Freight Forwarders Training Courses

for Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan

Module 6 Rail Transport



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Acronyms and Terms

AGC	:	European Agreement on Main International Rail Routes
AGTC	:	European Agreement on Important International Combined
		Transport Lines and Related Installations
CEEC	ť	Central and Eastern European Countries
CER	:	Community of European Railways
CIF	5	Cost, Insurance and Freight
CIM	1	Contract for International Carriage of Goods by Rail -
		International Consignment Note of COTIF
COTIF	1	Convention concerning International Carriage by Rail
СТ	£	Combined transport
DIUM	:	Uniform Distance Table for International Freight Traffic
EC	:	European Commission
ECO	:	Economic Cooperation Organisation (Islamic states)
ERA	£	European Railway Agency
EU	:	European Union
FBL	:	FIATA bill of lading
FCL	:	Full container load
FOB	:	Free on Board
MLA	:	Basic Multilateral Agreement of TRACECA
MTT/ETT	:	International Transit Tariff (Russian abbreviation) of OSJD
		members
NIS	:	New Independent States (former CIS)
NHM	:	Harmonised Commodity Code - Harmonised System (HS)
OSJD	:	Organisation for Railways Cooperation
OTIF	:	Intergovernmental Organisation for International Carriage by
		Rail
RID	:	Regulations concerning the International Carriage of
		Dangerous Goods by Rail
RIV	:	Agreement governing the Exchange and Use of Wagons
		between Railway Undertakings
		RIC: same, but for passenger coaches
SMGS	:	Convention concerning the International Carriage of Goods by
		Rail - Agreement on International Rail Freight
		Communications, by OSJD
TEU	:	Twenty-foot equivalent unit (container)
TRACECA	1	Transport Corridor Europe - Caucasus - Asia
TAR	5	Trans - Asian Railway
UIC	:	International Union of Railways

UIRR	:	International Union of Combined Road - Rail Transport
		Companies
UNECE	:	United Nations Economic Commission for Europe
UNESCAP	:	United Nations Economic and Social Commission for Asia and
		the Pacific

6 RAIL TRANSPORT

6.1 Introduction: Advantages and Disadvantages of Rail Transportation

Learning objectives:

The applicant should be aware of general advantages and disadvantages of rail transportation

Rail Transport

Ad	Advantages		Disadvantages	
•	increased security of cargo (especially in areas such as Central Asia)	•	interoperability problems (gauges, platforms, signaling systems, voltage, data exchange, operational	
•	capability to transport large and heavy volumes of cargo over long distances (>200 km) at low unit cost	•	rules) relatively low (in comparison to road) network density and door-to-	
•	efficient operations in a multi-modal environment faster (with respect to sea) on some	•	door capability variations in technical / operational characteristics along rail route	
•	routes cheaper (with respect to road) in most cases	•	sections and missing links severe delays (in some cases) at border crossings	
•	operations usually not affected by weather conditions	•	no single agent for door-to-door transport and intervention of several	
•	reliability of operations (in most cases) effectiveness in regular	•	rail operators / networks in international and transit transports tariffs differentiations and complex	
	consignments - block trains / full train loads	•	structures -no single bill of lading low commercial speed in most lines necessity of two intermediate handling phases in the majority of cases (departure + destination rail yards), unless private sidings are used expensive in short distances	
		•	limitations to standardized units fitting with load gauge profile restrictions	

For examples of best practices but also of malfunctions on railways see Annex 1 for examples of Best Practices.

Test Questions

Please indicate whether the statement is right / wrong:

- a. Rail transport is expensive in short distances. (right)
- b. Rail transport makes efficient operations in a multi-modal environment possible. (right)
- c. Rail transport is cheaper and faster than road transport (wrong)
- d. The rail network makes door-to-door transportation possible. (wrong)
- e. There is a low commercial speed in most rail lines. (right)
- f. An unitized tariff is widely-used in rail transport. (wrong)

6.2 Legal requirements of Rail Transport

Learning objectives:

The applicant should be aware of the main international organisations of rail transportation and their objectives. The applicant should be aware of the liability of the rail carrier according to CIM Uniform Rules and the Rules of the SMGS.

Major Actors involved in Rail Transport

Learning objectives:

The applicant should be aware of main international organizations that regulate rail transportation.

Name	Main Objectives	Members	Internet link
International Union of Railways (UIC)	 developing and forwarding specifications and standards to standardisation bodies, acting as a technical platform to support the work of railway associations, heading international rail cooperation projects, defining provisions and recommendations for its members, concluding agreements with intergovernmental organisations and other trade organisations responsible for transport 	177 members (railway undertakings) in 94 countries	http://www.uic.a sso.fr/apropos/O verview.html
Intergovernmental Organisation for International Carriage by Rail (OTIF)	 enforcing COTIF (Conventions concerning International Carriage by Rail) and the Protocol of Vilnius widening the scope of COTIF and harmonizing with other transport legislations in order to facilitate in the longer term through carriage by 	42 States, e.g. countries of the EU, Ukraine, Turkey; Tunis, Syria, Macedonia,	http://www.otif.o rg/html/e/pres_in fo_generales.php

	rail under a single legal regime from	Morocco	
	the Atlantic to the Pacific	former	
	 facilitation of border crossing in 	Vugoslavia	
	international rail transport	Iran Iraa	
	 narticination in the preparation of 	Algeria	
	other international conventions	Albania	
	concerning rail transport within	ritouniu	
	UN/ECE and Unidroit		
	• ongoing undering of the regulations		
	• ongoing updating of the regulations		
	goods (RID)		
Organisation for	developing international transport by	Former	http://www.osid.
Railway	rail especially between Europe and	USSR.	org/r-index.htm
Cooperation	Asia	Albania, Iran.	(in Russian only)
(OSJD)	 developing the common strategy for 	former	(
	international transport by rail	Yugoslavia,	
	harmonising international legal	China; Cuba;	
	framework for rail transport	North Korea,	
	 cooperation in problems regarding 	Vietnam	
	rail transport		
	technical cooperation		
	cooperation with other international		
	organisations involved in rail		
	transport		
European	Adoption of an international E-rail	24 countries,	http://www.unec
Agreement on	network consisting of main lines and	of which 14	e.org/trans/conve
Main International	supplementary lines and	countries from	ntn/agc ale.pdf
Rail Lines (AGC)	establishment of a coordinated plan	EU-25,	
	for development and construction of	Bulgaria,	
	rail lines of major international	Romania,	
	importance at set technical /	Turkey,	
	operational characteristics	Moldova,	
		Ukraine,	
		Russia,	
		Belorussia	

UNECE	Development of Euro-Asian transport	http://www.unec
	links	e.org/trans/main/
	 Organisation of pilot runs of 	sc2/sc2.html
	container block trains in Euro-Asian	
	corridors	
	• Facilitation of border crossing in	
	international rail transport	
	 Productivity in rail transport 	
	• Determination of rail infrastructure	
	capacity	
	Interoperability and harmonization of	
	conditions of different rail systems	
	(OTIF - OSJD).	
	Trans European Rail Project.	
	• AGC	

Some countries are members both of the OTIF and of the OSJD, these are shown in the figure below.



