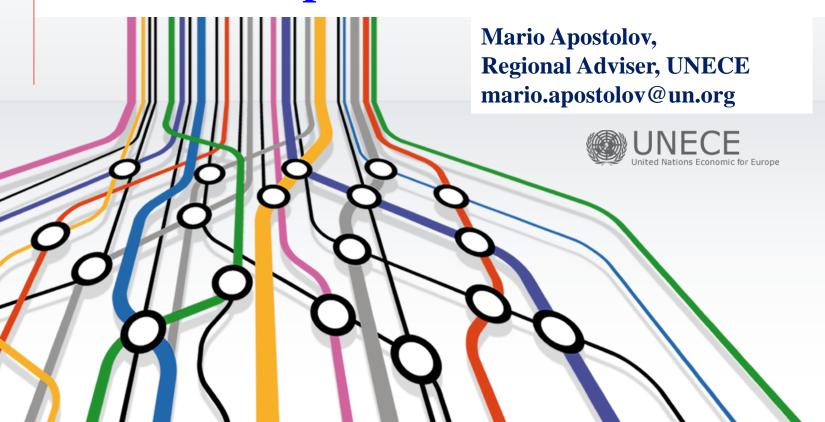
Digital interoperability using UN/CEFACT standards and reference data models and railway data and document exchange digitalization

https://unttc.org/stream/electronic-trade-andtransport-documents-and-data

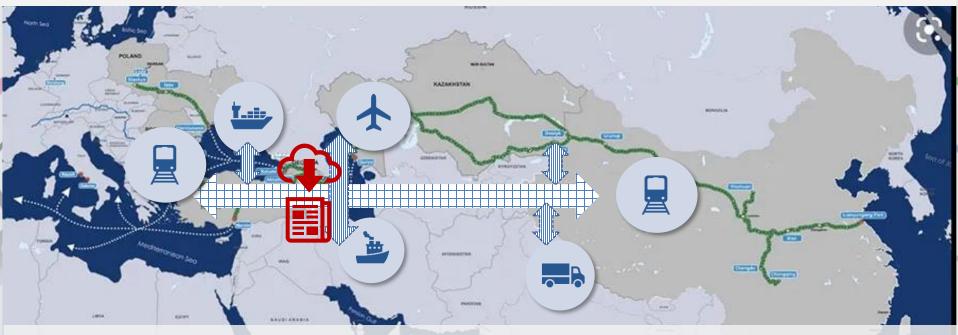






Multimodal interconnectivity: goals and next steps in the Europe-Asia corridors

- 1. Multimodal interoperability
- 2. Compatibility of cargo data exchange E. Asia W. Europe



- Legal framework: negotiations agreements e-docs recognition
- Technological neutrality suits EDI, XML, JSON API (blockchains)
- Call to all stakeholders to collaborate / use standards
- Move from documents to the exchange of data sets



For example:

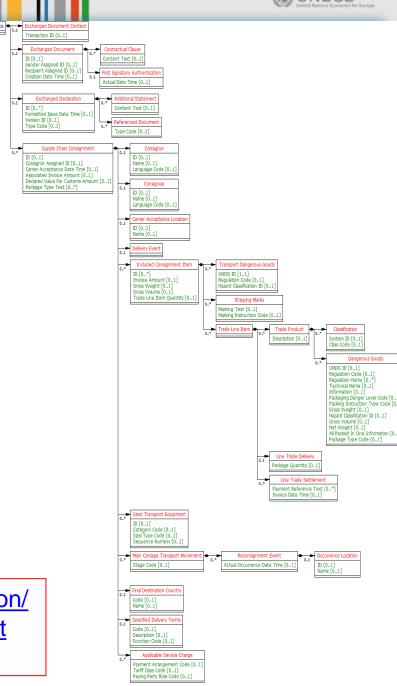
the CIM-SMGS railway consignment note referenced to the UN/CEFACT Multi-Modal Transport Reference Data Model, according to the prepared XML schema for CIM-SMGS

Subsets for the CIM-SMGS consignment note and the consignment note under UNECE's work on the Unified Railway Law (URL) developed

