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UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE
UNITED NATIONS CENTRE FOR TRADE FACILITATION
AND ELECTRONIC BUSINESS (UN/CEFACT)

BUSINESS REQUIREMENTS SPECIFICATION
(BRS)

INTERNATIONAL FORWARDING AND TRANSPORT MESSAGES

WAYBILL

FINAL AFTER PUBLIC REVIEW

Approved: UN/CEFACT Bureau on 19 October 2020

Version: 1.0

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Document History

Phase	Status	Date Last Modified
Draft development	Initial	12-JUL 2020

Figure 1: Waybill Document History

Change Log

Date of Change	Version	Summary of Changes
July 2020	0.1	Initial Creation
July 2020	0.2	Following Internal review on call, updating the document to use the BRS template for T&L and to

Date of Change	Version	Summary of Changes
		circulate on Cue. Merge Final comments for Public Review.

Figure 2: Document Change Log

1.0 Preamble

The Waybill is the evidence of a contract between the Transport Service Buyer and the Transport Service Provider, it is usually issued on collection or receipt by the Transport Service Provider. The waybill is used as a document of title and to show who has the right of ownership of the goods being transported.

Waybill Type(s) and Potential Role(s)

Waybill Type	Transport Service Buyer	Transport Service Provider
Master Bill	Freight Forwarder, NVOCC	Main Carrier
Direct Bill	Original Consignor (Seller), Final Consignee (Buyer)	Main Carrier
Through Bill	Original Consignor (Seller), Final Consignee (Buyer), Freight Forwarder	Freight Forwarder, Main Carrier
House Bill	Original Consignor (Seller), Final Consignee (Buyer)	Freight Forwarder, NVOCC

The waybill is a common term covering various terms used in different modes of transport, for example;

- Bill of Lading, Ocean Bill of Lading, or Sea Waybill is used in Sea freight
- Air Waybill or eAWB is used in Airfreight
- Consignment Note (CMR or eCMR) is used in Road
- Rail Transport Document CIM and SGMS are used in Rail

Waybills are Negotiable or Non-Negotiable.

Negotiable waybill is used as a document of title, used to transfer ownership of the goods from one party to another such as Consignor and Consignee, these bills of lading would typically drawn "To Order" of the Consignee.

Non-Negotiable waybill does not permit title to be transferred from one party to another. The release of cargo at destination is only to the named Consignee in exchange for an original bill of lading.

2.0 References

- UN/CEFACT Multi Modal Transport Reference Data Model (UN/CEFACT – SHIP/MMT-RDM)
- UN/CEFACT Buy-Ship-Pay Reference Data Model BSP-RDM Version 1.0 (2019)
- International Forwarding and Transport Version 1.0 BRS of (2008)
- UN/EDIFACT messages (IFTMCS)
- ITIGG Global Guidelines for the IFTM** P&R messages
- Blockchain in Trade Facilitation: Sectoral challenges and examples (2019)

3.0 Objective

The objective of this document is to outline the implementation of the Waybill in the transport movement between the Transport Service Buyer and Transport Service Provider and the Consignee for the purpose of transporting and releasing the goods.

The exchange of data in a standardized format reduces the integration effort between parties and ensures that the necessary data is placed into the relevant section on a waybill without misinterpretation and is presented in the exact way to adhere to any local, financial, regulatory or business requirement without modification or re-entry.

The data structures should support the exchange of an electronic waybill for the release of goods.

This BRS is a subset of the International Forwarding and Transport BRS (2020)

4.0 Scope

4.1 Description

This BRS aims to develop subsets of the MMT RDM which are aligned to the global guidelines for the UN/EDIFACT IFTMCA message structure, supporting digitalization in Transport and Logistics whilst remaining data exchange syntax agnostic.

