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9 I. Recommendation N°2: Semantic information and codes in international 10 trade data exchange

11 A. Introduction

12 UNECE Recommendation n°2 was originally approved at the same time as *UNECE Recommendation n°1*
13 *on the United Nations Layout Key* and underlined the importance of clearly defining the information in
14 documents and using code lists as much as possible in order to facilitate mutual understanding. It was
15 quickly integrated into the UN Layout Key. However, this message is equally important in electronic data
16 exchanges and finds its pertinence in today's digitalized environment.

17 Ensuring that all parties understand the same information in the same way is perhaps even more pertinent
18 today as multiple data exchange methods are emerging. The semantic meaning – or the base meaning –
19 of each individual data element, whether it be on a paper document or within an electronic message,
20 needs to be clearly defined and understood by all parties involved in order to avoid errors,
21 miscomprehension, misalignment or non-interoperability.

22 The importance of this topic is further accentuated by the World Trade Organization's Trade Facilitation
23 Agreement in its article 10.3 on the use of international standards. The reason that international standards
24 are proposed in such an agreement is rightly to ensure interoperability and effective data exchange,
25 especially in an electronic environment.

26 B. Purpose and scope

27 Semantics is at the base of every data exchange – paper or electronic. The sender and receiver must
28 mutually comprehend the information in order to ensure that all of the terms and conditions of the
29 transaction or of the data exchange are clearly understood. Every word has a meaning; however, in a
30 world where data exchange methods are multiplying, two partners can define their own definitions for
31 each term independent from any other model. This can create a chaos of data which might use a same
32 identifier (such as the "date-time of arrival"), but which will have different meaning depending on the
33 partners who are using it (a port terminal, a warehouse, a manufacturing factory...) and the context of the
34 exchange.

35 This may be good business for data programmers who create bridges between different data sets.
36 However, in an environment of international standards, this should be harmonized and clearly defined in
37 such a manner that all standards development organizations, all software developers, all implementers
38 can be assured that they are meaning the same thing when they are talking with their partners.

39 The United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT) has been
40 constructing base semantics since the 1970s with the UN Layout Key, then with the UN Trade Data
41 Element Dictionary (UNTDDED), then in the 1980s with UN/EDIFACT, since the 2000s with its Core
42 Component Library and since 2015 with its Reference Data Models. It has developed an "International
43 Supply Chain Reference Model" which defines the international supply chain and defines the base
44 relationships between parties and between data. Much of this work is showcased in this recommendation,
45 is available free of charge on the UN/CEFACT websites and is proposed as a semantic base for all parties
46 involved in exchanging data – paper or electronic.

47 C. Benefits

48 The use of clear, structured semantics and coded information in data exchange will help to ensure that all
49 parties involved understand the same data in the same way. This will in turn save money and time as
50 mappings between data will be less time consuming. It will also help software providers and implementers

51 to create the proper data sets from the outset, eliminating the need to make bilateral agreements and
52 negotiations to define each term and each business case; it will just be necessary to point externally to
53 the relevant international standard.

54 D. International standards

55 The main recommendation in this document is to use international standards for e-business data
56 exchange. Stakeholders are encouraged to use UN/CEFACT semantic standards relevant to their
57 operations for several reasons. These principles and definitions are the fruit of over fifty years of
58 collaboration and research, ensuring the robustness of the main principles. This organization, UN/CEFACT,
59 is an open forum for all experts to collaborate from the private and public sectors and is not dominated
60 by any single government agency or private interest group; all have an equal voice in the development.
61 UN Member States from every region of the world have the final decisional power in the UN/CEFACT
62 Plenary. And all deliverables of UN/CEFACT are published on public UN webpages free of charge for the
63 benefit of all, including Micro-Small-and Medium-sized Enterprises, Least Developed Countries, but also
64 OECD economies and large enterprises. What's more, UN/CEFACT ensures harmonization of all business
65 processes along the international supply chain which means that each "document" which is
66 dematerialized is aligned with all related documents and the results are completely interoperable by
67 design.

68 UN/CEFACT's strategy document aims to place itself as the semantic hub for all internal developments,
69 but also for the work of all other standards organizations. The data needs from other organizations have
70 been integrated into the UN/CEFACT semantic libraries over the years and harmonized with the business
71 needs of all other data in these libraries. Over the past two decades, such collaborations have taken place
72 with the World Customs Organization, the International Air Cargo Association, OAGi, for example. This is
73 also in the spirit of the UNECE Recommendation 33 on Single Window.

74 E. Recommendation

75 In light of the above, UN/CEFACT at its twenty-eighth Plenary session on 13 May 2022 in Geneva
76 recommends the following:

- 77 • All public and private sector supply chain actors should prioritize codified data instead of textual
78 inputs, and reference whenever possible freely available code lists like those maintained by
79 UN/CEFACT;
- 80 • All public and private sector supply chain actors should carefully consider the semantic meaning
81 of data when establishing electronic data exchange, taking into consideration the guidelines
82 accompanying this recommendation and keep transparent record of these;
- 83 • All electronic business dematerialization efforts of data should be harmonized in a wholistic
84 approach of the international supply chain;
- 85 • All public and private sector supply chain actors should consider using UN/CEFACT semantic
86 standards either as the base of their electronic exchanges, as a reference in the message
87 structures or as a mapping to facilitate interoperability;
- 88 • Should any semantic needs or code lists not be defined within UN/CEFACT, the stakeholders which
89 identified this lack are encouraged to bring these as a project within UN/CEFACT to fully cover any
90 potential semantic needs or code lists useful to international trade.

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93 II. Guidelines to Recommendation N°2: Semantic information and codes 94 in international trade data exchange

95 A. Introduction

96 The United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT) published an article
97 in a 2018 newsletter about the transition one company made between eXtensible Marked-up Language
98 (XML) messages and UN/EDIFACT messages. XML, like the name indicates, is rather flexible and easy to
99 construct; for this reason, many companies that implement electronic data exchange very naturally are
100 attracted to XML. The result is that there are nearly as many XML messaging formats as there are
101 companies implementing data exchange. Each company is able to create a message which is fully fit to
102 purpose for their particular needs. The service provider who wrote this article acted as a link between
103 freight forwarders, agents, handlers and shipping lines; the information very often needed to be shared
104 among each of these professions. To complicate things, the provider was rather successful and had
105 hundreds of clients/partners, each with their own XML. The base information contained in each of these
106 electronic messages was similar, but the terms were not harmonized nor was the structure of the data.
107 The service provider needed to employ several people just to implement bridges from one electronic
108 message to another (information X from company123 is equivalent to information B from company 987...).

109 The service provider suggested to its clients/partners to implement a standard and each one proclaimed
110 that their electronic message was the best and that it should be used as the standard. Not wanting to
111 upset its clients, but wanting to streamline this process, the service provider suggested to use UN/EDIFACT
112 as the common language. As it is centrally maintained by the UNECE, it was not providing preference to
113 any individual company's internal solution. It is also widely used in transport and maritime trade, so many
114 of the clients/partners already had to implement it for some of their communication with other actors on
115 the supply chain. As the clients/partners started to use the UN/EDIFACT standard, they were even able to
116 find new commercial outlets with partners that also used this standard. In the end, the service provider
117 was able to reduce the support team for implementing bridges to a single employee, freeing up the rest
118 of his team to work on more interesting development tasks.