MS Excel and UML diagram, XSDs and html publication prepared

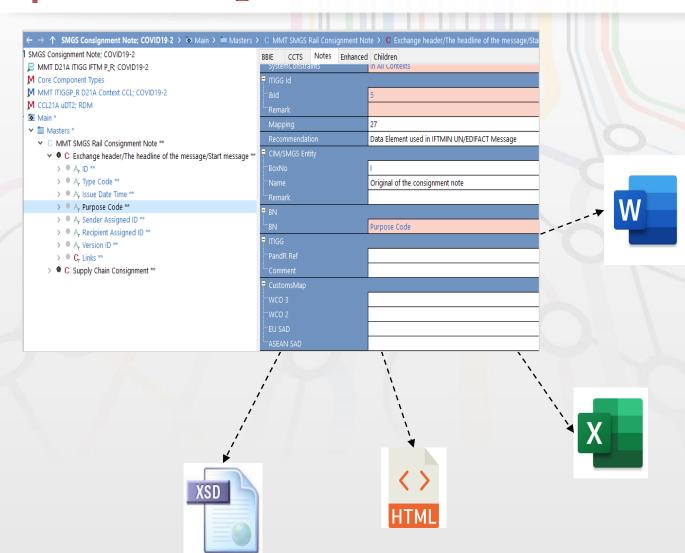
Standards for CIM/SMGS wagon list finalized

https://service.unece.org/trade/uncefact/publication/ Transport and Logistics/CIM-SMGS Consignment Note/HTML/001.htm





Reusable publication artefacts



SMGS and CIM/SMGS standard MMT-based generation of publication in various formats possible

Machine and human readbale documentation



Generating XML schemas from UN/CEFACT standards

- XML schemas are generated following UN/CEFACT Naming and Design Rules
- UN/CEFACT official syntax format output
- Generated schemas (as XSD files) can be used directly in various implementation projects
- They can also be customized to fit a particular implementation use case
- More information about UN/CEFACT semantic standards on:
 https://unece.org/trade/uncefact/mainstandards



JSON API Specifications Support for UN/CEFACT Semantic Standards and MMT RDM

- Possible adoption of UN/CEFACT technical solutions to implement railway data standards
- Exported UN/CEFACT JSON schemas can be used in any web APIs
- Support for the development of standardized UN/CEFACT web
 API implementations
- More information about UN/CEFACT semantic standards and projects can be found at:
 - **UN/CEFACT Collaboration Environment Home (unece.org)**







IFTMIN Mapping Report

XLS Guideline Structure

	TMIN UNECI		
Mapping	E	UNDA Project - Transport and Trade Connectivity in the Age	or randernic
Model:	SMGSCo	n signment Note	Standard: UN D.97A S3 Guide: edi IFTMIN
No Length	Occurrence	Element	SeN Se CDE DE St Format
001	01	ID Path: BSP Master, Details/BSP Master, Exchanged_Document/ Exchanged_Document Identification, Identifier	2 UNH S009 0065 M an6 Path: IFTMIN.UNH.S009.0065(0010:020:01)
002	01	ID Path: BSP Master. Details/BSP Master. Exchanged_Document/ Exchanged_Document. Identification. Identifier	2 UNH S009 0057 C an6 Path: IFTMIN.UNH.S009.0057(0010:020:05)
003	01	ID Path: BSP Master. Details/BSP Master. Exchanged_Document/ Exchanged_Document. Identification. Identifier	3 BGM C106 1004 C an35 Path: IFTMIN.BGM.C106.1004(0020.020:01)
004	01	Type Code Path: BSP Master. Details/BSP Master. Exchanged_Document/ Exchanged_Document. Type. Code	3 BGM C002 1001 C an3 Path: IFTMIN.BGM.C002.1001(0020:010:01)
005	01	Issue Date Time Path: BSP Master. Details/BSP Master. Exchanged_Document/ Exchanged_Document. Issue. Date Time	1 UNB S004 0017 M n6 Path: UNB.S004.0017(040:01)
006	01	Issue Date Time Path: BSP Master. Details/BSP Master. Exchanged_Document/ Exchanged_Document. Issue. Date Time	1 UNB S004 0019 M n4 Path: UNB.S004.0019(040:02)
007	01	Issue Date Time Path: BSP Master. Details/BSP Master. Exchanged_Document/ Exchanged_Document. Issue. Date Time	4 DTM C507 2380 C an35 Path: IFTMIN.DTM.C507.2380(0050:010:02)
800	01	Purpose Code Path: BSP Master. Details/BSP Master. Exchanged_Document/ Exchanged Document Purpose. Code	3 BGM 1225 C an3 Path: IFTMIN.BGM.1225(0020:030)
009	01	Sender Assigned ID Path: BSP Master. Details/BSP Master. Exchanged_Document/ Exchanged_Document. Sender Assigned_Identification. Identifier	1 UNB S002 0004 M an35 Path: UNB.S002.0004(020:01)
010	01	Recipient Assigned ID Path: BSP Master. Details/BSP Master. Exchanged_ Document/ Exchanged_ Document. Recipient Assigned_ Identification. Identifier	1 UNB S003 0010 M an35 Path: UNB.S003.0010(030:01)
011	01	Version ID	2 UNH S009 0052 M an3

