

# Spare Part Purchase Order (v1.2)

- [Introduction](#)
  - [Inbound](#)
- [Spare Parts Purchase Order](#)
  - [Sample Preview](#)
  - [Definition](#)
    - [Complextype elements](#)
    - [Simpletype elements](#)
- [Considerations](#)
  - [Partial deliveries \(inbound\)](#)
  - [Partial deliveries \(outbound\)](#)
  - [Multi-entity](#)

## Introduction

### Inbound

The inbound PartPurchaseOrder interface can be used by an external spare parts supplier system to create (or update) new Part purchase orders in warehousekeeper software

### Outbound

The outbound PartPurchaseOrder interface can be used to send part delivery status updates to an external spare parts supplier system.

## Spare Parts Purchase Order

### Sample Preview

```
1 <?xml version="1.0" standalone="yes"?>
2 <DepotPartPurchaseOrder xmlns="">
3   <MessageHeader>
4     <MessageIdentifier>d3c8e3b5-fcee-464a-9ecd-fa5a57ddaf3c</MessageIdentifier>
5     <MessageTypeDescription>PARTPURCHASEORDER</MessageTypeDescription>
6     <MessageFunctionCode>4</MessageFunctionCode>
7     <MessageDateTime>2020-06-30T09:22:47+02:00</MessageDateTime>
8     <SenderIdentifier>PreConfiguredSenderName</SenderIdentifier>
9     <SenderQualifier>PreConfiguredSenderQualifier</SenderQualifier>
10    <ReceiverIdentifier>PreConfiguredReceiverName</ReceiverIdentifier>
11  </MessageHeader>
12  <PartPurchaseOrder>
13    <ExternalReference>EXTP002012846</ExternalReference>
14    <SupplierCode>PARTSUP1</SupplierCode>
15    <SupplierReference>SUPREF835653</SupplierReference>
16    <ContactPerson>M.T. Cicero</ContactPerson>
17    <DateOrdered>2020-06-30T09:35:00+02:00</DateOrdered>
18    <DateExpected>2020-07-02T00:00:00</DateExpected>
19    <WarehouseCode>R0T</WarehouseCode>
20    <DepartmentCode>REP1</DepartmentCode>
21    <PartPurchaseAdviceKey>1f67c17d-b511-4b29-bc52-e489f31c1ac7</PartPurchaseAdviceKey>
22    <PartPurchaseOrderLine>
23      <ExternalIdentifier>L001</ExternalIdentifier>
24      <PartCode>MM4</PartCode>
```

```

25         <CommodityCode>COD3</CommodityCode>
26         <CommodityDescription>Commodity description 3</CommodityDescription>
27         <Quantity>12</Quantity>
28         <PartStatus>Ordered</PartStatus>
29     </PartPurchaseOrderLine>
30     <PartPurchaseOrderLine>
31         <ExternalIdentifier>L002</ExternalIdentifier>
32         <PartCode>MM8</PartCode>
33         <Quantity>20</Quantity>
34         <PartStatus>Delivered</PartStatus>
35         <DateReceived>2020-04-01T00:00:00</DateReceived>
36     </PartPurchaseOrderLine>
37     <PartPurchaseOrderLine>
38         <ExternalIdentifier>L003</ExternalIdentifier>
39         <PartCode>MM6</PartCode>
40         <CommodityCode>COD3</CommodityCode>
41         <CommodityDescription>Commodity description 3</CommodityDescription>
42         <SupplierPartCode>SPC01</SupplierPartCode>
43         <Caption>Part description in external system</Caption>
44         <Quantity>11</Quantity>
45         <PartPrice>3.00</PartPrice>
46         <InvoiceNumbers>INV000001, INV000002</InvoiceNumbers>
47         <PartStatus>Concept</PartStatus>
48         <WarehouseCode>AMS</WarehouseCode>
49     </PartPurchaseOrderLine>
50     <PartPurchaseOrderRemark>
51         <RemarkGuid>e9194723-daa4-4388-9f8d-ef6b88c28b9a</RemarkGuid>
52         <Timestamp>2020-06-30T10:28:00+02:00</Timestamp>
53         <Author>M.T. Cicero</Author>
54         <Remark>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean commodo ligula eget dolor.
55         Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus.<
56     </PartPurchaseOrderRemark>
57     <PartPurchaseOrderRemark>
58         <RemarkGuid>76f70675-28af-4916-9a6d-3ac5bf1a51b5</RemarkGuid>
59         <Timestamp>2020-06-30T10:29:00+02:00</Timestamp>
60         <Author>J.L. Picard</Author>
61         <Remark>Ad eundum quo nemo ante iit</Remark>
62     </PartPurchaseOrderRemark>
63 </PartPurchaseOrder>
64 </DepotPartPurchaseOrder>

```

## Definition

### Complextype elements

Group element	Explanation
<DepotPartPurchaseOrder>	Root element of this message.
\<MessageHeader>	Message header. Exactly ONE \<MessageHeader> element must be present.
\<PartPurchaseOrder>	Complex element representing a single purchase order. At LEAST ONE \<PartPurchaseOrder> element must be present.
\<PartPurchaseOrderLine>	Complex element representing a purchase order line. At LEAST ONE \<PartPurchaseOrderLine> element must be present per purchase order.
\<PartPurchaseOrderRemark>	Complex element representing a purchase order remark. \<PartPurchaseOrderRemark> elements are not ot required, but multiple may be present per pur

