

TECCOM TRADER GUIDE
FOR ASYNCHRONOUS CAP PURCHASE ORDER PROCESS
(TECCOM STOCK ORDER PROCESS)

VERSION 1.0

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This document describes how a trader can exchange CAP purchase orders with suppliers that are connected to the TecCom platform using a TecConnect solution. In this document, these suppliers are called TC1 suppliers and the platform is called TC1 platform.

TC1 platform supports two types of order processes: express order and stock order. The main difference between these two order types is that the orderer is able to receive an immediate response with information on availability, prices etc. For stock orders, the response documents are sent back in batch processes, the starting times of which are dependent on the individual suppliers TecCom implementations. TecCom stock order corresponds to CAP purchase order.

TecCom stock order process is asynchronous, meaning that the response time to an order can not be defined. In some cases, a supplier may not send an order response at all.

The asynchronous stock order process can be accessed with any of the supported communication methods: FTP, OFTP, X400, ISDN and TecCom Open Messaging (web service).

CAP order and order response documents can be used as message interfaces when communicating with the TC1 stock order process.

From TecCom's point of view the minimum requirement for such an order interface document is, that the value of attribute "type" in element "Order" must be set to "220" (purchase order).

The purpose of this document is to describe a CAP purchase order document, which is compliant with the requirements and limitations of the TC1 platform's stock order process. Furthermore, this

document describes the contents and structure of the CAP order response document that a trader can expect back from the TC1 platform, if the supplier is supporting asynchronous order responses.

Please refer to separate documentation about the different communication methods, TecCom Open Messaging framework and CAP message descriptions.

Table 1 describes the maximum data contents of a CAP stock order message that can be transmitted via the TC1 platform to the supplier. Please note, that some suppliers may not utilize all data that a trader is able to provide (e.g. prices).

Column "TecCom rules" describes the requirements that TC1 platform places on incoming CAP purchase orders. In some cases CAP multiplicity rules and TecCom rules may differ (e.g. Buyer).

Table 2 describes the maximum data content of an asynchronous CAP order response from TC1 platform. It lists the features of the CAP order response message supported by TecCom. There are several CAP order response elements that can not be delivered from TC1, including DeliveryDate, DeliveryParty, ExpressDeliveryCondition, CollectedByCustomer and Charge on header level as well as Charge on line level.

The use of different order response status codes and back order / delivery scheduling is described after the table.

The first column of both tables depicts the maximum order message, that can be processed by TC1 platform.

The second column “CAP Order” breaks the message into its constituents: elements and attributes. Attributes start with a “@” character.

The third column “CAP multiplicity” lists the syntactical rules for elements and attributes in CAP.

The following rules apply for elements:

- 1 – The element can be used only once
- 0..1 – The element is optional, but it can be used only once
- 0..n – The element is optional and it can be used several times
- 1..n – The element is mandatory and it can be used several times

The following rules apply for attributes:

- R – The use of the attribute is required, if the element, within which the attribute is used, exists.
- O – The use of the attribute is optional, if the element, within which the attribute is used, exists.

The fourth column “TecCom rules” describes the requirements and limitations of the TC1 platform towards the CAP purchase order message. It also lists the value mappings that are carried out when converting CAP messages into TecCom’s internal format TXXML. For example: The responsible agency “EAN” in CAP is mapped to PartyNumberType “ILN” in TXXML **Please note, that in a few cases TecCom rules may differ from the rules set by the CAP standard.**

The fifth column defines the maximum length of different data contents on a CAP purchase order message. For numerical data, the maximum amount of digits is given. However, it is not possible to define the maximum lengths for the elements and attributes of the order response message. This is due to the fact, that the suppliers

create the intermediate TXXML order response format themselves and TXXML does not limit the length of data in different elements and attributes.

Important concepts on TC1 platform:

CompleteDelivery (on header level) = YES = The orderer wants to receive the combination of ordered products within one delivery.

For CAP purchase orders, CompleteDelivery is set to “NO” as a default, implying that it is not mandatory to deliver all positions of one order within one delivery.

BackOrder (on header level) = YES = The orderer allows deliveries, where a part of the ordered amount per one position is delivered later than the requested date. BackOrder is applicable only with CAP purchase orders. BackOrder is set to “YES” as a default on header level overwriting any BackOrder information on position level.

