



**World Customs
Organization**

Harmonization of Railway Transit Datasets

Christian Lembke

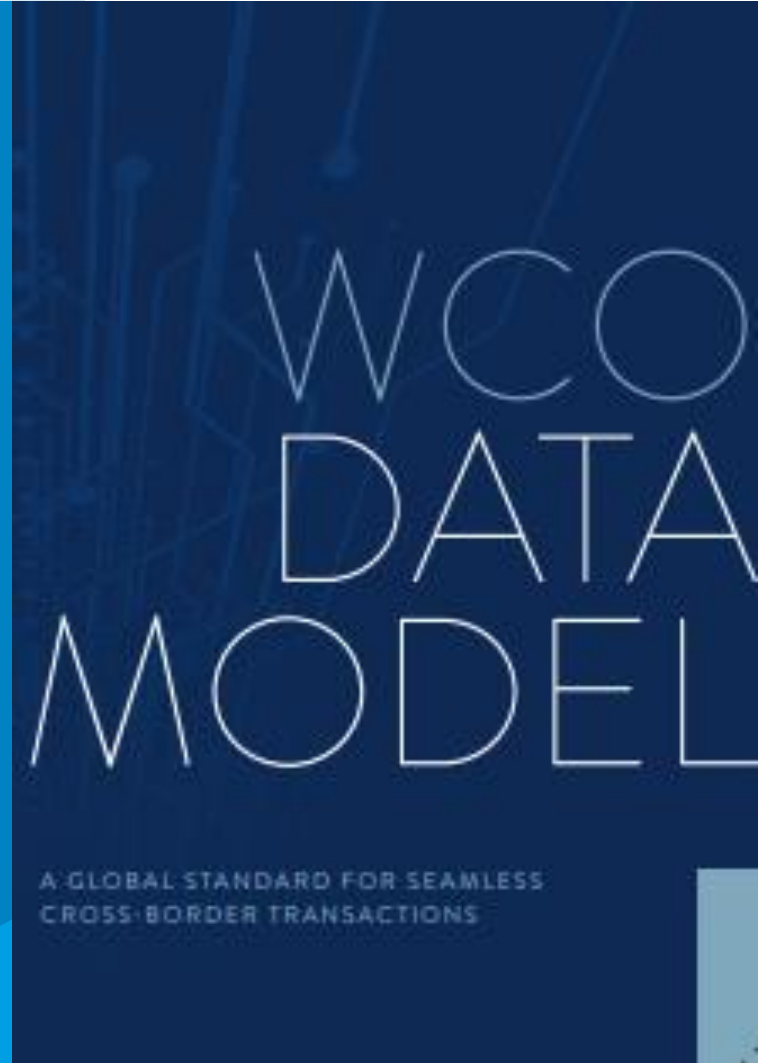
Procedure and Facilitation, Compliance and Facilitation
World Customs Organization

**CIT – OSJD – TRACECA – UIC
Second Joint Workshop on Use of the
electronic CIM/SMGS Consignment Note
on selected TRACECA railway routes**

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- The WCO Data Model (DM) is the data foundation for global trade interoperability.
- The WCO DM a universal language for cross-border data exchange enabling the implementation of Single Window systems and fuelling Data Analytics.
- It is a compilation of clearly structured, harmonized, standardized, and reusable sets of data definitions and electronic messages designed to meet the operational and legal requirements of Customs and other cross-border regulatory agencies (CBRAs) responsible for border management.

