

TECCOM SUPPLIER GUIDE
FOR CONVERTING TXML DESADV
TO CLEPA-FIGIEFA EDIFACT

VERSION 1.0

21.11.2006

The TecConversion Center makes possible the exchange of edifact and CAP messages between trader and supplier. Traders can reach all suppliers who have TecCom. Suppliers can also send CAP and edifact messages to TecCom traders who do not use these formats or do not even have EDI systems.

If the supplier sends a reverse message – order response, despatch advice, invoice – to a trader, the Conversion Center brings it into the format the trader has requested.

This document describes the maximum data contents of a TXML despatch advice (version 2.0), that can be converted into Clepa-Figiefa edifact format (DESADV Subset D.96A version 005) in the TecCom Conversion Center. In this scenario, the supplier is sending TXML despatch advices and the buyer is receiving them in Clepa-Figiefa edifact format.

TecCom despatch advice process is asynchronous, meaning that the despatch advices are sent in a schedule that is independent of the preceding events, e.g. sending of an order or order response. In some cases, a supplier may not send a despatch advice at all via TecCom but on paper.

The asynchronous despatch advice process can be accessed with any of the supported communication methods: FTP, OFTP, ISDN and TecCom Open Messaging. Please refer to separate documentation about the communication methods and the TecCom Open Messaging framework.

The purpose of this document is to display an example of a TXML despatch advice document, which is compliant with the limitations of the TecCom converter and the requirements of the Clepa-Figiefa specification.

Since suppliers create TXML despatch advice messages themselves, their contents can vary considerably. Therefore, TecCom has created some rules, which the suppliers should follow in order to limit the variations in the use of the messages. E.g. there are rules with respect to the message structure, field lengths, and use of different elements in different situations etc.

The most important restriction concerns the structure of the despatch advice message. The converter can only process messages, with the following structure:

The first package is a so called dummy package. It contains information on the total number and measurements of normal packages in the despatch lot. It should always contain the text “TOTAL PACKS”. PacketCount is the number of normal packages, dummy package not included.

```
<Package>
  <PkgNumber>1</PkgNumber>
  <PkgInfo>
    <PacketCount>2</PacketCount>
    <PacketKind>TOTAL PACKS</PacketKind>
  </PkgInfo>
  <Measurements>
    <MeasurementUnit MeasurementUnitQualifier="AAA"
UoM="KGM">1.710</MeasurementUnit>
    <MeasurementUnit MeasurementUnitQualifier="AAB"
UoM="KGM">1.710</MeasurementUnit>
  </Measurements>
</Package>
```

Normal packages follow dummy package on the same hierarchical level. This means that it is not possible to depict nested structures.

```
<Package>
  <PkgNumber>1</PkgNumber>
  <PkgInfo>
    <PacketCount>2</PacketCount>
    <PacketKind>TOTAL PACKS</PacketKind>
  </PkgInfo>
  ...
  "dummy package"
  ...
</Package>
<Package>
  <PkgNumber>2</PkgNumber>
  <PkgInfo>
    <PacketCount>1</PacketCount>
    <PacketKind>CT</PacketKind>
  </PkgInfo>
  ...
  "normal package"
  ...
</Package>
<Package>
  <PkgNumber>3</PkgNumber>
  <PkgInfo>
    <PacketCount>1</PacketCount>
    <PacketKind>CT</PacketKind>
  </PkgInfo>
  ...
  "normal package"
  ...
</Package>
```

The packages are numbered consecutively in field PkgNumber. This is not the identification number of the package, which can be given in field PkgId / PkgIdentNumber. The PacketCount of each normal package is always one, because nested structures are not allowed.

This guide should not be used alone. The overall content and structure of a TXML despatch advice is described in the document

“IFD_DespatchAdvice_20_en.doc”. This supplier guide describes only a specific use scenario with its restrictions, i.e. when a TXML despatch advice is converted into Clepa-Figiefa.

Table 1 describes the maximum data contents of a TXML despatch advice message that can be transmitted via the TecCom Conversion Center to the recipient. Please note, that some recipients may not utilise all the data that a supplier is able to provide (e.g. additional product descriptions).

The first column of table 1 depicts the maximum TXML despatch advice message that can be processed by the converter. No error is caused, if the data contents is wider (within the limits of the invoice DTD) than what is described in table 1. This information will simply not be transported to the recipient.