119 This true story is not to say that everyone should move to the UN/EDIFACT standard. This forty-year-old
120 standard (at time of print) has stood the test of time and still provides benefits today. It is adapted to
121 many different uses. It is a very structured method of exchanging information which has limited flexibility.
122 There are standard XML as well, but to the difference of UN/EDIFACT which is centrally developed,
123 maintained and published by a neutral agency (the United Nations), there are many organizations claiming
124 to develop standard XML. These very often concentrate on a sole segment of an international trade
125 transaction and almost never consider upstream or downstream uses of the same data. UN/CEFACT has
126 produced a very complete data library and corresponding XML which will be explained below.

127 B. Definition of some key concepts

128 1. Semantics

129 Semantics is the meaning of words and phrases. This takes particular importance in electronic data
130 exchange where it is important to ensure that the same information is understood the same way. If the
131 billing process will depend on the date of arrival in the warehouse of the goods, then it is very important
132 to define and understand this date of arrival the same way by the stakeholders involved in the exchange.
133 It would not be the date of arrival in the country, or date of arrival in the transport hub, where all of these
134 three notions could logically be called "date of arrival". The semantic meaning behind this term is more
135 important than the term itself.

136 2. Ontologies
137 Ontologies is the relationship of words and phrases to each other. Machine learning and big data allow
138 computers to understand the similarities of terms and do an automated mapping of terms in an electronic
139 message. UN/CEFACT provides the semantic definitions which are the fundamental basis which are
140 necessary for standardized electronic exchange of information (reference ISO 11179).

141 3. Codes
142 Information which is used regularly in an exchange and which has a limited number of possible responses
143 should be codified. Using a code instead of natural language ensures that all parties and computer systems
144 are understanding the same information in the same way. This obviously applies to situations in a multi-
145 lingual environment; however, this can also apply within a same language as a term such as “pallet” can
146 be understood in many different ways (wooden pallet, plastic pallet, stackable pallet, etc.).

147 4. Code lists
148 Codified information will need to be structured with a set length and format (i.e. alpha, numeric or
149 alphanumeric and a set length of three characters, four characters or a length of up to four characters).
150 The possible codes that can be used should be organized into code lists which provide the name of the
151 code list, the various codes which can be used each with their code, their full name and most importantly
152 their definition. It is this definition which provides the semantic understanding of the code itself. The
153 maintenance of the code list will also need to be defined, explaining how modifications or additions can
154 be made. It is advisable to ensure that code lists are always backwards compatible; this implies that
155 deprecating a code list entry may be complicated. Instead of deleting a code from the list best practice is
156 to “mark” the entry as “no longer in use from an effective date” or “superseded by” another entry from
157 an effective date.

158 Annex I provides a list of codes lists maintained by UN/CEFACT.

159 C. Paper-centric view versus process-driven approach to exchanges

160 Digitizing a paper document – taking a paper document and making an electronic equivalent – is a
161 relatively easy process. The information in the document may reference international codes and may even
162 reference an international standard library of data. The result may function well and those involved with
163 that specific document may find immediate benefits in this digitization. This digitization process may even
164 consider a group of documents related to a similar purpose (transport, commercial ordering, banking,
165 etc.) and the individual documents may be harmonized within that grouping of documents. This would be
166 a paper-centric view of data exchange.

167 Dematerialization implies that the shift to an electronic message is also considering the relevant processes
168 and putting these into context with other related processes (this is often also called “digitalization”). The
169 document is then considered as one part of the process instead of the desired outcome. The
170 dematerialization of the process will involve a harmonization across the entire process as described in the
171 *UNECE Recommendation 34 on Data Simplification and Standardization for International Trade*.¹ This
172 recommendation outlines four steps for dematerialization:

- 173 • Capture – prepare an inventory of information requirements/data elements (throughout the
174 process, in multiple documents)
- 175 • Define – clearly define each data element (name, definition, representation [text, format, code],
176 when it is required, legal basis, etc.)

¹ See: http://www.unece.org/fileadmin/DAM/trade/Publications/ECE-TRADE-400E_Rec34.pdf

- 177 • Analyze – check the resulting information for cases that the same information may be requested
178 with different names or for cases where the information may not be really necessary (some
179 information may be inferred by other data or some data may not have any legal or operational
180 reason for being requested)
- 181 • Reconcile – prepare a consolidated list of data elements and align these to an international
182 standard

183 D. Whole of supply chain approach

184 This dematerialization process may also be considering only one segment of the international supply chain
185 such as transportation, commercial or banking processes. If dematerialization is performed by each
186 segment of the international supply chain separately, there is a large risk that the exchange from one
187 segment to the next may not align and that the terms are being used with different semantic meanings.
188 All of these segments are connected: the logistics process does not exist without the commercial process
189 requesting the movement of goods; the banking process does not exist with the exchange of goods from
190 the commercial and logistics processes; the regulatory process does not exist unless there is an exchange
191 of goods or services. There might be an excellent data model to handle the regulatory processes when
192 the goods arrive at a border, but it may be disconnected from the other processes and oblige operators
193 to recapture information or worse, to redefine information.

194 UN/CEFACT has taken a holistic approach to the supply chain from the outset. All data entered into the
195 Core Component Library is harmonized within the entire global exchange and the information should be
196 reusable in each segment of the international supply chain.

197 E. Electronic data exchanges need to be structured

198 Information which is exchanged electronically is usually not a flat list of data; it is more often hierarchal
199 by design. For example, on a paper document, there is often a box for operator's name and address; when
200 this is electronic, this would often be in a hierarchy as follows:

- 201 • Organization
 - 202 ○ Identification number
 - 203 ○ Organization name
 - 204 ○ Organization role
 - 205 ○ Contact details
 - 206 ■ Person name
 - 207 ■ Email
 - 208 ■ Telephone number
 - 209 ○ Postal address
 - 210 ■ Street Name
 - 211 ■ Postal box information
 - 212 ■ City Name
 - 213 ■ Country sub-division (State)
 - 214 ■ Postcode
 - 215 ■ Country name
 - 216 ■ Country code
 - 217 ○ Tax registration
 - 218 ■ Identification number
 - 219 ○ Trader registration
 - 220 ■ Identification number
 - 221 ■ Type code (such as an Authorized Economic Operator)

222 ▪ Country code

223 The individual data elements such as “country code” or “identification number” are used multiple times
224 within an electronic data exchange; just within the above example, both of these are used multiple times.
225 The semantic definition is the same, but they are taken in the context of the hierarchy; each element
226 inherits the properties from the data element under which it is placed. For example, the “identification
227 number” under “tax registration” is the “tax registration identification number”. If this information was
228 all at the same level with no hierarchy, it would be necessary to define more data in order to put it within
229 its business context. Such a flat file may be possible within the context of the digitization of a single
230 document; however, it would become unmanageable in the dematerialization of a process or of the entire
231 supply chain.

232 F. International Supply Chain Reference Model

233 In the late 1990s and early 2000s, UN/CEFACT defined an “International Supply Chain Reference Model”
234 (ISCRM) which has been used as the basis for all of its e-business standards since. This model identifies
235 the key actors and the processes in each stage of a commercial transaction – these base principles are
236 defined below in the “Key anchors in trade data exchange” of this document. The result of the ISCRM was
237 a manageable model called: Buy – Ship – Pay. Twenty years on, it is necessary to expand this model to
238 take into consideration sustainability aspects prior to the “Buy” phase and after the “Pay” phase. This
239 would therefore be: Prepare – Buy – Ship – Pay – Recycle.

