



Posti

Detailed instructions for InAdvanceShippingNotice XML usage

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Related or Reference Documents

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

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1 General

1.1 Purpose

InAdvanceShippingNotice is the standard way to notify Posti Logistics about incoming shipments from principal.

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

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

2 Overview

2.1 Technical Requirements Reference

- 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 predefined by Posti. More information later in this document.

- Units of measure (more information in InItemMaster documentation).
 - Order type.
 - Freight terms.
 - Product class.
 - Order and line reference types.
 - Order and line instruction types.
-

4 Advance Shipping Notice management

4.1 Create Advance Shipping Notice

New Advance Shipping Notice integration is in use.

4.2 Update Advance Shipping Notice

Update integration is not available

4.3 Delete Advance Shipping Notice

Delete integration is not available

5 Component Design

5.1 Shipment/MetaData

MetaData is used for message quality control and routing purposes.

5.1.1 **SourceOrganizationId**

Code for the organization that sends the purchase 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 purchase 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 InAdvanceShippingNotice.

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 Shipment

5.2.1 ReqDeliveryDate

Requested delivery date. This date is also used on order line level during order creation if requested delivery date is not given on that level.

5.2.2 ReceivingNode

Code for the Posti node or warehouse which will receive the advance shipping notice. Available list of receiving nodes:

- Voutila = 12.
- Pennala = 40.

5.2.3 OrderType

Order classification attribute.

This field can be used for reporting purposes or to build conditions for modeling business process. If special order types are needed, it must be based on the contract made between principal and Posti.

5.2.4 FreightTerms

International Commercial Terms (“Incoterms”) are internationally recognized standard trade terms used in sales contracts. They’re used to make sure buyer and seller know:

- Who is responsible for the cost of transporting the goods, including insurance, taxes and duties.
- Where the goods should be picked up from and transported to.
- Who is responsible for the goods at each step during transportation.

Incoterms are used in a 3-letter format. Incoterms 2010 is used, but it is possible to add terms based on the contract between principal and Posti, if such business needs arise.

Valid values:

- CFR Cost & Freight
- CIF Cost, Insurance & Freight
- CIP Carriage and Insurance Paid to
- COL Collect (Returns)
- CPT Carriage Paid To
- DAP Delivered At Place

DAT Delivered At Terminal
DDP Delivered Duty Paid
EXW Ex Works
FAS Free Alongside Ship
FCA Free Carrier
FOB Free On Board
PRE Prepaid (Returns)
TPB Third party (Returns)

5.2.5 CustomerPONo

Principal's purchase order number.

5.2.6 BolNo

Bill of lading number.

5.3 Shipment/ShipmentLines/ShipmentLine

5.3.1 ShipmentLineNo

The shipment line number is unique for a shipment.

5.3.2 OrderedQty

The quantity of the line item that is being ordered. This quantity is in inventory unit of measure.

5.3.3 ReqDeliveryDate

Requested delivery date. If no value is given on this level, the requested delivery date from shipment level is used on shipment line level during shipment creation.

This is the date when goods are expected to arrive to stock and receiving actions in stock are planned based on this date. The cost impact could be about 2 – 5 %.

5.3.4 CustomerLinePONo

Principal's purchase order line number.

5.3.5 Segment

Indicates Segment for the shipment line.

5.3.6 SegmentType

Segment type and Segment are used to indicate that the shipment line needs a specific additional service and to indicate that this order line should be picked from a certain inventory stack.

The use of Segment type and Segment should be agreed with Posti and described in the contract between principal and Posti.

5.4 Shipment/ShipmentLines/ShipmentLine/Item

5.4.1 UnitOfMeasure

Unit of measure (UOM) code of the item.

Unit of measure has to be one of the ones given for item in item master.

5.4.2 SupplierItem

Supplier's item ID. No functionality in WMS.

5.4.3 SupplierItemDesc

Supplier's item description.

5.4.4 ProductClass

Product class. This field is used as an inventory identifier.

Product classes are predefined by Posti. If product classes based on principal's own values are needed, they are agreed and described in the contract between principal and Posti.

Available list of values:

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

5.4.5 ItemID

Identifier for the item (same as in item master).

5.4.6 ItemDesc

Description of the item.

5.4.7 CountryOfOrigin

Item's country of origin/manufacture. Use ISO 3166-1 alpha-2 format codes.

5.5 Shipment/ShipmentLines/ShipmentLine/Extn

5.5.1 ExtnCustomerSalesUOM

Customer sales unit of measure.

5.5.2 ExtnCustomerSalesUOMConversion

Multiplier that can be used together with base unit quantity to gain quantity in sales unit.

5.6 Shipment/ShipmentLines/ShipmentLine/ShipmentTagSerials/ShipmentTagSerial

5.6.1 **LotNumber**

Lot number.

5.6.2 **ManufacturingDate**

Manufacturing date.

5.6.3 **Quantity**

Quantity.

5.6.4 **SerialNo**

SerialNumber.

5.6.5 **BestBeforeDate**

Best before date.

5.7 Shipment/ShipmentLines/ShipmentLine/Instructions/Instruction

Purchase order line instruction types are predefined by Posti. In Posti WMS there is no standard logistic process based on purchase order line instructions.

Instructions are typically used at:

- Beginning of inbound printouts.
- End of inbound printouts.
- Beginning of receiving list.
- End of receiving list.

