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## Data Model Documentation T&T CPP

### Data Model Detail

This document provides an overview of the data model of the track & trace crop protection products use case.

This report describes two class models: one for the Order message and one for the Delivery message. The delivery message is also called the Despatch Advice message.

The class models, are used to specify the data sets that are to be exchanged between the different parties in the supply chain. The two messages support several different use cases for the T&T CPP supply chain.

Parties involved in the T&T CPP supply chain are: the Manufacturer, the Wholesaler, the Logistic Service Provider, the Distributor and the Farmer.

For each of the two messages (Order and Deliver) a separate class diagram is constructed. The same classes may occur in both diagrams, some classes are specific for either the Order message or the Delivery Message.

The diagrams should be 'read' by following the arrows. For instance for the Order Message:

- one message may contain one or more Orders.
- one Order may contain one or more OrderLines.
- one Order has one or more Parties involved (Byer, Seller, Logistics).
- one Order has one or more Timing attached (exact moment, or a time slot).
- one OrderLine has one or more ProductUnit attached.
- a ProductUnit maybe a LogisticUnit, a TradeUnit or a ConsumerUnit.
- etc.

Enumerations stand for code lists. One important principle is to stay close to existing and leading standards that are used for data exchange in supply chain management. This means that the GS1 identifiers (GLN, SSCC, GTIN) are used to identify the instances and events and that the UN/CEFACT and ISO code lists are used where possible for the enumerations.

A second important principle is to stay as close as possible to the Cristal specifications.

The definitions of the items are reported in alphabetical order; first the classes, followed by the enumerations.

The class model can be mapped to different types of message syntaxes, such as xml and Json. For the "Track & Trace Crop Protection Products" project a mapping is made to a standard xml Order message and a standard xml DespatchAdvice (Delivery) message. These xml mappings are published as xsd's (xml schema specifications). The xml tags used in the xsd's are the same as the names of the data elements used in the class diagrams.

### Class Model Track & Trace Crop Protection Products

Type:

Package:

Detail:

Notes:

Package

Model

Created on 24-2-2017. Last modified on 8-12-2017.