Both organizations work on a merger of both systems. For information about the unification of transport law please read the following text:

CONFERENCE ON INTERNATIONAL RAIL TRANSPORT LAW - JOINT DECLARATION

The international "Conference on International Transport Law" was organized on 21 - 22 October 2003 in Kiev with the aim of finding possible means of bridging the gap between two international rail transport law systems - namely that of OSJD (or OSZhD) and that of OTIFparticularly in the area of freight transport.

The Conference has established that CEESs that will become members of the EU, as well as the CIS States, should direct their attention firstly to improving the legal basis of transiting transport in order to create favorable conditions to attract additional transport to exclude the possibility of a new dividing line coming into being between the EU and CIS States.

The railways should become more efficient and competitive compared with other modes of transport, especially roads. They should provide a quality service to customers, characterized by reliability, punctuality and safety. Special attention should be paid to smooth and efficient border - crossing procedures.

The fact that two legal systems regulate international rail transport in the large geographical area of Eurasia should not be an obstacle to exploiting the opportunities available to the railways. Harmonization of legislation between the two regulatory legal systems is needed with short and medium term objectives to be set up. Legal and technical interoperability as well as the development of infrastructure are shared priorities although they have different timeframes.

The Conference has established that <u>a real disadvantage for rail transport is the absence of</u> <u>a direct consignment note</u>. Action to improve matters can be provided as follows:

- development of a direct consignment note as a first step;
- standardization of the laws governing questions of liability for the entire transport activity as a second step.

The Conference has agreed that a work programme between OSJD and OTIF (with joint working group), that will build on the existing "Common position", should contribute to reach the objectives of this declaration. In addition, the EC will stimulate the work on a number of trans-European corridors to facilitate the implementation of joint solutions. For information about the European international associations of railway enterprises CER and UIRR see here:

Other Major Actors

International Union of combined Road - Rail transport companies (UIRR)

UIRR has currently 19 members in 14 countries who represent approximately 60% of the total volume conveyed in Europe by combined transport. UIRR was founded in 1970 in Munich. His members carried 230,000 units of swap bodies and semi-trailers on a national level and only 17,000 units as international traffic, in the first year.

In 1972 the first international rolling road link (trucks on rail) was introduced (Cologne - Verona). In 1984 the first General Conditions organizing the responsibility of the operators in international combined transport were adopted. In 1988, 1 million consignments were reached and 3 years later international traffic exceeded national traffic. In 1997 / 1998 UIRR adopts new statutes and opens to all CT operators. In parallel new General Conditions are adopted giving to operators more responsibilities in their commercial contacts with clients. In 2000, 2 million consignments were reached.

Community of European Railway and Infrastructure Companies (CER)

CER brings together 53 railway undertakings and infrastructure companies from the European Union, the accession countries (Bulgaria, Croatia and Romania) as well as Bosnia / Hercegovina, Serbia / Montenegro, Norway and Switzerland. It is based in Brussels and represents its members' interests vis-à-vis the European Parliament, Commission and Council of Ministers as well as other policy makers and transport actors. CER's main focus is promoting the development of rail as essential to the creation of a sustainable transport system which is both efficient and environmentally sound. A key priority in this respect for CER is the achievement of a more balanced modal split in the transport system, minimizing external costs arising to society and improving economic efficiency. In parallel to the railways' own initiatives for improving the quality of rail services, CER sees ensuring sufficient investment in infrastructure rail projects as a prerequisite for achieving the desired modal split. All policy areas of significance to railway transport are dealt with by CER, which offers advice and recommendations to European policy makers. CER monitors and contributes to railway policy making. Its interests span the whole spectrum of European transport policy: infrastructure planning, passenger and freight services, public service, the environment, research and development and social dialogue.

The EC aims for a revitalization of railways. For details please read the following:

E.C. DIRECTIVES AND POLICIES

E.C. common transport policy up to the year 2010, is described in the White Paper, published in 2001. One of the main objectives of E.C. is to **Revitalise Railways**. More specifically the policy aims on (a) integrating rail transport into the internal market and guaranteeing safety. (b) making optimum use of rail infrastructure, (c) modernising of rail services.

The reasons behind the promotion and prioritisation of railways by E.C., are, the increasing shares of road transport (causing severe environmental and congestion problems) and the declining shares of rail transport.

E.C. since 1991 launched a series of Directives to support its policy and to open the rail market in order to achieve liberalization, as is already the case in the other modes of transport. The goal is, rail to be able to better compete with other modes.

The Directives deal with separation of operations from infrastructure, railway licensing, access to infrastructure (access fees / capacity allocation), interoperability and safety.

- 91/440/EC, 95/18/EC, 95/19/EC, 96/48/EC
- 2001/12/EC, 2001/13/EC, 2001/14/EC, 2001/16/EC (1st railway package)
- 2004/49/EC, 2004/50/EC, 2004/51/EC (2nd railway package)

Specific attention is given to the interoperability issues, aiming to (a) ensure safe and uninterrupted movement of trains across E.U. and (b) standardize equipment to reduce costs. For interoperability and safety issues the European Railway Agency (EAR) was set up. Freight services were the first to be liberalized and opened to operators, since 1993 for international combined transport, since 2003 for international freight services, whilst since 2007 all freight services will be liberalized.

Directive 2001/12/EC defines a Trans-European Rail Freight Network (TERFN) comprising approximately 50,000 km of line open to freight services since 2003. By 2007, however, freight services market will be opened up over the whole 150,000 km network.

The E.C. also launched multimodal / combined transport programs aiming to link up the various modes of transport towards a more efficient transport chain. Firstly, the PACT

program was introduced back in 1992, followed by the Marco Polo program in 2003. Marco Polo is a large - scale program to support intermodal activities and alternatives to road transport, particularly focusing in interoperability on containers, loading units and the profession of freight integrator. Both the UIC and the FIATA work on higher quality of railways. See below:



Joint Declaration by UIC/CER and FIATA/CLECAT on "Quality in international conventional and combined railway freight traffic" (16 April 2005)

At its meeting on 1 March 2005 in Paris, the UIC-FATA Permanent Contact Group announced the launch of joint efforts to boost quality standards in international rail height traffic, both conversional and combined.

This joint initiative is based on moves to develop a set of quality indicators, building on the Quality Charter published by CER and UIC in July 2003 in conjunction with the CIT. These indicators, which offer a response to market dermand and must also be realistically schewable for the Relivacy Undertakings, ensithine the customer's right to incorporate quality parameters in individual contracts conclusted with the railway undertakings, with the necessary consequences for bolls paties in the event of non-compliance. In an initial phase, the idea is to begin with block hairs in conventional wagon and combined transport, before moving onto a subsequent stage in which wagon groups or less-than-trainload operations are also included.

UIC and FIATA have agreed that, in an open market, on improvement in the quality of rail treight services can only be introduced and developed by the market protagonists themselves.

Any intervention on the part of the EU would distant the free play of market forces and consequently jacpardise the economic viability of the transport operations, with the railway undertainings liable to lose business as a result.

UIC is planning to discuss the results of this joint work with other customer associations, to ensure that the work rests on a broad spectrum of customer requirements.