### Simpletype elements

\<MessageHeader>	Datatype	Requirements	Explanation
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MessageIdentifier	xs:string (constrained to msdata: System.Guid)	Required	Unique message identifier (GUID)
MessageTypeDescription	xs:string	Required, Enumeration	Constrained to this code: <ul style="list-style-type: none"> <li>PARTPURCHASEORDER</li> </ul>
MessageDateTime	xs:dateTime	Required	Message date and time in XML dateTime format.
MessageFunction	xs:int	Required, Enumeration	Code indicating the function of the message: <ul style="list-style-type: none"> <li>1 = Cancellation/Archive</li> <li>4 = Change/Update</li> <li>9 = Original/New</li> </ul>
SenderQualifier	xs:string	Recommended, maxLength=64	Agreed qualifier for sender identification.
SenderIdentifier	xs:string	Required, maxLength=64	Agreed sender identification.

\<PartPurchaseOrder>	Datatype	Requirements	Explanation
ExternalReference	xs:string	<b>Required</b> , Unique, maxLength=64	The unique purchase order reference in the external application. Used to identify the purchase order.
SupplierCode	xs:string	<b>Required</b> , maxLength=64	Code to uniquely identify the part supplier.
SupplierReference	xs:string	maxLength=64	The supplier's purchase order reference
ContactPerson	xs:string	maxLength=256	The full name of the contact person
DateOrdered	xs:datetime		The date/time the order was placed at the supplier
DateExpected	xs:datetime		The date/time parts are expected to be delivered. (Usually only the date is relevant so the time is ignored)
WarehouseCode	xs:string	<b>Conditionally required</b> , maxLength=32	Code to uniquely identify the warehouse where parts are delivered.
DepartmentCode	xs:string	maxLength=32	Code to uniquely identify the department for which the order was placed.
PartPurchaseAdviceKey	xs:string (constrained to msdata: System.Guid)	Unique	<b>Inbound only</b>

\<PartPurchaseOrderLine>	Datatype	Requirements	Explanation
ExternalIdentifier	xs:string	<b>Required</b> , maxLength = 32	Unique line identifier in the external application. The identifier must be unique at least within the purchase order and used in subsequent messages.
PartCode	xs:string	<b>Required</b> , maxLength = 64	
CommodityCode	xs:string	maxLength = 64	<b>Outbound only:</b> Commodity code (Included if a commodity code is assigned to the part)
CommodityDescription	xs:string	maxLength = 255	<b>Outbound only:</b> Commodity description (Included if a commodity code with description is assigned to the part)
SupplierPartCode	xs:string	maxLength = 64	Part code as used by the supplier for this part.
Caption	xs:string		Description of the part
Quantity	xs:double	<b>Required</b>	Quantity of parts being ordered
PartPrice	xs:double		Description of the part
InvoiceNumbers	xs:string	maxLength = 128	Free text field for (comma-separated) invoice number relevant to this purchase order line
PartStatus	xs:string	<b>Required</b> , enumeration restriction	The order status of the purchase order line. Only the following literal values are allowed: <ul style="list-style-type: none"> <li>Concept</li> <li>Cancelled</li> <li>Ordered</li> <li>Backorder</li> <li>Delivered</li> </ul>
WarehouseCode	xs:string	<b>Conditionally required</b> , maxLength = 32	Code to uniquely identify the warehouse where parts are delivered.
DateReceived	xs:datetime		Date and time parts were delivered. If the part status is not <i>Delivered</i> , the value will be ignored. If the value is <i>Delivered</i> , the value will be used if the part status is <i>Delivered</i> .

\<PartPurchaseOrderRemark>	Datatype	Requirements	Explanation
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RemarkGuid	xs:string (guid)	<b>Required</b> , restricted to msdata:guid	GUID to uniquely identify the remark. The same guid must be used in subsequent message such that receive already existing remark. Remarks with an unknown GUID will be considered as new remarks.  Outbound: Only external remarks (i.e. the MessageType that has the 'EXTERNAL' key) will be included in the message
Timestamp	xs:datetime		Timestamp of the remark
Author	xs:string	maxLength = 255	Name of the author of the remark
Remark	xs:string		Free text remark

## Considerations

### Partial deliveries (inbound)

Partial deliveries can be accomplished by sending in split lines: The quantity of the original purchase order line must be changed to the quantity actually received, and it be sent in with status *Delivered*. For the remaining parts, a new line can be sent in with status *Ordered* or *Backorder*

### Partial deliveries (outbound)

When the partial delivery is done, the original line is to be set to delivered and a second, new line for the remaining parts is created. This has the following consequences for the outbound EDI message to the external spare parts supplier system:

- The original line will be returned with the original externalidentifier as known in the external spare parts supplier system, a changed quantity (i.e. the delivered quantity) and status Delivered
- A new line will also be returned *without externalidentifier*, and with the remaining quantity and status Ordered

### Multi-entity

The Entity of the Purchase order will be determined based on selected supplier. If a supplier delivers to multiple entities, the supplier is registered multiple times - once for each entity.

In order to uniquely select a supplier by its code, either of the following approaches must be followed:

- Suppliers must have a different, unique code even between entities, or...
- Separate EDI settings must be configured for each entity, meaning the sender must specify the messages target entity by using a specific ReceiverIdentifier for each entity.

Warehouse codes must be unique over all offices and entities.