTime>2026-04-26T10:30:00+02:00</eventTime>
            <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
            <epcList>
              <epc>urn:epc:id:sscc:5413868.0260426001</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:5413868.00000.0</id>
            </readPoint>
          </ObjectEvent>
        </EventList>
      </EPCISBody>
    </epcis:EPCISDocument>
  </soap:Body>
</soap:Envelope>
```

```
<bizLocation>
  <id>urn:epc:id:sgln:5413868.00000.0</id>
</bizLocation>
<extension>
  <sourceList>
    <source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:5413868.00000.0</source>
  </sourceList>
  <destinationList>
    <destination type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:9506000.14047.0</destination>
  </destinationList>
</extension>
<bizTransactionList>
  <bizTransaction type="urn:epcglobal:cbv:btt:desadv">DESADV-20260426-001</bizTransaction>
</bizTransactionList>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>
</soap:Body>
</soap:Envelope>
```

6. Combined Commission + Pack Example

Manufacturers often submit commissioning and packing in a **single XML file** containing multiple events. This reduces round-trips and ensures atomic visibility.

The sample below shows a valid multi-level aggregation flow. The Masar system requires parentID in AggregationEvents to be an **SSCC URN** (urn:epc:id:sscc:...). It shows: 1. Commission of a unit SGTIN. 2. Commission of a case SSCC. 3. Commission of a pallet SSCC. 4. Pack unit SGTIN into case SSCC (AggregationEvent). 5. Pack case SSCC into pallet SSCC (AggregationEvent).

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
  xmlns:urn="urn:sap-com:document:sap:soap:functions:mc-style">
  <soap:Header/>
  <soap:Body>
    <epcis:EPCISDocument schemaVersion="1.2"
      creationDate="2026-04-26T10:00:00+02:00"
      xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
      xmlns:epcis="urn:epcglobal:epcis:xsd:1"
      xmlns:cbvmda="urn:epcglobal:cbv:mda"
      xmlns:epts="http://epts.eg/epcis/">
```

```

<EPCISHeader>
  <sbdh:StandardBusinessDocumentHeader>
    <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
    <sbdh:Sender>
      <sbdh:Identifier Authority="GS1">5413868000009</sbdh:Identifier>
    </sbdh:Sender>
    <sbdh:Receiver>
      <sbdh:Identifier Authority="GS1">5413868000009</sbdh:Identifier>
    </sbdh:Receiver>
    <sbdh:DocumentIdentification>
      <sbdh:Standard>EPCGlobal</sbdh:Standard>
      <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
      <sbdh:InstanceIdentifier>EPCIS-CYCLE-260426-01-COMMISSION</sbdh:InstanceIdentifier>
      <sbdh:Type>Events</sbdh:Type>
      <sbdh:CreationDateAndTime>2026-04-26T10:00:00+02:00</sbdh:CreationDateAndTime>
    </sbdh:DocumentIdentification>
  </sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>

    <!-- Commission unit SGTIN -->
    <ObjectEvent>
      <eventTime>2026-04-26T10:00:01+02:00</eventTime>
      <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:5413868.011042.S260426001</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:5413868.00000.0</id></readPoint>
      <bizLocation><id>urn:epc:id:sgln:5413868.00000.0</id></bizLocation>
      <extension>
        <ilmd>
          <cbvmdata:lotNumber>BATCH-260426</cbvmdata:lotNumber>
          <cbvmdata:itemExpirationDate>2027-12-31</cbvmdata:itemExpirationDate>
        </ilmd>
      </extension>
      <eptts:lotManufacturingDate>2026-01-15</eptts:lotManufacturingDate>
      <eptts:manufacturingOrigin>L</eptts:manufacturingOrigin>
      <eptts:shipmentPermit>SHP/MP/00000/2026</eptts:shipmentPermit>
    </ObjectEvent>

    <!-- Commission case SSCC -->
    <ObjectEvent>

