# Intersection of Digitalization and Physical Security

**World Customs Organization**

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**Air Cargo Digitalization in COVID-19 Times: Perspectives on Security**
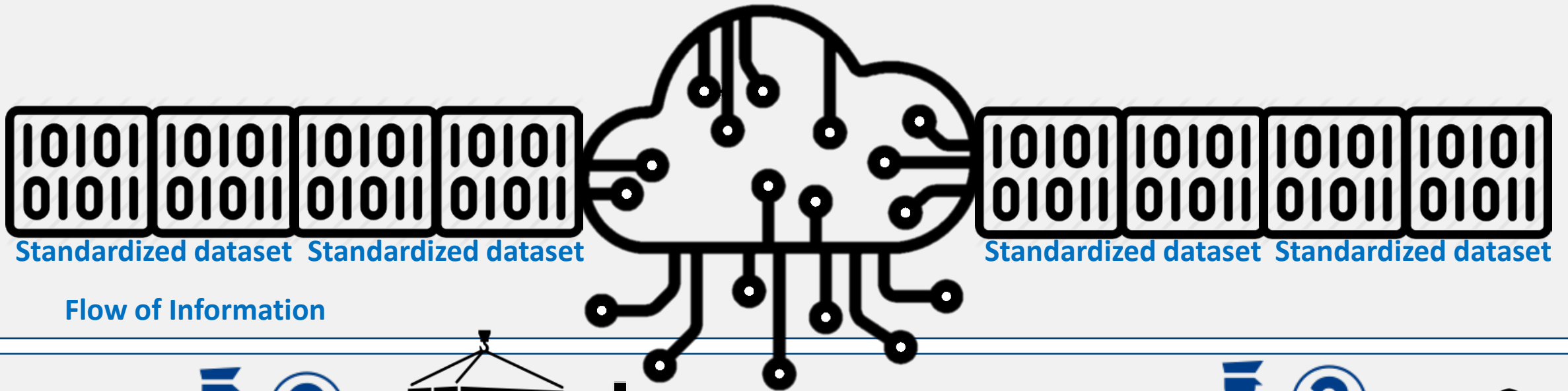25 August 2021

# WCO Agenda on Digitalization

- Digital Customs
- Smart Borders
- Disruptive Technologies

- RKC: General Annex Chapter 7 on Application of IT
- RKC ICT Guidelines
- Single Window Compendium
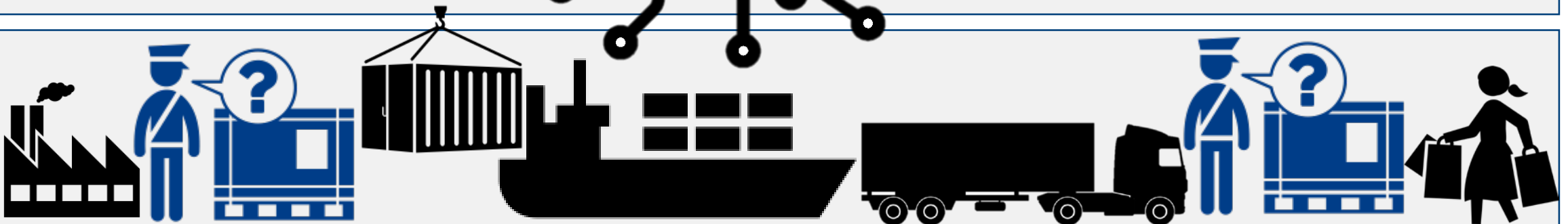- WCO Data Model

- SAFE Framework of Standards

- Trade Facilitation
- Security
- Revenue Collection
- Community protection

# Streamlining flow of goods and flow of information

WCO

Digitalization >> Standardization

Standardized dataset  Standardized dataset    Standardized dataset  Standardized dataset

Flow of Information

Flow of Goods

www.wcoomd.org

# WCO Data Model: a blueprint for interoperability



**WCO DM:**
A multipurpose frameworks for managing cross border regulatory data requirements

**Information Packages:**
subsets of WCO for a specific purpose

**Base Information Package:** A Broad categorization of data
- Declaration,
- LPCO
- INTERGOV
- Response

Derived Information Package
- A more specific subset of WCO DM based on a certain Legal Framework

My Information Package
- A National implementation of the WCO DM

# Digitalization and Standardization

**WCO Data Model:**

- Key reference that act as anchors for interoperability
  - WCO ID
  - WCO Name
  - WCO Definition
  - WCO Format representation
  - WCO Position ID
  - Recommended Code lists