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

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

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 imposed by the converter on the TXML message.

The fifth column defines the maximum length of different data contents on a TXML despatch advice.

TABLE 1: Maximum contents of a TXML despatch advice when converting into Clepa-Figiefa

	TXML ELEMENTS AND ATTRIBUTES	TXML MULTIPLICITY	TECCOM RULES	MAX LENGTH
<DesAdv>	DesAdv	1		
<Document Type="DesAdv" Version="2.0"/>	Document	1		
	@Type			
	@Version			
<DesAdvHeader>	DesAdvHeader	1		
<DesAdvId>71253</DesAdvId>	DesAdvId	1		35
<DesAdvIssueDate>	DesAdvIssueDate	1		
<Date Qualifier="At">20061108</Date>	Date	1		35
	@Qualifier	0		
</DesAdvIssueDate>				
<DeliveryDate>	DeliveryDate	1		
<Date Qualifier="At">20061108</Date>	Date	1		35
	@Qualifier	0		
</DeliveryDate>				
<TransportDetails>	TransportDetails	0..1		
<TransportMode>30</TransportMode>	TransportMode	1		3
	TransportTypeMeansCode	0..1		8
	TransportTypeMeansFree	0..1		17
	CarrierIdentificationILN	0..1		17
</TransportDetails>				
<OrderRef>	OrderRef	1..n		
<SellerOrderNumber>122648</SellerOrderNumber>	SellerOrderNumber	1	Not mapped to CF at all.	
<BuyerOrderNumber>496190</BuyerOrderNumber>	BuyerOrderNumber	0..1	Not mapped to CF at all.	
<Date Qualifier="At">20061024</Date>	Date	1	Not mapped to CF at all.	
</OrderRef>				

<OrderRef>				
<SellerOrderNumber>122650</SellerOrderNumber>				
<BuyerOrderNumber>496479</BuyerOrderNumber>				
<Date Qualifier="At">20061024</Date>				
</OrderRef>				
<SellerParty>	SellerParty	1		
<PartyNumber>169374</PartyNumber>	PartyNumber	1	PartyNumber is mapped to RFF+API in CF.	35
<Address>	Address	1		
<Name1>ABC BENELUX N.V.</Name1>	Name1	1		35
	Name2	0..1		35
<Street1>NIJVERHEIDSSTRAAT 12</Street1>	Street1	1		35
	Street2	0..1		35
<PostalCode/>	PostalCode	1		9
<City>2260 OEVEL</City>	City	1		35
<CountryCode>BE</CountryCode>	CountryCode	1		3
<CountryName>Belgium</CountryName>	CountryName	0..1	Not mapped to CF at all.	
</Address>				
</SellerParty>				
<BuyerParty>	BuyerParty	1		
<PartyNumber>00015789</PartyNumber>	PartyNumber	1	PartyNumber is mapped to RFF+API in CF.	35
<Address>	Address	1		
<Name1>Steingruber GmbH & Co</Name1>	Name1	1		35
	Name2	0..1		35
<Street1>Ludwig-Wilhelm-Str. 12</Street1>	Street1	1		35
	Street2	0..1		35
<PostalCode>92238</PostalCode>	PostalCode	1		9
<City>Rosenberg</City>	City	1		35
<CountryCode>DE</CountryCode>	CountryCode	1		3
<CountryName>Germany</CountryName>	CountryName	0..1	Not mapped to CF at all.	
</Address>				
</BuyerParty>				
<DeliveryParty>	DeliveryParty	0..1		

