

# **W**ORK ORDER INTEGRATION FROM PRINCIPAL TO POSTI WMS

# Posti

Detailed instructions for InWorkOrder XML usage

LAST UPDATED: 11-Mar-2020

VERSION: 1.0



# **Document Revision History**

Date	Description (Changes Made)	Author
21.10.2019	First version created.	Maria Hautala
25.1.2020	Updated and comments added.	Teemu Rämä
18.2.2020	Updated.	Maria Hautala
27.2.2020	Added WorkOrder/Action.	Maria Hautala
11.3.2020	Removed WorkOrder/AutoRelease.	Maria Hautala
	Added WorkOrder/Segment.	
	Added WorkOrder/SegmentType.	
	Added	
	WorkOrder/WorkOrderComponents/WorkO	
	rderComponent/Segment.	
	Added	
	WorkOrder/WorkOrderComponents/WorkO	
	rderComponent/SegmentType.	
	Added	
	WorkOrder/WorkOrderComponents/WorkO	
	rderComponent/WorkOrderComponentTag.	

# **Related or Reference Documents**

<b>Document Name</b>	Description		
InWorkOrder.xlsx	Description of InWorkOrder XML fields.		
InWorkOrder.xml	Example of InWorkOrder XML file.		

# **TABLE OF CONTENTS**

1	G	SENER	AL	5
	1.1	PU	RPOSE	5
2	(		VIEW	
	2.1		CHNICAL REQUIREMENTS REFERENCE	
_				
3	A	ASSUI	MPTIONS AND DEPENDENCIES	5
	3.1	As	SUMPTIONS	5
	3.2	DE	PENDENCIES	5
4	V	WORE	K ORDER MANAGEMENT	5
	4.1	Cp	EATE WORK ORDER AND ORDER LINES	5
	4.2		DATE WORK ORDER AND ORDER LINES	
5			PONENT DESIGN	
3				
	5.1		ORKORDER/METADATA	
	_	5.1.1	SourceOrganizationId	
		5.1.2 5.1.3	Language ExternalUserId	
		5.1.4	DocumentType	
		5.1.5	CreationDateTime	
		5.1.6	MessageIdentifier	
	5.2	Wo	DRKORDER	
	5	5.2.1	WorkOrderNo	6
		5.2.2	ItemID	
		5.2.3	Uom	
		5.2.4	ProductClass	
		5.2.5 5.2.6	QuantityRequested	
		5.2.0 5.2.7	StartNoEarlierThanFinishNoLaterThan	
		5.2.8	ServiceItemID	
		5.2.9	ServiceItemGroupCode	
		5.2.10	InvUpdateActivityCode	
		5.2.11	NodeKey	
		5.2.12	Purpose	
		5.2.13	Segment	
		5.2.14	SegmentType	
		5.2.15	Action	
	5.3	W(	ORKORDER/WORKORDERCOMPONENTS/WORKORDERCOMPONENT 1	٠U



5.3.1	ItemID	10
5.3.2	ProductClass	10
5.3.3	Uom	! 1
5.3.4	ComponentQuantity	1
5.3.5	Segment	1
5.3.6	SegmentType	1
5.4		
Wo	ORKORDER/WORKORDERCOMPONENTS/WORKORDERCOMPONENT/WORKORDERCOM	ΙP
ONENTTA	.G	1
5.4.1	LotNumber	1
5.5 Wo	ORKORDER/WORKORDERACTIVITIES/WORKORDERACTIVITY 1	1
5.5.1	ActivityCode	1
5.6		
Wo	ORKORDER/WORKORDERACTIVITIES/WORKORDERACTIVITY/WORKORDERACTIVITY	D
TL 12		
5.6.1	ActivityCode	
5.6.2	ActivityLocationId	
5.6.3	QuantityRequested	12



#### 1 General

#### 1.1 Purpose

InWorkOrder is the standard way to transfer work orders to Posti Logistics and it consists of work order information from principal to Posti WMS.

The purpose of this document is to define technically how InWorkOrder message is used and what kind of data is needed in Posti's systems.

The actual logistics services used are described in the contract between Posti and principal.

#### 2 Overview

#### 2.1 <u>Technical Requirements Reference</u>

• Interface for application to application integration. (High volume customers)

## 3 Assumptions and Dependencies

# 3.1 Assumptions

- Data is case sensitive.
- Decimal separator is dot.
- Date format is YYYY-MM-DDTHH:MM:SS+2:00.