4.2 Context

Context Category	Description
Business Process	Buy-Ship-Pay / Logistics / Transport / Waybill
Product Classification	All
Industry Classification	All
Geopolitical	Global
Official Constraints	None
Business Process Role	Transport Service Buyer and Transport Service Provider
Supporting Role	Consignee, Consignor, Notify Party, Carrier, Freight Forwarder, Bank, Financial Service Provider
System Capabilities	No Limitations

Figure 3: Context Categories for Waybill

5.0 Business Requirements Elaboration

5.1 Business Requirements List

Providing an electronic waybill to be used in exchange of title in the case of a negotiable waybill, or for the release of cargo to a nominated consignee in the case of a non-negotiable waybill.

A waybill would usually follow from a shipping instruction and during the preparation of the waybill there may be several amendments required. In the case of a Letter of Credit the requestor will need to provide literals or more detailed values for commodity details, party names and addresses and location spellings to adhere to the Letter of Credit

This document describes the following typical scenario of preparing a waybill from a shipping instruction provided from the Transport Service Buyer to the Transport Service Provider. It is also recognised that in some modes of transport the shipping instructions are not always provided, and the preparation of the waybill can be from other documentation.

Number	Business Requirement Statement	Business Transaction Name
A.1	Prepare draft waybill for approval by the Transport Service Buyer	Prepare Waybill
A.2	Issuing of the Waybill, evidencing the transport contract between the Transport Service Buyer and the Transport Service Provider	Issue Waybill
A.3	The transfer of title of the goods from one party to another in a negotiable waybill	Transfer of Title
A.4	The release of goods to the consignee completing the transport contract	Release Goods

Figure 4: Business Requirement List

Number	Data Requirement Statement
B1	The Waybill should provide interoperability with the UN/CEFACT Multi-Modal Transport Reference Data Model (MMT RDM)

Figure 5: Data Requirement Statement Template

5.2 Definition of Business Terms

The main terms are defined in the MMT RDM apply and the Waybill is fully compliant with all of these definitions.

The Waybill refers to the following additional terms:

Term	Definition
Transport Service Buyer (Consignor or Forwarder)	The buyer of transport services as stipulated in a Transport Service Contract.
Transport Service Provider (Carrier or Forwarder)	The provider i.e. seller of transport services as stipulated in a Transport Service Contract.
Freight Forwarder	The party undertaking the forwarding of goods by provision of transport, logistics, associated formalities services etc.
NVOCC	Non Vessel Operating Common Carrier
Consignment	A consignment is 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.
Shipment	A shipment is an identifiable collection of one or more Trade Items (available to be) transported together from the Seller

Term	Definition
	(Original Consignor/Shipper), to the Buyer (Final/Ultimate Consignee).
Means of Transport	Particular aircraft, vehicle, vessel or other device used for the transport of goods or persons.
Finance Service Providers	A provider of finance in a supply chain such as a Bank

Figure 6: Definition of Terms

5.3 Business Requirements View

5.3.1 Overall Business Use Case, Partner View and Conceptual Model

The waybill is issued by the Transport Service Provider and agreed by the Transport Service Buyer, it may be subject to a number of amendments before it is accepted by the Transport Service Buyer.

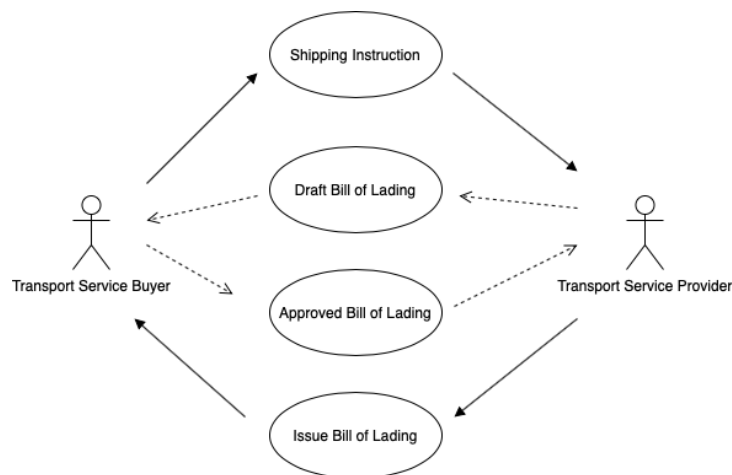


Figure 7: Overall Process Use Case Diagram

The following diagram describes the relationships between the highest-level Business Information Entities which are reused across the UN/CEFACT Buy/Ship/Pay, SCRDM and MMT Reference Data Models.