AlternativePart (on position level) = YES = The supplier is allowed to deliver an alternative part.

For CAP purchase orders, AlternativePart is set to “YES” as a default. It is not possible to change this value.

PartialDelivery (on position level) = YES = The supplier is allowed to deliver the requested position partially. Back order delivery is not expected by the orderer.

For CAP purchase orders, PartialDelivery is set to “YES” as a default.

TABLE 1: Maximum data contents of a CAP purchase order to TC1 stock order process

MAXIMUM DATA CONTENTS OF A CAP PURCHASE ORDER TO TC1 STOCK ORDER PROCESS	CAP ORDER	CAP MULTIPLICITY	TECCOM RULES	MAX LENGTH
<?xml version="1.0" encoding="UTF-8" ?>		1		
<Order msgRefNo="123456" type="220" msgFunc="7 or 9" ver="1.0.0" contrAgency="CAP">	Order	1	CAP=220=PurchaseOrder, TC1=StockOrder	
	@msgRefNo	R		20
	@type=220	R	If @type="220" (purchase order) The following default values are set on TC1 platform: DispatchMode=StockOrder, BackOrder=Yes, CompleteDelivery=No, OrderType=Order	
	@msgFunc=9	R	CAP=original, TC1=original	
	@msgFunc=7	-	CAP=duplicate, TC1=duplicate	
<Head>	Head	1		
<MsgDate fmt="102">20060206</MsgDate>	MsgDate	1	OrderIssueDate on TC1 platform is given the following default values: Qualifier=At, Format=YYYYMMDD	
	@fmt=102	R		
	-	-		
<DeliveryDate fmt="102">20060215</DeliveryDate>	DeliveryDate	0..1	RequestedDeliveryDate on TC1 platform is given the following default values: Qualifier=At, Format=YYYYMMDD	
	@fmt=102	R		
	-	-		

<References>	References	0..1	Only AAG=Quotation number and PD=Promotional deal number are supported by TC1. QuotationNumber is required. An empty character " " is put into this field in TC1, if it is not available in the CAP message.	
<Reference type="AAG">	Reference	1..n	OfferReference in TC1. TecCom supports only AAG and PD in CAP.	
	@type=AAG	R	CAP=quotation number, TC1=quotation number	
<RefNo>99112</RefNo>	RefNo	1		10
<RefDate fmt="102">20060205</RefDate>	RefDate	1	RequestedDeliveryDate on TC1 platform is given the following default values: Qualifier=At, Format=YYYYMMDD	
	@fmt=102	R		
</Reference>	-	-		
<Reference type="PD">	Reference	-	PromotionCode in TC1	
	@type=PD	-	CAP=promotional deal number, TC1=promotion code	
<RefNo>99112</RefNo>	RefNo	-		20
<RefDate fmt="102">20060205</RefDate>	RefDate	-	Promotional deal number's date cannot be mapped to TC1 platform.	
	@fmt=102	-		
</Reference>	-	-		
</References>	-	-		
<Parties>	Parties	1		
<Supplier>	Supplier	1		
<PartyId respAgency="9, 91, 92, NAT, VAT">456712</PartyId>	PartyId	1		13
	@respAgency=9	R	CAP=EAN, TC1=ILN	
	@respAgency=91	-	CAP=supplier or supplier's agent, TC1=supplier number	
	@respAgency=92	-	CAP=buyer or buyer's association, TC1=buyer number	

	@respAgency=N AT	-	NAT=national organization, TC1=NAT	
</Supplier>	@respAgency=V AT	-	VAT=treasury, TC1=VAT	
<Buyer>	Buyer	0..1	Buyer is mandatory for TC1 platform, even though not for CAP.	
<PartyId respAgency="9, 91, 92, NAT, VAT">DE12345678</PartyId>	PartyId	1		13
	@respAgency=9	R		
	@respAgency=91	-		
	@respAgency=92	-		
	@respAgency=N AT	-		
	@respAgency=V AT	-		
</Buyer>	-	-		
<DeliveryParty>	DeliveryParty	0..1	TC1 can only accept orders where the structure of DeliveryParty -Element is (PartyId, Name?, Address?, Town?, PostCode?, CountryCode?)	
<PartyId respAgency="9, 91, 92, NAT, VAT">DE12345677</PartyId>	PartyId	1	Even though mandatory in CAP message structure, the contents may be empty.	13
	@respAgency=9	R		
	@respAgency=91	-		
	@respAgency=92	-		
	@respAgency=N AT	-		
	@respAgency=V AT	-		
<Name>TecCom GmbH</Name>	Name	0..1	Address data is created in TC1 only when Name exists in CAP.	35