240 Prepare phase

241 In this phase of the international supply chain, the following are examples of use cases which are
242 necessary:

- 243 • Establish a sustainability claim (statement about a characteristic of a product or about a process
244 or an organization associated with that product – it may cover one or multiple sustainability
245 dimensions such as economic, environmental or social)

246 Buy phase

247 In this phase of the international supply chain, the following are examples of use cases which are
248 necessary:

- 249 • Identify potential partners (customer may issue a request for information or supplier may issue
250 catalogue information)
- 251 • Establish business agreement (customer issues a “Request to Quote” or supplier issues an
252 unsolicited quote; this may also include negotiations on conditions or prices)
- 253 • Check credit (supplier initiates query on credit worthiness of customer)
- 254 • Order (customer places an order under an established contract or framework agreement)
- 255 • Manufacture (supplier places order for manufacture of product)
- 256 • Despatch (supplier sends the products according to the terms of trade and eventually provides
257 information to the customer on the delivery; this could also be the realization of a service)

258 Ship phase

259 In this phase of the international supply chain, the following are examples of use cases which are
260 necessary:

- 261 • Request licenses and certificates (operator requests relevant licenses or certificates which are
262 required for the traded goods)
- 263 • Insure (logistics service provider or carrier requests insurance for the transport of the goods)
- 264 • Prepare packing list (logistics service provider issues a packing list for the transport of the goods)

- 265 • Book transport (logistics service provider requests transport)
- 266 • Establish transport documents (logistics service provider or carrier issue transport documents
- 267 such as the house bill of lading, the master bill of lading, the consignment security declaration)
- 268 • Clearance (operator presents the goods to border authorities to request their clearance)

269 Pay phase

270 In this phase of the international supply chain, the following are examples of use cases which are
271 necessary:

- 272 • Invoice (supplier requests payment)
- 273 • Transfer funds (customer requests the transfer of funds)

274 Recycle phase

275 In this phase of the international supply chain, the following are examples of use cases which are
276 necessary:

- 277 • Perform waste analysis (operator requests the analysis of the waste which may be required by
- 278 regulations and may impact the movement of the waste materials)
- 279 • Recycle (operator issues request to recycle the components of the goods)

280 Note that a repurpose or reuse of secondhand goods would normally not be different from a normal Buy
281 – Ship – Pay process.

282 G. Relationship between commercial and logistics information

283 A single commercial process may result in multiple logistics processes (one order sent at different times);
284 likewise, multiple commercial orders destined to a same person and place may be grouped to form a
285 single logistics process. The relationship between the Buy Phase and the Ship Phase is therefore multiple
286 to multiple.

287 The payment process may be organized in the same way with one payment for multiple invoices or paying
288 a single invoice in multiple payments. The relationship between the Buy Phase and the Pay Phase is
289 therefore also multiple to multiple.

290 The logistics process in the Ship Phase will often be with multiple intermediaries. Often, an operator will
291 call upon a logistics service provider who will contract the transport out to a colleague or to a carrier. This
292 service may also include consolidation with the goods of other operators. The logistics service provider
293 will typically issue a house bill of lading for the transport of the goods of their client(s). The carrier will
294 then issue a relevant master bill of lading for the transport of the goods. Here too, there may be multiple
295 house bills of lading grouped together in a single master bill of lading; and there could be a large volume
296 of goods which requires breaking the house bill of lading into multiple master bills of lading. The
297 relationship within the Ship Phase between the logistics service provider and the carrier is therefore also
298 multiple to multiple.

299 H. Key anchors in trade data exchanges

300 The information from each process will be contained in a different part of the hierarchy of data. This
301 requires a very clear and consistent use of terms, the most important of which will be to distinguish
302 between the commercial processes of the Buy Phase and the logistics processes of the Ship Phase. For
303 this reason, two terms are used as anchors for all other relevant data: Shipment and Consignment.

304 Shipment

305 A shipment is an identifiable collection of one or more Trade Items (available to be) transported together
306 from the Seller (Original Consignor/Shipper), to the Buyer (Final/Ultimate Consignee).

- 307 • A Shipment can only be destined for one Buyer
- 308 • A Shipment can be made up of some or all Trade Items from one or more Sales Orders
- 309 • A Shipment can have only one unique customs identification schema
- 310 • A shipment may form part or all of a Consignment or may be transported in different
- 311 Consignments.

312 Consignment

313 A consignment is a separately identifiable collection of Consignment Items (available to be) transported
314 from one Consignor to one Consignee via one or more modes of transport as specified in one single
315 transport service contractual document.

- 316 • A Consignment can only have one Transport Service Buyer
- 317 • A Consignment can only have one Transport Service Provider
- 318 • A Consignment can only have one Consignor
- 319 • A Consignment can only have one Consignee
- 320 • The Transport Service Buyer can be either the Consignor or the Consignee
- 321 • A Consignment is made up of one or more Consignment Items
- 322 • A Consignment can be made up of some or all Trade Items (aggregated into Consignment Items)
- 323 from one or more Shipments
- 324 • A Consignment is made up of one or more customs Items for reporting to customs
- 325 • A Consignment can have one or more unique customs identification schemas

326 A list of commonly used semantic terms and their corresponding definitions is provided in Annex II. Within
327 UN/CEFACT, these terms are used consistently in all messages and should always be used in a way which
328 is consistent to their provided definition; UN/CEFACT strongly encourages other standards development
329 organizations and users to do the same. For example, within the maritime transport industry, the
330 movement of goods on the ship is sometimes referred to in the business process as a shipment. Despite
331 this use, when dematerializing the process, it is highly recommended to use the term “consignment” in
332 this case in order to clearly make the distinction with the commercial process. Likewise, in many
333 conventions, the person requesting a permit is often referred to as the “sender” (as in the “sender of the
334 goods”); however in an electronic environment, the term “sender” is reserved to the “entity sending the
335 electronic message”. It is highly recommended to use the accurate term for the party being referred to as
336 “sender” depending on the case (this may be the consignor, the exporter, the importer, the logistics
337 service provider or other).

338 I. Cost benefit

339 One common expressed barrier in using standards for the electronic exchange of information is the cost
340 in time and money required for their initial setup, including the need to modify existing legacy systems
341 and the need for all parties participating in the exchange to make this investment. Therefore, some
342 shortcuts have been observed in deployments, which have brought efficiency challenges on the long run:

- 343 • The development of “translation bridges” (i.e. IT interfaces) between systems to avoid modifying
344 the data semantics used in the different legacy systems. This is a valid practice when there is a 1-
345 to-1 interface, but it becomes a clear issue when it is a 1-to-many. The IT support required to
346 manage such independent “bridges” bring high operating cost.
- 347 • Initiatives to develop new specific user-group data standard. These initiatives are usually
348 happening where there is a lack of knowledge about which standards already exist and how they
349 can be used. Again, the maintenance of such specific standard bring inefficiency in the long term.
- 350 • Common, standardized libraries of semantics (definitions) that allows the use of unambiguous,
351 clear and defined standardized terms and codes exist; the largest and most complete library of

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this kind is the UN/CEFACT Core Components Library (CCL), which also ensure the compatibility with other international systems and applications, documents and data models.

