# Informal meeting on Code of Practice for Packing of Cargo Transport Units at the request of the United Nations Economic Commission for Europe Working Party on Intermodal Transport and Logistics

Geneva and virtual, 29-30 March 2023

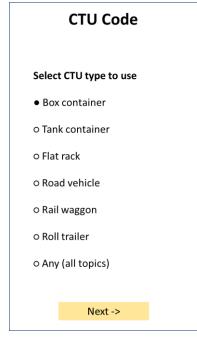
## CTU Code App mechanism - three selection criteria

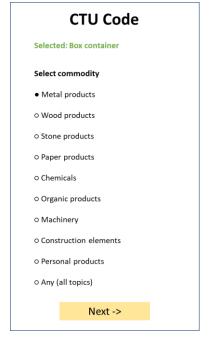
Submitted by ETS Consulting

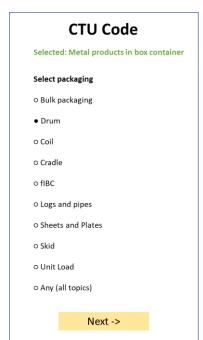
This document provides information on the lists developed for three selection criteria to be used for filtering information from CTU Code by users through the app as per their needs. The thinking behind in the development of the lists with the three selection criteria is also provided.

#### **Development of the selection criteria**

The three lists below were developed initially as the possible selection criteria for fileting information from the CTU Code through the future App, among them CTU Type, Commodity and Packaging. The intersession discussion on the lists suggested that these lists were too restrictive and needed expanding. At the same time, it was recommended that a limit to the number of categories, ideally 15, is set.







CTU Type - C

Commodity Type - M

Packaging Type - P

Further to the above considerations, the **CTU Type** categories were expanded to cover three configurations for the three transport modes:

Box Container 2 Tank Container Flatrack container 4 Box road vehicle;/ trailer 5 Tank road vehicle / trailer 6 Flatback road vehicle / trailer 7 Box rail wagon / car 8 Tank rail wagon / car 9 Platform wagon / car 10 Rolltrailer

The **Commodity Type** links the HS Nomenclature, used by most Customs authorities to categorise products, with a simplified list that groups many of the HS level 1 coding into 15 commodity categories.

The table below shows the original short list, a longer list and the final Proposed Commodity List of 15 categories.

| Short Commodity List |                       | Long Commodity List |  | Proposed Commodity List |  |
|----------------------|-----------------------|---------------------|--|-------------------------|--|
| 1                    | Any (all topics)      | 1                   | Animal / Vegetable gums, oils and resins   | 1                       | Animal Products                            |
| 2                    | Chemicals             | 2                   | Animal Products                            | 2                       | Chemical Products                          |
| 3                    | Construction elements | 3                   | Chemical Products                          | 3                       | Food Stuffs and Vegetable products         |
| 4                    | Machinery             | 4                   | Clothing and Fibre Products                | 4                       | Iron, Steel and Metalic Products           |
| 5                    | Metal Products        | 5                   | Consolidated Goods                         | 5                       | Ores, Earths and Stone Products            |
| 6                    | Organic Products      | 6                   | Dyes, Paints and Varnishes                 | 6                       | Organic Chemicals                          |
| 7                    | Paper Products        | 7                   | Explosive, arms and munitions              | 7                       | Personal Products                          |
| 8                    | Personal products     | 8                   | Food Stuffs                                | 8                       | Pharmaceutical Products                    |
| 9                    | Stone Products        | 9                   | Hand held Equipment goods                  | 9                       | Plant and Machinery                        |
| 10                   | Wood Products         | 10                  | Hides and Skins                            | 10                      | Plants                                     |
| 11                   |                       | 11                  | Iron, Steel and Metalic Products           | 11                      | Plastics and Rubber goods                  |
| 12                   |                       | 12                  | Live Animals                               | 12                      | Pulp and paper products                    |
| 13                   |                       | 13                  | Oils, Waxes and Soaps                      | 13                      | Stone, Ceramic, Glass and Natural Products |
| 14                   |                       | 14                  | Ores, Earths and Stone Products            | 14                      | Wood Products                              |
| 15                   |                       | 15                  | Organic Chemicals                          | 15                      | Others                                     |
| 16                   |                       | 16                  | Personal Products                          | 16                      |  |
| 17                   |                       | 17                  | Pharmaceutical Products                    | 17                      |  |
| 18                   |                       | 18                  | Plant and Machinery                        | 18                      |  |
| 19                   |                       | 19                  | Plants                                     | 19                      |  |
| 20                   |                       | 20                  | Plastics and Rubber goods                  | 20                      |  |
| 21                   |                       | 21                  | Pulp and paper products                    | 21                      |  |
| 22                   |                       | 22                  | Stone, Ceramic, Glass and Natural Products | 22                      |  |
| 23                   |                       | 23                  | Transport Equipment                        | 23                      |  |
| 24                   |                       | 24                  | Vegetable Products                         | 24                      |  |
| 25                   |                       | 25                  | Wood Products                              | 25                      |  |
| 26                   |                       | 26                  | Works of Art                               | 26                      |  |

The **Packaging Types** grouped similar shaped items into 18 different categories.