<Address>Edisonstr 5</Address>	Address	0..1	If address data is not complete, the character "." is filled in Address, Town, PostCode and CountryCode on TC1 platform.	35
<Town>Unterschleissheim</Town>	Town	0..1		35
<PostCode>80100</PostCode>	PostCode	0..1		10
<CountryCode>DE</CountryCode>	CountryCode	0..1		2
</DeliveryParty>	-	-		
</Parties>	-	-		
	ExpressDeliveryCondition	0..1	ExpressDeliveryCondition can not be used with StockOrders	
	CollectedByCustomer	0..1	CollectedByCustomer can not be used with StockOrders	
</Head>	-	-		
<Lines>	Lines	1		
<Line lineNo="1">	Line	1..n		
	@lineNo	R		9
<ProductIds>	ProductIds	1	At least one ProductId must be available for each line in TC1. It can be any of the three possible ones: IN, SA, EN.	
<ProductId type="IN">T12556</ProductId>	ProductId	1..n		30
	@type=IN	R	Please verify with your supplier, which productid types should be used for ordering. TecCom supports all CAP productid types. CAP=TC1=Buyer's product code.	
<ProductId type="SA">54211-10</ProductId>	ProductId	-		30
	@type=SA	-	CAP=TC1=supplier's product code	
<ProductId type="EN">876519222</ProductId>	ProductId	-		14
	@type=EN	-	CAP=TC1=EAN number	
</ProductIds>	-	-		

<OrderedQty unit="KGM, LTR, MTR, PCE">10</OrderedQty>	OrderedQty	1	Use a decimal point and a max. of 6 decimals.	
	@unit=KGM	O	If @unit is not available, "PCE" is set as default in TC1.	
	@unit=LTR	-		
	@unit=MTR	-		
	@unit=PCE	-		
<Prices>	Prices	1		
<Price type="PRP" currency="EUR" unitPriceBasis="1">172.50</Price>	Price	1..n	Use a decimal point and a max. of 6 decimals. Prices are usually not processed by the TC1 suppliers.	
	@type=PRP	R	CAP=promotional price, TC1=special offer	
	@currency	O		
	@unitPriceBasis	O		
	OrderedQty/@unit	O	PriceUnit for TC1 is taken from OrderedQty/@unit in CAP. Default "PCE" is given, if no @unit is available in CAP.	
<Price type="NTP" currency="EUR" unitPriceBasis="1">152.50</Price>	Price	-	Use a decimal point and a max. of 6 decimals. Prices are usually not processed by the TC1 suppliers.	
	@type=NTP	-	CAP=net unit price, TC1=net price	
	@currency	-		
	@unitPriceBasis	-		
	OrderedQty/@unit	-	PriceUnit for TC1 is taken from OrderedQty/@unit in CAP. Default "PCE" is given, if no @unit is available in CAP.	
</Prices>	-	-		
<Descriptions>	Descriptions	0..1		
<Description lang="FR">Product description</Description>	Description	1..n	A max. of 3 Description elements can be used. Maximum total length of the text contents is 40 characters. If no Description is given in CAP, an empty character " " is set into field ProductName on TC1 platform.	40

	@lang	O		
</Descriptions>	-	-		
</Line>	-	-		
</Lines>	-	-		
</Order>	-	-		
			Additional information that is set as standard values on TC1. This information can not be influenced by the CAP order message.	
			On header level:	
			The value "CAPBuyer" is inserted into field "Employee" on TC1 platform.	
			On line level:	
			The value "" is inserted into field "Maker" on TC1 platform.	
			The following values are set as default on TC1 platform: PartialDelivery=Yes, AlternativePart=Yes, BackOrder=No	

TABLE2: Maximum data contents of a CAP order response from TC1 stock order process as a response to an asynchronous CAP purchase order

