

... connecting the Automotive Aftermarket



TecCom Trader Guide for Synchronous CAP Rush Order Process

Document version 1.0

Bei der Zusammenstellung von Texten und Abbildungen wurde mit größter Sorgfalt vorgegangen. Trotzdem können Fehler im Benutzerhandbuch nicht vollständig ausgeschlossen werden.

Für Verbesserungsvorschläge und Hinweise auf Fehler sind Herausgeber und Autoren dankbar.

Die in den Beispielen verwendeten Firmen, sonstige Namen und Daten sind frei erfunden.

Alle verwendeten Hard- und Softwarebezeichnungen sind Handelsnamen und/oder Warenzeichen der jeweiligen Hersteller.

1 INTRODUCTION	4
2 IMPLEMENTATION OF CAP RUSH ORDER MESSAGES	5
2.1 <i>Important concepts on TC1 platform</i>	6
<i>TABLE1: CAP rush order document</i>	7
<i>TABLE2: CAP order response document</i>	13
3 ORDER RESPONSE MESSAGE STATUS	17

1 Introduction

This document describes how a trader can exchange CAP rush 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 for an express order 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 express order corresponds to CAP rush order (Order/@type="224")**.

TecCom express order process is synchronous, meaning that the trader receives an order response back within one single request – response cycle.

The synchronous process can only be accessed using the Tec Open Messaging framework (TOM). The trader uses a .NET or Java-based class library to create a TOM compliant request, that is sent as a http(s) request to TecCom. The order response is included in the http(s) response.

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

From TecCom's point of view the minimum requirements for such an order interface document are the following: 1) The express order process must be accessed using an appropriate function call in TOM framework, 2) The value of attribute "type" in element "Order" must be set to "224" (rush order). The purpose of this document is to describe a CAP rush order document, which is compliant with the requirements and limitations of the TC1 platform's express 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.

Please refer to separate documentation about the TOM framework and CAP message descriptions.

2 Implementation of CAP rush order messages

Table 1 describes the maximum data contents of a CAP rush 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 rush orders. If these requirements are not met, the order can not be processed properly and an erroneous order response is returned. In some cases CAP multiplicity rules and TecCom rules may differ (e.g. Buyer).

Table 2 describes the maximum data content of a synchronous 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 QtyDiff and DeliveryDate on line level.

The uses of different order response status codes are 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.
- F – Fixed, the value of the attribute is always the same.

The fourth column “TecCom rules” describes the requirements and limitations of the TC1 platform towards the CAP rush order message. It also lists the value mappings that are carried out when converting CAP messages into TecCom’s internal format TXML. For example: The responsible agency “EAN” in CAP is mapped to PartyNumberType “ILN” in TXML **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 rush order message. For numerical data, the maximum amount of digits is given.

2.1 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 rush 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.

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

For CAP rush orders, AlternativePart is set to “YES” as a default.

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

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

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 stock orders. For CAP rush orders, BackOrder is set to “NO” as a default both on header and position level.

TABLE1: CAP rush order document

MAXIMUM DATA CONTENTS OF A CAP RUSH ORDER TO TC1 PLATFORM	CAP ORDER	CAP MULTIPLICITY	TECCOM RULES	MAX LENGTH
<?xml version="1.0" encoding="UTF-8" ?>		1		
<Order msgRefNo="123456" type="224" msgFunc="9" ver="1.0.0" contrAgency="CAP">	Order	1		
	@msgRefNo	R		20
	@type=224	R	If @type="224" (rush order) The following default values are set on TC1 platform: DispatchMode=Express, BackOrder=No, CompleteDelivery=No, OrderType=Order	
	@msgFunc=9	R	CAP=original, TC1=original. TecCom does not support duplicate (@msgFunc=7) orders.	
<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.	
	@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 or 91">456712</PartyId>	PartyId	1	TecCom supports only EAN and supplier numbers as partyid identifications.	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	

</Supplier>				
<Buyer>	Buyer	0..1	Buyer is mandatory for TC1 platform, even though not for CAP.	
<PartyId respAgency="9 or 91">DE12345678</PartyId>	PartyId	1	TecCom supports only EAN and supplier numbers as partyid identifications.	13
	@respAgency=9	R		
	@respAgency=91			
	@respAgency=92			
</Buyer>				
<DeliveryParty>	DeliveryParty	0..1		
<PartyId respAgency="9 or 91">DE12345677</PartyId>	PartyId	1	Even though PartyId is mandatory in CAP message structure, the contents may be empty for TC1.	13
	@respAgency=9	R	TecCom supports only EAN and supplier numbers as partyid identifications.	
	@respAgency=91			
	@respAgency=92			
<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 val="DED, NED, PBC, STD" />	ExpressDeliveryCondition	0..1		
	@val=DED	R	CAP=day express delivery. TC1=express	
	@val=STD		CAP=standard. TC1=normal.	