CER and GLECAT welcome and support this initiative and see it as a confirmation of their existing position in relation to EU moves to develop a height quality regulation.

thorger

FIATA Heiner ROGGE Cheiman of the Working Group Reil of MTI

Marga

CLECAT Heiner ROOGE Chairman of the CLECAT Ray Cocontene of ETLI

44/2 LEC

Gonther ENGELHART Charman of the UIC Delegation to the Permanent Contect Group UICP/MTA

1. Endany.

CER Johannes LUDEWIG Executive Deector

Test Questions

Please indicate whether the statement is right /wrong:

- a. The UIC acts as a technical platform to support the work of railway associations (right)
- b. The OTIF participates in the preparation of other international conventions concerning rail transport within UN/ECE and Unidroit. (right)
- c. The COTIF was developed by the OSJD. (wrong)
- d. The development of regulations concerning the carriage of dangerous goods (RID) is an objective of the UIC. (wrong)

6.3 Main Conventions and Agreements Regarding Rail Transport

Learning objectives:

The applicant should be aware of the main rules of the CIM (including RID) and SMGS and of the liability of the rail carrier. The applicant should be able to fill in the CIM form.

COTIF

COTIF (in French: Convention relative aux transports internationaux ferroviares) is the Conventions concerning International Carriage by Rail, managed by OTIF. The Appendices of COTIF include:

- the international rail transport law (passenger CIV and freight traffic CIM)
- the carriage of dangerous goods (RID)
- the contract of use of vehicles (CUV)
- the contract of use of railway infrastructure (CUI)
- the validation of technical standards and the adoption of uniform technical prescriptions for railway material (APTU)
- the procedure for technical admission of railway vehicles and other railway materials used in international traffic (ATMF);

COTIF - Conventions concerning International Carriage by Rail		
Appendices of the COTIF	Revisions of the COTIF	
The international rail transport law (passenger - CIV - and freight traffic - CIM)	1980 : contract of international carriage of goods by rail (CIM)	
The carriage of dangerous goods (RID)	1995 : basis for the cross-boarder freight forwarding; Liberalization and modernization of the	
The contract of use of railway	CIM Uniform Rules,	
infrastructure (CUI)	the laws applicable to other transport	
the adoption of uniform technical prescriptions for railway material (APTU)	Modernization regarding liberalization of the rail transport	
The procedure for technical admission of railway vehicles and other railway material used in international traffic (ATMF)		

CIM Uniform Rules

COTIF contains the Uniform Rules concerning the Contract of the International Carriage of Goods by Rail (CIM), of 9-5-1980 please see Annex 2, as amended in 9-6-1999 (Vilnius Protocol) to cater for the recent developments in the rail sector (please see earlier on in this chapter).

The Uniform Rules apply to every contract regarding the carriage of goods by rail for reward when the places of origin and destination are situated in two different member states -irrespective of the place of business and the nationality of the parties to the contract- or if at least one place is in a member state and the parties agree that the contract is subject to these rules.

CIM Contract of Carriage

By the contract of carriage, the carrier shall undertake to carry the goods for reward to the place of destination and to deliver them there to the consignee. The contract of carriage must be confirmed by a consignment note which accords with a uniform model. However, the absence, irregularity or loss of the consignment note shall not affect the existence or validity of the contract which shall remain subject to these Uniform Rules.

The consignment note shall be signed by the consignor and the carrier. The signature can be replaced by a stamp, by an accounting machine entry or in any other appropriate manner.

The carrier must certify the taking over of the goods on the duplicate of the consignment note in an appropriate manner and return the duplicate to the consignor.

The consignment note shall not have effect as a bill of lading.

A consignment note must be made out for each consignment. In the absence of a contrary agreement between the consignor and the carrier, a consignment note may not relate to more than one wagon load.

In the case of carriage which enters the customs territory of the European Community or the territory on which the common transit procedure is applied, each consignment must be accompanied by a consignment note satisfying the requirements of Article 7 of CIM.

The international associations of carriers shall establish uniform model consignment notes in agreement with the customers' international associations and the bodies having competence for customs matters in the Member States as well as any intergovernmental regional economic integration organization having competence to adopt its own customs legislation.

The consignment note and its duplicate may be established in the form of electronic data registration which can be transformed into legible written symbols.

Transit period	12 hrs for dispatch and 24 hrs for each 400 km
Period of liability for loss or damage of goods	The time between the carrier accepted goods for carriage and the time of delivery and for the loss or damage resulting from the transit period being exceeded
Relief of liability	 When the loss or damage of goods was caused by a fault on the part of the person entitled an order given by the person entitled other than as a result of a fault on the part of the railway inherent vice of the goods (decay, wastage, etc.) circumstances which the railway could not avoid and the consequences of which it was unable to prevent (e.g. carriage in open wagons, absence or inadequacy of packing, defective loading, irregular, incorrect or incomplete description of articles)
Compensation for loss of goods	The carrier must pay, to the exclusion of all other damages, compensation calculated according to the commodity exchange quotation or, if there is no such quotation, according to the current market price, or if there is neither such quotation nor such price, according to the normal value of goods of the same

CIM Liability of Carrier

	kind and quality at the time and place at which the goods were accepted for carriage.Compensation shall not exceed 17 Special Drawing Rights SDR per kilogram of gross weight plus the rail freight.
Compensation for damage of goods	The carrier must pay compensation equivalent to the loss in value of the goods, to the exclusion of all other damages.
Period of limitation	1 year

CIM Packing, and handing over of goods

When the railway accepts for carriage goods showing obvious signs of damage, it may require the condition of such goods to be indicated in the consignment note.

When the nature of the goods is such as to require packing, the consignor shall pack them in such a way as to protect them from total or partial loss and from damage in transit and to avoid risk of injury or damage to persons, equipment or other goods. Moreover the packing shall comply with the provisions in force at the forwarding station.

The consignor shall be liable for all the consequences of the absence of packing or defective condition of packing and shall in particular make good any loss or damage suffered by the railway from this cause. In the absence of any particulars in the consignment note, the burden of proof of such absence of packing or defective condition of the packing shall rest upon the railway.

The handing over of goods for carriage shall be governed by the provisions in force at the forwarding station. Loading shall be the duty of the railway or the consignor according to the provisions in force at the forwarding station. When the loading is the responsibility of the consignor, he shall comply with the load limit. Unloading shall be the duty of the consignee.

The consignor shall be liable for all the consequences of defective loading carried out by him and shall, in particular, make good any loss or damage suffered by the railway through this cause. Nevertheless Article 15 shall apply to the payment of costs arising from the reloading of goods in the event of defective loading. The burden of proof of defective loading shall rest upon the railway.

RID Regulation concerning the International Carriage of Dangerous Goods by Rail

The development of regulations concerning the carriage of dangerous goods by rail is a main and ongoing task of the OTIF. RID (Regulation concerning the International Carriage of Dangerous Goods by Rail) has about 1,000 pages and is reissued every two years.

Since 1993, work has been in progress on the legal and technical restructuring of RID. The legal restructuring was completed, together with the other revision work, at the 5th General Assembly in June 1999. RID has become an independent Appendix to COTIF. This means that the application of RID will no longer depend on the existence of a CIM transport contract. The establishment of definitions and defining the duties of those participating in a transport operation involving the carriage of dangerous goods creates greater legal clarity. A legal basis for special provisions applicable to supplementary carriage on maritime routes has been set up.

After the restructuring RID in the year 2001 RID now has a more userfriendly presentation and now only differs from ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road) and ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) in the mode-specific parts. Details about RID please read in the Module 11 Safety, Security and Dangerous Goods.