6 7	d B	D	E	F	0	P	Q	
2	Unique UN Assigned ID	Business Name	CCL DEN (Dictionary Entry Name)	Definition	Occurrence Min	Occurrence Max	TDED	
2		MMT CIM-SMGS Consignment Note	BSP Master. Details					
4	UN01002487	Exchange header/The headline of the message/Start message	BSP Master. Exchanged_ Document	The header document information for a use of this master message assembly.	1	1		
6	UN01002488	n	Exchanged Document Identification Identifier	The unique identifier of this exchanged document.	0	1	(1004)	
6	UN01002491	Type Code	Exchanged Document Type Code	The code specifying the type of exchanged document.	0	1	(1001)	
7	UN01002493	Issue Date Time	Exchanged_Document Issue Date Time	The date, time, date time or other date time value for the issuance of this exchanged document.	0	1	(2007)	
8	UN01003561	Purpose Code	Exchanged_ Document. Purpose. Code	A code specifying the purpose of this exchanged document, such as request or reminder.	0	1	(1225)	
9	UN01003570	Sender Assigned ID	Exchanged_Document. Sender Assigned_ Identification. Identifier	A unique sender assigned identifier for this exchanged document.	0	1	(1004)	
10		Recipient Assigned ID	Exchanged_Document. Recipient Assigned_ Identification. Identifier	A unique recipient assigned identifier for this exchanged document.	0	1	(1084)	
	1 UN01003573	Version ID	Exchanged_ Document. Version_ Identification.	The unique identifier for the version of this exchanged	0	1	(1004)	
12	2 UN01002498	Links	Exchanged_Document. Reference. Referenced_	Other documents referenced by this exchanged document.	0	1		
13	UN01003991	ID	Referenced_ Document, Identification, Identifier	A unique identifier for this referenced document.	0	1	(1004)	
14		Reference Type Code	Referenced_Document. Reference_Type. Code	The code specifying the reference type of this referenced document.	0	1	(1153)	
15	UN01011525	Date / time / period	Referenced_ Document. Formatted_ Issue. Date Time	The formatted date or date time for the issuance of this referenced document.	0	1	(2379)	
16	UN01004159	Supply Chain Consignment	BSP Master. Specified. Supply Chain_ Consignment	A supply chain consignment specified for a use of this master message assembly.	1	1		
17	UN01004160	IO .	Supply Chain_ Consignment, Identification, Identifier	A unique identifier for this supply chain consignment.	0	1	(1202)	
18	UN01004161	Consignor Assigned ID	Supply Chain_ Consignment. Consignor Assigned. Identifier	The unique identifier assigned by the consignor to this supply chain consignment.	0	1	(1140)	
15	9 UN01004167	Sequence Number	Supply Chain_ Consignment. Sequence. Numeric	A sequence number for this supply chain consignment.	0	1	(1490)	
20		Money amount	Supply Chain_ Consignment, Total Charge, Amount	The total monetary value of all freight and other service charges for this supply chain consignment.	0	1	(5290)	
21	UN01004183	Total Collect Charge Amount	Supply Chain_ Consignment. Total Collect Charge. Amount	The total monetary value of all freight and other service charges which are to be collected from the consignee at or after delivery for this supply chain consignment.	0	1	(5398)	
22	UN01004198	Transport Equipment Quantity	Supply Chain_ Consignment. Transport Equipment. Quantity	A number of pieces of transport equipment, such as containers or similar unit load devices, in this supply chain consignment.	0	1.	(8046)	
23	UN01004212	Consignor	Supply Chain_ Consignment. Consignor. Trade_ Party	The consignor party for this supply chain consignment.	.0	1		
24	UN01004595	10	Trade_Party. Identification. Identifier	A unique identifier of this trade party.	0	unbounded	(3039)	
25	UN01004598	Name	Trade_ Party. Name. Text	The name, expressed as text, for this trade party.	0	1	(3036)	
26	UN01004602	Contact Information	Trade_ Party, Defined, Trade_ Contact	A trade contact defined for this trade party.	1	1		
24	UN01001641	D	Trade Contact Identification Identifier	The unique identifier for this trade contact.	0	- 1	(3413)	