DRAFT

Annex 1: Code lists maintained by UN/CEFACT

Name	Ref (if any)	Description	Rep	Where to find
Document type code	UN Code List 1001	Code specifying the name of a document	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred1001.htm
Message section code	UN Code List 1049	Code specifying a section of a message	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred1049.htm
Document line action code	UN Code List 1073	Code identifying an action associated with a line of a document	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred1073.htm
Reference code qualifier	UN Code List 1153	Code qualifying a reference	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred1153.htm
Sequence identifier source code	UN Code List 1159	Code specifying the source of a sequence identifier	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred1159.htm
Message function code	UN Code List 1225	Code indicating the function of the message	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred1225.htm
Calculation sequence code	UN Code List 1227	Code specifying a calculation sequence	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred1227.htm
Action code	UN Code list 1229	Code specifying the action to be taken or already taken	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred1229.htm

Name	Ref (if any)	Description	Rep	Where to find
Document status code	UN Code list 1373	Code specifying the status of a document	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred1373.htm
Computer environment details code qualifier	UN Code list 1501	Code specifying a type of computer environment details	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred1501.htm
Data format description code	UN Code list 1503	Code specifying the data format	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred1503.htm
Value list type code	UN Code list 1505	Code specifying a type of value list	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred1505.htm
Designated class code	UN Code list 1507	Code specifying a designated class	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred1507.htm
Date or time or period function code qualifier	UN Code list 2005	Code qualifying the function of a date, time or period	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred2005.htm
Terms time relation code	UN Code list 2009	Code relating terms to a reference date, time or period	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred2009.htm
Frequency code	UN Code list 2013	Code specifying the rate of recurrence	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred2013.htm
Despatch pattern code	UN Code list 2015	Code specifying a despatch pattern	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred2015.htm
Despatch pattern timing code	UN Code list 2017	Code specifying a set of dates/times within a despatch pattern	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred2017.htm

Name	Ref (if any)	Description	Rep	Where to find
Period type code qualifier	UN Code list 2023	Code qualifying the function of a period	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred2023.htm
Period type code	UN Code list 2151	Code specifying the type of period	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred2151.htm
Charge period type code	UN Code list 2155	Code specifying a type of charge period	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred2155.htm
Date or time or period format code	UN Code list 2379	Code specifying the representation of a date, time or period	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred2379.htm
Event time reference code	UN Code list 2475	Code specifying a time that references an event that will or has occurred	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred2475.htm
Party function code qualifier	UN Code list 3035	Code giving specific meaning to a party	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3035.htm
Party name format code	UN Code list 3045	Code specifying the representation of a party name	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3045.htm
Code list responsible agency code	UN Code list 3055	Code specifying the agency responsible for a code list	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3055.htm
Test medium code	UN Code list 3077	Code specifying the medium on which a test was or is to be applied	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3077.htm

Name	Ref (if any)	Description	Rep	Where to find
Organisation classification code	UN Code list 3079	Code specifying the classification of an organisation	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3079.htm
Organisational class name code	UN Code list 3083	Code specifying a class of organisation	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3083.htm
Address type code	UN Code list 3131	Code specifying the type of an address	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3131.htm
Contact function code	UN Code list 3139	Code specifying the function of a contact (e.g. department or person)	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3139.htm
Communication medium type code	UN Code list 3153	Code specifying the type of communication medium	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3153.htm
Communication means type code	UN Code list 3155	Code specifying the type of communication address	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3155.htm

Name	Ref (if any)	Description	Rep	Where to find
Country identifier	UN Code list 3207	Identification of the name of the country or other geographical entity as defined in ISO 3166-1 and UNECE Recommendation 3	an..3	https://service.unece.org/trade/untddid/d21a/tred/tred3207.htm
Location function code qualifier	UN Code list 3227	Code identifying the function of a location	an..3	https://service.unece.org/trade/untddid/d21a/tred/tred3227.htm
Country subdivision identifier	UN Code list 3229	To identify the name of a country subdivision	an..9	https://service.unece.org/trade/untddid/d21a/tred/tred3229.htm
Geographic area code	UN Code list 3279	To identify a geographic area	an..3	https://service.unece.org/trade/untddid/d21a/tred/tred3279.htm
Address purpose code	UN Code list 3299	Code specifying the purpose of an address	an..3	https://service.unece.org/trade/untddid/d21a/tred/tred3299.htm
Name status code	UN Code list 3397	Code specifying the status of a name	an..3	https://service.unece.org/trade/untddid/d21a/tred/tred3397.htm
Language name code	UN Code list 3453	Code specifying the language name	an..3	https://service.unece.org/trade/untddid/d21a/tred/tred3453.htm
Language usage code	UN Code list 3455	Code specifying a use of a language	an..3	https://service.unece.org/trade/untddid/d21a/tred/tred3455.htm

Name	Ref (if any)	Description	Rep	Where to find
Address status code	UN Code list 3475	Code specifying the status of an address	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3475.htm
Address format code	UN Code list 3477	Code specifying the format of an address	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3477.htm
Marital status description code	UN Code list 3479	Code specifying the marital status of a person	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3479.htm
Nationality code qualifier	UN Code list 3493	Code qualifying a nationality	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3493.htm
Gender code	UN Code list 3499	Code giving the gender of a person, animal or plant	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4017.htm
Delivery plan commitment level code	UN Code list 4017	Code specifying the level of commitment to a delivery plan	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred3499.htm
Business function code	UN Code list 4025	Code specifying a business function	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4025.htm
Business function type code qualifier	UN Code list 4027	Code specifying a type of business function	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4027.htm
Priority type code qualifier	UN Code list 4035	Code specifying a type of priority	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4035.htm
Priority description code	UN Code list 4037	Code specifying a priority	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4037.htm
Trade class code	UN Code list 4043	Code identifying the type of trade	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4043.htm

Name	Ref (if any)	Description	Rep	Where to find
Certainty description code	UN Code list 4049	Code specifying a certainty	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4049.htm
Characteristic relevance code	UN Code list 4051	Code specifying the relevance of a characteristic	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4051.htm
Delivery terms code	UN Code list 4053	Code specifying the delivery or transport terms	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4053.htm
Delivery terms function code	UN Code list 4055	Code specifying the function of delivery or transport terms	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4055.htm
Clause function code	UN Code list 4059	Code specifying the nature of a clause or set of clauses	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4059.htm
Transport contract condition code	UN Code list 4065	Code to identify the conditions of contract and carriage	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4065.htm
Proviso code qualifier	UN Code list 4071	Code qualifying a proviso	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4071.htm
Proviso code	UN Code list 4073	Code specifying a proviso	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4073.htm
Handling instruction code	UN Code list 4079	Code specifying a handling instruction	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4079.htm
Information function code	UN Code list 4153	Code qualifying information details	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4153.htm

Name	Ref (if any)	Description	Rep	Where to find
Special condition code	UN Code list 4183	Code specifying a special condition	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4183.htm
Transport charges payment method code	UN Code list 4215	Code specifying the payment method for transport charges	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4215.htm
Transport service priority code	UN Code list 4219	Code specifying the priority of a transport service	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4219.htm
Marking instruction code	UN Code list 4233	Code specifying instructions for marking	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4233.htm
Payment arrangement code	UN Code list 4237	Code specifying the arrangements for a payment	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4237.htm
Payment terms code	UN Code list 4277	Identification of the terms of payment between the parties to a transaction (generic term).	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4277.htm
Payment terms type code	UN Code list 4279	Code qualifying the type of payment terms	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4279.htm
Change reason code	UN Code list 4295	Code specifying the reason for a change	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4295.htm