<PartyNumber>00015789</PartyNumber>	PartyNumber	0..1	PartyNumber is mapped to RFF+API in CF.	35
<Address>	Address	1		
<Name1>Steingruber GmbH & Co</Name1>	Name1	1		35
	Name2	0..1		35
<Street1>Ludwig-Wilhelm-Str. 12</Street1>	Street1	1		35
	Street2	0..1		35
<PostalCode>92238</PostalCode>	PostalCode	1		9
<City>Rosenberg</City>	City	1		35
<CountryCode/>	CountryCode	1		3
<CountryName>DEUTSCHLAND</CountryName>	CountryName	0..1	Not mapped to CF at all.	
</Address>				
</DeliveryParty>				
	InvoiceParty	0..1		
	FreeText	0..n	Not mapped to CF at all.	
</DesAdvHeader>				
<Package>	Package	1..n	This is the mandatory dummy package.	
<PkgNumber>1</PkgNumber>	PkgNumber	1	PkgNumber of the dummy package is always "1".	12
<PkgInfo>	PkgInfo	0..1	PkgInfo is mandatory in the dummy package.	
<PacketCount>1</PacketCount>	PacketCount	1	Leading zeros are cut off. PacketCount in the dummy package indicates the total number of normal packages in the despatch advice.	8
<PacketKind>TOTAL PACKS</PacketKind>	PacketKind	1	Always use string "TOTAL PACKS".	17
	PacketKindFreeText	0..1	Not necessary in the dummy package.	35
</PkgInfo>				
	PkgId	0..n	Do not use PkgId in the dummy package.	

	PkgRef	0..1	Do not use PkgRef in the dummy package.	
<Measurements>	Measurements	0..1	Measurements indicates the total measurement values of the normal packages in the despatch advice.	
<MeasurementUnit MeasurementUnitQualifier="AAA" UoM="KGM">1.710</MeasurementUnit>	MeasurementUnit	1..n		18
	@MeasurementUnitQualifier	R	Use a code according to Clepa-Figiefa. See the end of this document.	3
	@UoM	R	Use a code according to Clepa-Figiefa. See the end of this document.	3
</Measurements>				
	FreeText	0..n		
</Package>				
<Package>	Package or PkgItem	1..n		
<PkgNumber>2</PkgNumber>	PkgNumber	1	PkgNumber for normal packages should grow incrementally. PkgNumber is not the identification of the package. It is only a hierarchical id within the message. Package identification should be given in element PkgIdentNumber.	12
<PkgInfo>	PkgInfo	0..1		
<PacketCount>1</PacketCount>	PacketCount	1	PacketCount should always be 1, because TecCom supports only one hierarchical level of packages. This example message contains only one package with two different items.	8
<PacketKind>CT</PacketKind>	PacketKind	1	Use a code according to Clepa-Figiefa. See the end of this document.	17
	PacketKindFreeText	0..1		35
</PkgInfo>				
<PkgId>	PkgId	0..n		

<PkgIdentSystem>17</PkgIdentSystem>	PkgIdentSystem	1	Use a code according to Clepa-Figiefa. See the end of this document.	3
<PkgIdentNumberQualifier>BN</PkgIdentNumberQualifier>	PkgIdentNumberQualifier	1	Use a code according to Clepa-Figiefa. See the end of this document.	3
<PkgIdentNumber>00122211008</PkgIdentNumber> </Pkgld>	PkgIdentNumber	1	If the supplier is not able to provide an identification number, the text "NO VALUE AVAILABLE" will be written into the respective field in CF.	35
	PkgRef	0..1		
<Measurements>	Measurements	0..1		
<MeasurementUnit MeasurementUnitQualifier="AAA" UoM="KGM">1.710</MeasurementUnit>	MeasurementUnit	1..n		18
	@MeasurementUnitQualifier	R	Use a code according to Clepa-Figiefa. See the end of this document.	3
	@UoM	R	Use a code according to Clepa-Figiefa. See the end of this document.	3
</Measurements>				
<PkgItem>	Package or PkgItem			
<PositionNumber>1</PositionNumber>	PositionNumber	1		6
<DeliveredQuantity>	DeliveredQuantity	1		
<Quantity UoM="PCE">30</Quantity>	Quantity	1		15
	@UoM	R		3
</DeliveredQuantity>				
<ProductId>	ProductId	1		
<MakerCode>ABC</MakerCode>	MakerCode	1	Not mapped to CF at all.	
<ProductNumber>250070</ProductNumber>	ProductNumber	1		35
<Ean>3351642500708</Ean>	Ean	0..1		35
<BuyerProductNumber>2182483</BuyerProductNumber>	BuyerProductNumber	0..1		35
</ProductId>				
<ProductDescription>	ProductDescription	1		