SMGS

SMGS is the Agreement on International Railway Carriage of Cargoes "in Russian: Soglashenije o Meshdunarodnom Grusowom Soobschtschenii), concluded in Warsaw 1950 between Eastern European and Asian countries. There are some differences in the uniformed rules of CIM and the rules of the SMGS concerning cargo transport:

	CIM Uniform Rules	SMGS	
Official languages English, French, German		Chinese, Russian	
Transit period	12 hrs for dispatch and 24 hrs for each 400 km	s 24 hrs for each 200 km	
Compensation for loss of goods	Compensation shall not exceed 17 SRD per kilogram of gross weight plus freight.	There are no maximal limitations for compensation for loss of goods.	
Period of limitation	1 year	9 months	

For the full text of the SMGS convention in Russian can be downloaded from http://www.osjd.org/r-index.htm

For a unified consignment note for CIM and SMGS (with 6 copies) please see Annex 3.

Test Questions

Please indicate whether the following statements are right /wrong:

- a. The CIM is an appendix of the Conventions concerning International Carriage by Rail (right)
- In the Protocol of Vilnius (1999) CIM Uniform Rules were adapted to the laws applicable to other transport modes, especially to the CMR (right)
- c. The Rules for the transportation period by rail are 24 hrs for dispatch and 36 hrs for each 100 km (wrong)
- d. Compensation for loss of goods shall not exceed 17 Special Drawing Right SDR per kilogram of gross weight plus freight. (right)
- e. Period of limitation for compensation is in the CIM Uniform Rules shorter that in the Rules of the SMGS. (wrong)
- f. Unloading shall be a duty of the rail carrier. (wrong)

6.4 Geography and Rail Transport Operations

Learning objectives:

The applicant should be aware of main transport routes by rail and average transportation times on the main routes.

Rail Corridors and Networks

Learning objectives: The applicant should be aware of main transport rules by rail.

The main rail corridors in the world can be seen on the map on the following page.



Global Rail Corridors

ESCAP, as part of the Asian Land Transport Infrastructure Development (ALTID) project which was endorsed by the 48th ESCAP Commission Session in Beijing (April 1992) has studied the three Asia - Europe rail land bridges. The EC also adopted in 1992 resolution 48/11 on road and rail transport in relation to facilitation measures and in 1996 resolution 52/9 on intra - Asia and Asia - Europe land bridges. Three routes of international significance have been identified in the southern corridor of Trans Asian Railways (TAR):

- TAR-S1: Kunming (South China) Kapikule (Turkish / Bulgarian borders): 11,700 km
- TAR-S2: Bangkok Kapikule: 11,450 km
- TAR S3: Sarakhs (Iran/Turkmen borders) Tehran Razi (Turkish borders)

In cooperation with ESCAP, the OSJD is working on the organisation and test run of container block trains along the northern corridor in communication East-West. Container trains ran successfully on following routes:

- Nakhodka Brest (via Moscow)
- Berlin Moscow
- Budapest Moscow
- Helsinki Moscow

UIC has identified major weaknesses that need to be solved in order to make rail corridors more attractive. In summary, such weaknesses include among others:

- Considerable delays in border crossings due to huge documentation, customs procedures, change of trains and other formalities.
- Different gauge widths in various countries which imply that boogies have to be changed or even the whole wagons. Four different types of gauge are existing:
 - 1.435 m (standard) in Turkey, Iran, China and Middle East, as well as in Europe
 - 1.520 m in CIS countries and Russia
 - o 1.676 m in India and Pakistan
 - Narrow gauge (mostly 1.000 m) in South / S.E. Asia, Middle East and Europe.
- Differences in tariff structure and liability conditions in various countries.
- Missing links crucial for the rail corridors as well as poor infrastructure.

In order to cope with the above problems and find solutions to a more efficient rail transportation between Asia and Europe 6 international multimodal corridors in world trade were established where the role of railways will be critical and of paramount importance. The corridors addressing freight movements between Asia and Europe are:

- Europe ↔ China via CIS and Middle East (Task Force chaired by Iran)
- South/S.E Asia ↔ Central Asia/Europe via Middle East (Task Force chaired by India)
- 3. Far East ↔ Europe via China & Russia (Task Force chaired by China)

As surface transport links will form the main element in the overall transport chain, UIC is coordinating the various related aspects through Corridor Task Forces' working groups.

Recently UIC adopted the N.E.W. Corridor (Northern East West Freight Corridor) linking Far East with Northern America via Scandinavia.



N.E.W. Corridor (Northern East West Freight Corridor)

In cooperation with UIC, the technical terms for East - West freight wagons were elaborated as well as the technical requirements for communication between 1,435 km and 1,520 m. gauges.

The growing importance of Asia to Europe's economic future suggests that European rail and other infrastructure investment decisions need increasingly to take account of Euro-Asian perspectives. The importance of the Euro-Asian land bridge will become increasingly obvious as the significance of China to the world economy grows.

The EU has already agreed to the further development of the Trans-European Transport Network towards ten Pan-European Crete/Helsinki Corridors on the territory of CEECs. Of particular importance for Europe-Asia routes are the following corridors:

	Corridor No. 2:	Berlin - Warsaw - Minsk - Moscow - Nizhny
		Novgorod
	Corridor No. 3:	Berlin/Dresden - Wroclaw - Katowice - Krakow -
		Lviv - Kiev
9	Corridor No. 4:	Berlin - Prague - Budapest - Costanza - Sofia -
		Thessaloniki/ Istanbul
•	Corridor No. 5:	Venice - Trieste/Koper - Ljubljiana - Budapest -
		Uzgorod - Lviv - Kiev

 Corridor No. 9: Helsinki - Moscow - Kiev - Chisinau - Bucharest - Alexandroupoli

These corridors link into the following Europe - Asia main routes

- Trans-Siberian Route: Moscow Yekaterinburg Novosibirsk -Vladivostok / Beijing
- Trans Asian North Route: Kiev/Moscow Chelyabinsk Druzhba -Liangyungang
- Trans-Asian Central Route: Kiev Almaty Druzhba Alashankou -Liangyungang.
- TRACECA: Constanza/Varna Poti Baku Tashkent Almaty -Aktogay - Druzhba - Alashankou - Liangyungang.
- Trans-Asian South Route: Istanbul Ankara Tabriz Teheran -Mashad - Serakhs - Tashkent - Almaty - Aktogay - Druzhba -Alashankou - Liangyungang.

There are track gauge changes at the following borders: Poland - Belarus (Brest), Slovakia/ Hungary - Ukraine (Chop), Russia - China, Mongolia - China, Kazakhstan - China, Iran-Turkmenistan.

For a case study on different transport routes including rail see Annex 4.

