

# Spare Part Purchase Order (v1.1)

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

### Simpletype elements

\<MessageHeader>	Datatype	Requirements	Explanation
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.
SenderIdIdentifier	xs:string	Required, maxLength=64	Agreed sender identification.
ReceiverIdentifier	xs:string	Required, maxLength=64	Agreed receiver 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	Inbound only

\<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	Used to uniquely identify the part
SupplierPartCode	xs:string	maxLength = 64	Part code as used by the supplier for this part.
Caption	xs:string		
Quantity	xs:double	<b>Required</b>	Quantity of parts being ordered
PartPrice	xs:double		
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
RemarkGuid	xs:string (guid)	<b>Required</b> , restricted to msdata:guid	GUID to uniquely identify the remark.  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 supplierh. 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.