<ProductName1>Gewindeb.</ProductName1>	ProductName1	1		35
	ProductName2	0..1		35
</ProductDescription>				
	QtyVariance	0..n	Not mapped to CF at all.	
<OrderRef>	OrderRef	1		
<SellerOrderNumber>122648</SellerOrderNumber>	SellerOrderNumber	1		35
<BuyerOrderNumber>496190</BuyerOrderNumber>	BuyerOrderNumber	0..1		35
<Date Qualifier="At">20061024</Date>	Date	1		35
	@Qualifier	O		
</OrderRef>				
<OrderItemRef>	OrderItemRef	1		
<SellerOrderItemRef>250070</SellerOrderItemRef>	SellerOrderItemRef	1		35
<BuyerOrderItemRef>2182483</BuyerOrderItemRef>	BuyerOrderItemRef	0..1		35
</OrderItemRef>				
<Measurements>	Measurements	0..1	On PkgItem level, Measurements are not mapped to CF at all.	
<MeasurementUnit MeasurementUnitQualifier="AAA" UoM="KGM">0.620</MeasurementUnit>	MeasurementUnit	1..n		
	@MeasurementUnitQualifier	R		
	@UoM	R		
</Measurements>				
	FreeText	0..n	Not mapped to CF at all.	
</PkgItem>				
<PkgItem>	Package or PkgItem	1..n		
<PositionNumber>2</PositionNumber>	PositionNumber	1		6
<DeliveredQuantity>	DeliveredQuantity	1		
<Quantity UoM="PCE">900</Quantity>	Quantity	1		15
	@UoM	R		3
</DeliveredQuantity>				
<ProductId>	ProductId	1		
<MakerCode>ABC</MakerCode>	MakerCode	1	Not mapped to CF at all.	
<ProductNumber>250248</ProductNumber>	ProductNumber	1		35
<Ean>3351642502481</Ean>	Ean	0..1		35

<BuyerProductNumber>3038316</BuyerProductNumber>	BuyerProductNumber	0..1		35
</ProductId>				
<ProductDescription>	ProductDescription	1		
<ProductName1>Gewindeb.</ProductName1>	ProductName1	1		35
	ProductName2	0..1		35
</ProductDescription>				
	QtyVariance	0..n	Not mapped to CF at all.	
<OrderRef>	OrderRef	1		
<SellerOrderNumber>122650</SellerOrderNumber>	SellerOrderNumber	1		35
<BuyerOrderNumber>496479</BuyerOrderNumber>	BuyerOrderNumber	0..1		35
<Date Qualifier="At">20061024</Date>	Date	1		35
	@Qualifier	O		
</OrderRef>				
<OrderItemRef>	OrderItemRef	1		
<SellerOrderItemRef>250248</SellerOrderItemRef>	SellerOrderItemRef	1		35
<BuyerOrderItemRef>3038316</BuyerOrderItemRef>	BuyerOrderItemRef	0..1		35
</OrderItemRef>				
<Measurements>	Measurements	0..1	On PkgItem level, Measurements are not mapped to CF at all.	
<MeasurementUnit MeasurementUnitQualifier="AAA" UoM="KGM">1.090</MeasurementUnit>	MeasurementUnit	1..n		
	@MeasurementUnitQualifier	R		
	@UoM	R		
</Measurements>				
	FreeText	0..n	Not mapped to CF at all.	
</PkgItem>				
</Package>				
</DesAdv>				

Here is the same example message in Clepa-Figiefa edifact format:

BGM+351+71253+9
DTM+137:20061108:102
RFF+AAK:71253
DTM+171:20061108:102
NAD+SU+++ABC BENELUX N.V.+NIJVERHEIDSSTRAAT
12+2260 OEVEL+++BE
RFF+API:169374
NAD+BY+++Steingruber GmbH & Co+Ludwig-Wilhelm-Str.
12+Rosenberg++92238+DE
RFF+API:00015789
NAD+DP+++Steingruber GmbH & Co+Ludwig-Wilhelm-Str.
12+Rosenberg++92238
RFF+API:00015789
TDT+20++30
CPS+1
PAC+1++TOTAL PACKS
MEA+PD+AAA+KGM:1.710
MEA+PD+AAB+KGM:1.710
CPS+2+1
PAC+1++CT
MEA+PD+AAA+KGM:1.710
MEA+PD+AAB+KGM:1.710
PCI+17
GIN+BN+00122211008
LIN+1++3351642500708:EN
PIA+5+250070:SA
PIA+5+2182483:BP
IMD+F+++::Gewindeb.
QTY+12:30.00:PCE
RFF+VN:122648:10