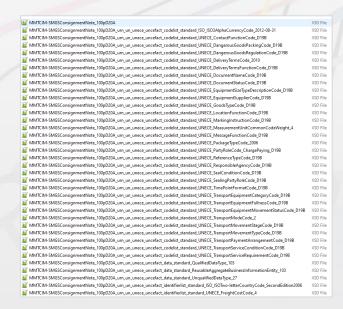


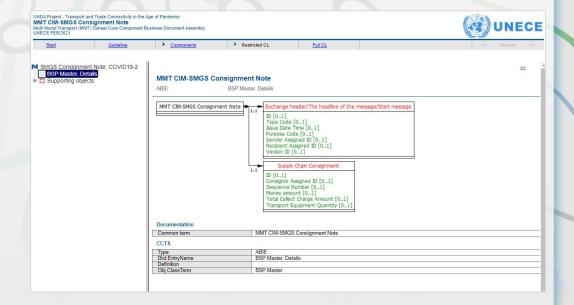


XSD schemas

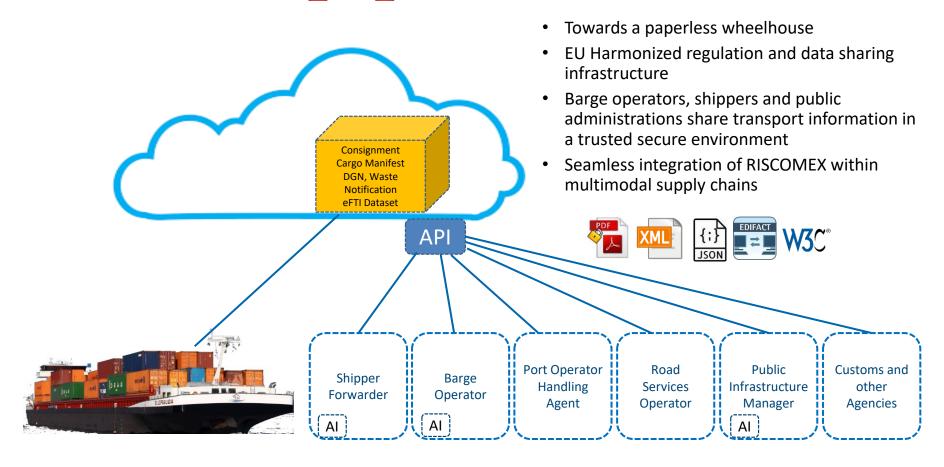


HTML publication



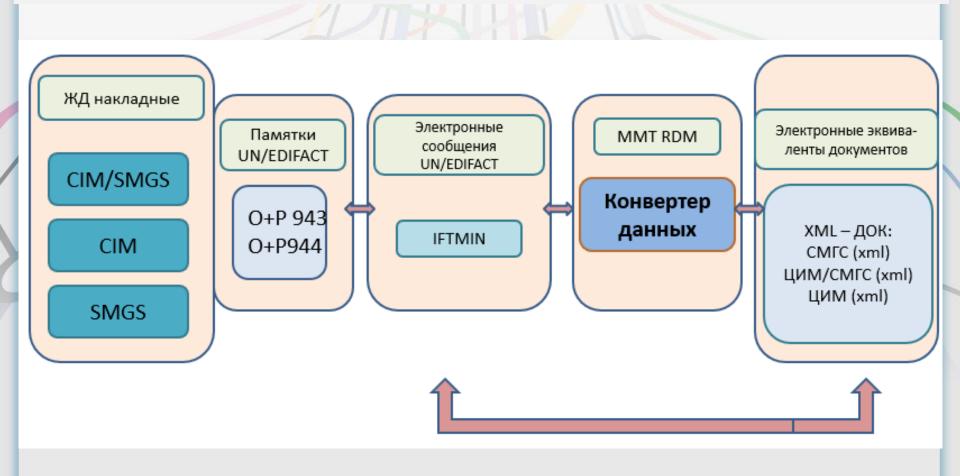


Best practice example: EU's eFTI, towards a paperless wheelhouse



Source: Rudy Hemeleers

Another example of a pilot: CONVERTER between UN/EDIFACT and the UN/CEFACT Multimodal Transport Reference Data Model (Conceptual diagram)



CIM/SMGS