Name	Ref (if any)	Description	Rep	Where to find
Response type code	UN Code list 4343	Code specifying the type of acknowledgment required or transmitted	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4343.htm
Product identifier qualifier code	UN Code list 4347	Code specifying the function of a product identifier	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4347.htm
Financial institution operation code	UN Code list 4383	Code specifying a bank operation	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4383.htm
Instruction description code	UN Code list 4401	Code specifying an instruction	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4401.htm
Instruction type code qualifier	UN Code list 4403	Code qualifying the type of instruction	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4403.htm
Status description code	UN Code list 4405	Code specifying a status	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4405.htm
Sample process step code	UN Code list 4407	Code specifying a step in a sample process	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4407.htm
Test method administration code	UN Code list 4419	Code specifying the method of the administration of a test	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4419.htm
Payment guarantee means code	UN Code list 4431	Code specifying the means of payment guarantee	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4431.htm

Name	Ref (if any)	Description	Rep	Where to find
Payment channel code	UN Code list 4435	Code specifying the payment channel	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4435.htm
Account type code	UN Code list 4437	Code qualifying the type of account	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4437.htm
Payment conditions code	UN Code list 4439	Code specifying the payment conditions	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4439.htm
Free text format code	UN Code list 4447	Code specifying the format of free text	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4447.htm
Text subject code qualifier	UN Code list 4451	Code qualifying the subject of the text	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4451.htm
Text function code	UN Code list 4453	Code specifying the function of free text	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4453.htm
Back order arrangement type code	UN Code list 4455	Code specifying a type of back order arrangement	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4455.htm
Substitution condition code	UN Code list 4457	Code specifying the conditions under which substitution may take place	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4457.htm
Payment means code	UN Code list 4461	Code identifying a means of payment	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4461.htm
Intra-company payment indicator code	UN Code list 4463	Code indicating an intra-company payment	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4463.htm

Name	Ref (if any)	Description	Rep	Where to find
Adjustment reason description code	UN Code list 4465	Code specifying the adjustment reason	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4465.htm
Settlement means code	UN Code list 4471	Code specifying the means of settlement	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4471.htm
Accounting entity type code	UN Code list 4475	Code specifying a type of accounting entry	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4475.htm
Financial transaction type code	UN Code list 4487	Code specifying a type of financial transaction	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4487.htm
Delivery instruction code	UN Code list 4493	Code specifying a delivery instruction	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4493.htm
Inventory movement reason code	UN Code list 4499	Code specifying the reason for an inventory movement	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4499.htm
Inventory movement direction code	UN Code list 4501	Code specifying the direction of an inventory movement	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4501.htm
Inventory balance method code	UN Code list 4503	Code specifying the method used to establish an inventory balance	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4503.htm
Credit cover request type code	UN Code list 4505	Code specifying the type of request for credit cover	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4505.htm

Name	Ref (if any)	Description	Rep	Where to find
Credit cover response type code	UN Code list 4507	Code specifying the type of response to a request for credit cover	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4507.htm
Credit cover response reason code	UN Code list 4509	Code specifying the reason for a response to a request for credit cover	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4509.htm
Requested information detail code	UN Code list 4511	Code specifying requested information	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4511.htm
Maintenance operation code	UN Code list 4513	Code specifying a maintenance operation	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4513.htm
Seal condition code	UN Code list 4517	Code specifying the condition of a seal affixed to a piece of transport equipment	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4517.htm
Seal type code	UN Code list 4525	To specify a type of seal	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred4525.htm
Monetary amount function code	UN Code list 5007	Code specifying a function of a monetary amount	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5007.htm
Index function code	UN Code list 5013	Code specifying a function of an index	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5013.htm

Name	Ref (if any)	Description	Rep	Where to find
Monetary amount type code qualifier	UN Code list 5025	Code qualifying the type of monetary amount	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5025.htm
Index type code	UN Code list 5027	Code specifying a type of index	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5027.htm
Index value representation code	UN Code list 5039	Code specifying the representation of an index value	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5039.htm
Contribution function code	UN Code list 5047	Code qualifying a contribution	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5047.htm
Contribution type code	UN Code list 5049	Code specifying a type of contribution scheme	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5049.htm
Price code qualifier	UN Code list 5125	Code qualifying a price	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5125.htm
Duty or tax or fee type name code	UN Code list 5153	Code specifying a type of duty, tax or fee	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5153.htm
Monetary amount adjustment type code	UN Code list 5189	Code specifying a type of an adjustment to a monetary amount such as an allowance or charge	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5189.htm
Sub-line item price change operation code	UN Code list 5213	Code specifying the price change operation for a sub-line item	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5213.htm

Name	Ref (if any)	Description	Rep	Where to find
Charge category code	UN Code list 5237	Code specifying a category of charges	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5237.htm
Rate or tariff class description code	UN Code list 5243	Code specifying an applicable rate or tariff class	an..9	https://service.unece.org/trade/untdid/d21a/tred/tred5243.htm
Percentage type code	UN Code list 5245	Code specifying the type of percentage	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5245.htm
Percentage basis code	UN Code list 5249	Code specifying the basis on which a percentage is calculated	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5249.htm
Charge unit code	UN Code list 5261	Code specifying a charge unit	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5261.htm
Service type code	UN Code list 5267	Code specifying the type of service	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5267.htm
Tax or fee rate basis code	UN Code list 5273	Code specifying the basis for a duty or tax or fee rate such as weight or value or quantity	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5273.htm
Tax or fee function code	UN Code list 5283	Code specifying the function of a duty or tax or fee	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5283.htm
Tax or fee category code	UN Code list 5305	Code specifying a duty or tax or fee category	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5305.htm

Name	Ref (if any)	Description	Rep	Where to find
Tax or fee payment due date code	UN Code list 5307	Code indicating when the duty, tax, or fee payment will be due.	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5307.htm
Remuneration type code	UN Code list 5315	Code specifying the name of a type of remuneration	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5315.htm
Price type code	UN Code list 5375	Code specifying the type of price	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5375.htm
Product group type code	UN Code list 5379	Code specifying the name of a product group	an..25	https://service.unece.org/trade/untdid/d21a/tred/tred5379.htm
Price specification code	UN Code list 5387	Code identifying pricing specification	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5387.htm
Price multiplier function code	UN Code list 5393	Code specifying the function of a price multiplier	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5393.htm
Rate type code	UN Code list 5419	Code specifying the type of rate	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5419.htm
Monetary amount adjustment function code	UN Code list 5463	Code specifying the function of an adjustment to a monetary amount	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5463.htm
Sub line item level code	UN Code list 5495	Code indicating a sub-line item	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5495.htm
Rate plan code	UN Code list 5501	Code specifying a rate plan	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred5501.htm