## Class Model Delivery CropProtectionProducts

*Created By:* Conny Graumans (AgroConnect) on 22-11-2017

*Last Modified:* 21-8-2018, *Version:*v2018p12

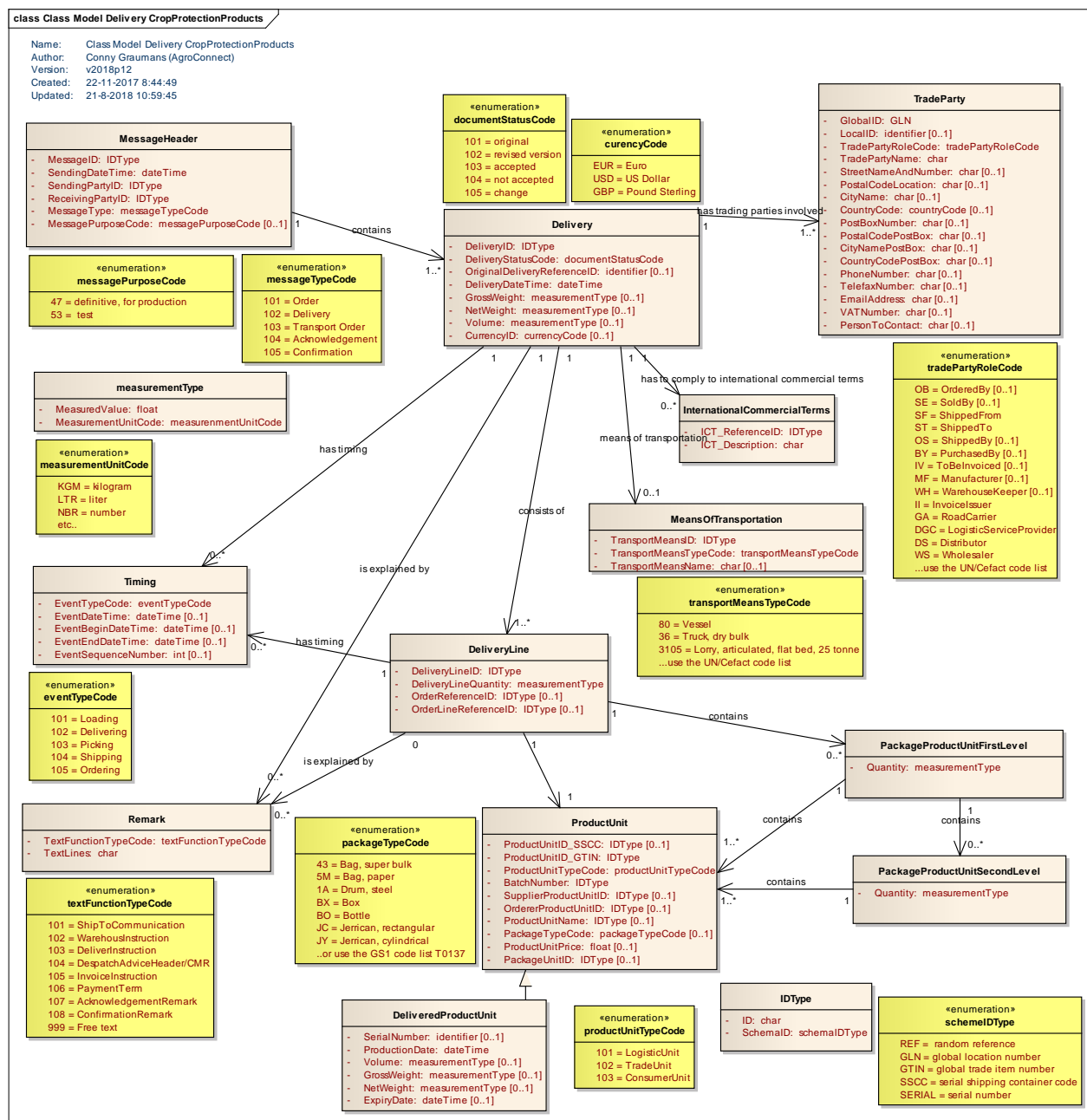


Figure: 1

**Class Model Order CropProtectionProducts**

Created By: Conny Graumans (AgroConnect) on 18-9-2017

Last Modified: 21-8-2018, Version: v2018p12

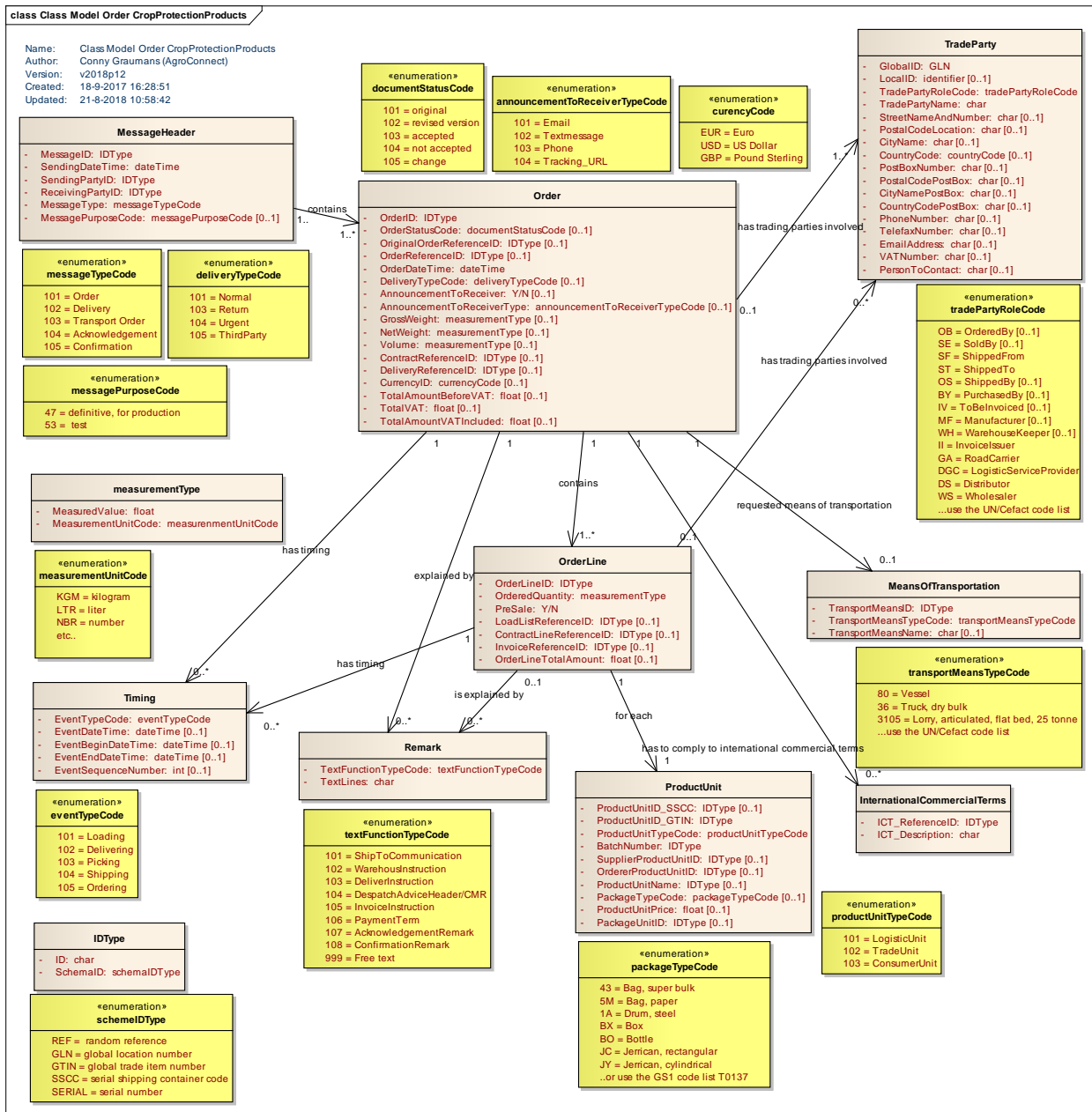


Figure: 2

# Classes

## DeliveredProductUnit

*Detail:* Created on 12-12-2017. Last modified on 15-12-2017.

*Notes:* Specific characteristics of a ProductUnit in case of a delivery.  
These characteristics are not relevant for the ordered ProductUnits.

### Columns

Name	Type	Notes
SerialNumber	identifier	Serial number of this ProductUnit, generated by the manufacturer. Only to be used in the Delivery message, not in the Order message.
ProductionDate	dateTime	Only to be used in the delivery message, not in the order message.
Volume	measurementType	The volume of one ProductUnit.
GrossWeight	measurementType	Gross weight of a single ProductUnit.
NetWeight	measurementType	Net weight of a single ProductUnit.
ExpiryDate	dateTime	The expiry date of this ProductUnit. The date after which it is no longer allowed to use this product.

### Relationships

Columns	Association	Notes
	DeliveredProductUnit. ProductUnit.	

## Delivery

*Detail:* Created on 23-11-2017. Last modified on 23-11-2017.

*Notes:* Root element of the Delivery (DespatchAdvice) message.

### Columns

Name	Type	Notes
DeliveryID	IDType	Unique identifier of a specific delivery, generated by the delivering party.
DeliveryStatusCode	documentStatusCode	Indicates the status of this delivery: original, revised.
OriginalDeliveryReferenceID	identifier	Reference to the original delivery that should be replaced by this delivery.
DeliveryDateTime	dateTime	Timestamp of the moment the delivery note was issued.
GrossWeight	measurementType	Gross weight of the complete delivery.
NetWeight	measurementType	Net weight of the complete delivery.