If instructions are needed, they are agreed and described in the contract between principal and Posti.

5.7.1 **InstructionType**

Name of the predefined instruction type.

5.7.2 **InstructionText**

Free-form instruction text for the given instruction type.

5.8 Shipment/ShipmentLines/ShipmentLine/References/Reference

Shipment line references are used only as pass-through data.

If references are needed, they are agreed and described in the contract between principal and Posti.

5.8.1 Name

The name of the reference.

5.8.2 Value

Free-form text associated with the reference name.

5.9 Shipment/Instructions/Instruction

Purchase order instruction types are predefined by Posti. In Posti WMS there is no standard logistic process based on purchase order instructions.

Instructions are typically used in:

- Inbound printouts
- Receiving list

If instructions are needed, they are agreed and described in the contract between principal and Posti.

5.9.1 InstructionType

Name of the predefined instruction type.

5.9.2 InstructionText

Free-form instruction text for the given instruction type.

5.10 Shipment/PersonInfoBillTo

Bill-to address is typically the same as buyer in principal's advance shipping notice and from Posti WMS point of view the same as principal itself. This is optional information and not used in logistics services.



5.10.1 FirstName

The first name of the person. If last name and first name are not used in separate fields, then both names are written in the FirstName field.

5.10.2 LastName

The last name of the person. This is used only if person's first name and last name are used separately.

5.10.3 Company

The company this person is associated with. If company name is known, it is written here.

5.10.4 Country

The country in the address. Use ISO 3166-1 alpha-2 format codes.

5.10.5 ZipCode

The zip code in the address.

5.10.6 City

The city in the address.

5.10.7 AddressLine1

The address line 1 field.

5.10.8 AddressLine2

The address line 2 field.

5.10.9 AddressLine3

The address line 3 field.

5.10.10 DayPhone

The daytime phone number at which the person or organization referred to in the address can be called.

5.10.11 OtherPhone

The alternate phone number at which the person or organization referred to in the address can be called.

5.10.12 EmailId

The email address at which the person or organization referred to in the address can be contacted.

5.11 Shipment/AdditionalAddresses/AdditionalAddress

5.11.1 AddressType

Identifies the type of address. Address types are predefined by Posti.

Valid values:

- Supplier

5.12 Shipment/AdditionalAddresses/AdditionalAddress/PersonInfo

Actual address data for an additional address is given in this element.

Delivery address (Posti Oy) is not given in the message because it is known in Posti WMS based on the value in ReceivingNode.

5.12.1 FirstName

The first name of the person. If last name and first name are not used in separate fields, then both names are written in the FirstName field.

Either FirstName or Company is mandatory for an additional address.

5.12.2 LastName

The last name of the person. This is used only if person's first name and last name are used separately.

5.12.3 PersonId

The unique identifier for a company (business ID).

5.12.4 Company

The company this person is associated with. If company name is known, it is written here.

Either FirstName or Company is mandatory.

5.12.5 Country

The country in the address. Use ISO 3166-1 alpha-2 format codes.

5.12.6 ZipCode

The zip code in the address.

5.12.7 City

The city in the address.

5.12.8 AddressLine1

The address line 1 field.

5.12.9 AddressLine2

The address line 2 field.

5.12.10 AddressLine3

The address line 3 field.

5.12.11 DayPhone

The daytime phone at which the person or organization referred to in the address can be called.

5.12.12 OtherPhone

The alternate phone number at which the person or organization referred to in the address can be called.

5.12.13 EmailId

The email address at which the person or organization referred to in the address can be contacted.

5.13 Shipment/References/Reference

Shipment references are used only as pass-through data.

If references are needed, they are agreed and described in the contract between principal and Posti.

5.13.1 Value

Free-form text associated with the reference name.

5.13.2 Name

The name of the reference

5.14 Shipment/Containers/Container

5.14.1 ContainerGrossWeight

The weight of the container, inclusive of weights of items and packing material used, if any.

5.14.2 ContainerGrossWeightUOM

Unit of measure for container gross weight.

5.14.3 ContainerHeight

The height of the container.

5.14.4 ContainerHeightUOM

Unit of measure for container height.

5.14.5 ContainerLength

The length of the container.

5.14.6 ContainerLengthUOM

Unit of measure for container length.

5.14.7 ContainerWidth

The width of the container.

5.14.8 ContainerWidthUOM

Unit of measure for container width.

5.14.9 ContainerScm

A unique number which helps identify the shipper as well as the goods.

5.14.10 TrackingNo

The tracking number. This is a unique number assigned to each container that can be used to track individual containers in a shipment.

5.15 Shipment/Containers/Container/ContainerDetails/ContainerDetail

5.15.1 Quantity

The quantity of the item packed in this container.

5.16 Shipment/Containers/Container/ContainerDetails/ContainerDetail/ShipmentLine

5.16.1 ShipmentLineNo

The shipment line number is unique for a shipment.

5.17 Shipment/Containers/Container/ContainerDetails/ContainerDetail/ShipmentTagSerials/ShipmentTagSerial

5.17.1 LotNumber

LotNumber.

5.17.2 ManufacturingDate

ManufacturingDate.

5.17.3 Quantity

Quantity.

5.17.4 SerialNo

SerialNo.

5.17.5 BestBeforeDate

BestBeforeDate.