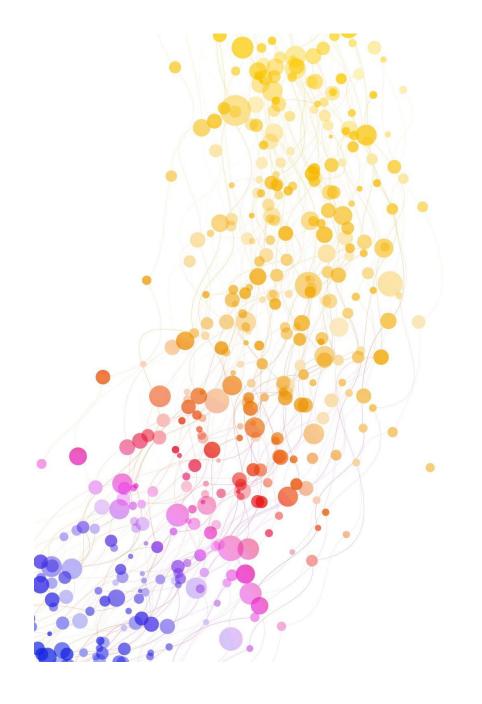
# Development of Electronic e-CIM/SMGS Consignment Notes

Enhancing Interoperability Across TRACECA Routes

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## Introduction



### **Current Situation:**

Countries along the TRACECA routes currently exchange consignment note data in various formats: SMGS, CIM, or CIM/SMGS, with some utilizing IFTMIN standards for electronic copies of SMGS.



### The Need for Standardization:

Importance of adopting a single, standardized electronic format for these documents to streamline processes and enhance efficiency across borders.

# Objectives



Adoption of UN/CEFACT Standards:

Implement UN/CEFACT standards to ensure universal compatibility and easy integration for seamless data sharing.



Development of a Prototype:

Create a prototype of an electronic CIM/SMGS consignment note that is testable and scalable, serving as a practical model for future system-wide adoption.



Facilitate Multimodal Transport and Simplify Data Exchange:

Promote easier exchange of data in a standardized format across countries to support multimodal transport.

### Review and Guidance

# Engagement with UN/CEFACT Experts

Collaborate with experts for deep insights.

# Practical Application and Implementation

• Transition from theory to practice in applying UN/CEFACT standards.

### Special Thanks

• Thanks to Mr. Kagisho Ramatsa and Ms. Sue Probert for their significant contributions.

# Collaboration and Information Exchange

### **Key Collaborations:**

- Azerbaijan and Türkiye: Provided foundational SMGS and CIM/SMGS PDFs.
- Kazakhstan: Shared IFTMIN examples for mapping.
- Georgia: Contributed with SMGS PDFs for integration.

### **Mapping Process:**

- Converted PDFs to electronic CIM/SMGS (e-CIM/SMGS).
- Shared mappings with the working group for collective insight.

### Outcome:

- Unified electronic standard developed from diverse data formats.
- Enhanced project through international cooperation and data sharing.

# Prototype Development

# Technical Specifications:

• Built using XSD/XML schemas for flexibility and interoperability.

# UN/CEFACT Standards Alignment:

• Ensures global compatibility and adherence to best practices in data exchange.

# Upcoming Testing and Refinement:

• Initial testing with partners for feedback, leading to continuous improvements.