Volume	measurementType	Total volume of the complete delivery. Measured in cubic meters.
CurrencyID	currencyCode	Code for the currency that is used to express the financial amounts in this order. For the UN/Cefactodelist for types of currencies is used: ISO_ISO3AlphaCurrencyCode_2012-08-31.xsd.

### Relationships

Columns	Association	Notes
contains	<b>1</b> MessageHeader. <b>1..*</b> Delivery.	
has timing	<b>1</b> Delivery. <b>0..*</b> Timing.	
is explained by	<b>1</b> Delivery.	

Columns	Association	Notes
	<b>0..*</b> Remark.	
means of transportation	<b>1</b> Delivery. <b>0..1</b> MeansOfTransportation.	
has to comply to international commercial terms	<b>1</b> Delivery. <b>0..*</b> InternationalCommercialTerms.	
consists of	<b>1</b> Delivery. <b>1..*</b> DeliveryLine.	
has trading parties involved	<b>1</b> Delivery. <b>1..*</b> TradeParty.	

## DeliveryLine

*Detail:* Created on 23-11-2017. Last modified on 15-2-2018.

*Notes:* Characteristics of the delivery of a ProductUnit.  
Within the Delivery there is a separate DeliveryLine for each of the ProductUnits that have the same SSCC or that have the same GTIN; so there is a one-to-one association between DeliveryLine and ProductUnit.

### Columns

Name	Type	Notes
DeliveryLineID	IDType	Unique identifier of a delivery line; assigned by the delivering party.
DeliveryLineQuantity	measurementType	The number of ProductUnits that is (to be) delivered.
OrderReferenceID	IDType	Identifier of the order, as assigned by the ordering party, that is linked to this delivery line.
OrderLineReferenceID	IDType	Identifier of the order line, as assigned to the ordering party, that is linked to this delivery line.

### Relationships

Columns	Association	Notes
consists of	<b>1</b> Delivery. <b>1..*</b> DeliveryLine.	
is explained by	<b>0</b> DeliveryLine. <b>0..*</b> Remark.	
	<b>1</b> DeliveryLine. <b>1</b> ProductUnit.	
contains	<b>1</b> DeliveryLine. <b>0..*</b> PackageProductUnitFirstLevel.	
has timing	<b>1</b> DeliveryLine. <b>0..*</b> Timing.	