#### 3.2 **Dependencies**

The following list consists of values which are pre-defined by Posti. More information later in this document.

- Unit of measure (more information in InItemMaster documentation).
- Product class.

## 4 Work Order management

#### 4.1 Create work order and order lines

If work order or line does not exist in Posti WMS, it will be created.

#### 4.2 Update work order and order lines

If work order exists in Posti WMS, it will be updated.



- Change in requested quantity, debit or credit.
- Cancellation of the order.
- Change StartNoEarlierThan and/or FinishNoLaterThan times.
- Work orders components cannot be modified.

#### 5 Component Design

#### 5.1 WorkOrder/MetaData

MetaData is used for message quality control and routing purposes.

## 5.1.1 SourceOrganizationId

Code for the organization that sends the work order message. This code is provided by Posti (principal identifier). The correct code must be used, or the message will fail in the integration layer.

#### 5.1.2 Language

Language code of the work order in two-letter ISO 639-1 format, e.g. FI.

#### 5.1.3 ExternalUserId

Identifier of the principal in external system (OVT code, EDI sender ID).

#### 5.1.4 DocumentType

Name of the document. Default value is InWorkOrder.

#### 5.1.5 CreationDateTime

Date and time of message creation. If principal sets the time, it will be used. Otherwise Posti will use the current date and time of when the message is received.

#### 5.1.6 MessageIdentifier

Identifier of the message which is unique at least in the scope of message sender. If no value is given, Posti will generate a unique identifier (UUID).

MessageIdentifier can be used for troubleshooting purposes to uniquely identify any message that has been sent or received by Posti integration environment.

\_\_\_\_\_

#### 5.2 WorkOrder

#### 5.2.1 WorkOrderNo

Principal's workorders order number.



#### 5.2.2 **ItemID**

Item ID of the work order.

#### 5.2.3 Uom

Unit of measure for the item.

#### 5.2.4 ProductClass

The product class is used as an inventory class identifier.

Product classes are pre-defined by Posti. If product classes based on principal's own values are needed, they need to be agreed upon separately.

#### List of available values:

Product class	Name EN	Description EN	Name FI	Description FI
NORM	Unrestricted stock	Receiving to unrestricted stock, default.	Vapaa varasto	Priima tuote, vapaa varasto.
BRKN	Broken stock	Receive as broken products.	Rikkoutuneet	Rikki varastolle saapuessa.
RTRN	Return to vendor	Item received is waiting to be returned to vendor.	Palautus toimittajalle	Odottaa palautusta tavarantoimittajalle.
SCRP	Scrap	Item received is waiting to be delivered to scrapping.	Romutus	Odottaa hävitystä.
BSTK	B-stock	Item received is to be handled as B quality stock.	Kakkoslaatu	Kakkoslaatuisen tuotteen saldo.
FRWD	Forwarding	Item received is to be forwarded to another address.	Toimitus eteenpäin	Odottaa toimitusta.
DSHP	Return to vendor (GLUE)	Item received is waiting to be returned to vendor (GLUE).	Palautus toimittajalle (GLUE)	Odottaa palautusta tavarantoimittajalle (toimitusmyynti = GLUE).
AGNG	Aging stock	Lot has reached its ship by date but not yet best before date.	Ikääntyvä saldo	Erän lähetyspäivä on saavutettu, mutta ei parasta ennen päivää.



RSVD	Reserved	Reserved for	Varattu	(display,
		displays/components.		komponentit)

#### 5.2.5 QuantityRequested

The quantity for which the work order is created.

#### 5.2.6 StartNoEarlierThan

The date and time a task should not start earlier than.

#### 5.2.7 FinishNoLaterThan

The date and time a task should not be finished later than. Finish no later than date cannot be before StartNoEarlierThan date.

#### 5.2.8 ServiceItemID

Identifier for the service item on this work order. Used values must be defined with Posti beforehand.

#### 5.2.9 ServiceItemGroupCode

The type of service which is to be done for the item. The values will be defaulted based on the service lines.

List of available values:

ServiceItemGroupCode	Description
KIT	Kitting
DKIT	De-kitting
COMPL	Inventory compliance
INVC	Inventory change
PS	Provided service / Field service
DS	Delivery service

#### 5.2.10 InvUpdateActivityCode

Activity code against which inventory needs to be updated. Used values must be defined with Posti beforehand.