## XML example

```
(663404) - Almaty 1, KZH (700007)
       </ram:PackageType>
<ram:ContractTermsInformation languageID="XXXXXXXXXXX" languageLocaleID="XXXXXXXXXXX">XXXXXXXXXXXXXXX

      <ram:Name languageID="XXXXXXXXXXX">PAS F K EURAS A LOJ ST K DI T C. A
           <ram:LanguageCode listAgencyID="5">aa</ram:LanguageCode>
<ram:DefinedTradeContact>
              <ram:ID>XXXXXXXXXX</ram:ID>
              <ram:PersonName>XXXXXXXXXX
              <ram:DepartmentName>XXXXXXXXXX
              <ram:TypeCode listAgencyID="6">EB</ram:TypeCode>
              <ram:AuthorizedPersonName languageID="XXXXXXXXXXX" languageLocaleID="XXXXXXXXXXX">XXXXXXXXXXXXXX//ram:AuthorizedPersonName><ram:TelephoneUniversalCommunication>
                  <ram:CompleteNumber languageID="XXXXXXXXXXX">03122844772/ram:CompleteNumber>
                  <ram:CompleteNumber languageID="XXXXXXXXXXXX">03122854780/ram:CompleteNumber>
                  <ram:URIID schemeID="XXXXXXXXXX" schemeAgencyID="XXXXXXXXXX">g.ozer@pasifikeurasia.com.tr/ram:URIID>
              <ram:PostcodeCode>XXXXXXXXXX</ram:PostcodeCode>
              <ram:StreetName>Kizilirmak mah. Dumlupinar Bulv.No:3</ram:StreetName>
              <ram:CityName>Ankara/ram:CityName>
              <ram:CountryID schemeAgencyID="5">TR</ram:CountryID>
              <ram:CountrySubDivisionName>XXXXXXXXXX</ram:CountrySubDivisionName>
<ram:BuildingNumber languageID="XXXXXXXXXXX">3</ram:BuildingNumber>
           <p
              <ram:Name languageID="XXXXXXXXXXX">XXXXXXXXXX</ram:Name>
              <ram:TransportPaymentMethodCode listAgencyID="XXXXXXXXXXX" listAgencyName="XXXXXXXXXXX" listName="XXXXXXXXXXXX" languageID="XXXXXXXXXXX" listURI="http://www.w3.org/TR/xmlschema-0/" listSchemeURI</pre>
              ="http://www.w3.org/TR/xmlschema-0/">XXXXXXXXXXXXX</ram:TransportPaymentMethodCode>
           <ram:ID schemeAgencyID="XXXXXXXXXX">340011
           <ram:Name languageID="XXXXXXXXXXX">TOO IP HAMLE KOMPANY LTD
          <ram:LanguageCode listAgencyID="5">AZ</ram:LanguageCode>
<ram:DefinedTradeContact>
              <ram:ID>XXXXXXXXXX/ram:ID>
              <ram:PersonName>XXXXXXXXXX</ram:PersonName>
<ram:DepartmentName>XXXXXXXXXXXX</ram:DepartmentName>
            </amiDepartmentName>
</am
                  <ram:URIID schemeID="XXXXXXXXXXX" schemeAgencyID="XXXXXXXXXXX">XXXXXXXXXXX/ram:URIID>
```