**WCO Data Model version 3.10.0 - Declaration Subset**

| ID | Class Path/Attribute Name | Class/Attribute Definition | Format | Code List |
|---|---|---|---|---|
| 15A | Declaration/BorderTransportMeans | Details of the means of transport | | |
| T019 | Transport means operation type, coded | A code specifying the type of | an..3 | User codes (e.g. IATA code list) |
| T005 | Identification of means of transport | Name to identify the means of | an..70 | |
| T006 | Identification of means of transport crossing the border, coded | Identifier to identify the means of transport used in crossing the border | an..25 | Sea: ITU Standard or Lloyd's number Air: IATA aircraft ID Road: national license plate Rail: locomotive number |
| T018 | Type of identification of means of | The type of identifier of the means of | an..17 | E.g. IMO, MMSI, Call sign, External |
| T010 | Type of means of transport crossing the | Means of transport used for crossing | an..4 | EDIFACT codes (8179) / |
| T014 | Nationality of means of transport | Nationality of the active means of | a2 | EDIFACT codes (8453) |
| T022 | Mode of transport crossing the border, | Mode of transport used for crossing the | n1 | EDIFACT codes (8067) / |
| T025 | Movement type description, coded | Code specifying a type of transport | an..3 | EDIFACT codes (8335) |
| 172 | Date and time of arrival at first port of arrival in Customs territory | Date and time / scheduled date and time of arrival of means of transport at | an..35 | |
| 150 | Number of containers | Total number of freight containers or | n..6 | |
| 119 | Number of Crew | Total number of the members of the | n..4 | |
| 156 | Departure date and time | Date and time of departure of the | an..35 | |
| 029 | Consignment unloading date time | Date and time the cargo was outturned | an..35 | |
| 085 | First port of arrival, coded | To identify the first arrival location. | an..17 | UN/LOCODE (an..5) + user code |
| 132 | Gross Tonnage | The measure of the overall size of a | n..14,3 | |
| 149 | Conveyance reference number | To identify a journey of a means of | an..17 | |
| 207 | Vessel length | Length of single vehicle expressed in | n..6 | |
| 206 | Vessel draught level | Forward/after draught level in meters | n..5 | |
| 133 | Net tonnage | The measure of the useful capacity of a ship determined in accordance with | n..14,3 | |
| 140 | Number of Passengers | Total number of the passengers on | n..4 | |

# Digitalization and Standardization

**R020**
**Consignor, name**
Name of the party consigning goods as stipulated in the transport contract by the party ordering transport.

**R014**
**Consignee, name**
party to which goods are consigned

**144**
**Number of packages**
Number of individual items packaged in such a way that they cannot be divided without first undoing the packing.

**138**
**Brief cargo description**
Plain language description of the cargo of a means of transport, in general terms only.

# Digitalization for supply chain security: PLACI

**PLACI** is an additional layer of a multi-layered approach to supply chain security.
Specific 7+1 data set as defined in the WCO SAFE Framework of Standards (SAFE)
Drawn from available consignment data.
Provided to regulators by freight forwarders, air carriers, postal operators, integrators, regulated agents, or other entities.
Presented as soon as possible prior to loading of cargo on an aircraft at the last point of departure
Data to perform an assessment of the potential risk represented to the safety of the aircraft by the consignment i.e 'Bomb in a Box'.
7+1 data elements lodged as soon as possible before loading.

## Joint WCO-ICAO Guiding Principles for PLACI

**ANNEX III**

**Pre-loading Air Cargo Security Data**

| No | WCO ID | Name | Description |
|----|--------|------|-------------|
| 1 | R020* | Consignor, name | Name of the party consigning goods as stipulated in the transport contract by the party ordering transport. |
| 2 | 04A | Consignor, address | Details relating to an address [to be associated with Consignor information] |
| 3 | R014 | Consignee, name | Name [and address] of party to which goods are consigned. |
| 4 | 04A | Consignee, address | Details relating to an address [to be associated with Consignee information] |
| 5 | 144 | Number of packages | Number of individual items packaged in such a way that they cannot be divided without first undoing the packing. |
| 6 | 131 | Total gross weight (incl. Measure unit qualifier) | Weight (mass) of goods including packaging but excluding the carrier's equipment for a declaration. |
| 7 | 138 | Brief cargo description | Plain language description of the cargo of a means of transport, in general terms only. |

*  R020 is a data element of WCO Class ID 30A, namely, "the party which, by contract with a carrier, consigns or sends goods with the carrier, or has them conveyed by him."

Note 1: The identification of the data filer must be provided together with the HAWB and/or MAWB number according to the air cargo business model.

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# Thank you

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