Eurasian Freight Corridors



Freight Forwarders Training Courses September 2006

Test Questions

1. Please indicate the correct names of the corridors.

Name	Route		
Corridor No. 2	Berlin - Warsaw - Minsk - Moscow - Nizhny Novgorod		
Corridor No. 3	Berlin/Dresden - Wroclaw - Katowice - Krakow - Lviv - Kiev		
Corridor No. 4	Berlin - Prague - Budapest - Costanta - Sofia - Thessaloniki/ Istanbul		
Corridor No. 5	Venice - Trieste/Koper - Ljubljiana - Budapest - Uzgorod - Lviv - Kiev		
Corridor No. 9	Helsinki - Moscow - Kiev - Chisinau - Bucharest - Alexandroupoli		

Name	Route
TAR-S1	Kunming (South China) - Kapikule (Turkish / Bulgarian borders)
TAR-S2	Bangkok - Kapikule
TAR-S3	Sarakhs (Iran/Turkmen borders) - Tehran - Razi (Turkish borders)

Please indicate whether the statements below are right /wrong:

- a. There are three main corridors addressing freight movements between Asia and Europe: Europe – China via CIS and Middle East; South/S.E. Asia – Central Asia/Europe via Middle East; Far East – Europe via China, Russia (right)
- b. The Trans-Siberian Route is the one of the main transport corridors Europe- Asia (right)
- c. Brest and Chop are the main point for change of the track gauges between Europe and CIS-countries. (right)
- d. The main break-of-gauge point between China and the middle east countries is Druzhba. (right)

6.5 Transit Times in Euro-Asian Freight Routes

Learning objectives:

The applicant should be aware of transit time on main transport routes by rail.

Rail transit times, in general, are lower than sea but higher than road. Indicatively the following comparative picture emerges for transit times by sea or by either rail, or combined sea-rail for movements between Northern

HELSINKI TO:	Sea	Rail	Combined land-sea	
Tehran	33 days	11 to 12 days	33 days	
Lahore	41 days	17 to 18.5 days	22 to 24 days	
New Delhi	32 days	18 to 20 days	25 to 27 days	
Bangkok	31 days	Not applicable	33 to 35 days	

Europe and the Persian Gulf with onward connections to South and South - East Asia:

Source: UN-ESCAP study, 2001

The above estimates show a distinct transit time advantage for rail over shipping, reflecting the actual differences in distances. While there is no doubt that the rail and combined land-sea options are likely to offer attractive transit times in future, much will have to be done to capitalize on this advantage in the fields of tariffs, services and facilitation.

Rail route		Distance (km)	Indicative transit time* (days)	
1.	Vladivostok - Moscow - Brest - Berlin (Trans Siberian Rail)	11,830	16	
2.	Lianyungang - Druzhba - Moscow - Brest - Berlin (TAR North)	11,260	23	
3.	Lianyungang - Druzhba - Kiev - Chop - Budapest (TAR Central)	11,870	28	
4.	Lianyungang - Druzhba - Poti - Costanza - Budapest (TRACECA)	11,310	26	
5.	Lianyungang - Druzhba - Tehran - Istanbul - Milan (TAR South 1)	13,950	33	
6.	Calcutta - Delhi - Tehran - Istanbul - Milan (TAR South 2)	10,910	27	
7.	B. Abbas - Jolfa - Poti - Odessa - Moscow	5,790	19	
8.	B. Abbas - Tabriz - Istanbul - Budapest	5,400	14	

Source: UIC study, 2000

* Includes border crossing delays, as well as loading / unloading time (without customs and security control delays) at the points of origin / destination.

Existing break-of-gauge points at Drushba / Alashankou (China / Kazakhstan), Sarakhs (Turkmenistan / Islamic Republic of Iran) and Brest (Belarus / Poland) are certainly operational hindrances, but do not cause exceptional delays compared with existing institutional barriers, which

represent the main reasons for waiting times and delays at border crossing points. Different types of railway operations for transport to Central Asia have achieved different transit speeds, with commercially organized block trains achieving speeds in excess of 700 kilometers per day. The potential for realizing low transit times could become a reality, once commercially organized block train operations become more widespread.

Rail transit time between Europe and Almaty / Kazakhstan vary between 25 to 35 days, according to ESCAP.

Minimum and maximum transit times, of 15 days and 23 days respectively, for regular and express rail services from ports in China to Kazakhstan are achieved. Freight forwarders have reported that the transfer time at the border between China and Kazakhstan is 2 -3 days, which includes bread-of-gauge handling and customs documentation and proceedings. Meanwhile, data on the container block trains established for shipments from Daewoo Corporation in Republic of Korea via the Chinese port of Lianyungang, just north of Shanghai, reveal that a transit time of 9 days is possible. This suggests that significant reductions in transit time can be achieved if a high level of priority is given to the transit service.

Market Share of Rail Transport

The share of rail transport on total transport (Modal Split) differs widely between the different regions:

EU (15):	13%
CEECs:	38%
USA:	40%
Central Asia:	70%
Russia:	80%

In USA rail haulage accounts for 40% of total freight compared with only 13% in EU It is worth noting that in 1970 the rail share in Europe was 21%. In Russia almost 80% of land transports are performed by rail (more than 90% of them bulk cargo). In Central Asia (mainly Kazakhstan, Uzbekistan, Turkmenistan) almost 70% of land transports are performed by rail.

In China approximately 35% of domestic freight transports are performed by rail (but only 5% of international transports, as 90% is transported by sea). In Turkey less than 2% of international freight is performed by rail.

Test Questions

Please indicate whether the statement below is right / wrong:

- a. Rail transport is usually quicker than sea transport. (right)
- b. The average transit time between Helsinki and New Delhi is 10 days. (wrong)
- c. The average transit time between Berlin and Vladivostok with the Trans-Siberian Rail is 16 days. (right)

6.6 Ways and Means of Transportation

Learning objectives:

The applicant should be aware of main technologies in rail transport.

Conventional Transport By Rail

Learning objectives:
The applicant should be aware of main types of rail wagons and their main technical
characteristics. He should have an idea about the different types of gauge.
121 121 124 12 121 121

The main points of rail transport which are of interest to a forwarder are the following:

The overall length of the wagon	12m, 15m, 18.50m (= three 20' containers, for example);20m or 25m for a flat wagon
Payload of the wagon	From 20 to max. 50 to 65 t
Speed	depends on lines 24 to 48 hours in the EU
Trainload	in average 50 wagons, 1000 t payload (differs between 800 to maximum 3,000 tonnes)

Compared to road carriage rail transport is limited by:

- The accessibility (stations, rail lines): additional intermediate handling;
- The rigidity of the schedule;
- The shippable height which varies according to the route;
- The operator's monopoly: even if the customer is able to negotiate prices and conditions more effectively today thanks to the competition, they can still find themselves at the mercy of the carrier in case problems arise during the carriage: strikes, technical incidents, and concerning rail lines, the closure of the line.

European freight forwarders generally consider rail freight as a viable possibility when it concerns maritime pre- and post-carriage with direct access to the vessel by the "dock siding" and an interesting flexibility concerning waiting times.

Train	operating	systems	in	Europe,	comprise,	among	others.
-------	-----------	---------	----	---------	-----------	-------	---------

Shuttle trains	directly operating in a loop between two terminals with fixed composition of rail cars	
Block trains	directly operating between two terminals, but not with fixed composition	
Part trains	composed of sets of rail cars with more than two destinations and not with fixed composition	
Liner trains	similar to passenger trains, with frequent stops, where boxes are loaded / unloaded in a sequence of terminals	

As gauges in various countries are different and this can not be changed without vast investments, appropriate transshipment equipment and/or rolling stock is necessary to ensure fast procedures, as is the case between Spain and France and between Poland and Belorussia.