## IDType

*Detail:* Created on 21-8-2018. Last modified on 21-8-2018.

*Notes:* Identifying data-elements, like OrderID, GlobalISD, OrderLineID, are of the datatype, called IDType.  
IDType has a special attribute attached, called schemaID, to indicate what type of schema is used to fill in the value of the identifier.

### Columns

Name	Type	Notes
ID	char	The value of the identifier. SchemaID is used to specify what type of identifier is used.
SchemaID	schemaIDType	Identifying data-elements, like OrderID, GlobalISD, OrderLineID, are of the datatype, called IDType.

		Indicates what type of schema is used to fill in the value of the identifier (e.g. REF, GLN, GTIN, SSCC).
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## InternationalCommercialTerms

*Detail:* Created on 22-11-2017. Last modified on 7-12-2017.

*Notes:* Reference to international standard terms of trade (International Commercial Terms, ITC).

### Columns

Name	Type	Notes
ICT_ReferenceID	IDType	Unique identifier of an ICT. Must use Incoterms 2010 codes.
ICT_Description	char	Short description of the ICT.

### Relationships

Columns	Association	Notes
has to comply to international commercial terms	<b>1</b> Order. <b>0..*</b> InternationalCommercialTerms.	
has to comply to international commercial terms	<b>1</b> Delivery. <b>0..*</b> InternationalCommercialTerms.	

## MeansOfTransportation

*Detail:* Created on 20-11-2017. Last modified on 23-11-2017.

*Notes:* Type of carrier used to move the goods ( e.g. a lorry or a vessel).

### Columns

Name	Type	Notes
TransportMeansID	IDType	Unique identifier of the carrier of the load (e.g. a license number of a truck).
TransportMeansTypeCode	transportMeansTypeCode	Specification of the type of carrier that is used (e.g. a lorry, a vessel, etc.).
TransportMeansName	char	Short description of the carrier that is used.

### Relationships

Columns	Association	Notes
requested means of transportation	<b>1</b> Order. <b>0..1</b> MeansOfTransportation.	
means of transportation	<b>1</b> Delivery. <b>0..1</b> MeansOfTransportation.	
has means of transportation	<b>1</b> Order. <b>1</b> MeansOfTransportation.	

## MessageHeader

*Detail:* Created on 20-11-2017. Last modified on 23-11-2017.

*Notes:* General characteristics of this message.

### Columns

Name	Type	Notes
MessageID	IDType	Unique identifier of the message send, to be generated by the sending party.
SendingDateTime	dateTime	Timestamp of the moment the message was sent.
SendingPartyID	IDType	Unique identifier of the sending party of this message. Must be a GLN.
ReceivingPartyID	IDType	Unique identifier of the receiving party of this message.

		Must be a GLN.
MessageType	messageTypeCode	Specification of the type of message; can be an Order or a DespatchAdvice message.
MessagePurposeCode	messagePurposeCode	To indicate wheather the message is a test version or a production version. For this UN/Cefact "codelist 1225_MessageFunctionTypeCode" is used.

Relationships

Columns	Association	Notes
contains	<b>1</b> MessageHeader. <b>1..*</b> Delivery.	
contains	<b>1..</b> MessageHeader. <b>1..*</b> Order.	

**Order***Detail:*

Created on 19-9-2017. Last modified on 23-11-2017.

*Notes:*

Root element of the Order message.

Columns

Name	Type	Notes
OrderID	IDType	Unique identifier of the order; also called OrderNumber. Assigned by the ordering party.
OrderStatusCode	documentStatusCode	Indicates the status of this order: original, revised. It's optional. Revised orders using the same OrderID will replace the previous order with the same OrderID.
OriginalOrderReferenceID	IDType	Reference to the original order that should be replaced by this order.
OrderReferenceID	IDType	Reference to an original previous order the current order is based on. For instance, if OrderID is the identifier of the order that is placed by the wholesaler to the manufacturer, than OrderReferenceID might be the identifier of the order that was placed by a distributor to the wholesaler.
OrderDateTime	dateTime	Timestamp of the moment the order was issued.
DeliveryTypeCode	deliveryTypeCode	Type of the ordered delivery (e.g.: normal, speed, 48-hours, return, by a third party.
AnnouncementToReceiver	Y/N	To indicate if the party that is to receive the products, wants to receive an announcement that the order is on its way (yes or no).
AnnouncementToReceiverType	announcementToReceiverTypeCode	Specification of the way the receiver of the ordered products wants to receive the announcement of delivery (e.g. by email, fax, phone, etc.).
GrossWeight	measurementType	Gross weight of the complete shipment.
NetWeight	measurementType	Net weight of the complete shipment.
Volume	measurementType	Volume of the complete order.
ContractReferenceID	IDType	Reference to the contract that is the basis of this order.
DeliveryReferenceID	IDType	Reference to a specific delivery.
CurrencyID	currencyCode	Code for the currency that is used to expres the financila amounts in this order. For the th UN/Cefact codelist for types of currencies is used: ISO_ISO3AlphaCurrencyCode_2012-08-31.xsd .
TotalAmountBeforeVAT	float	The total financial amount of this order, before VAT (VAT excluded).
TotalVAT	float	The total amount of value added tax for this order.
TotalAmountVATIncluded	float	The total financial amount of this order, vat included.