Name	Ref (if any)	Description	Rep	Where to find
Geographical position code qualifier	UN Code list 6029	Code identifying the type of a geographical position	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6029.htm
Quantity type code qualifier	UN Code list 6063	Code qualifying the type of quantity	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6063.htm
Control total type code	UN Code list 6069	Code qualifying a type of hash total	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6069.htm
Frequency type code	UN Code list 6071	Code qualifying the frequency	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6071.htm
Result representation code	UN Code list 6077	Code specifying the representation of a result	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6077.htm
Result normalcy code	UN Code list 6079	Code specifying the degree of conformance to a standard	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6079.htm
Dosage administration type code	UN Code list 6085	Code qualifying the administration of a dosage	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6085.htm
Result type code	UN Code list 6087	Code qualifying the type of a result value	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6087.htm
Length type code	UN Code list 6113	Code specifying the type of length	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6113.htm
Dimension type code	UN Code list 6145	Code qualifying the type of the dimension	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6145.htm

Name	Ref (if any)	Description	Rep	Where to find
Non-discrete measurement code	UN Code list 6155	Code specifying the name of a non-discrete measurement	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6155.htm
Range type code	UN Code list 6167	Code qualifying a type of range	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6167.htm
Size type code	UN Code list 6173	Code specifying a type of size	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6173.htm
Temperature type code	UN Code list 6245	Code qualifying the type of a temperature	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6245.htm
Measurement function code	UN Code list 6311	Code qualifying the purpose of the measurement	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6311.htm
Measured attribute code	UN Code list 6313	Code specifying the attribute measured	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6313.htm
Measurement significance code	UN Code list 6321	Code specifying the significance of a measurement	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6321.htm
Statistic type code	UN Code list 6331	Code qualifying the type of a statistic	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6331.htm
Exchange rate currency market identifier	UN Code list 6341	To identify an exchange rate currency market	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6341.htm
Currency type code qualifier	UN Code list 6343	Code qualifying the type of currency	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6343.htm

Name	Ref (if any)	Description	Rep	Where to find
Currency identification code	UN Code list 6345	Code specifying a monetary unit	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6345.htm
Currency usage code qualifier	UN Code list 6347	Code qualifying the usage of a currency	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6347.htm
Unit type code qualifier	UN Code list 6353	Code qualifying the type of unit	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6353.htm
Measurement unit code	UN Code list 6411	Code specifying the unit of measurement	an..8	https://service.unece.org/trade/untdid/d21a/tred/tred6411.htm
Clinical information type code qualifier	UN Code list 6415	Code qualifying the type of clinical information	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred6415.htm
Object state type code	UN Code list 7001	Code qualifying the type of state of an object	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7001.htm
Object state code	UN Code list 7007	Code specifying the state of an object	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7007.htm
Item description code	UN Code list 7009	Code specifying an item	an..17	https://service.unece.org/trade/untdid/d21a/tred/tred7009.htm
Line item availability code	UN Code list 7011	Code specifying the availability of a line item	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7011.htm
Sample selection method code	UN Code list 7039	Code specifying the selection method for a sample	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7039.htm
Power type code	UN Code list 7041	Code specifying a type of power	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7041.htm

Name	Ref (if any)	Description	Rep	Where to find
Sample state code	UN Code list 7045	Code specifying the state of a sample	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7045.htm
Sample direction code	UN Code list 7047	Code specifying the direction in which a sample was taken	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7047.htm
Class type code	UN Code list 7059	Code specifying a type of class	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7059.htm
Package type code	UN Code list 7065	Code specifying a type of package	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7065.htm
Packaging terms code	UN Code list 7073	Code specifying the packaging terms and conditions	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7073.htm
Packaging level code	UN Code list 7075	Code specifying a level of packaging	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7075.htm
Description format code	UN Code list 7077	Code specifying the format of a description	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7077.htm
Line item characteristic code	UN Code list 7081	Code specifying the characteristic of a line item	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7081.htm
Configuration operation code	UN Code list 7083	Code specifying a configuration operation	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7083.htm
Cargo type code	UN Code list 7085	Code identifying a type of cargo	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7085.htm
Characteristic value description code	UN Code list 7111	Code specifying the value of a characteristic	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7111.htm

Name	Ref (if any)	Description	Rep	Where to find
Product detail type code	UN Code list 7133	Code qualifying a type of product details	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7133.htm
Product characteristic identifier code	UN Code list 7139	Code specifying the identification of a product characteristic	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7139.htm
Item type identification code	UN Code list 7143	Coded identification of an item type	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7143.htm
Special service description code	UN Code list 7161	Code specifying a special service	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7161.htm
Hierarchical structure object relationship code	UN Code list 7171	Code specifying the relationship between the hierarchical object and an identified object	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7171.htm
Hierarchical structure object type code	UN Code list 7173	Code qualifying an object in a hierarchy	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7173.htm
Process type description code	UN Code list 7187	Code specifying a type of process	an..17	https://service.unece.org/trade/untdid/d21a/tred/tred7187.htm
Packaging information code	UN Code list 7233	Code specifying information related to packaging	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7233.htm
Service requirement code	UN Code list 7273	Code specifying a service requirement	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7273.htm

Name	Ref (if any)	Description	Rep	Where to find
Domain function code	UN Code list 7293	Code specifying a domain or subject area	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7293.htm
St type code	UN Code list 7297	Code qualifying a type of set	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7297.htm
Requirement designator code	UN Code list 7299	Code specifying the requirement designator	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7299.htm
Processing indicator description code	UN Code list 7365	Code specifying a processing indicator	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7365.htm
Surface or layer code	UN Code list 7383	Code specifying the surface or layer of an object	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7383.htm
Object identification code qualifier	UN Code list 7405	Code qualifying the identification of an object	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7405.htm
Index structure type code	UN Code list 7429	Code qualifying an indexing structure	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7429.htm
Agreement function code	UN Code list 7431	Code qualifying a type of agreement	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7431.htm
Agreement type code	UN Code list 7433	Code specifying a type of agreement	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7433.htm
Membership type code	UN Code list 7449	Code qualifying the type of membership	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7449.htm
Membership category code	UN Code list 7451	Code specifying a membership category	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7451.htm

Name	Ref (if any)	Description	Rep	Where to find
Membership level function code	UN Code list 7455	Code qualifying the level of membership	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7455.htm
Attendee Category code	UN Code list 7459	Code specifying a category of attendee	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7459.htm
Inventory type code	UN Code list 7491	Code specifying a type of inventory	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7491.htm
Damage detail type code	UN Code list 7493	Code qualifying damage details	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7493.htm
Object type code	UN Code list 7495	Code qualifying a type of object	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7495.htm
Marking type code	UN Code list 7511	Code specifying a type of marking	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7511.htm
Structure type code	UN Code list 7515	Code specifying a type of structure	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred7515.htm
Traffic restriction code	UN Code list 8015	Code specifying a traffic restriction	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8015.htm
Charge code	UN Code list 8023	Code specifying a charge such as freight and other charges	an..17	https://service.unece.org/trade/untdid/d21a/tred/tred8023.htm
Transport means call purpose code	UN Code list 8025	Code specifying the purpose of the conveyance call	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8025.htm
Traffic restriction function code	UN Code list 8035	Code specifying the function of a traffic restriction	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8035.htm