Different rail gauges (inner distances between rail tracks)

Due to historical developments we have different rail gauges which must be considered in international transport:

Standard gauge	mm
(Europe, Turkey, China, Middle East, Iran)	
CIS and Finland	1,524 mm
Spain	1,674 mm
Portugal	
India, Pakistan, Bangladesh	1,676 mm
Gauge changes thus are existing:	

- Between China & Kazakhstan/Russia
- Between Pakistan & Iran in Zahedan
- Between Iran & Turkmenistan in Sarakhs
- Between Turkey/Iran & Caucasus countries
- Between Poland & Belorussia
- Between Hungary/Slovakia and Ukraine

Rail lines should be capable of accommodating axle loads of at least 20 tons, which is not always the case.

Different Loading gauges (maximum width and height of wagon and cargo)

The physical dimensions of a vehicle and its load are governed by a series of height and width profiles, known as loading gauges. These are applied to a given route, to ensure that a vehicle will not collide with a lineside or overline structure, such as station platforms, canopies, overhead power supplies, over bridges or tunnels.

Loading gauge profiles vary by route, reflecting the constraints on rail vehicle size caused by lineside and overline structures.

For more details see Module 3.2.2

Different Railway Line Classes and Weight Limitations

The different railway lines within a country and internationally are classified in the SMGS and CIM countries, depending on the possible maximum weight per axle and the possible maximum weight per metre. Since the weakest part of an international transport line determines the maximum weight over the whole line it is important to plan the route, the type of the wagon and the maximum payload accordingly.

The forwarder must know the maximum weight per axle (according to railway line class, published in railway tariff), the wagon weight (indicated at each wagon) and the number of axles (indicated by wagon number, e.g. Ea means a 4 axle open wagon, Eaa a 6 axle open wagon). With this information he is able to calculate the maximum possible payload.

Wagon Weight /t/ + Payload /t/ Maximum Weight per metre = -----

Length over bumpers /m/

The railway lines are classified according to maximum weight per axle and per metre in the following classes:

Line Class	Maximum Weight per Axle	Maximum Weight per Meter	
Α	16 t	5.0 t/m	
B 1	18 t	5.0 t/m	
B 2	18 t	6.4 t/m	
C 2	20 t	6.4 t/m	
C 3	20 t	7.2 t/m	
C 4	20 t	8.0 t/m	
D 2	22.5 t	6.4 t/m	
D 3	22.5 t	7.2 t m	
D 4	22.5 t	8.0 t/m	

Each country has a standard class, but there are exceptions within a country which must be considered. For example Sweden B 1, Netherland B 1, Germany C 2, Great Britain B 1, Turkey B 2, Poland C 3, France C 4 etc.

The maximum total weights per class for a certain wagon are indicated at each wagon, so that the forwarder can elaborate the possible payload by deducting the wagon weight. Note that he must know the lowest classes of the route planned.





The gauge of all the loading units used in CT is "coded" on a yellow plate that informs the railwayman about the dimensions of the unit. The capital letters "C" for containers and swap bodies and "P" for semi-trailers in ladle carriages are used to indicate the difference in loading units.

Types of rail wagons





Labeling of wagons

Labeling of wagons is used for information of sender, forwarder and carrier etc. about important characteristics of the wagon.



The control number is calculated as follows:

21511530099-2 multiplication 21212121212

41101256009 18

4 + 1 + 1 + 0 + 1 + 2 + 5 + 6 + 0 + 0 + 9 + 1 + 8 = 38 rounded $40 \Rightarrow$ control number is 2 (40 - 38).

Test Questions

1. Please give the correct names of the types of rail wagons to the picture.

Name	
Open Wagon	
Flat cars	
Self-Unloading Wagon	
Closed Wagon	
Tank Wagon	21500
Refrigerated Wagon	ter l

2. Please indicate which types of gauge belong to the countries that are using this type.

1.435 mm	Europe, Turkey, Middle East, Iran and China
1.524 mm	CIS countries and Russia
1.676 mm	India, Pakistan and Bangladesh

3. Please indicate whether the statements below are right /wrong:

- a. Block trains operate directly between two terminals, but not with fixed composition. (right)
- b. Part trains are operate directly in a loop between two terminals with fixed composition of rail cars. (wrong)
- c. Liner trains are similar to passenger trains, with frequent stops, where boxes are loaded / unloaded in a sequence of terminals. (right)
- d. The railway lines are classified according to the maximum number of possible axles per wagon. (wrong)

6.7 Combined Transport By Rail

Learning objectives:

The applicant should be aware of main types of combined transport by rail.

For main definitions given by the UNECE and benefits of the combined transport please read the following on definitions.

Definitions

The following definitions are given by the United Nations Economic Commission for Europe:

- Intermodal transport : The movement of goods in one and the same loading unit or road vehicle, which uses successively two or more modes of transport without handling the goods themselves in changing modes. By extension, the term intermodality has been used to describe a system of transport whereby two or more modes of transport are used to transport the same loading unit or truck in an integrated manner, without loading or unloading, in a door to door transport chain.
- Combined transport (CT) : Intermodal transport where the major part of the European journey is by rail, inland waterways or sea and any

initial and/or final legs carried out by road are as short as possible. The Railway Companies offer two types of intermodal transport

- Unaccompanied transport, changing from one mode of transport to another using a purpose-built terminal (road, maritime, waterway, rail, air).
- Accompanied transport, also known as "rolling road".

Unaccompanied Traffic is the most widespread form of CT (transport of containers, swap bodies and semi-trailers). This form of transport, where only the loading unit is transported by rail, accounts for the largest share of the CT market (78% of shipments).

This form of transport requires a lot of techniques, organisation and infrastructure. For the road transport companies and the freight forwarders, it primarily means that they have to have special containers that can be lifted and transferred using mobile or full gantry cranes. Here we are referring to "vertical loading". These road vehicles with swap bodies or semi-trailers are slightly more expensive to buy than the so-called "normal" road vehicles.

The transport company also has to make sure that the container is removed from the arrival terminal in order to reach its destination.

Unaccompanied transport is especially profitable because of the advantageous ratio between useful load and dead weight.



Transfer of a tank container



Depot of containers



Transfer of a semitrailer

In the case of **accompanied transport**, the whole lorry is driven up a ramp onto a special low wagon. This is called "horizontal loading". A couchette carriage is made available to the driver, so that he has a comfortable place to sleep during the trip.

At the arrival terminal, he disembarks with his lorry and completes the final leg of the journey to the customer. The advantage here is that the driver can rest during the rail portion of the voyage. Several countries have legislation requiring rest periods, and rail is an ideal way to comply with those
provisions. What is more, working conditions are improved, because there is no night work anymore.

The trains of the "Rolling Road" can be rapidly loaded and unloaded; this technique is particularly suitable when the transport has to be quick. Also, the transporters do not need any special equipment, and nothing in particular is needed at the terminals. It is especially appropriate for short and medium-haul trips (200 to 400 km). But there are also drawbacks, the main one being that the Rolling Road also has to carry a lot of dead weight, meaning the traction of the lorry.