# Explanation of XML fields

								·	Country Usage				
rrence Vin	Occurrence Max 🔻	MMT Business Name	MMT Dictionary Entry Name	MMT Definition	UNTDED Reference	CIM/SMGS Name (EN/RU)	CIM/SMGS Box No.	Example Notes	Azerbai	Georg	Türki	Ukrai	
0	1	Value Text	Document Context Parameter, Value, Text	The value, expressed as text, of this document context parameter.		код организации, контролирующее содержание сообщения							
,	1	Version	Document Context_ Parameter. Specified. Document_ Version	The document version specified for this document context parameter.									
	1	ID	Document Version, Identification, Identifier	The unique identifier for this document version.		тип сообщения							
	1	Name	Document Version. Name. Text	The name, expressed as text, of this document version.		справочный номер сообщения (уникальный номер, присваиваемый отправителем сообщения)							
		Hamo	Bootinett_ Voision. Hame. Text	The header document information for a use of this master	r	присваньаемый отправителем сосощения)							
	1	Exchanged Document	BSP Master. Exchanged_ Document	message assembly.									
	1	ID	Exchanged_ Document. Identification. Identifier	The unique identifier of this exchanged document.	(1004)	Идентификация отправки				х			
)	1	Type Code	Exchanged_ Document. Type. Code	The code specifying the type of exchanged document.	(1001)	Накладная ЦИМ/СМГС				x			
)	1	Status Code	Exchanged_ Document. Status. Code	document.	(1373)	Дата заключения договора перевозки из накладной,						+	
	1	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.	(2007)	оформленной на основную часть груза, условные данные				x			
	1	Language Code	Exchanged_ Document. Language. Identifier	A unique identifier for a language used in this exchanged document.	[3453]								
	1	Purpose Code	Exchanged_ Document. Purpose. Code	A code specifying the purpose of this exchanged document, such as request or reminder.	(1225)	Original of the consignment note	ı			x		1	
	1	Amendment Purpose Code	Exchanged_ Document. Amendment_ Purpose. Code	A code specifying a purpose of an amendment to this exchanged document.	(1225)	Статус перевозки в соответствии с Рекомендациями ООН №24 = X:							
	bassadad	Amendment Purpose Text	Exchanged Document, Information, Text	Information, expressed as text, for this exchanged document.	(4142)								
	unbounded	Sender Assigned ID	Exchanged_ Document. Sender Assigned_ Identification.  Identifier	A unique sender assigned identifier for this exchanged document.	(1004)					x			
	<u>'</u>	Serider Assigned ID	Exchanged Document. Recipient Assigned Identification.		(1004)							+	
	1	Recipient Assigned ID	Identifier	document.  The unique identifier for the version of this exchanged	(1004)					x		-	
	1	Version ID	Exchanged_ Document. Version_ Identification. Identifier	document.	(1004)					x			
)	unbounded	Note	Exchanged_ Document. Included. Note	A note included in this exchanged document.	` '								
	1	Content Code	Note. Content. Code	A code specifying the content of this note.	(4441)								
ı	1	Content Text	Note. Content. Text	A content, expressed as text, of this note.	(4440)	Other information (non-binding on the carrier)	15	NOT FY: TOO IP HAMLE KOMPANI LTD. ABLAYHANA 3A, KASKELEN CITY, 040900, ALMATY REGION, KAZAKHSTAN FAX: +7 727 300 2854 MOBILE NO: +7 701 765 23 75	x	x x	x		
	unbounded	Subject Code	Note. Subject. Code	A code specifying the subject of this note.	(4451)					x			
				Other documents referenced by this exchanged									
1	unbounded	Reference Document	Exchanged_ Document. Reference. Referenced_ Document	t document.	_								
0	1	Type Code	Referenced Document. Type, Code	The code specifying the type of referenced document.	(1001)	Documents attached by the consignor	9	the trading pier of JSC KTZ Express for the KMTF feeder - JSC KTZ Express. KTF NO: 22041900GC10021 BEYANNAME: 22410100EX00000966 The wagon does not belong to the carrier. Own park. After unloading, empty wagons should be registered at the Althynkol station. On the territory of Georgia, Azerbaijan on inventory wagons. After unloading, the wagons are handed over to the carrier. The execution of the transit declaration for the kzh is carriedout by JSC*KTZ Express**KTZE-Zapadny*.	^	x	x		
)	1	Type Code					9	Express "KIZE-Zapadny".				+	
	1	IU	Referenced_ Document. Identification. Identifier	A unique identifier for this referenced document.	(1004)	Номер договора						+-	
)	1	Reference Type Code	Referenced_ Document. Reference_ Type. Code	The code specifying the reference type of this referenced document.  The formatted date or date time for the issuance of this	(1153)							_	
		Date / time / period	Referenced Document Formatted Issue Date Time	referenced document	(2379)								