MAXIMUM DATA CONTENTS OF A CAP ORDER RESPONSE FROM TC1 STOCK ORDER PROCESS AS A RESPONSE TO AN ASYNCHRONOUS CAP PURCHASE ORDER	CAP ORDER	CAP MULTIPLICITY	TECCOM RULES
<?xml version="1.0" encoding="utf-8" ?>			
<OrderResponse ver="1.0.0" msgRefNo="2890928" contrAgency="CAP" msgFunc="4, 27, 29">	OrderResponse	1	
	@ver=1.0.0	F	Standard value.
	msgRefNo	R	
	contrAgency=CAP	R	Standard value.
	msgFunc	R	4=change, 27=not accepted and 29=accepted without amendment are supported by TecCom
	type=231	F	Standard value.
<Head>	Head	1	
<MsgDate fmt="102">20060213</MsgDate>	MsgDate	1	
	@fmt=102	R	Standard value.
	DeliveryDate	0..1	DeliveryDate can not be mapped for CAP stock orders on header level.
<References>	References	1	
<Reference type="VN">	Reference	1..n	
	@type=VN	R	Supplier's order number is always provided.
<RefNo>2890928</RefNo>	RefNo	1	
<RefDate fmt="102">20060213</RefDate>	RefDate	1	
	@fmt=102	R	Standard value.

</Reference>	-	-	
<Reference type="ON">	Reference	-	
	@type=ON	-	
<RefNo>22620</RefNo>	RefNo	-	
<RefDate fmt="102">20060213</RefDate>	RefDate	-	
	@fmt=102	-	Standard value.
</Reference>	-	-	
</References>	-	-	
<Parties>	Parties	1	
<Supplier>	Supplier	1	
<PartyId respAgency="91">422124</PartyId>	PartyId	1	PartyId can be mapped to the ids that the receiver of the message is using by TecCom.
	@respAgency=91	R	TecCom supports only 91=supplier as responsible agency. However, the id may be factually something else.
</Supplier>	-		
<Buyer>	Buyer	0..1	Buyer is always provided.
<PartyId respAgency="91">8823112</PartyId>	PartyId	1	PartyId can be mapped to the ids that the receiver of the message is using by TecCom.
	@respAgency=91	R	TecCom supports only 91=supplier as responsible agency. However, the id may be factually something else.
</Buyer>	-		
<DeliveryParty>	DeliveryParty	0..1	
<PartyId respAgency="91">8823112</PartyId>	PartyId	0..1	

	@respAgency=91	R	TecCom supports only 91=supplier as responsible agency. However, the id may be factually something else.
<Name>Test Delivery Party</Name>	Name	0..1	Name1 and Name2 from TXML are concatenated into one CAP Name field.
<Address>Teststreet 1</Address>	Address	0..1	Street1 and Street2 from TXML are concatenated into one CAP Address field.
<Town>Munich</Town>	Town	0..1	
<PostCode>80800</PostCode>	PostCode	0..1	
<CountryCode>DE</CountryCode>	CountryCode	0..1	
</DeliveryParty>	-	-	
</Parties>	-	-	
</Head>	-	-	
	ExpressDeliveryCondition	0..1	ExpressDeliveryCondition can not be provided.
	CollectedByCustomer	0..1	CollectedByCustomer can not be provided.
	Charge	0..1	Charge can not be provided.
<Lines>	Lines	1	
<Line lineNo="1" action="5">	Line	1..n	
	@lineNo	R	
	@action	R	TecCom supports action codes 5=accepted, 7=not accepted, 24=accepted with amendment.
<Product>	Product	1	
<OrderedProduct>	OrderedProduct	1	
<ProductIds>	ProductIds	1	
<ProductId type="SA,EN">FD-ES-4107</ProductId>	ProductId	1..n	

	@type	R	TecCom supports SA=supplier's product code and EN=EAN number. Please verify from your supplier, which productid type is going to be used.
</ProductIds>	-	-	
<Prices>	Prices	0..1	
<Price currency="GBP" type="NTP">4.11</Price>	Price	1..n	
	@currency	O	If no other value is provided by the supplier, the default value is EUR.
	@type=NTP	R	TecCom supports only net prices on Order Response.
	@unitPriceBasis	O	If no other value is provided by the supplier, the default value is 1.
</Prices>	-	-	
<Descriptions>	Descriptions	0..1	
<Description>Ford Tie Rod End</Description>	Description	1	ProductName1 and ProductName2 from TXML are concatenated into one CAP Description field.
	@lang	O	Language code can not be provided by TecCom.
</Descriptions>	-	-	
</OrderedProduct>	-	-	
<Substitute>	Substitute	0..1	
<ProductIds>	ProductIds	1	
<ProductId type="SA">412251</ProductId>	ProductId	1..n	
	@type	R	TecCom supports only SA=supplier's product code for substitute