Name	Ref (if any)	Description	Rep	Where to find
Transport movement stage code	UN Code list 8051	Code specifying a specific stage of transport	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8051.htm
Equipment type code qualifier	UN Code list 8053	Code qualifying a type of equipment	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8053.htm
Transport movement mode code	UN Code list 8067	Code specifying a mode of transport	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8067.htm
Transport equipment supplier party role code	UN Code list 8077	Code identifying a type of party that is the supplier of transport equipment	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8077.htm
Transport means direction code	UN Code list 8101	Code specifying the direction of transport	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8101.htm
Transport equipment characteristic code	UN Code list 8155	Code specifying the characteristics, i.e. size and type of a piece of transport equipment	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8155.htm
Transport equipment fullness code	UN Code list 8169	Code specifying how full a piece of transport equipment is	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8169.htm
Transport means description code	UN Code list 8179	Code specifying the means of transport	an..8	https://service.unece.org/trade/untdid/d21a/tred/tred8179.htm

Name	Ref (if any)	Description	Rep	Where to find
Transport equipment status code	UN Code list 8249	Code specifying the status of a piece of transport equipment	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8249.htm
Dangerous goods regulation code	UN Code list 8273	Code specifying a dangerous goods regulation	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8273.htm
Transport means ownership code	UN Code list 8281	Code specifying the ownership of a means of transport	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8281.htm
Transport movement code	UN Code list 8323	Code specifying a particular transport movement	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8323.htm
Transport movement type code	UN Code list 8335	Code specifying a type of transport movement	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8335.htm
Packaging danger level code	UN Code list 8339	Code specifying the level of danger for which the packaging must cater	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8339.htm
Haulage arrangement code	UN Code list 8341	Code specifying the arrangement for the haulage of goods	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8341.htm
Returnable package content code	UN Code list 8393	Code specifying the load contents for a returnable package	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8393.htm

Name	Ref (if any)	Description	Rep	Where to find
Returnable package freight payment responsibility code	UN Code list 8395	Code specifying the responsibility for the freight payment for a returnable package	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8395.htm
Transport means registration nationality code	UN Code list 8453	Code specifying the country in which a means of transport is registered	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8453.htm
Excess transport movement reason code	UN Code list 8457	Code specifying a reason for excess transportation	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8457.htm
Excess transport movement responsible party code	UN Code list 8459	Code specifying the party responsible for excess transportation	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred8459.htm
Employment details code qualifier	UN Code list 9003	Code specifying the function of employment details	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9003.htm
Status reason description code	UN Code list 9013	Code specifying the reason for a status	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9013.htm
Status category code	UN Code list 9015	Code specifying the category of a status	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9015.htm
Attribute function code qualifier	UN Code list 9017	Code qualifying an attribute function	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9017.htm
Definition function code	UN Code list 9023	Code specifying a function of a definition	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9023.htm

Name	Ref (if any)	Description	Rep	Where to find
Definition function code	UN Code list 9025	Code specifying a function of a definition	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9025.htm
Value definition function code	UN Code list 9029	Code specifying the extent of a definition	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9029.htm
Edit mask representation code	UN Code list 9031	Code specifying the representation of the edit mask	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9031.htm
Qualification application area code	UN Code list 9035	Code specifying the application area of a qualification	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9035.htm
Qualification type code	UN Code list 9037	Code specifying a type of qualification	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9037.htm
Facility type code	UN Code list 9039	Code specifying a type of facility	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9039.htm
Reservation type code	UN Code list 9043	Code qualifying a type of reservation	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9043.htm
Basis function code	UN Code list 9045	Code qualifying a basis	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9045.htm
Applicability function code	UN Code list 9051	Code qualifying the applicability	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9051.htm
Relationship type code qualifier	UN Code list 9141	Code qualifying a type of relationship	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9141.htm
Relationship description code	UN Code list 9143	Code specifying a relationship	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9143.htm

Name	Ref (if any)	Description	Rep	Where to find
Tax regime type code	UN Code list 9213	Code specifying a regime according to which tax is assessed such as preferential duty rate	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9213.htm
Validation criteria code	UN Code list 9285	Code specifying the validation criteria to be applied	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9285.htm
Seal sealing party type code	UN Code list 9303	Code specifying the role of a sealing party	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9303.htm
Government procedure code	UN Code list 9353	Code specifying a government procedure	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9353.htm
Government involvement code	UN Code list 9411	Code specifying the requirement and status of governmental involvement	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9411.htm
Government involvement code	UN Code list 9415	Code specifying a government agency	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9415.htm
Government involvement code	UN Code list 9417	Code specifying a type of government action such as inspection, detention, fumigation, security	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9417.htm

Name	Ref (if any)	Description	Rep	Where to find
Process stage code	UN Code list 9421	Code specifying a stage in a process	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9421.htm
Clinical intervention code	UN Code list 9437	Code specifying a clinical intervention	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9437.htm
Clinical intervention type code	UN Code list 9441	Code specifying a type of clinical intervention	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9441.htm
Attendance function code	UN Code list 9443	Code qualifying a type of attendance	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9443.htm
Discharge type description code	UN Code list 9447	Code specifying the type of discharge	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9447.htm
Code source code	UN Code list 9453	Code specifying the source of a code value	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9453.htm
Formula type code	UN Code list 9501	Code specifying a type of formula	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9501.htm
Formula sequence function code	UN Code list 9507	Code giving specific meaning to a formula sequence	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9507.htm
Information category code	UN Code list 9601	Code specifying the category of the information	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9601.htm
Diagnosis type code	UN Code list 9623	Code specifying the type of diagnosis	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9623.htm
Related cause code	UN Code list 9625	Code specifying a related cause	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9625.htm

Name	Ref (if any)	Description	Rep	Where to find
Event function code	UN Code list 9635	Code qualifying event details	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9635.htm
Service basis code	UN Code list 9641	Code specifying the basis on which a service is performed	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9641.htm
Supporting evidence type code	UN Code list 9643	Code qualifying a type of supporting evidence	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9643.htm
Payer responsibility level code	UN Code list 9645	Code specifying the level of responsibility of a payer	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9645.htm
Process information function code	UN Code list 9649	Code qualifying processing information	an..3	https://service.unece.org/trade/untdid/d21a/tred/tred9649.htm

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Code for the Representation of Names of Countries	UNECE Rec 3	Code representing the names of countries, dependencies, and other areas of special geopolitical interest for purposes of international trade ISO ALPHA 2 Country Code		https://unece.org/fileadmin/DAM/cefact/recommendations/rec03/rec03_ecetrd201.pdf
Abbreviations of INCOTERMS	UNECE Rec 5	Recommends the use of agreed abbreviations for		https://unece.org/sites/default/files/2020-12/ECE-TRADE-458E-CFRec5.pdf

		the ICC trade terms (INCOTERMS) for acceptance and use by Governments and international organizations whenever these terms are used in the abbreviated form	
Numerical Representation of Dates, time and Periods of Time	UNECE Rec 7	Establishes a method for a standardized and unambiguous all numerical designation of a given date, time of day and length of time, when presented in a numerical form	https://unece.org/fileadmin/DAM/cefact/recommendations/rec07/rec07_1988_inf108.pdf
Alphabetic Code for the Representation of Currencies	UNECE Rec 9	Recommends the use of three-letter alphabetic codes of the International Standard ISO 4217 "Codes for the representation of currencies and funds" when currencies are expressed in coded or abbreviated form	https://unece.org/fileadmin/DAM/cefact/recommendations/rec09/rec09_ecetrd203.pdf