#### Packaging Type Groups Assorted packaging 2 Bags and sacks 3 Bales and bundles 4 Barrels, cans, drums, kegs and tubes 5 Boxes, cartons and cases 6 Bulk Coil 8 Cradle Crate fIBC 11 Handling Unit 12 IBC Logs and pipes Rolls Sheets and plates Stillage 17 Tray Unit Load

In addition, the **Functional Roles** were included in the base data:

| 1  | CTU Operator        |  |  |
|----|---------------------|--|--|
| 2  | Consignor           |  |  |
| 3  | Packer              |  |  |
| 4  | Shipper             |  |  |
| 5  | Road Haulier        |  |  |
| 6  | Rail Haulier        |  |  |
| 7  | Intermodal operator |  |  |
| 8  | Carrier             |  |  |
| 9  | Consignee           |  |  |
| 10 | Unpacker            |  |  |

By adding functional roles to the matrices each entity within the transport chain can focus on the sections within the CTU Code of their interest.

Using these three Type criteria and the functional roles matrices were built matching CTU Code information to these chosen criteria.

Listed below are the three entry points proposed that the CTU Code App user would be able to start with in filtering and identifying information in CTU Code of their interest. In each case the matrix is dependent on the higher level. For example, starting with the CTU Type, only those packaging types (Level 2) that can be packed into the selected CTU Type (Level 1) will be shown. Functional roles listed in Level 3 are only those that are applicable to the combination of CTU Type and Packaging type, for example **Boxes**, **cartons and cases** may only be packed into a Box container, a Box road vehicle;/ trailer or a Box rail wagon / car.

## CTU Type

| Level | Select               | Category   | Available information  |
|-------|----------------------|--|--|
| 1     | CTU type (C1)        | Choice of 10   | CTU Type detail – Each of the 10 categories can be further searched for the particular type of CTU with links to IM 3 CTU Types  |
| 2     | Packaging Type (C2)  | Dependent on the CTU Type selected                       | Each CTU Type has been linked to a type of packaging that can be packed in / on it. Tank CTUs can only select Bulk Packaging whereas a Box CTU can accommodate almost all packaging types. |
| 3     | Functional Role (C3) | Select from the 10 functional roles (including unpacker) | The functional roles are dependent on<br>the CTU Type selected, for example<br>Road Haulier cannot be selected for a<br>rial wagon and vice versa.   |
| 4     | CTU Code text (C4)   | Select from CTU<br>Code, Annexes and<br>IM as required   | The functional role and packaging type will dictate the particular clauses that will be displayed.   |

**Note:** 

The Commodity Type is not included relying on the Packaging Type, however, certain Packaging Types will include a flag that will indicate that if the Package is marked as a DG then the appropriate section should be included.

## **Commodity Type**

| Level | Select              | Category                                       | Available information   |
|-------|---------------------|--|---|
| 1     | Commodity Type (M1) | Choice of 15                                   | HS Level 1 detail list – each of the Commodities can be further broken down to the 97 HS Level 1 categories. This is provided for information only and at this stage there is no link from the HS Level 1 categories and the Packaging type |
| 2     | Packaging Type (M2) | Dependent on the<br>Commodity Type<br>selected | Each Commodity Type has been linked to a type of packaging that can be used to transport the Commodity.  The combination of Commodity Type and Packaging Type will generate a DG Flag.  |

| 3 | CTU Type (M3)        | Dependent on the<br>Packaging Type<br>Selected           | A backwards version of the link in C2 above will be used   |
|---|----------------------|--|--|
| 4 | Functional Role (M4) | Select from the 10 functional roles (including unpacker) | The functional roles are dependent on<br>the CTU Type selected, for example<br>Road Haulier cannot be selected for a<br>rial wagon and vice versa. |
| 5 | CTU Code text (M5)   | Select from CTU<br>Code, Annexes and<br>IM as required   | The functional role and packaging type will dictate the particular clauses that will be displayed.   |

Note:

During the process of linking the CTU Code text to matrix chain, the use of "Bulk" in the Packaging Type adds complexity as it covers both solid and liquid which in turn can direct the user to text related to both types. It may be considered that the category is divided in the **Solid Bulk** and **Liquid Bulk**.

### **Packaging Type**

| Level | Select               | Category   | Available information  |
|-------|----------------------|--|--|
| 1     | Packaging type (P1)  | Choice of 18   | Packaging Type detail – Each of the 18 categories can be further searched for the particular type of packaging each with a defintion               |
| 2     | CTU Type<br>(P2)     | Dependent on the<br>Packaging Type<br>selected           | A backwards version of the link in C2 above will be used.  |
| 3     | Functional Role (P3) | Select from the 10 functional roles (including unpacker) | The functional roles are dependent on<br>the CTU Type selected, for example<br>Road Haulier cannot be selected for a<br>rial wagon and vice versa. |
| 4     | CTU Code text (P4)   | Select from CTU<br>Code, Annexes and<br>IM as required   | The functional role and packaging type will dictate the particular clauses that will be displayed.   |

**Note:** The Commodity Type is not included relying on the Packaging Type, however, certain Packaging Types will include a flag that will indicate that if the Package is marked as a DG then the appropriate section should be included.

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