```

```

<eventTime>2026-04-26T10:00:02+02:00</eventTime>
<eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
<epcList>
  <epc>urn:epc:id:sscc:5413868.0260426002</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:5413868.00000.0</id></readPoint>
<bizLocation><id>urn:epc:id:sgln:5413868.00000.0</id></bizLocation>
</ObjectEvent>

<!-- Commission pallet SSCC -->
<ObjectEvent>
  <eventTime>2026-04-26T10:00:03+02:00</eventTime>
  <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:5413868.0260426001</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:5413868.00000.0</id></readPoint>
  <bizLocation><id>urn:epc:id:sgln:5413868.00000.0</id></bizLocation>
</ObjectEvent>

<!-- Pack unit SGTIN into case SSCC -->
<AggregationEvent>
  <eventTime>2026-04-26T10:00:04+02:00</eventTime>
  <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:5413868.0260426002</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:5413868.011042.S260426001</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint><id>urn:epc:id:sgln:5413868.00000.0</id></readPoint>
  <bizLocation><id>urn:epc:id:sgln:5413868.00000.0</id></bizLocation>
</AggregationEvent>

<!-- Pack case SSCC into pallet SSCC -->
<AggregationEvent>
  <eventTime>2026-04-26T10:00:05+02:00</eventTime>
  <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:5413868.0260426001</parentID>

```

```

<childEPCs>
  <epc>urn:epc:id:sscc:5413868.0260426002</epc>
</childEPCs>
<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
<disposition>urn:epcglobal:cbv:disp:active</disposition>
<readPoint><id>urn:epc:id:sgln:5413868.00000.0</id></readPoint>
<bizLocation><id>urn:epc:id:sgln:5413868.00000.0</id></bizLocation>
</AggregationEvent>

</EventList>
</EPCISBody>
</epcis:EPCISDocument>
</soap:Body>
</soap:Envelope>

```

7.Receiving

7.1 Receiving Event Overview

A **receiving event** confirms that a shipped item (SSCC or SGTIN) has arrived at its destination. The Masar backend processes receiving EPCIS events through ReceivingOperationHandler, which validates that the receiver GLN matches the shipment's original destination, then transitions packs from IN_TRANSIT → ACTIVE and aggregations from IN_TRANSIT → RECEIVED.

Key receiving rules:

- **Sequential guard:** Packs must be IN_TRANSIT before receiving. Already-ACTIVE packs at the same GLN cause the event to be skipped as a duplicate.
- **Destination match:** The readPoint GLN must match the shipment's destinationGln. Only the intended recipient can receive.
- **Multi-level aware:** Receiving a pallet SSCC cascades to all child boxes and their packs.

7.2 Required Fields

Element	Required	Meaning
`eventTime`	Yes	ISO-8601 timestamp with offset. Must be after the corresponding shipping event's `eventTime`.

`eventTimeZoneOffset`	Yes	Timezone offset, e.g. `+02:00`.
`epcList / epc`	Yes	One or more URN identifiers. For pallet-level receiving, use the **pallet SSCC** URN (<code>urn:epc:id:sscc:...</code>). For loose packs, list individual SGTINs.
`action`	Yes	Always `OBSERVE` for receiving.
`bizStep`	Yes	<code>urn:epcglobal:cbv:bizstep:receiving`</code>
`disposition`	Yes	<code>urn:epcglobal:cbv:disp:active`</code> (packs become active at destination).
`readPoint / id`	Yes	GLN of the receiving location. Must match the shipment destination GLN.
`bizLocation / id`	Yes	Same as `readPoint`.
`bizTransactionList / bizTransaction`	No	Optional DESADV or invoice reference.

****Note**:** Unlike shipping events, receiving events ****do not require**** `<sourceList>` and `<destinationList>` inside `<extension>`. The backend derives the source/destination relationship from the shipment record already stored in the database.

7.3 Receiving XML Example (Dashboard Bulk Upload / Bare EPCIS)

This example receives the **pallet SSCC** shipped in Section 5. The branch (GLN 9506000140476) confirms receipt of the pallet from the manufacturer.

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
RECEIVING — Branch receives pallet from Manufacturer.
Pallet: urn:epc:id:sscc:5413868.0260426001 (shipped in Section 5.2)
Submit to: POST /masar-service/api/v1/epcis
Headers: Authorization: Bearer <jwt>, Content-Type: application/xml
Returns: 202 + { messageId, status: "RECEIVED" }
-->
<epcis:EPCISDocument schemaVersion="1.2" creationDate="2026-04-26T14:00:00+02:00"
  xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
  xmlns:epcis="urn:epcglobal:epcis:xsd:1"
  xmlns:cbvmda="urn:epcglobal:cbv:mda"
  xmlns:eppts="http://eppts.eg/epcis/">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
```