CIM

SMGS

. . .

IFTMIN

Data in EDIFACT standart

NAD+CZ+X:Type++

NAME:NAME:NAME:

NAME:NAME:LNG+AD+

T5++Y+Z'

...

MMT Reference Data Models

Data Converter **XML**

<Supply Chain_ Consignment>

...

<Consignor>
<Trade_ Party>
<Identification>
<Identifier>

Consignor_Identifier

JSON

"Supply Chain_ Consignment" : {

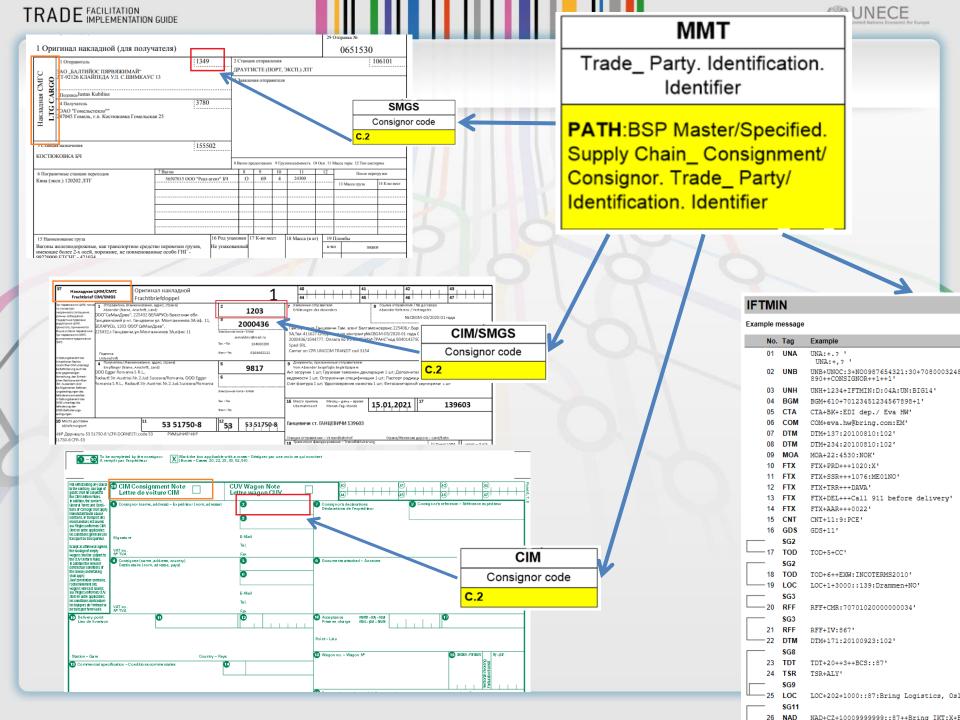
"Consignor" : {
 "Trade_ Party" : {
 " Identification" : {
 "Identifier" :

