



Posti

Detailed instructions for OutItemMaster XML usage

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Document Revision History

REVISION	Date	Description (Changes Made)	Author
	5.9.2017	Added ItemList/Item/AlternateUOMList.	Maria Salo
	21.12.2017	Fixed typing mistake: GlobalItemId -> GlobalItemID.	Maria Salo

Document Approval History

Name	Signature	Date	Version Approved / Comments

Related or Reference Documents

Document Name	Description	Owner	Location
OutItemMaster.xml	Description of OutItemMaster XML fields		
OutItemMaster	Example of OutItemMaster XML file		

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1 General

1.1 Purpose

OutItemMaster is the standard way to interact item information with Posti Logistics' services and it consists item information from Posti WMS to the Principal.

Purpose of this document is to define technically how OutItemMaster message is used and what kind of data is sent back to the Principal.

Logistics' services between Posti and Principal are described in the contract done with Posti and the Principal.

If item information is sent back to the Principal it is agreed in the contract done with Posti and the Principal.

2 Overview

2.1 Item management principles

- Maintain items uniquely.
- Support lot control items. (e.g. Time Sensitive Items)
 - If Time Sensitive Items then FEFO (First expired , first out) methodologies are in use otherwise FIFO (First in first out)
- Support for Stackability restrictions. (e.g. How many pallets can be in a stack)
- Support for multiple item aliases. (e.g. EAN codes)
- Support for cost items
- Support serial tracked inventory.
- Define an item as fragile.
- Support for hazardous material handling.
- Item's dimension measurement and general logistic properties.

2.2 Technical Requirements

- Interface for application to application integration. (High volume customers)
- WMS online web application. (Low volume customers)

3 Assumptions and Dependencies

3.1 Assumptions

- Item can be inventory item or non-inventory item or packaging item
- Data is case sensitive
- Decimal separator is dot
- Date format is YYYY-MM-DDTHH:MM:SS+2:00

3.2 Dependences with agreed Posti WMS configurations

The following list consists values which are pre-defined by Posti.

- Unit of Measures

4 Item dimensions

4.1 Item dimensions

Item dimensions (weight, width, length, height) for new items are measured in the first receipt and send back to the Principal based on the contract.

5 Component Design

5.1 MetaData

MetaData is used for message quality control and routing purposes.

5.1.1 DocumentType

Name of the document. This is OutItemMaster

5.1.2 DateTime

Date and time of interface creation in integration platform.

5.1.3 SourceOrganization

Name of the organization to whom the Item Master is sent to (Principal identifier)

5.1.4 Language

Language code of the item masters in two-letter ISO format e.g. FI

5.1.5 ExternalUserId

Identifier of the principal in external system (OVT code)

5.1.6 MessageIdentifier

Identifier of the message which is unique at least in the scope of message sender.

- If customer has created a unique identifier, it will not be overwritten
 - If the field is empty, Posti will use a generated identifier (UUID)
- This MessageIdentifier can be used for troubleshooting purposes to uniquely identify any message that has been sent received by Posti integration environment.
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5.2 Item

5.2.1 Unit of measure (UOM)

Unit of measure code of the item masters in ISO format e.g. KG, M, H
Sales unit of measure and purchase unit of measure should be the same as inventory unit of measure. It is possible to do conversion in Sterling but it has to be discussed and be based on the contract with Principal and Posti.

5.2.2 GlobalItemID

Global Trade Item Number (GTIN). Used in GS1 labeling.
(More information see www.gs1.fi)

5.2.3 ItemID

Principal's unique identifier for an item.
From logistics point of view the best kind of item code is the code that can be easily used in warehousing - receiving, stocking and delivering.
E.g. EAN code can be used in both meanings – item code and EAN code.

5.3 Item/PrimaryInformation

If dimensions are not sent by principal, warehouse user will have the ability to manually measure items when they are received. They will enter item master dimensions to Participant's items in Posti WMS. Dimensions are sent to the Principal based on the agreement.

5.3.1 UnitWidthUOM

Unit of measure (CM = centimeter) in which item width is measured.

5.3.2 UnitWidth

The width of one unit of item quantity.

5.3.3 UnitWeightUOM

Unit of measure (KG = kilogram) in which item weight is measured.

5.3.4 UnitWeight

The weight of one unit of item quantity.

5.3.5 UnitLengthUOM

Unit of measure (CM = centimeter) in which item length is measured.

5.3.6 UnitLength

The length of one unit of item quantity.

5.3.7 UnitHeightUOM

Unit of measure (CM = centimeter) in which item height is measured.

5.3.8 UnitHeight

The height of one unit of item quantity.

5.3.9 Description

Item description.

5.4 Item/AlternateUOMList/AlternateUOM

5.4.1 UnitOfMeasure

Alternate UOM applicable for the item.

5.4.2 WidthUOM

Unit of measure (CM = centimeter) in which item width is measured.

5.4.3 Width

Width of an item with alternate UOM.

5.4.4 WeightUOM

Unit of measure (KG = kilogram) in which item weight is measured.

5.4.5 Weight

Weight of an item with alternate UOM.



5.4.6 Quantity

Conversion quantity to the inventory UOM.

5.4.7 LengthUOM

Unit of measure (CM = centimeter) in which item length is measured.

5.4.8 Length

Length of an item with alternate UOM.

5.4.9 HeightUOM

Unit of measure (CM = centimeter) in which item height is measured.

5.4.10 Height

Height of an item with alternate UOM.