Lorry on the ramp



Rolling Road Train



Rolling Road Train

Benefits of Combined Transport and Statistics

Combined transport helps safeguard the quality of life and at the same time preserve the economic interests of users by integrating and making optimum use of the resources and assets offered by each transport mode. Indeed, a seamless transition of goods in their loading unit from one mode of transport to another is instrumental in improving productivity throughout the entire transport chain. The main assets of combined transport can thus be summed up as follows:

- Reliability (timekeeping, capacity purchasing)
- Safety and low damage rate of loading (of rail and goods)
- Speed (efficiency)
- Environmental compatibility
- Optimisation of resources of each player in the chain (block trains over long distances)
- Flexibility (concentration of flows, redistribution on arrival)
- Integrated logistics
- Increased transport capacity (44 t instead of 40 t for lorries)
- Low personnel costs
- More effective use of equipment

Rail / Road combined transport more than doubled in the period 1986 - 2000 attaining 180 mil. tons in 2000 and reaching 200 mil. tons in 2005. The average annual growth rate is approximately 5%.



Growth in Combined Transport by Rail E.U. and Switzerland and Norway Source : UIC

The following techniques are applied in combined transport by rail:





For details about techniques for combined transport by rail see Module 3.6.1. For Combined Transport Operators in Rail-Road-Transport see Module 3.6.2.

Test Questions

1. Please link the types of combined transport to the pictures.



6.8 European Agreement on Important International Combined Transport Lines and Related Installations (AGTC)

Learning Objective: The student should know the existence of the AGTC and its influence on combined rail transport.

AGTC creates a plan for the development of international combined transport infrastructure and services on the basis of an international network and generally accepted infrastructure and operational standards. The purposes of the AGTC are:

- to facilitate international transport of goods, that are expected to increase as a consequence of growing international trade
- to minimise adverse environmental consequences that such developments might have
- to emphasise the important role of combined transport to alleviate the burden on the European road network and mitigate environmental damage
- to establish legal framework laying down a coordinated plan for the development of combined transport services and the infrastructure necessary for their operation based on internationally agreed performance parameters and standards, in order to attract customers.

Annex II of AGTC identifies gauge interchange stations of importance for international combined transport. At these stations either change of wagon axles / bogies is done either transshipment of loading units by crane or other equipment. Within the TRACECA area such stations are located at Ukrainian borders (Chop, Vado Siret, Deakovo, Motsiska) and at borders between Molvoda (Ungeny) and Romania.

Important terminals mentioned in AGTC are these of Chop, Kiev and Lvov, while important ferry link / Ra-Ra that of Samsun - Constanta.

Of the TRACECA countries, Parties of this Agreement are: Turkey, Bulgaria, Romania, Moldova, Georgia, Kazakhstan and Ukraine, as well as 16 countries of EU-25, Russia, Belorussia and some more.

Test Questions

1. Please indicate whether the statements below are right/wrong

- a. AGTC creates a plan for the development of international combined transport infrastructure. Right
- b. Important international gauge interchange stations have not been identified by AGTC. Wrong
- c. An interchange gauge station in the Ukraine is Chop. Right

6.9 Waybills and Accompanying Documents

Learning objectives: The applicant should be aware of main liabilities of the rail carrier and of main contents of the CIM consignment note.

Contractual Framework

Learning objectives: The applicant should be aware of main liabilities of the rail carrier.

There is an important difference in the nature of a rail transport contract compared to that of other modes; that is its real rather than consensual character. The contract does not exist until the transport document, made out by the shipper, has been duly stamped by the railway. The transport document acts as a consignment note and is not negotiable.

For wagons which are loaded by the shipper (e.g. in the freight station), the transport operation is preceded by a request for a wagon.

The loading, including stowing and sheeting, is paid by the shipper. The loading and unloading time is around 8 hours in Europe. Practically speaking these operations will often in fact be longer than the frequency of the departures from the station or the rail spur (every 24 hours for example) and can thus be subject to a negotiated agreement. These operations might take 2 days on the dock siding to which are added two additional days of waiting time, if necessary.

The shipper must pay attention to the constraints specific to this method of transport: wedging, stowing, avoiding overloading, paying attention to heights and widths.

The wagon can be sealed, which is mandatory in combined transport and for certain types of goods.

For additional information about transit procedures please read the following:

Transit Procedures and Facilitation Issues

A very important issue of international freight traffic is transit facilitation at border crossings, as the necessary procedures actually applied are increasing severely the average transit times of the consignments as well as the quantity of documents which, in its turn, leads to increased transport costs. Transit facilitation measures are of equal importance with infrastructure development. This is particularly important along Euro-Asian rail routes where there are frequent border crossings and rail has to compete both in cost and time with sea transport, which does not face such problems. At border crossings there are three types of delays:

- Customs clearance and security control, veterinary / phytosanitary controls (institutional)
- Freight transhipment and boogies exchange (technical)
- Rail operational procedures i.e. train inspection, brake testing, wagons checking, change
 of locomotives and crew, marshalling, consignments documentation, etc. (operational)

Institutional issues, usually are responsible for the major share of delays at border crossings.

In view of the above, ESCAP at its 48th session in April 1992 adopted Resolution 48/11 on road and rail transport modes in relation to facilitation measures. This resolution recommended that countries in the region, if they have not already done so, consider the possibility of acceeding to major international conventions in the field of land transport facilitation. Those conventions were developed by the Economic Commission for Europe (ECE) to provide an international legal base for harmonisation of land transport facilitation measures.

To regulate international rail freight transportation, several countries (mostly CIS) are now using the Agreement on International Railway Freight Communications (SMGS), which was formulated by OSJD. On the other hand, the functioning of the TAR as a landbridge linking Asia and Europe depends also on co-ordination with European states, which regulate their international rail traffic in accordance with the "Uniform Rules Concerning the Contract for International Carriage of Goods by Rail" (CIM), formulated by the Convention Concerning International Carriage by Rail (COTIF). The necessity of harmonising the two systems has been recognised by both international transport organisations: OSJD and the Intergovernmental Organisation for International Carriage by Rail (OTIF). Since the 1980s several efforts have been made towards this goal. One of the major initiatives in this field is the draft ECE Convention on International Customs Transit Procedures for the Carriage of Goods by Rail. This convention has been designed with the objective of establishing a homogeneous international customs transit system replacing the traditional national customs documents with the CIM Consignment Note. ECE member countries are also studying the possibility of making the convention applicable also in countries, which are not using the CIM Consignment Note but other similar systems.

Institutional issues for transit facilitation can be distinguished in 3 levels:

- At the top level there are multilateral agreements and international conventions. With
 respect to freight transport, two conventions (standard procedures for customs clearance) are relevant.
 - The Customs Convention on Containers (1972) and Resolution 48/11 (1992).
 - International Convention on Harmonisation of Frontier Control of Goods (1982).

In terms of consignment documentation, two conventions are relevant:

- Convention Concerning International Transport of Goods by Rail (COTIF).
- Agreement of International Rail Freight Communications (SMGS).
- At the middle level there are bilateral agreements.
- At the bottom level there are joint operations of border stations and of related facilities.

Average border - crossing times in Europe are in the 30 - 40 minutes range, whereas those in the CIS countries are measured in days rather than hours. The ECE recommendation for border stopping time is 60 minutes for international shuttle trains and 30 minutes for combined transport (AGTC). Regional studies carried out under the auspices of TRACECA indicate that border - crossing procedures can be simplified and streamlined and have recommended performance indicators to establish common standards.

It is recognized that the processing time for this type of operation is dependant on the size of train, number of wagons and whether wagons are being inspected by one of two railway organizations. However, it is considered that a target processing time of 120 minutes should be achievable, even on the largest international trains.