 ${\bf Consignor_Identifier}$

...

| Summary

- The analysis and re-use of the UN/CEFACT global semantic standards in various implementation projects is encouraging for achieving multimodal interoperability
- Illustrating that these data exchange standards and artefacts are easy to operate and ready to be used for implementation
- Availability of human and machine-readable artefacts
- Further guidance can be found in the brochure "Building electronic documents from MMT":
 https://cmsdroff.gitbook.io/standards-guide/building-electronic-documents-from-mmt/getting-started



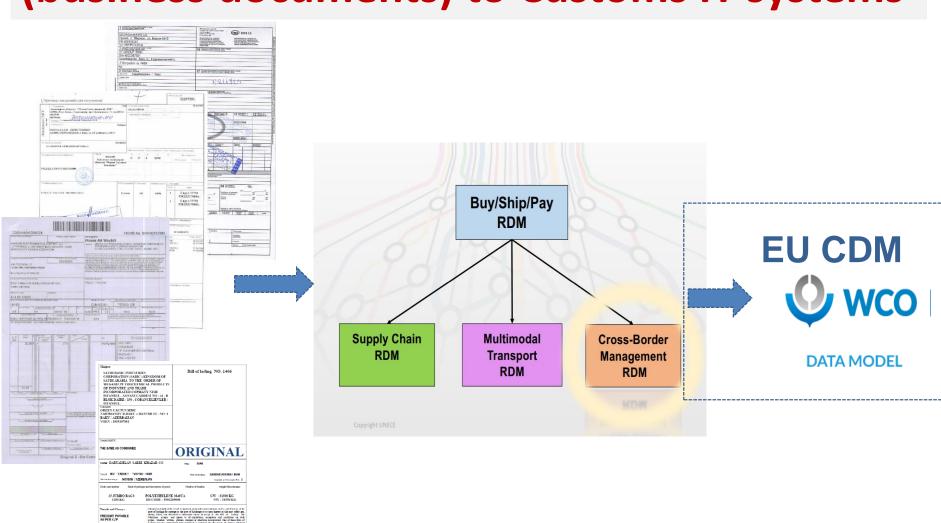


Partnerships for the standards / pilot projects:

- SMGS and CIM/SMGS consignment notes and other railway documents
- Asia-Western Europe Converter (UN/EDIFACT XML)
- IMO/FAL documents in ports
- FIATA multimodal bill of lading
- ICAO Documents/Air Cargo
- Pilot projects (digital twins) Belarus-Serbia;
 Ukraine Azerbaijan; IMO/FAL in the ports of Ukraine
- Digitalization of SMGS consignment notes in the Kazakhstan-Turkmenistan-Iran corridor is possible.



Pilot testing: mapping data from transport (business documents) to Customs IT systems