		ISO 4217 Code for the representation of currencies and funds		
Codes for the identification of ships	UNECE Rec 10	Recommends that participants in international trade, including ship owners, port authorities and other parties involved in maritime transport of goods, use the International Maritime Organization's Ship Identification Number Scheme for the unique identification of ships; and recommends using only the final seven characters of the IMO number in automated applications		https://unece.org/fileadmin/DAM/cefact/recommendations/rec10/rec10rev_1997_r1274.pdf
UN/LOCODE Code for Trade and Transport Locations	UNECE Rec 16	Recommends a five-letter alphabetic code for abbreviating names of locations such as ports, airports,		https://unece.org/sites/default/files/2020-12/ECE-TRADE-459E.pdf

			inland freight terminals, and other locations where Customs clearance of goods can take place, and whose names need to be represented unambiguously in data interchange	
Payment abbreviations for terms of payment	UNECE Rec 17		Provides abbreviations to certain terms of payment (PAYTERMS) for use in international trade transactions	https://unece.org/fileadmin/DAM/cefact/recommendations/rec17/rec17_1982_ecetrd142.pdf
Code for modes of transport	UNECE Rec 19		Establishes a one-digit numerical code for representing transport modes and provides for a second digit for subdivisions, if required	https://unece.org/fileadmin/DAM/cefact/recommendations/rec19/rec19_01cf19e.pdf
Codes for units of measure used in international trade	UNECE Rec 20		Provides three character alphabetic and alphanumeric codes for representing units of measurement for length, area, volume/capacity,	https://unece.org/fileadmin/DAM/cefact/cf_plenary/plenary09/cf_09_24E.pdf

		mass (weight), time, and other quantities used in international trade		
Codes for passengers, types of cargo, packages, and packaging materials	UNECE Rec 21	Presents coded representations for the package type names used in international trade, intended for use in manual and/or automated systems for the exchange of information between participants in international trade		https://unece.org/fileadmin/DAM/cefact/recommendations/rec21/rec21rev2_rev_96trd211.pdf
Freight Cost Code (FCC)	UNECE Rec 23	Provides a naming system to be used to establish harmonized descriptions of freight costs and other charges related to the international movement of goods		https://unece.org/fileadmin/DAM/cefact/cf_plenary/plenary11/ECE_TRADE_C_CEFAC2011_6E.pdf
Trade and transport status codes	UNECE Rec 24	Provides Transport Status Codes to satisfy requirements for exchanging coded information about the status of		https://unece.org/fileadmin/DAM/cefact/cf_plenary/plenary09/cf_09_26E.pdf

		consignments, goods or means of transport at a certain time or place in the transport chain		
Codes for types of means of transport	UNECE Rec 28	Establishes a common code list for the identification of the type of means of transport, particularly relevant for transport providers, Customs/ other authorities, statistical offices, forwarders, shippers, consignees etc.		https://unece.org/fileadmin/DAM/cefact/recommendations/rec28/Rec28_Rev3e_2010.pdf

<i>Term</i>	<i>Definition</i>
Authority	An Authority provides authorisation associated with any conventions or regulations applicable to the trading of goods within the international purchase and supply chain. The possible roles of an Authority include border control authorities (e.g. Customs), permit/licensing issuing authorities and port authorities etc.
Buyer	The party to whom goods are sold services as stipulated in a sales order contract
Carrier	The party which provides transport services
Consignee	The party receiving a consignment of goods as stipulated in a transport service contract. The party to whom goods are shipped and delivered. The receiver of a freight shipment
Consignment	A separately identifiable collection of Consignment Items (available to be) transported from one Consignor to one Consignee via one or more modes of transport as specified in one single transport service contractual document
Consignment item	A separately identifiable quantity of products grouped together by Customs tariff code or packaging for transport purposes. A Consignment Item is the lowest level of information within a Consignment. In the

case of cross-border consignments each Consignment Item must have only one associated Customs tariff code in order to satisfy Customs requirements

Consignor

The party consigning goods as stipulated in a transport service contract. Consignor is the party who originates a shipment of goods, the sender of a freight shipment, usually the seller

Conveyance Report

A conveyance report permits the transfer of data from a carrier to a customs administration for the purpose of meeting customs reporting requirements in respect of the means of transport on which cargo is carried

Customs Cargo Report

Documents by which movements of goods are reported to Customs at a place of export, import or transit

Customs Item

A Customs Item is a Consignment Item, a Trade Item or an aggregation of Consignment or Trade Items with distinct Customs tariff code for reporting to Customs

Delivery party

The party to which goods should be delivered by the transport services provider. Operational term is 'delivery location' (or 'place of positioning')

Despatch party

The party where goods are collected or taken over by the transport services provider. Operational term is 'pick-up location' (or 'pick-up place')

Exporter

The party who makes, or on whose behalf the export declaration is made, and who is the

owner of the goods or has similar rights of disposal over them at the time when the declaration is accepted

Final delivery party/ultimate delivery party	The party to whom goods will be or have been ultimately shipped
Freight forwarder	The party undertaking the forwarding of goods by provision of transport, logistics, associated formalities services etc.
Import/Export Customs Declaration	
Importer	The party who makes, or on whose behalf a Customs clearing agent or other authorized person makes, an import declaration. This may include a person who has possession of the goods or to whom the goods are consigned
Intermediary	Within the international purchase and supply chain, an Intermediary can be any party who provides services to support either the Sales Order Contract or the Transport Service Contract. The possible roles of an Intermediary include the Transport Service Provider (e.g. Carrier, Freight Forwarder), Financial Institution or Customs Agent etc.
Invoice Issuer	The party who issues an invoice
Invoicee	The party to whom an invoice is issued
Original despatch party	The party from whom goods will be or have been originally shipped
Sales order	A contractual document by means of which a buyer initiates a transaction with a seller

involving the supply of goods or services as specified, according to conditions which are either set out in a formal quotation or otherwise known to the buyer. The information included in the cross-border Order document covers the commercial information between the Buyer and the Seller relating to the Sales Order and also the additional transport and regulatory information required by intermediaries and authorities

Seller

The party selling/supplying goods or services as stipulated in a sales order contract. The primary role of the Supplier as specified in the Sales Order Contract is the Seller and other possible roles include the Original Consignor/Shipper, Transport Services Buyer, Exporter, and Invoice Issuer

Shipment

An identifiable collection of one or more Trade Items (available to be) transported together from the Seller (Original Consignor/Shipper) to the Buyer (Final/Ultimate Consignee)

Trade item

Lowest level of "commercial" information in a Sales Order between the Buyer and the Seller. Each Trade Item will usually be associated with a particular product and will include details such as product code, quantity and unit price etc. In the case of cross-border orders each product will also have an associated Customs tariff code

Transport Equipment

A piece of equipment used to hold, protect or secure cargo for logistics purposes

Transport Means	Devices used to convey goods or other objects from place to place during logistics cargo movements
Transport Movement	The conveyance (physical carriage) of goods or other objects used for transport purposes
Transport Packaging	A self-contained wrapping or container within which goods can be contained for transport purposes, such as a box or a barrel which can be filled, partially filled or empty
Transport Service Buyer	The party stipulated as the buyer of transport services in a Transport Service Contract. The Transport Service Buyer role may be performed by either the Consignor or the Consignee depending on the Terms of Delivery specified in the associated Sales Order Contract
Transport services buyer (consignor or consignee)	The buyer of transport services as stipulated in a transport service contract
Transport services provider (carrier or freight forwarder)	The provider i.e. seller of transport services as stipulated in a transport service contract

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