Relationships

Columns	Association	Notes
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Columns	Association	Notes
has trading parties involved	<b>0..1</b> Order. <b>1..*</b> TradeParty.	
requested means of transportation	<b>1</b> Order. <b>0..1</b> MeansOfTransportation.	
has to comply to international commercial terms	<b>1</b> Order. <b>0..*</b> InternationalCommercialTerms.	
contains	<b>1</b> Order. <b>1..*</b> OrderLine.	
explained by	<b>1</b> Order. <b>0..*</b> Remark.	
contains	<b>1..</b> MessageHeader. <b>1..*</b> Order.	
has timing	<b>1</b> Order. <b>0..*</b> Timing.	
has means of transportation	<b>1</b> Order. <b>1</b> MeansOfTransportation.	

## OrderLine

*Detail:*

*Created on 22-9-2017. Last modified on 23-11-2017.*

*Notes:*

Each Order may contain one or more OrderLines to specify what quantities are ordered of a specific product type.

### Columns

Name	Type	Notes
OrderLineID	IDType	Within a specific order, unique identifier for the order line.
OrderedQuantity	measurementType	The ordered quantity of a specific product.
PreSale	Y/N	To indicate if the order is (yes / no) qualified as presale / prepurchase (in Dutch: Voorkoop).
LoadListReferenceID	IDType	Identifier of the load list that is linked to the shipment (in Dutch: Paklijst).
ContractLineReferenceID	IDType	Reference to a specific line in an contract that resulted in this orderline.
InvoiceReferenceID	IDType	Reference to a specific invoice.
OrderLineTotalAmount	float	Total amount for this order line.

### Relationships

Columns	Association	Notes
for each	<b>1</b> OrderLine. <b>1</b> ProductUnit.	
contains	<b>1</b> Order. <b>1..*</b> OrderLine.	
has timing	<b>1</b> OrderLine. <b>0..*</b> Timing.	
is explained by	<b>0..1</b> OrderLine. <b>0..*</b> Remark.	
has trading parties involved	<b>0..1</b> OrderLine. <b>0..*</b> TradeParty.	

## PackageProductUnitFirstLevel

*Detail:*

*Created on 6-12-2017. Last modified on 10-1-2018.*

*Notes:*

In case the ProductUnit is a LogisticUnit, PackageProductUnitFirstLevel is used to specify what TradeUnits and / or ConsumerUnits are part of this LogisticUnit. E.g. a pallet might contain several boxes.

In case the ProductUnit is a TradeUnit, PackageProductUnitFirstLevel is used to specify what

ConsumerUnits are part of this ProductUnit. Data-element Quantity is used to specify the number of units that are part of the LogisticUnit or the TradeUnit.

#### Columns

Name	Type	Notes
Quantity	measurementType	The number of TradeUnits within the LogisticUnit or the number of ConsumerUnits within the TradeUnit.

#### Relationships

Columns	Association	Notes
contains	<b>1</b> DeliveryLine. <b>0..*</b> PackageProductUnitFirstLevel.	
contains	<b>1</b> PackageProductUnitFirstLevel. <b>1..*</b> ProductUnit.	
contains	<b>1</b> PackageProductUnitFirstLevel. <b>0..*</b> PackageProductUnitSecondLevel.	

### PackageProductUnitSecondLevel

*Detail:* Created on 10-1-2018. Last modified on 10-1-2018.

*Notes:* Is used to specify for instance that a box on a pallet contains several bottles of product.

#### Columns

Name	Type	Notes
Quantity	measurementType	The number of ConsumerUnits within a TradeUnit.

#### Relationships

Columns	Association	Notes
contains	<b>1</b> PackageProductUnitFirstLevel. <b>0..*</b> PackageProductUnitSecondLevel.	
contains	<b>1</b> PackageProductUnitSecondLevel. <b>1..*</b> ProductUnit.	

### ProductUnit

*Detail:* Created on 18-9-2017. Last modified on 7-12-2017.