The waybill utilises some of these entities and relationships in the model.

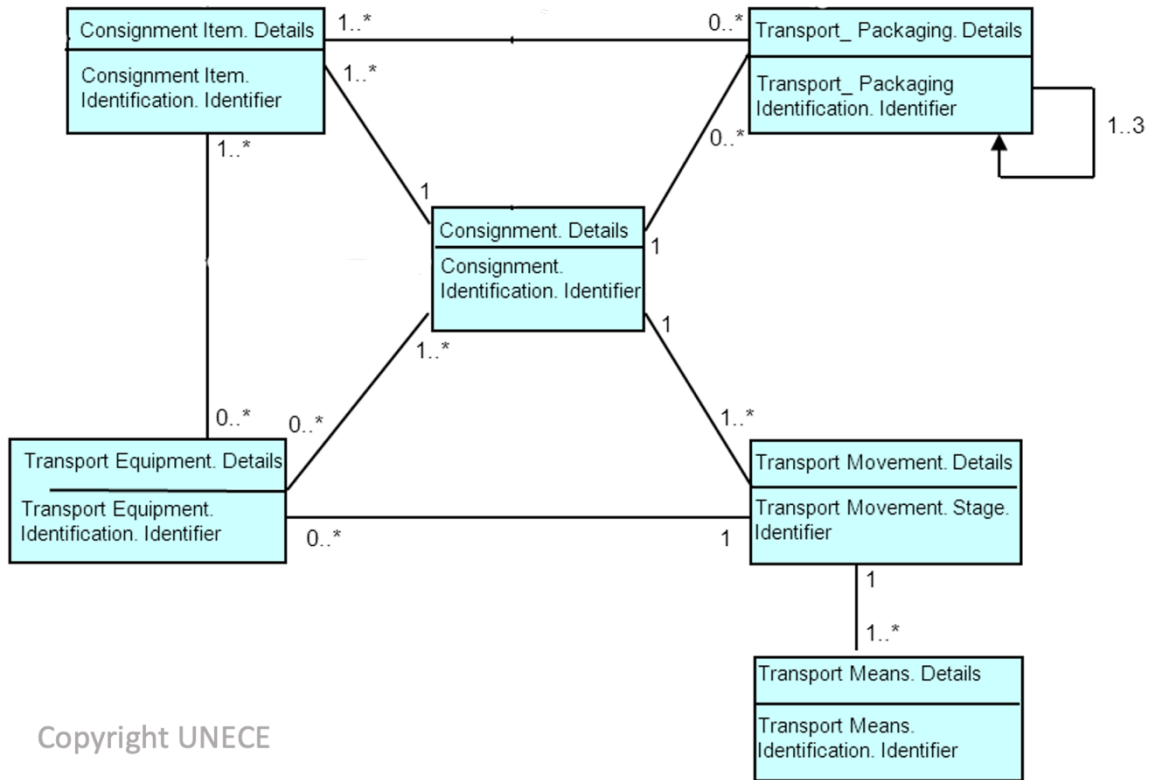


Figure 8a: MMT High Level Entity Model

Figure 8b refer to the canonical data model, further details of which can be found in the MMT library publication.