	@val=NED		CAP=night express delivery. TC1=over night	
	@val=PBC		CAP=pick up by customer. TC1=pick up	
<CollectedByCustomer val="Y, N" />	CollectedByCustomer	0..1		
	@val=Y	0	Only value "Y" has a meaning in TC1. If @type=224 and CollectedbyCustomer="Y", then DispatchMode=PickUp. Do not use ExpressDeliveryCondition with value "PBC" if you also use CollectedByCustomer with value "Y".	
	@val=N		Value "N" does not have any influence on TC1.	
</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">152.50</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">172.50</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: CAP order response document

MAXIMUM DATA CONTENTS OF A CAP ORDER RESPONSE FROM TC1 PLATFORM AS A RESPONSE TO A SYNCHRONOUS CAP RUSH ORDER	CAP ORDER	CAP MULTI-PLICITY	TECCOM RULES	MAX LENGTH
<OrderResponse ver="1.0.0" msgRefNo="2890928" contrAgency="CAP" msgFunc="4, 27, 29">	OrderResponse	1		
	@ver=1.0.0	F	Standard value.	
	@msgRefNo	R	Contains supplier's order number or a text "Error", if the order message could not be processed properly on TecCom platform.	10
	@contrAgency=CAP	R		
	@msgFunc	R	4=change, 27=not accepted and 29=accepted without amendment are supported by TecCom	
	@type	F	Not set by TC1.	
<Head>	Head	1		
<MsgDate fmt="102">20060213</MsgDate>	MsgDate	1		
	@fmt=102	R	Standard value.	
	DeliveryDate	0..1	DeliveryDate can not be provided for CAP rush orders, since by definition the rush orders are delivered the same day.	
<References>	References	1		
<Reference type="VN">	Reference	1..n		
	@type=VN	R	Supplier's order number is always provided.	
<RefNo>2890928</RefNo>	RefNo	1		10
<RefDate fmt="102">20060213</RefDate>	RefDate	1	Reference date is always the current date.	8
	@fmt=102	R	Standard value.	
</Reference>	-	-		
<Reference type="ON">	Reference	-	Buyer's order number is always provided.	

	@type=ON	-		
<RefNo>22620</RefNo>	RefNo	-		20
<RefDate fmt="102">20060213</RefDate>	RefDate	-	Reference date is always the current date.	8
	@fmt=102	-	Standard value.	
</Reference>	-	-		
</References>	-	-		
<Parties>	Parties	1		
<Supplier>	Supplier	1		
<PartyId respAgency="9">422124</PartyId>	PartyId	1	PartyId can be mapped to the ids that the receiver of the message is using by TecCom.	13
	@respAgency=9	R	Standard value "9", even though the party identification may not actually be an EAN number.	
</Supplier>	-			
<Buyer>	Buyer	0..1	Buyer is always provided.	
<PartyId respAgency="9">8823112</PartyId>	PartyId	1	PartyId can be mapped to the ids that the receiver of the message is using by TecCom.	13
	@respAgency=9	R	Standard value "9", even though the party identification may not actually be an EAN number.	
</Buyer>	-			
	DeliveryParty	0..1	DeliveryParty can not be provided.	
</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		9
	@action	R	TecCom supports action codes 5, 7, 24.	

<Product>	Product	1		
<OrderedProduct>	OrderedProduct	1		
<ProductIds>	ProductIds	1		
<ProductId type="SA,IN,EN">FD-ES-4107</ProductId>	ProductId	1..n		IN=30, SA=30, EN=14
	@type	R	TecCom supports IN, SA and EN. Please verify from your supplier, which productid type should be used.	
</ProductIds>	-	-		
<Prices>	Prices	0..1		
<Price currency="GBP" type="NTP">4.11</Price>	Price	1..n	A maximum of 15 characters. Decimal point with a maximum of 4 digits.	15, 4 digits
	@currency	O	If no other value is provided by the supplier, the default value is EUR.	3
	@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		40
	@lang	O	Language code can not be provided by TC1.	
</Descriptions>	-	-		
</OrderedProduct>	-	-		
<Substitute>	Substitute	0..1		
<ProductIds>	ProductIds	1		
<ProductId type="IN,EN,SA">341-2211</ProductId>	ProductId	1..n	TecCom supports IN, SA and EN. Please verify from your supplier, which productid type should be used.	IN=30, SA=30, EN=14
	@type	R		
</ProductIds>	-	-		

<Prices>	Prices	-		
<Price currency="GBP" type="NTP, AP">4.78</Price>	Price	1..n	A maximum of 15 characters. Decimal point with a maximum of 4 digits.	15, 4 digits
	currency	O	If no other value is provided by the supplier, the default value is EUR.	3
	@type=NTP	R	TecCom supports both NTP=net price and AP=special offer price for alternative parts.	
	@unitPriceBasis	O	If no other value is provided by the supplier, the default value is 1.	
</Prices>	-			
<Descriptions>	Descriptions	0..1		
<Description>General Tie Rod End</Description>	Description	1..n		40
	@lang	O	Language code can not be provided by TC1.	
</Descriptions>	-			
</Substitute>				
</Product>	-	-		
	QtyDiff	0..1	Quantity Difference can not be provided by TC1.	
<RefLineNo> 1</RefLineNo>	RefLineNo	0..1		9
<Delivered>	Delivered	1..n		
<QtyToBeDelivered unit="PCE"> 1</QtyToBeDelivered>	QtyToBeDelivered	1		
	@unit		If no other value is provided by the supplier, the default value is PCE.	
	DeliveryDate	0..1	DeliveryDate can not be provided for CAP rush orders, since by definition the rush orders are delivered the same day.	
</Delivered>	-	-		
	Charge	0..1	Charge can not be provided by TC1.	
</Lines>	-	-		
</OrderResponse>	-	-		

3 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.