### 5.2.11 NodeKey

Node, where work order would be executed. This is the code for Posti warehouse.



List of available values:

NodeKey	Description
12	Voutila
22	Kerava
40	Pennala
56	Vuosaari

#### **5.2.12** Purpose

This field indicates the purpose for the work order.

List of available values:

Purpose	Description
ORDER	Indicates order-related purpose for the work order.
STOCK	Indicates inventory-related purpose for the work order.
SHIP	Indicates shipment-related purpose for the work order.

#### 5.2.13 Segment

Indicates segment for the order.

#### 5.2.14 SegmentType

Segment type and segment are used for indicating that order needs specific additional service and also used to indicate that this order should be picked from certain inventory stack.

Segment type and segment should be taken in use only on demand if principal has specific needs and would need to be discussed with Posti business and described in the contract with principal and Posti.

Default is space value.

#### 5.2.15 Action

Action to perform on this work order. This field is only used when modifying a previously created work order. In other cases this field should not be sent at all.

List of available values:



Value	Description
Modify	Indicates that this is an update to a previously created work order.

# 5.3 <u>WorkOrder/WorkOrderComponents/WorkOrderComponent</u>

#### 5.3.1 | ItemID

Unique identifier for the item associated with this work order component.

#### 5.3.2 ProductClass

The product class is used as an inventory class identifier.

Product classes are pre-defined by Posti. If product classes based on principal's own values are needed, they need to be agreed upon separately.

#### List of available values:

Product class	Name EN	Description EN	Name FI	Description FI
NORM	Unrestricted stock	Receiving to unrestricted stock, default.	Vapaa varasto	Priima tuote, vapaa varasto.
BRKN	Broken stock	Receive as broken products.	Rikkoutuneet	Rikki varastolle saapuessa.
RTRN	Return to vendor	Item received is waiting to be returned to vendor.	Palautus toimittajalle	Odottaa palautusta tavarantoimittajalle.
SCRP	Scrap	Item received is waiting to be delivered to scrapping.	Romutus	Odottaa hävitystä.
BSTK	B-stock	Item received is to be handled as B quality stock.	Kakkoslaatu	Kakkoslaatuisen tuotteen saldo.
FRWD	Forwarding	Item received is to be forwarded to another address.	Toimitus eteenpäin	Odottaa toimitusta.
DSHP	Return to vendor (GLUE)	Item received is waiting to be returned to vendor (GLUE).	Palautus toimittajalle (GLUE)	Odottaa palautusta tavarantoimittajalle (toimitusmyynti = GLUE).



AGNG	Aging stock	Lot has reached its ship by date but not yet best before date.	Ikääntyvä saldo	Erän lähetyspäivä on saavutettu, mutta ei parasta ennen päivää.
RSVD	Reserved	Reserved for displays/components.	Varattu	(display, komponentit)

#### 5.3.3 Uom

Unit of measure for the component item.

## 5.3.4 ComponentQuantity

The component quantity per work order item quantity.

# 5.3.5 Segment

Indicates segment for the order line.

#### 5.3.6 SegmentType

Segment type and segment are used for indicating that order line needs specific additional service and also used to indicate that this order line should be picked from certain inventory stack.

Segment type and segment should be taken in use only on demand if principal has specific needs and would need to be discussed with Posti business and described in the contract with principal and Posti.

Default is space value.

# 5.4 <u>WorkOrder/WorkOrderComponents/WorkOrderComponentTa</u> g

# 5.4.1 LotNumber

The lot number that has been specified in the order line for delivering from stock.

# 5.5 WorkOrder/WorkOrderActivities/WorkOrderActivity

#### 5.5.1 ActivityCode

Activity code. Used values need to be defined with Posti beforehand.



# 5.6 <u>WorkOrder/WorkOrderActivities/WorkOrderActivity/WorkOrderActivityDtl</u>

# 5.6.1 ActivityCode

Activity code. Used values need to be defined with Posti beforehand.

# 5.6.2 ActivityLocationId

Activity location. Used values need to be defined with Posti beforehand. This defines the location in warehouse where the workorder is to be completed.

#### 5.6.3 QuantityRequested

Quantity requested.