*Notes:* Can be a LogisticUnit, a TradeUnit or a ConsumerUnit.

Logistic unit is an item of any composition established for transport and/or storage which needs to be managed through the supply chain. Logistic units take many forms, a single box containing a limited number of products, a pallet of multiple products, or an intermodal container containing multiple pallets.

A LogisticUnit can be, for example, a pallet that contains several TradeUnits and/or ConsumerUnits. A LogisticUnit must be identified by a SSCC.

A TradeUnit for instance is a box with several of the same ConsumerUnits. A TradeUnit is identified by either a SSCC or a GTIN. The use of SSCC at the box level (trade unit for us as manufacturer) is possible if you have to ship a single case. The SSCC has to be combined with the GTIN of the TradeUnit in that case.

A ConsumerUnit is the smallest package that can be sold to the end consumer. This, for instance, can be a single bottle or a sack of product. A ConsumerUnit is identified by a GTIN.

#### Columns

Name	Type	Notes
ProductUnitID_SSCC	IDType	Is not relevant for the Order message, only for the Delivery message.
ProductUnitID_GTIN	IDType	The GS1-GTIN identifier for this package.

		Being an EAN 13 code. In case the ProductUnit is a LogisticUnit or TradeUnit It is also allowed to use a SSCC as identifier.
ProductUnitTypeCode	productUnitTypeCode	Code that indicates whether it is a LogisticUnit, a TradeUnit or A ConsumerUnit.
BatchNumber	IDType	Unique identifier of the batch from which this product was produced, allocated by the manufacturer. Only to be used in the delivery message, not in the order message.
SupplierProductUnitID	IDType	Identifier of this ProductUnit, allocated by the supplier, other than a GTIN or SSCC.
OrdererProductUnitID	IDType	Identifier of this ProductUnit, allocated by the party that made the order, other than a GTIN or SSCC.
ProductUnitName	IDType	Short name of the ProductUnit.
PackageTypeCode	packageTypeCode	Indication of the type of package that is used for this logistic unit. Could be: a box, big bag, container. Etc. Must use the UN/Cefact code list for this
ProductUnitPrice	float	The price of a singel product unit.
PackageUnitID	IDType	Unique identifier of a reusable package unit, e.g. a (smart) pallet of large case. E.g. a RFID-tag of a smart pallet.

**Relationships**

Columns	Association	Notes
for each	1 OrderLine. 1 ProductUnit.	
	DeliveredProductUnit. ProductUnit.	
	1 DeliveryLine. 1 ProductUnit.	
contains	1 PackageProductUnitFirstLevel. 1..* ProductUnit.	
contains	1 PackageProductUnitSecondLevel. 1..* ProductUnit.	

**Remark**

*Detail:* Created on 20-11-2017. Last modified on 19-12-2017.

*Notes:*

**Columns**

Name	Type	Notes
TextFunctionTypeCode	textFunctionTypeCode	Indicates the type of event that is commented such as a warehouse instruction or a delivery instruction.
TextLines	char	Short instruction. For instance 'unload in storage room one'.

**Relationships**

Columns	Association	Notes
is explained by	1 Delivery. 0..* Remark.	
explained by	1 Order. 0..* Remark.	
is explained by	0..1 OrderLine. 0..* Remark.	
is explained by	0 DeliveryLine. 0..* Remark.	

## Timing

*Detail:* Created on 20-11-2017. Last modified on 28-11-2017.

*Notes:* Specification of a timestamp of time slot for a specific event.

### Columns

Name	Type	Notes
EventTypeCode	eventTypeCode	Code of the type of event this timestamp / timeslot relates to. E.g: Ordering, Shipping, etc.
EventDateTime	dateTime	Exact timestamp of the event; for instance the exact moment the order is created or the delivery takes place.
EventBeginDateTime	dateTime	Timestamp of the beginning of a timeslot.
EventEndDateTime	dateTime	Timestamp of the end of a timeslot.
EventSequenceNumber	int	In case there are, for example, more than one delivery dates/times, to distinguish between these individual delivery dates/times.

### Relationships

Columns	Association	Notes
has timing	<b>1</b> Delivery. <b>0..*</b> Timing.	
has timing	<b>1</b> OrderLine. <b>0..*</b> Timing.	
has timing	<b>1</b> Order. <b>0..*</b> Timing.	
has timing	<b>1</b> DeliveryLine. <b>0..*</b> Timing.	

## TradeParty

*Detail:* Created on 18-9-2017. Last modified on 23-11-2017.

*Notes:* Party (company, person, organisation) that is involved in this trade event.