```

<sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
<sbdh:Sender>
  <sbdh:Identifier Authority="GS1">9506000140476</sbdh:Identifier>
</sbdh:Sender>
<sbdh:Receiver>
  <sbdh:Identifier Authority="GS1">9506000140476</sbdh:Identifier>
</sbdh:Receiver>
<sbdh:DocumentIdentification>
  <sbdh:Standard>EPCGlobal</sbdh:Standard>
  <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
  <sbdh:InstanceIdentifier>RCV20260426PALLET000000000001</sbdh:InstanceIdentifier>
  <sbdh:Type>Events</sbdh:Type>
  <sbdh:CreationDateAndTime>2026-04-26T14:00:00+02:00</sbdh:CreationDateAndTime>
</sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2026-04-26T14:00:00+02:00</eventTime>
      <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
      <epcList>
        <!-- The pallet SSCC shipped in Section 5.2 -->
        <epc>urn:epc:id:sscc:5413868.0260426001</epc>
      </epcList>
      <action>OBSERVE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:9506000.14047.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:9506000.14047.0</id>
      </bizLocation>
      <bizTransactionList>
        <bizTransaction type="urn:epcglobal:cbv:btt:desadv">DESADV-20260426-001</bizTransaction>
      </bizTransactionList>
    </ObjectEvent>
  </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

You may also list individual SGTINs in ``<epcList>`` if receiving loose packs instead of a pallet. For example: ``<epc>urn:epc:id:sgtin:5413868.011042.S260426001</epc>``.

7.4 Receiving XML Example (SOAP-wrapped / B2B)

The same receipt as Section 7.3, wrapped in SOAP for the B2B gateway.

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
  xmlns:urn="urn:sap-com:document:sap:soap:functions:mc-style">
  <soap:Header/>
  <soap:Body>
    <epcis:EPCISDocument schemaVersion="1.2" creationDate="2026-04-26T14:00:00+02:00"
      xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
      xmlns:epcis="urn:epcglobal:epcis:xsd:1"
      xmlns:cbvmda="urn:epcglobal:cbv:mda"
      xmlns:epts="http://epts.eg/epcis/">
      <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
          <sbdh:HeaderVersion>1.3</sbdh:HeaderVersion>
          <sbdh:Sender>
            <sbdh:Identifier Authority="GS1">9506000140476</sbdh:Identifier>
          </sbdh:Sender>
          <sbdh:Receiver>
            <sbdh:Identifier Authority="GS1">9506000140476</sbdh:Identifier>
          </sbdh:Receiver>
          <sbdh:DocumentIdentification>
            <sbdh:Standard>EPCGlobal</sbdh:Standard>
            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
            <sbdh:InstanceIdentifier>RCV20260426PALLET000000000001</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
            <sbdh:CreationDateAndTime>2026-04-26T14:00:00+02:00</sbdh:CreationDateAndTime>
          </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
      </EPCISHeader>
      <EPCISBody>
        <EventList>
          <ObjectEvent>
            <eventTime>2026-04-26T14:00:00+02:00</eventTime>
            <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
            <epcList>
              <epc>urn:epc:id:sscc:5413868.0260426001</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:active</disposition>
            <readPoint>
              <id>urn:epc:id:sgln:9506000.14047.0</id>
            </readPoint>
          </ObjectEvent>
        </EventList>
      </EPCISBody>
    </epcis:EPCISDocument>
  </soap:Body>
</soap:Envelope>
```

```

<bizLocation>
  <id>urn:epc:id:sgln:9506000.14047.0</id>
</bizLocation>
<bizTransactionList>
  <bizTransaction type="urn:epcglobal:cbv:btt:desadv">DESADV-20260426-001</bizTransaction>
</bizTransactionList>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>
</soap:Body>
</soap:Envelope>

```

*****Multi-Level Aggregation Status Behavior on Receive**:*** When you receive a *****pallet***** (level-2 SSCC), the system updates the pallet's own `aggregations.status` to `RECEIVED`, updates every *****pack***** (SGTIN) under it to `ACTIVE`, and also cascades `RECEIVED` to the *****child boxes***** (level-1 SSCCs) inside the pallet. This mirrors the shipping cascade and ensures the entire hierarchy moves together.

8. Schema Differences: Postman B2B XML vs Dashboard Bulk XML

8.1 Summary of Differences

Aspect	Postman B2B XML	Dashboard Bulk XML
SOAP envelope	Wrapped in <soap:Envelope>	**No SOAP wrapper** — root is <epcis:EPCISDocument>
Content-Type	application/xml	application/xml
EPCIS version	1.2	1.2
SBDH header	Required inside <EPCISHeader>	Required inside <EPCISHeader>
Schema root	<soap:Envelope> ... <soap:Body> <epcis:EPCISDocument> ...	<epcis:EPCISDocument> ...
Typical use case	External partner system integration	Internal operator file upload
Events per file	Single or multiple	Single or multiple
Async response	202 Accepted + messageId	202 Accepted + messageId