Data mapping

A	B C	D D	E	F	Т	U	V	W	Х	Y	Z	AA S.A	AB
RDM Path	Unique UN	Business Name	CCL DEN	Definition	WCO ID	WCO name	WCO	v3.11.0 WCO Path	WCO format	FUCDM name	EUCDM Format	EUCDM v6.2 EUCDM Ref ID6	EUCDM Ref XI
KDWI Faui	Assigned ID AE		(Dictionary	Delillidoli	WCOID	WCO fiame	XML		WCO Ioillat	LUCDINI IIaille	LUCDINI FUIIIat	LUCDWI Kel IDO	LUCDINI REI A
▼	Assigned ib At		Entry Name	₩			▼ Na ▼		_		·		
BSP		Mobile Telephone	Trade Contact.	The mobile	_		110	•				_	
BSP		BI Complete Number		The text string of			_						
BSP		Email Address		The email URI									
BSP	UN01001253 BE			The Uniform									
501		Road Consignment		A supply chain	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BSP Master/Specified.				A measure of the		Total gross weight	Total	Declaration/Consignment/House	n16.6	Total gross mass	n16.6	18 03 001 000	Total gross weight
BSP Master/Specified.	UN01004175 BE	Gross Volume	Supply Chain	A measure of the	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BSP Master/Specified.	UN01004181 BE	Associated Invoice		A monetary value									
BSP Master/Specified.	UN01004189 BE	I COD Amount	Supply Chain	The monetary	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BSP Master/Specified.			Supply Chain	The number of									
BSP Master/Specified.			Supply Chain	Cargo insurance									
BSP Master/Specified.			Supply Chain	The indication of									
BSP Master/Specified.			Supply Chain		30A	Consignor		Declaration/Consignment/Consig		Consignor		13 02 000 000	consignor
BSP Master/Specified.				A unique identifier		Consignor, coded	ID	Declaration/Consignment/Consig		Identification number	an17	13 02 017 000	consignorIdentifica
BSP Master/Specified.			Trade Party.	The name,	R020	Consignor - name	Nam	Declaration/Consignment/Consig	an70	Name	an70	13 02 016 000	consignorName
BSP Master/Specified.				A code specifying		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
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BSP Master/Specified.			Trade Contact.		n/a	n/a	n/a	n/a	n/a	n/a		n/a	n/a
BSP Master/Specified.			Trade Contact.	Telephone	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BSP Master/Specified.			Universal	The text string of									
BSP Master/Specified.		Mobile Telephone	Trade Contact.		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BSP Master/Specified.			Universal	The text string of									
BSP Master/Specified.			Trade Contact.		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BSP Master/Specified.				The Uniform									
BSP Master/Specified.				A note specified									
BSP Master/Specified.				A content,									
BSP Master/Specified.		Postal Address	Trade Party.	The postal	04A	Address		Declaration/Consignment/Consig		Address		13 02 018 000	consignorAddress
BSP Master/Specified.				A unique identifier		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BSP Master/Specified.				A code specifying		Postcode identification	cons	Declaration/Consignment/Consig	an17	Postcode	an17	13 02 018 021	consignorAddress
BSP Master/Specified.				A name,		Street and number/P.O. Box	Line	Declaration/Consignment/Consig		Street and number	an70	13 02 018 019	consignorAddress
BSP Master/Specified.				The name,		City name	City	Declaration/Consignment/Consig		City	an35	13 02 018 022	consignorAddress
BSP Master/Specified.				The unique		Country	Coun		a2	Country	a2	13 02 018 020	consignorAddress
BSP Master/Specified.					n/a	n/a	n/a	n/a	n/a	n/a		n/a	n/a
BSP Master/Specified.				A name,		Country sub-entity name	Coun	Declaration/Consignment/Consig		Sub-division	an35	13 02 018 027	consignorAddress
BSP Master/Specified.				A tax registration The unique		n/a	n/a n/a	n/a	n/a	n/a n/a	n/a	n/a	n/a
BSP Master/Specified.					n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BSP Master/Specified.				A governmental An identifier for									-
BSP Master/Specified.													-
BSP Master/Specified.				A code specifying									-
BSP Master/Specified. BSP Master/Specified.				The identifier of The consignee	27A	Consignee		Declaration/Consignment/Consig		Canaianaa		13 03 000 000	
				A unique identifier			cons		an 25	Consignee Identification number	on 17	13 03 000 000	a a mai a ma a lala antifi a
BSP Master/Specified. BSP Master/Specified.				A unique identifier The name.	R015	Consignee, coded Consignee name	ID Nam	Declaration/Consignment/Consig Declaration/Consignment/Consig		Name	an17	13 03 017 000	consigneeldentific
BSP Master/Specified. BSP Master/Specified.				A code specifying						n/a		n/a	n/a
BSP Master/Specified.					n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a		n/a	n/a n/a
BSP Master/Specified.					n/a n/a	n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a		n/a	n/a n/a
BSP Master/Specified. BSP Master/Specified.									n/a n/a			n/a	
		Bl Complete Number	Trade Contact.	Telephone The text string of	n/a	n/a	n/a	n/a	II/a	n/a	n/a	II/a	n/a

Data mapping

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Thank you!

Mario Apostolov
Regional Adviser
Economic Cooperation and Trade Division
UN Economic Commission for Europe
tel. +41 22 9171134

e-mail: mario.apostolov@un.org