### Columns

Name	Type	Notes
GlobalID	GLN	Global unique identifier of a trade party. Must be a GLN (farmers excluded).
LocalID	identifier	Identifier of a trade party allocated by a trade party, other than a GLN. For instance an internal client number.
TradePartyRoleCode	tradePartyRoleCode	Indicates the role of the party in this trade event. For instance the seller, buyer, transporter or the party to be invoiced.
TradePartyName	char	Name of the trade party.
StreetNameAndNumber	char	Street name and number of the physical address of trade party.
PostalCodeLocation	char	Postal code of the physical address.
CityName	char	Name of the city of the physical address.
CountryCode	countryCode	ISO code of the country of the physical address. Must be a two letter ISO 3166 code.
PostBoxNumber	char	Number of the postal box of the trading party.
PostalCodePostBox	char	The postal code of the post box.
CityNamePostBox	char	The name of the city of the address of the post-box.
CountryCodePostBox	char	The name of the country of the address of the post-box.
PhoneNumber	char	The phone number.
TelefaxNumber	char	The telefax number.
EmailAddress	char	The email address.
VATNumber	char	The 'value added tax' number of this trade party.
PersonToContact	char	The name of the person to contact.

**Relationships**

<b>Columns</b>	<b>Association</b>	<b>Notes</b>
has trading parties involved	<b>0..1</b> Order. <b>1..*</b> TradeParty.	
has trading parties involved	<b>0..1</b> OrderLine. <b>0..*</b> TradeParty.	
has trading parties involved	<b>1</b> Delivery. <b>1..*</b> TradeParty.	

# Enumerations

## announcementToReceiverTypeCode

*Detail:* Created on 22-11-2017. Last modified on 21-8-2018.

*Notes:*

### Columns

Name	Type	Notes
101 = Email		
102 = Textmessage		
103 = Phone		
104 = Tracking_URL		

## curencyCode

*Detail:* Created on 16-3-2018. Last modified on 21-8-2018.

*Notes:* Code for the currency that is used to express a financial amount. To be picked from:  
ISO\_ISO3AlphaCurrencyCode\_2012-08-31.xsd.

### Columns

Name	Type	Notes
EUR = Euro		
USD = US Dollar		
GBP = Pound Sterling		

## deliveryTypeCode

*Detail:* Created on 20-11-2017. Last modified on 21-8-2018.

*Notes:*

### Columns

Name	Type	Notes
101 = Normal		
103 = Return		
104 = Urgent		
105 = ThirdParty		

## documentStatusCode

*Detail:* Created on 7-2-2018. Last modified on 21-8-2018.

*Notes:* Indication of the status of the exchanged document. 'Original' and 'Revised version' are used in the Order and DespatchAdvice message. 'Accepted', 'Not accepted' and 'Denied' are used in the Acknowledgement and Confirmation message.

### Columns

Name	Type	Notes
101 = original		
102 = revised version		
103 = accepted		Applicable for the Order message: the order is fully accepted.
104 = not accepted		Applicable for the Order message: the entire order is not accepted.
105 = change		Applicable for the Order message: the original order is partly modified. The modified order is enclosed in the confirmation message.

## eventTypeCode

*Detail:* Created on 20-11-2017. Last modified on 21-8-2018.  
*Notes:* Indication of the type of event for this specific timestamp or for this specific timeslot.

Columns

Name	Type	Notes
101 = Loading		
102 = Delivering		
103 = Picking		
104 = Shipping		
105 = Ordering		

**measurementType**

*Detail:* Created on 27-11-2017. Last modified on 2-1-2018.  
*Notes:* The measurement type contains a value (the number in a specific unit) and a code for the unit that is used to express the value.  
 Recommended number of decimals places for calculations and display of:

- Unit prices: 3 decimal places
- Amounts: 2 decimal places
- Quantities: 3 decimals places

Columns

Name	Type	Notes
MeasuredValue	float	The number of units. E.g. 10 or 250,34. Recommended number of decimal places for calculations and display for: <ul style="list-style-type: none"> <li>- Unit prices: 3 decimal places</li> <li>- Amounts: 2 decimal places</li> <li>- Quantities: 3 decimals places</li> </ul>
MeasurementUnitCode	measurementUnitCode	Must use the UNECE / ISO standard codes for types of measurements. Available as: <ul style="list-style-type: none"> <li>- UNECE_MeasurementUnitCommonCodeVolume_4.xsd</li> <li>- UNECE_MeasurementUnitCommonCodeWeight_4.xsd</li> </ul> An alternative is to use the AgroConnect code list for measurements and dimensions CL020 (based on the UN/Cefact / ISO standard plus all kinds of dimensions like kg/ha, gram/liter, etc.).