www.wcoomd.org/DataModel



Structure of the WCO Data Model

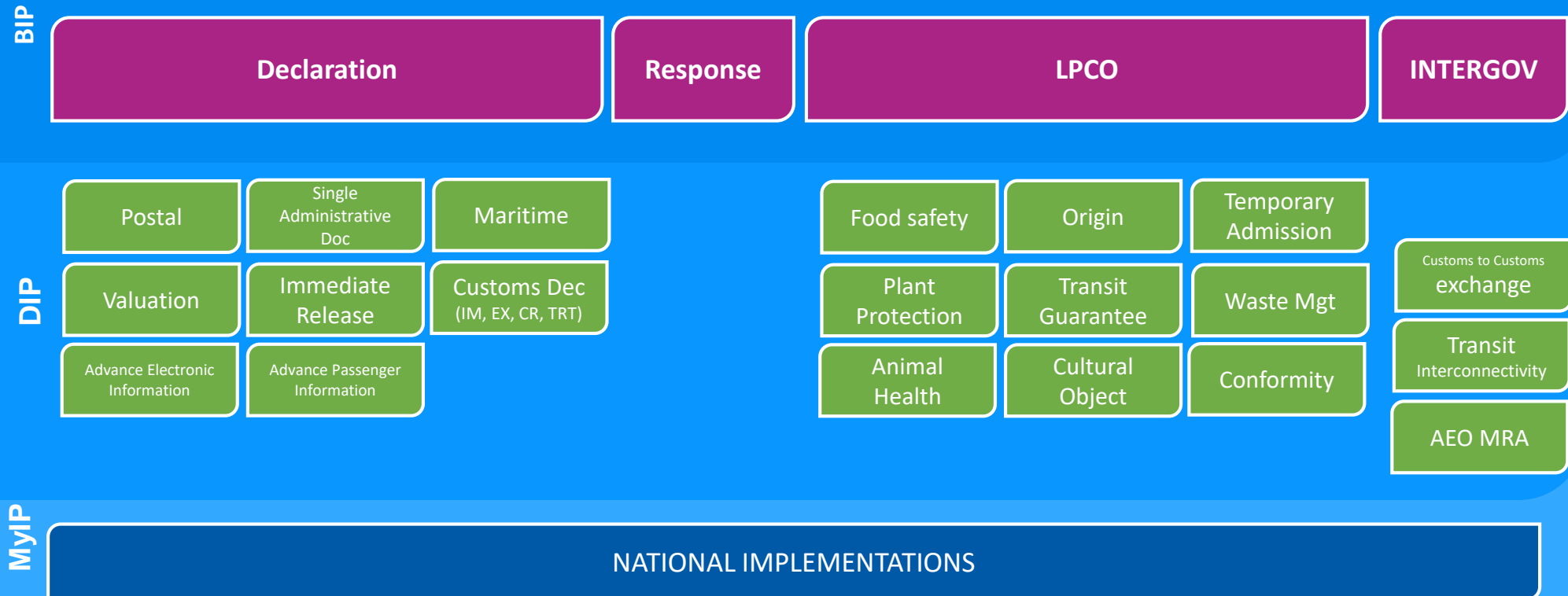


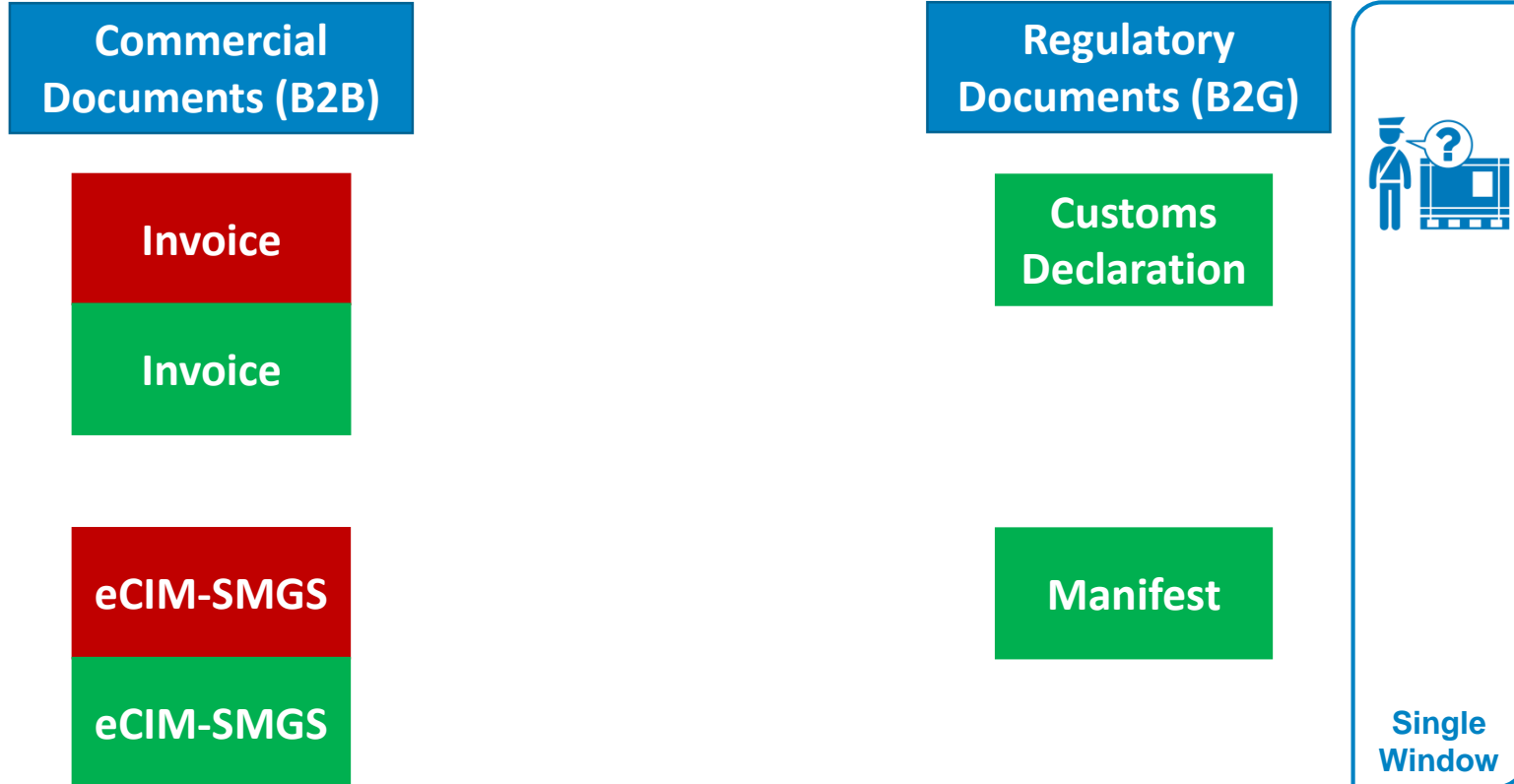
Information Packages:

- WCO DM is a multipurpose regulatory data management framework;
- Information package is a tool to organize the subsets of the WCO DM based on their specific purposes
- An IP may have additional details related to the procedures it is implemented
- The basis to generate certain electronic messages / electronic messages' schemas.

Library

Overall Information Model





Steps to be undertaken by the WCO to develop a harmonized railway transit dataset:

1. WCO Members share their national railway datasets.
2. Mapping of the national datasets to the WCO Data Model.
3. Mapping of the eCIM-SMGS to the WCO Data Model.
4. Development of a harmonized railway transit dataset as a subset of the WCO Data Model.
5. The harmonized dataset will be published as a part of the WCO Data Model package and as an Annex to the WCO Railway Guidance.

Where can you find the WCO Data Model?



wcoomd.org/DataModel

The screenshot shows the WCO Data Model page on the World Customs Organization website. The header includes the WCO logo, language selection (English), and navigation links like Sitemap, Contact Us, RSS feeds, and FAQ. A search bar is present. The main content area features the 'WCO Data Model' title and a detailed introduction. The introduction states that the WCO Data Model (DM) has been the data foundation for global trade interoperability for over two decades, providing a universal language for cross-border data exchange. It is a compilation of clearly structured, harmonized, standardized, and reusable sets of data definitions and electronic messages designed to meet the operational and legal requirements of Customs and other cross-border regulatory agencies (CBRAs) responsible for border management. The DM is mapped to the United Nations Trade Data Elements Directory (UNTDDED) and leverages standards established by international organizations such as the United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT) and the International Organization of Standards (ISO) to ensure global interoperability. The DM significantly reduces costs and improves efficiencies for Members and other stakeholders, such as the business community. The current version of the DM, version 3, has evolved to meet the needs of its users over the years. Solutions for Customs automated systems, Multi-Modal Manifest, and XML were some of the enhancements offered to meet increased governmental regulatory requirements and the demands for new technologies.

datamodel.wcoomd.org

The screenshot shows the WCO Data Model App interface. The header includes the WCO logo, 'DATA MODEL' title, and user information (HELLO, CHRISTIAN LEMBKE). The main content area features a large image of a cargo ship with various data points overlaid, such as 'Origin', 'Exit Office', 'Entry Office', 'Shipping Mark', 'Transport Equipment', 'Consignment Item', 'Commodity - Gross weight', 'Classification', 'Cargo Description', 'Transport Contract', 'Consignor - Consignee', 'Transport Doc. No.', 'Unique Consignment Ref.', and 'Border Transport Means'. A text box on the right explains 'The WCO Data Model' as a compilation of clearly structured, harmonized, standardized and reusable sets of data definitions and electronic messages designed to meet operational and legal requirements of cross-border regulatory agencies (CBRAs), including Customs, which are responsible for border managements. Below this, there are three main sections: 'Browse Information Packages', 'Explore the Data Dictionary', and 'Download Important resources'. A 'Discover how the WCO Data Model App facilitates your workflows' section is also present. At the bottom, there is a 'SINGLE WINDOW' banner with the WCO logo and the text 'SINGLE WINDOW'.



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Thank you

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