			products.
</ProductIds>			
	Prices	0..1	Prices for substitute products are not supported by TecCom.
<Descriptions>	Descriptions	0..1	
<Description>Substitute product description</Description>	Description	1..n	
	@lang	0	Language code can not be provided by TecCom.
</Descriptions>			
</Substitute>			
<QtyDiff reason="RA,BP,CP,CS,IC,AB,AUE,AT,PS,AS,QT">0</QtyDiff>	QtyDiff	0..1	Please refer to the chapter "Backorder / delivery scheduling with TecCom" in this document.
	@reason	R	TecCom supports reason codes RA, BP, CP, CS, IC, AB, AUE, AT, PS, AS, QT. If none of these options is applicable, "undefined" is used.
<RefLineNo>1</RefLineNo>	RefLineNo	0..1	
	Delivered	1..n	Please refer to the chapter "Backorder / delivery scheduling with TecCom" in this document.
<Delivered>			
<QtyToBeDelivered unit="PCE">1</QtyToBeDelivered>	QtyToBeDelivered	1	
	@unit	0	If no other value is provided by the supplier, the default value is PCE.
<DeliveryDate fmt="102">20050217</DeliveryDate>	DeliveryDate	0..1	
</Delivered>	-	-	

	Charge	0..n	Charge can not be provided.
</Lines>	-	-	
</OrderResponse>	-	-	

Order response message status

Header

Values for attribute “msgFunc” in element “OrderResponse”

27 = not accepted

“Not accepted” is set, when TC1 supplier encounters an error on the header level data or if all lines of the order message are erroneous.

4 = change

“Change” is set, when TC1 supplier encounters an error on the line level data, or if on any line, OrderedQty of the trader’s order message is not equal to QtyToBeDelivered of the supplier’s order response message.

29 = accepted without amendment

If the two options described above are not applicable, “Accepted without amendment” is set.

Lines

Values for attribute “action” in element “Line”

24 = accepted with amendment

Action code “Accept with amendment” is set, if OrderedQty of the trader’s order messages is not equal to the QtyToBeDelivered of the supplier’s order response message.

5 = accepted

Action code “Accepted” is set, if TC1 supplier does not encounter any errors in line level data and when OrderedQty of the trader’s order messages is equal to the QtyToBeDelivered of the supplier’s order response message.

7 = not accepted

Action code “Not accepted” is set, when TC1 supplier encounters an error on the line level data.

3 = changed

Action code “Changed” is not supported by TecCom on line level.

BackOrder / delivery scheduling with TecCom

If a requested quantity (e.g. 100 pieces) can not be delivered at once, there are three possibilities how this is manifested in a CAP order response message:

Case 1:

Delivery date is known for the back order quantity.

```
<QtyDiff reason="BP">0</QtyDiff> (Is not always used, if QtyDiff=0)
<Delivered>
  <QtyToBeDelivered unit="PCE">70</QtyToBeDelivered>
  <DeliveryDate fmt="102">20051025</DeliveryDate>
</Delivered>
<Delivered>
  <QtyToBeDelivered unit="PCE">30</QtyToBeDelivered>
  <DeliveryDate fmt="102">20051115</DeliveryDate>
</Delivered>
```

Case 2:

Delivery date is NOT known for the back order quantity.

```
<QtyDiff reason="BP">30</QtyDiff> (BP=shipment partial, back order to follow)
<Delivered>
  <QtyToBeDelivered unit="PCE">70</QtyToBeDelivered>
  <DeliveryDate fmt="102">20051025</DeliveryDate>
</Delivered>
```

The missing quantity "30" is delivered on a later date, which the supplier can not specify at the moment.

Case 3:

There is no back order for the missing quantity.

```
<QtyDiff reason="CP">30</QtyDiff> (CP=shipment partial, no back order)
<Delivered>
  <QtyToBeDelivered unit="PCE">70</QtyToBeDelivered>
  <DeliveryDate fmt="102">20051025</DeliveryDate>
</Delivered>
```

The missing quantity "30" is not delivered at all.