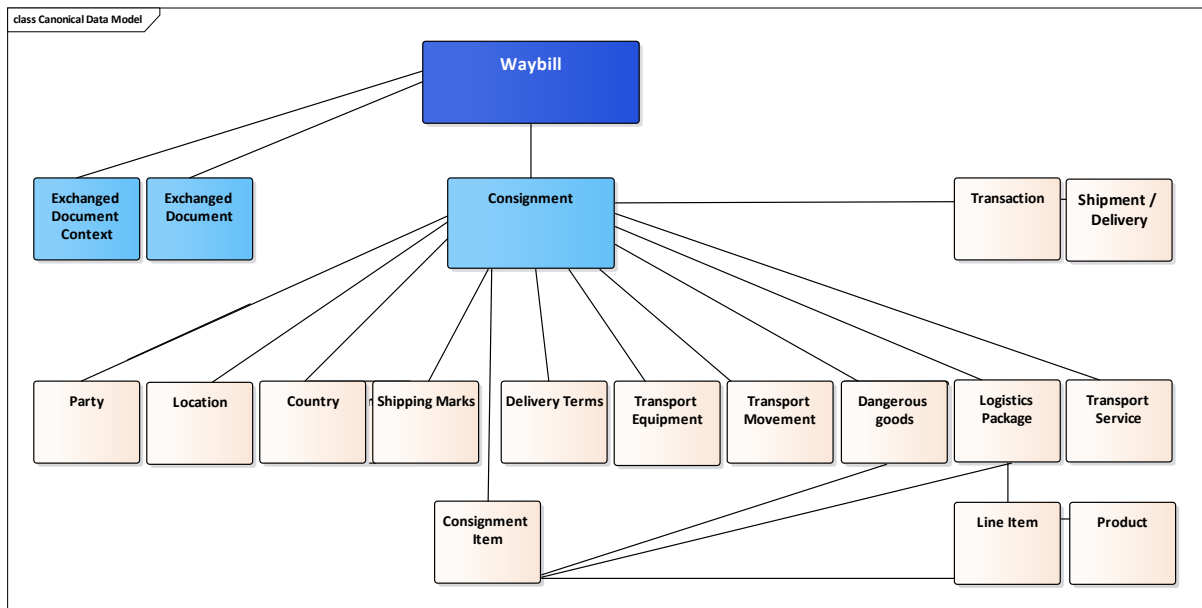


Figure 8b: Canonical Data Model - Waybill

5.3.2 Prepare Waybill (A1)

A.1 Prepare Waybill	
General	
Name	Prepare Waybill
Description	Prepare draft waybill for approval by the Transport Service Buyer
Details	
Classified to Business Areas and Process Areas	Business Area: Multi-Modal Transport Process Area: Ship
Participants and their interests	Transport Service Buyer, Transport Service Provider
Stakeholders and their interests	Carrier, Freight Forwarder, Consignor
Reference(s)	
Start / End Characteristics	
Pre-condition	<ul style="list-style-type: none"> • The Transport Service Buyer has a consignment to be transported and knows the mode of transport and the type of means of transport required for its transportation. • The consignment may be loaded into one or more specific pieces of transport equipment. • The Transport Service Provider has received an instruction to prepare a waybill
Post-condition	The Transport Service Provider has: <ul style="list-style-type: none"> • Validated the shipping instruction data • Produced a draft waybill for approval by the Transport Service Buyer
Begins When	The Transport Service Buyer sends a Shipping Instruction to the Transport Service Provider
Ends When	The Transport Service Provider returns a draft waybill to the Transport Service Buyer.
Exceptions	The Transport Service Provider requires further Information to produce a draft waybill
Relationships	
Included Business Processes	
Affected Business Processes	

Figure 9: Business Process Worksheet – Waybill Production

5.3.2 Issue Waybill (A2)

A.2 Issue Waybill	
General	
Name	Issue Waybill
Description	Issuing of the Waybill, evidencing the transport contract between the Transport Service Buyer and the Transport Service Provider
Details	
Classified to Business Areas and Process Areas	Business Area: Multi-Modal Transport Process Area: Ship
Participants and their interests	Transport Service Buyer, Transport Service Provider
Stakeholders and their interests	Carrier, Freight Forwarder, Consignor
Reference(s)	
Start / End Characteristics	
Pre-condition	The Transport Service Buyer has received a draft waybill
Post-condition	The Transport Service Buyer accepts the draft waybill as being acceptable to meet any financial, regulatory or business requirements.
Begins When	The Transport Service Buyer confirms acceptance
Ends When	The Transport Service Provider returns an approved waybill to the Transport Service Buyer.
Exceptions	The Transport Service Buyer requires amendments before the waybill can be approved and issued.
Relationships	
Included Business Processes	Shipping Instruction
Affected Business Processes	