**measurementUnitCode**

*Detail:* Created on 2-1-2018. Last modified on 21-8-2018.  
*Notes:* Must use the UNECE / ISO standard codes for types of measurements.  
 Available as:  

- UNECE\_MeasurementUnitCommonCodeVolume\_4.xsd
- UNECE\_MeasurementUnitCommonCodeWeight\_4.xsd

 An alternative is to use the AgroConnect code list for measurements and dimensions CL020 (based on the UN/Cefact / ISO standard plus all kinds of dimensions like kg/ha, gram/liter, etc.).

Columns

Name	Type	Notes
KGM = kilogram		
LTR = liter		
NBR = number		
etc..		

## messagePurposeCode

*Detail:* Created on 28-5-2018. Last modified on 21-8-2018.

*Notes:* Indication of the purpose of this message. Codes are picked from UNECE\_MessageFunctionCode\_D16B.xsd.

### Columns

Name	Type	Notes
47 = definitive, for production		To indicate that this message is for actual production purposes.
53 = test		To indicate that the message is for testing purposes.

## messageTypeCode

*Detail:* Created on 22-11-2017. Last modified on 21-8-2018.

*Notes:* Indicates whether it is an Order or a Delivery message.

### Columns

Name	Type	Notes
101 = Order		
102 = Delivery		
103 = Transport Order		
104 = Acknowledgement		
105 = Confirmation		

## packageTypeCode

*Detail:* Created on 1-12-2017. Last modified on 21-8-2018.

*Notes:* Must use the UN/Cefact coding.

Published as; UNECE\_PackageTypeCode\_2006.xsd .

### Columns

Name	Type	Notes
43 = Bag, super bulk		
5M = Bag, paper		
1A = Drum, steel		
BX = Box		
BO = Bottle		
JC = Jerrican, rectangular		
JY = Jerrican, cylindrical		
..or use the GS1 code list T0137		The GS1 code list PackagingType 'T0137' is preferred. Alternative is the AgroConnect code list CL365.

## productUnitTypeCode

*Detail:* Created on 6-12-2017. Last modified on 21-8-2018.

*Notes:* Indicates whether the ProductUnits is a LogisticUnit, a TradeUnit or a ConsumerUnit.

### Columns

Name	Type	Notes
101 = LogisticUnit		
102 = TradeUnit		
103 = ConsumerUnit		

## schemeIDType

*Detail:* Created on 28-2-2018. Last modified on 21-8-2018.

*Notes:* Identifying data-elements, like OrderID, GlobalISD, OrderLineID, are of the datatype, called

IDType.

IDType has a special attribute attached, called schemaID, to indicate what type of schema is used to fill in the value of the identifier.

#### Columns

Name	Type	Notes
REF = random reference		
GLN = global location number		
GTIN = global trade item number		
SSCC = serial shipping container code		
SERIAL = serial number		

### textFunctionTypeCode

*Detail:* Created on 20-11-2017. Last modified on 21-8-2018.

*Notes:* Indicates the type of event that is commented such as a warehouse instruction or a delivery instruction.

#### Columns

Name	Type	Notes
101 = ShipToCommunication		
102 = WarehousInstruction		
103 = DeliverInstruction		
104 = DespatchAdviceHeader/CMR		
105 = InvoiceInstruction		
106 = PaymentTerm		
107 = AcknowledgementRemark		
108 = ConfirmationRemark		
999 = Free text		

### tradePartyRoleCode

*Detail:* Created on 20-11-2017. Last modified on 21-8-2018.

*Notes:* Recommended is de UN/CEFACT code list nr. 3035 called 'Party Role Code'.  
Published as: UNECE\_PartyRoleCode\_D16B.xsd.  
Alternative is the GS1 code list 'gs1:gdd:cl:PartyRoleCode'.

#### Columns

Name	Type	Notes
OB = OrderedBy		
SE = SoldBy		
SF = ShippedFrom		
ST = ShippedTo		
OS = ShippedBy		
BY = PurchasedBy		
IV = ToBeInvoiced		
MF = Manufacturer		
WH = WarehouseKeeper		
II = InvoiceIssuer		
GA = RoadCarrier		
DGC = LogisticServiceProvider		
DS = Distributor		
WS = Wholesaler		
...use the UN/Cefact code list		Use UNECE_PartyRoleCode_D16B.xsd .

## transportMeansTypeCode

*Detail:* Created on 20-11-2017. Last modified on 21-8-2018.

*Notes:* It's recommended to use the UN/CEFACT standard codelist:  
UNECE\_TransportMeansTypeCode\_2007.xsd .

### Columns

Name	Type	Notes
80 = Vessel		
36 = Truck, dry bulk		
3105 = Lorry, articulated, flat bed, 25 tonne		
...use the UN/Cefact code list		