DTM+171:20061024:102
RFF+ON:496190:20
LIN+2++3351642502481:EN
PIA+5+250248:SA
PIA+5+3038316:BP
IMD+F+++::Gewindeb.
QTY+12:900.00:PCE
RFF+VN:122650:12
DTM+171:20061024:102
RFF+ON:496479:7

Table 2 Allowed values for attribute UoM (unit of measurement)

CEL	Degree celsius
CMT	Centimetre
EA	Each
FAH	Degree fahrenheit
GRM	Gram
HUR	Hour
INH	Inch (25,4 mm)
KGM	Kilogram
LTR	Litre (1 dm ³)
MIN	Minute
MLT	Millilitre
MMT	Millimetre
MTK	Square metre
MTQ	Cubic metre
MTR	Metre
NAR	Number of articles
NRL	Number of rolls
PCE	Piece
TNE	Metric ton (1000 kg)

Table 3 Allowed values for attribute MeasurementUnitQualifier

AAA	Unit net weight
AAB	Unit gross weight
AAF	Net net weight
AAW	Gross volume
ABJ	Volume
AEB	Stacking height
HT	Height
LN	Length
WD	Width

Table 4 Allowed values for field PacketKind

8	Oneway pallet (EAN Code) Pallet need not be returned to the point of expedition (despatch)	BGE	Large bag, pallet sized (EAN Code) A non-rigid container made of fabric, paper, plastic, etc ... with an opening at the top which can be closed and which is suitable for use on pallets
9	Returnable pallet (EAN Code) Pallet must be returned to the point of expedition (despatch)	BX	Box A lidded package which can be made of cardboard, wood, plastic, tin, etc
200	Pallet ISO 0 - 1/2 EURO Pallet (EAN Code) Standard pallet with dimensions 80 X 60 cm	CCE	Cardboard carrier (EAN Code) A package made of cardboard
201	Pallet ISO 1 - 1/1 EURO Pallet (EAN Code) Standard pallet with dimensions 80 X 120 cm	CHC	CHEP cage (EAN Code) A cage, which can be mounted in one or more layers, on a pallet base
202	Pallet ISO 2 (EAN Code) Standard pallet with dimensions 100 X 120 cm	CT	Carton A cardboard box or container
203	1/4 EURO Pallet (EAN Code) Standard pallet with dimensions 60 X 40 cm	DPE	Display package (EAN Code) A package used for the display of goods, usually during a promotion
204	1/8 EURO Pallet (EAN Code) Standard pallet with dimensions 40 X 30 cm	FP	Filmpack Packaging using a clear thin plastic
210	Wholesaler pallet (EAN Code) Pallet provided by the wholesaler	FPE	Foil packed (EAN Code) Packaging using metallic foil
211	Pallet 80 X 100 cm (EAN Code) Pallet with dimensions 80 X 100 cm	JC	Jerrycan, rectangular A rigid rectangular container with a lid which is usually used for the storage and movement of oil, gasoline, etc
212	Pallet 60 X 100 cm (EAN Code) Pallet with dimensions 60 X 100 cm	JY	Jerrycan, cylindrical
APE	Aluminium packed (EAN Code) Packaging using a thin sheets of aluminium		

A rigid cylindrical container with a lid which is usually used for the storage and movement of oil, gasoline, etc

MPE	Multipack (EAN Code) A container for the merchandising of multiple units of the same product
NE	Unpacked or unpackaged A product merchandised or sold without packaging
PK	Package A wrapper or boxed item
PLP	Peel park (EAN Code) A package used for sterile products which may be torn open without touching the product inside
RO	Roll A package of goods wound into a ball or cylinder
THE	Three pack (EAN Code) A package containing three products
TWE	Two pack (EAN Code) A package containing two products

Table 5 Allowed values for field PkgIdentSystem

17	Supplier's instructions Marked with serial shipping contained code (EAN Code)
33E	Code)
34E	Marked with EAN/UPC number (EAN Code)

Table 6 Allowed values for field PkgIdentNumberQualifier

BN	Serial number
BJ	Serial shipping container code (EAN code)
EU	EAN/UPC number (EAN code)