Figure 10: Business Process Worksheet – Issue Waybill

5.3.2 Transfer of Title (A3)

A.3 Transfer of Title	
General	
Name	Transfer of Title
Description	The transfer of title of the goods from one party to another in a negotiable waybill
Details	
Classified to Business Areas and Process Areas	Business Area: Multi-Modal Transport Process Area: Ship
Participants and their interests	Transport Service Buyer, Transport Service Provider
Stakeholders and their interests	Carrier, Freight Forwarder, Original Consignee, Consignee, Bank
Reference(s)	
Start / End Characteristics	
Pre-condition	<ul style="list-style-type: none"> • The Transport Service Provider has issued a negotiable waybill • The Transport Movement is underway • Waybill must be "To Order" of the Consignee
Post-condition	The Original Consignee endorses the waybill and transfers ownership and title to the new Consignee
Begins When	The Original Consignee agrees to transfer title
Ends When	The Original Consignee has endorsed the waybill
Exceptions	
Relationships	
Included Business Processes	
Affected Business Processes	

Figure 11: Business Process Worksheet – Transfer of Title

5.3.2 Release Goods (A4)

A.4 Release of Goods	
General	
Name	Release of Goods
Description	The release of goods to the consignee completing the transport contract
Details	
Classified to Business Areas and Process Areas	Business Area: Multi-Modal Transport Process Area: Ship
Participants and their interests	Consignee, Transport Service Provider
Stakeholders and their interests	Carrier, Freight Forwarder, Transport Service Buyer, Bank, Consignee
Reference(s)	
Start / End Characteristics	
Pre-condition	<ul style="list-style-type: none"> • The Transport Service Provider has issued an approved waybill • The consignment has arrived at the contractual place of discharge • Payments due have been made as per the transport contract
Post-condition	The Transport Service Provider releases the consignment to the Consignee or nominated party
Begins When	The Consignee presents the waybill
Ends When	The Transport Service Provider releases the consignment in exchange for the waybill
Exceptions	Commercial agreements such as payment or bank approval have not been made and the consignment and waybill held to ensure completion before release
Relationships	
Included Business Processes	
Affected Business Processes	

Figure 12: Business Process Worksheet – Release Goods

5.4 Business Choreography View

5.4.1 Business Transaction View – Transactions and Authorized Roles

This document covers the intended use of the waybill, to provide clear and structured data that can be used to support the exchange of electronic waybill data between two parties to transfer title, ownership or support the settlement of financial terms.

Business Transaction Worksheet	
General	
Name	Waybill
Description	The Transport Service Provider issues a waybill to be surrendered in exchange for release of the goods
Details	
Requesting Role	Consignee
Responding Role	Transport Service Provider
Requesting Activity	Release Goods
Responding Activity	Goods Released
Is Included in (Name of Business Collaboration)	Transport Contract between Transport Service Buyer and Transport Service Provider
Start / End Characteristics	
Affected Business Entities	Waybill
Pre-condition	Payment received for Transport Movement
Post-condition	Goods Released
Begins When	Waybill is presented
Ends When	Goods are released
Exceptions	
Business Transaction Activity Details	
Business Transaction Pattern	Commercial Transaction
Requestor's Side	
Requesting Role	Transport Service Buyer or Consignor
Requesting Business Action Name	Release Goods

Business Transaction Worksheet	
Requesting Information Envelope Name	Waybill
Responder's Side	
Responding Role	Transport Service Provider
Responding Business Action	Release Goods
Responding Information Envelope Name	Waybill

Figure 13: Business Transaction Use Case Worksheet

This is described in the following activity diagram:

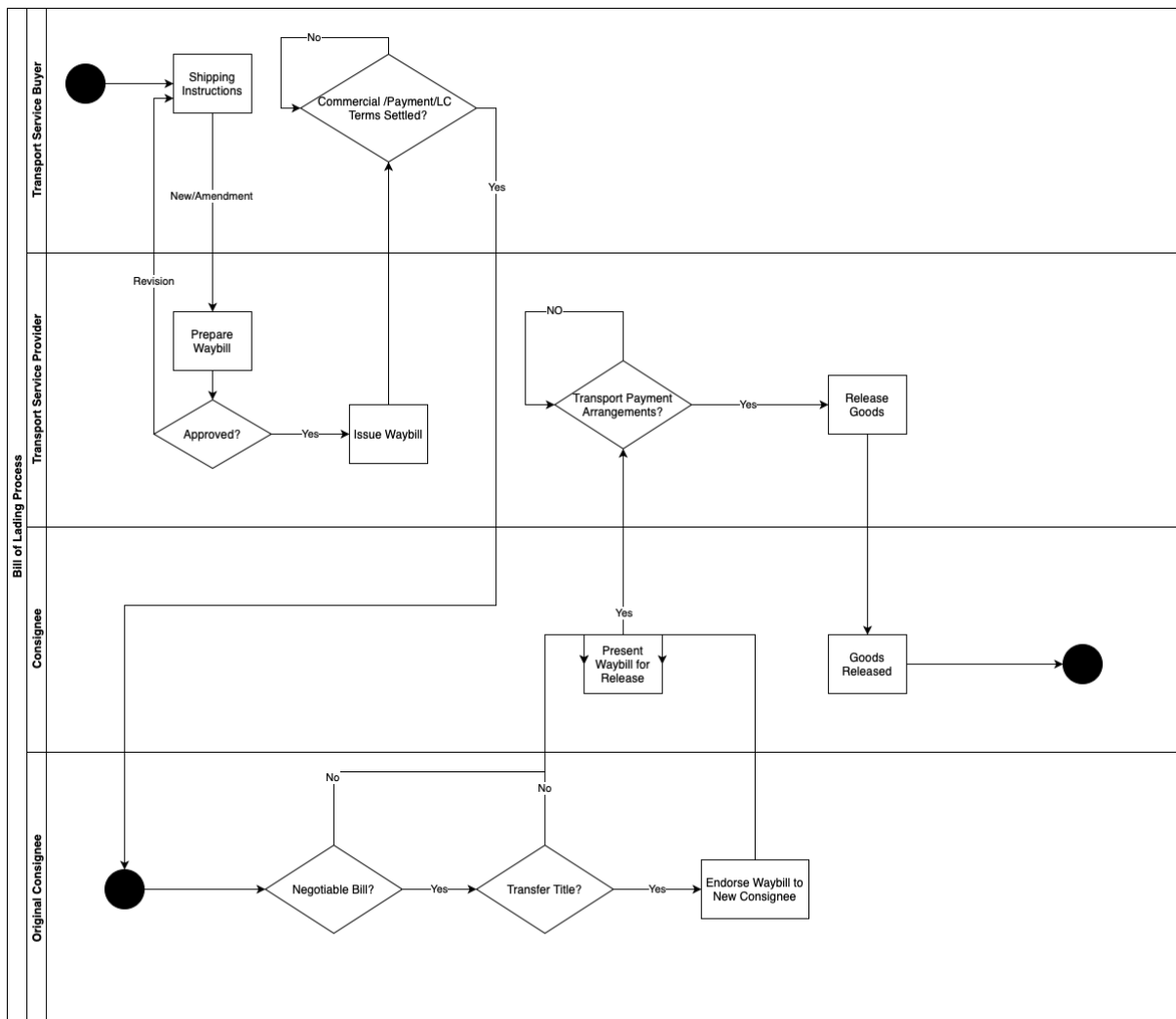


Figure 14: Business Transaction Activity Diagram