									С	ountry Usage	9		1
Occurrence Max	MMT Business Name	MMT Dictionary Entry Name	MMT Definition	UNTDED Reference	CIM/SMGS Name (EN/RU)	CIM/SMGS Box No.	Example Notes	Azerbai	Georg	Kazakhs	Türki	Ukrai	
unbounded	Package Type Text	Supply Chain_ Consignment. Package Type. Text	A type of package, expressed as text, for this supply chain consignment.	(7014)	Packaging	20	Kyasik (exp.) (558701) - Baku Trade Pier (547209) - Aktau-Port perev. Exp. (663404) - Almaty 1, KZH (700007)						
ınbounded	Contract Terms Text	Supply Chain_ Consignment. Contract Terms_ Information. Text	Information related to contract terms and conditions, expressed as text, for this supply chain consignment.		Договор с клиентом или применяемый тариф								
	Total Tare Weight	Supply Chain_ Consignment. Total Tare Weight. Measure	expressed as text, for this supply chain consignment.		договор с наментом изи применяющим гариф								
unbounded	Total Gross Weight	Supply Chain_ Consignment. Total_ Gross Weight. Measure											
1	Consignor	Supply Chain_ Consignment. Consignor. Trade_ Party	The consignor party for this supply chain consignment.	_	Consignor (name, address, country)	1	_						
ınbounded	ID	Trade_ Party. Identification. Identifier	A unique identifier of this trade party.	(3039)	Код отправителя Customer code for the consignor	2	3629039	x	×	×	x		
					Наименование отправителя		PAS F K EURAS A LOJ ST K DI T	x		x	×		
		Trade_ Party. Name. Text	A name, expressed as text, for this trade party.	(3036)	Consignor name	1	C. A	^	^	^	^		
nbounded	Language Code	Trade_ Party. Language. Code	A code specifying a language for this trade party.	[3453]									
1	Contact Information	Trade_ Party. Defined. Trade_ Contact	A trade contact defined for this trade party.										
1	ID Down Name	Trade_ Contact. Identification. Identifier	The unique identifier for this trade contact.	(3413)								-	
		Trade_ Contact. Person Name. Text	A name, expressed as text, of this trade contact person.  A name, expressed as text, of the department to which this	(3412)	Контактная информация об отправителе								
unbounded	Department Name	Trade_ Contact. Department Name. Text	trade contact belongs within an organization.	(3412)									
1	Type Code	Trade_ Contact. Type. Code	The code specifying the type of trade contact.	(3139)								-	
1	Authorized Person Name	Trade_ Contact. Authorized_ Person Name. Text	The name, expressed as text, of the authorized person for this trade contact.		Подпись отправителя								
			Telephone communication information for this trade										
1	Telephone	Trade_ Contact. Telephone. Universal_ Communication	contact.  The text string of characters that make up the complete	•		7	•			x	x		
1	Complete Number	Universal_ Communication. Complete Number. Text	number for this universal communication.	(3148)	Tel.	1	03122844772	^	^	_ ^	^		
1	Fax	Trade_ Contact. Fax. Universal_ Communication	Fax communication information for this trade contact.  The text string of characters that make up the complete	,		-	,				×		
1	Complete Number	Universal_ Communication. Complete Number. Text	number for this universal communication.	(3148)	Fax	1	03122854780	X		×	×		
1	Email Address	Trade_ Contact. Email_ URI. Universal_ Communication	The email URI communication information for this trade contact.				nfo@pasifikeurasia.com						
1	URI	Universal Communication. URL Identifier	The Uniform Resource Identifier (URI), such as a web or an email address, for this universal communication.	(3148)	E-mail	1	g.ozer@pasifikeurasia.com.tr	×		×	x		
1	Contact Address	Trade_ Party. Postal. Trade_ Address	The postal address for this trade party.										
1	Postcode	Trade_ Address. Postcode. Code	A code specifying the postcode of this trade address.	(3251)	почтовый адрес Address	1		×	x	×	x		
inbounded	Street Name	Trade Address. Street Name. Text	A name, expressed as text, of a street or thoroughfare for this trade address.	,	Улица Address	1	Kizilirmak mah. Dumlupinar Bulv.No:3	×	x	x	x		
unbounded	City Name	Trade Address. City Name. Text	The name, expressed as text, of the city, town or village of this trade address.	(3164)	Город Address	1	Ankara	x	х	x	х		
1	Country Code	Trade_ Address. Country. Identifier	The unique identifier of a country for this trade address.	[3207]	Код страны Country	1	TR	x	x	x	x		
ınbounded		Trade_ Address. Country Sub-Division Name. Text	A name, expressed as text, of the sub-division of a country for this trade address.	(3228)	Address	1							
1	Building Number	Trade Address. Building Number. Text	The building number, expressed as text, in this trade address.	(3220)	Address	'	2			x	x		
	Authoritative Signatory Person	Trade_ Party. Specified. Authoritative Signatory_ Person	A person specified to sign on behalf of this trade party.				3						
1			The name, expressed as text, of this authoritative	(0.140)									
	Name Logistics Service Charge	Authoritative Signatory_ Person. Name. Text Trade_ Party. Applicable. Logistics_ Service Charge	signatory person.  A logistics service charge applicable to this trade party.	(3412)									
1			The code specifying the category of this logistics service	(5227)									
1	Category Code	Logistics Service Charge Category. Code	charge [Reference United Nations Code List (UNCL) 5237].  The code specifying the transport payment method for this	(5237)						x			
1	Transport Payment Method Code Consignee	Logistics_ Service Charge. Transport Payment Method. Cod Supply Chain_ Consignment. Consignee. Trade_ Party		(4215)	Consigned (name address country)	- 4							
	Consignee	Supply Chain_ Consignment. Consignee. Irade_ Party	The consignee party for this supply chain consignment.		Consignee (name, address, country)	, 4	•						
unbounded	ID	Trade_ Party. Identification. Identifier	A unique identifier of this trade party.	(3039)	Код получателя Customer code for the consignee	5	340011	×	x	x	x		
		Trade_ Party. Name. Text	A name, expressed as text, for this trade party.	(3036)	наименование получателя Consignee name	4	TOO IP HAMLE KOMPANY LTD	×	x	х	x		
unbounded	Language Code	Trade_ Party. Language. Code	A code specifying a language for this trade party.	[3453]			AZ						

#### MMT CIM/SMGS Consignment Note mapping to IFTMIN



#### UNECE - UN/CEFACT MMT CIM/SMGS Consignment Note TRACECA Pilot Project

#### Mapping

Model: CIM-SMGS Consignment Note

Standard: UN D.23A Guide: **32166039** 

No	Length	Occurrence	Element	SeN	Se	CDE	DE	St	Format	Example
001		0 1	ID Path: BSP Master. Details/BSP Master. Exchanged_ Document/ Exchanged_ Document. Identification. Identifier (1004)	2	UNH Path:	S009 IFTMIN.U	<b>0065</b> NH.S009	M .0065(	an6 0010:020:01	IFTMIN I)
002		0 1	ID Path: BSP Master. Details/BSP Master. Exchanged_ Document/ Exchanged_ Document. Identification. Identifier (1004)	2	UNH Path:	S009 IFTMIN.U	<b>0057</b> NH.S009	C .0057(	an6 0010:020:05	OSJD 5)
003		0 1	ID Path: BSP Master. Details/BSP Master. Exchanged_ Document/ Exchanged_ Document. Identification. Identifier (1004)	3	BGM Path:		<b>1004</b> GM.C106	C .1004(	an70 0020:020:0	10041228 1)
004		0 1	Type Code Path: BSP Master. Details/BSP Master. Exchanged_ Document/ Exchanged_ Document. Type. Code (1001)	3	BGM Path:		<b>1001</b> GM.C002	C :.1001(	an3 (0020:010:0	722 1)
005		0 1	Issue Date Time Path: BSP Master. Details/BSP Master. Exchanged_ Document/ Exchanged_ Document. Issue. Date Time (2007)	1	UNB Path:	<b>S004</b> UNB.S004	<b>0017</b> 4.0017(04	M l0:01)	n8	00230906
006		0 1	Issue Date Time Path: BSP Master. Details/BSP Master. Exchanged_ Document/ Exchanged_ Document. Issue. Date Time (2007)	1	UNB Path:	<b>S004</b> UNB.S004	<b>0019</b> 4.0019(04	M 10:02)	n4	1056
007		0 1	Issue Date Time Path: BSP Master. Details/BSP Master. Exchanged_ Document/ Exchanged_ Document. Issue. Date Time (2007)	4	DTM Path:	C507 IFTMIN.D	<b>2380</b> TM.C507	C .2380(	an35 0050:010:02	202309051309 2)
800		01	Purpose Code Path: BSP Master. Details/BSP Master. Exchanged_ Document/ Exchanged_ Document. Purpose. Code (1225)	3	BGM Path:	IFTMIN.B	<b>1225</b> GM.1225	C (0020:	an3 030)	4
No	Length	Occurrence	Element	SeN	Se	CDE	DE	St	Format	Example

Legend: No=Consecutive Number, SeNo=Segment Number, Se=Segment, CDE=Composite Data Element, DE=Data Element, St=Status Status indicators: M=Mandantory, C=Conditional, R=Required, O=Optional, D=Depending, A=Advised, N/X=Not used

Page:

# Conclusion and Future Directions



### **Project Achievements:**

Developed the e-CIM/SMGS prototype adhering to UN/CEFACT standards.

Resolved data mapping challenges for seamless integration between SMGS and CIM/SMGS formats.

Fostered international collaboration, refining the prototype with partner feedback.



### **Impact on Multimodal Transport:**

The prototype supports the future of multimodal transport, enabling efficient data sharing across global standards.



### **Next Steps:**

Launch extensive testing of the prototype.

Continue improvements based on feedback.

Expand implementation and explore integration into global supply chains.