Test Questions

Please indicate whether the statements below are right /wrong:

- a. The contract is concluded not prior to the stamping of the transport document by the railway. (right)
- b. The loading and unloading time is around 20 hours in Europe. (wrong)

6.10 CIM consignment note

Learning objectives:

The applicant should be aware of using of CIM consignment note. He should be able to fill in the form and to address it to the right receivers of copies.

The contract of carriage must be confirmed by a consignment note (please See the following pages) which accords with a uniform model. However, the absence, irregularity or loss of the consignment note shall not affect the existence or validity of the contract which shall remain subject to these Uniform Rules. The consignment note shall be signed by the consignor and the carrier. For details about filling in the CIM consignment note please read the following:

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WORDING OF THE CONSIGNMENT NOTE (CIM)

The consignment note must contain the following particulars:

- a) the place at which and the day on which it is made out;
- b) the name and address of the consignor;
- c) the name and address of the carrier who has concluded the contract of carriage;
- d) the name and address of the person to whom the goods have effectively been handed over if he is not the carrier referred to in letter c);
- e) the place and the day of taking over of the goods;
- f) the place of delivery;
- g) the name and address of the consignee;
- the description of the nature of the goods and the method of packing, and, in case of dangerous goods, the description provided for in the Regulation concerning the International Carriage of Dangerous Goods by Rail (RID);
- the number of packages and the special marks and numbers necessary for the identification of consignments in less than full wagon loads;
- the number of the wagon in the case of carriage of full wagon loads;
- k) the number of the railway vehicle running on its own wheels, if it is handed over for carriage as goods;
- in addition, in the case of intermodal transport units, the category, the number or other characteristics necessary for their identification;
- m) the gross mass or the quantity of the goods expressed in other ways;
- a detailed list of the documents which are required by customs or other administrative authorities and are attached to the consignment note or held at the disposal of the carrier at the offices of a duly designated authority or a body designated in the contract;
- the costs relating to carriage (the carriage charge, incidental costs, customs duties and other costs incurred from the conclusion of the contract until delivery) in so far as they must be paid by the consignee or any other statement that the costs are payable by the consignee;
- a statement that the carriage is subject, notwithstanding any clause to the contrary, to these Uniform Rules.

Distribution of copies:

1 copy (Consignment Note Original)	is handed over to the						
	consignee when the goods						
	have reached their						
	destination						
2 copy (Way Bill)	for the destination carrier						
	for his data collection						
3 copy (Acknowledgment of Acceptance)	for the station of destination						
4 copy (Consignment Note Duplicate)	is handed over to the sender						
	after the carrier has received						
	the goods						
4a copy	is a special copy for the						
	sender						
5 copy (Dispatch note)	for the dispatch carrier for						
25132 (4) (35)	his data collection						

The carrier must certify the taking over of the goods on the duplicate of the consignment note in an appropriate manner and return the duplicate to the consignor. The consignment note shall not have effect as a bill of lading. That means it can not be traded. Nevertheless it can serve as a document which proves the delivery of goods and facilitates payment.

A consignment note must be made out for each consignment. In the absence of a contrary agreement between the consignor and the carrier, a consignment note may not relate to more than one wagon load.

The consignment note and its duplicate may be established in the form of electronic data registration which can be transformed into legible written symbols. The procedure used for the registration and treatment of data must be equivalent from the functional point of view, particularly so far as concerns the evidential value of the consignment note represented by those data.

Exercise CIM (fill in an "x" in the field CIM 1, please use for this exercise CIM exercise.ppt)

A rail carrier Railion Deutschland AG (58) agrees on a contract for the transport of cement "Bonus" in 50kg-paper sacks at Euro-palettes; 30 Palettes NHM code 25631 (fill in the field 21) (gross weight 30.000 kg (25) from Bonus GmbH, 10245 Berlin, Germany (1) (V.A.T. number - DE 1234567890, number 2541 (2)) to Bud sp. z o. o., ul. 3 maja, 6, 53124 Chełm, Poland (4) at 12.04.2006 (16). The order number is 403.2005 (7) to contract No. 12458 from 01.01.2005 (15). An invoice is also attached to this CIM. (9). The wagon number is 21/51 153 0099 – 2 (18). The rail carrier for transportation in Poland is PKP (57).

The station of dispatch is Berlin Nordost (10). Please give a number of the station of dispatch in the field (12). Use for this the table of DIUM, see below. The board crossing is planed In Frankfurt(oder)/Kunowice (13). Please give a number of the station of board crossing in the field (14). Use for this the table of DIUM. The station of destination is Chełm, Poland (16). Please give a number of the station of destination in the field (17). Use for this the table of DIUM.

The identification number of shipment is 80 03237-5 2180 77777-7 (62).

Please fill in the information above into the correct fields of the form on the following page.

A swepting our respectition (X) Contigues gas and costs of the cost of the cos	ngor concellare - Zutrafflander ankranssen 1. Mar 42. Bis	
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In or service service in the service s		C Arrows - Balance VAM, Invoice
Berlin Nordost. Res - Morrer Pryc - Le C Castline comercistic - X constraint Mit Reflaguege 687 - Frankfurt(Oder)/Kunowice C contract No. 12458 from 01.01.2005	BO 03237-5	Line - on Chelm, Poland Winges tr - diagas to Press - diagas 21/51 153 0099 - 2 Press - diagas Press - diagas response to - diagas Press - diagas response to - diagas X hooterme EXW
Cement "Bonus" 50kg-paper sacks at Euro-palettes 30 Palettes		RID pr D meet cos D mee
B0 03237-5 P P B0 09853-3 EUR 5.0 B0 8087017 P 88 P B1 51 687 P P B2 51 05090-6 EUR 1 B2 58965 P 723 P C B2 F F 5.0		Bit State Particip Bit All All All All All All All All All Al
10 10<	e bargers - Antein Extense an bargers - Antein Extense PKP	Fill Date 1 Mill - 20- Million Sci Water 4 Control 4
Byrynstar, Listernikell Arrings Arrings Byrynstar, Statistical Weinerk Broundsteinen Byrynstar unstallise der bereicht Broundsteinen Byrsteine Statistical Statis Statistical Statisticae Statistical Statistical Statisticae Sta	rul 1	Colla, signature - Calure, Underschaft

Please calculate charges for this transportation.

INCOTERM are used for definition of transportation charges (20): Ex work (EXW).

The DB-Tariff No. 8087017 (A 75) is used for the destination from Berlin Nordost to FrankfurtOder)/Kunowice. Please insert the numbers of the stations in fields (A 70) (80 03237-5, 80 09853-3). Use for this the table of DIUM. Please check a destination between the stations (in the field (A 76) – 88 km). Use for this the table of DIUM. The charge is EUR (A 73) 5.000 (A 74).

The PKP-Tariff No. 58965 (B 75) is used for the destination from Frankfurt(Oder)/Kunowice to Chełm. Please insert the numbers of the stations in fields (B 70) (51 687, 51 05090-6). Use for this the table of DIUM. Please check a destination between the stations (in the field (B 76) – 723 km). Use for this the table of DIUM. The charge is EUR (B 73) 15.000 (B 74).

DIUM for Germany (Excerpt)

	DK (MG) SE (74)							DE (80)										
								Belt		rienkai	ahre LG							
	Numéro de code Kode- nummer Code- number Numero di codice		de outricevensa a von oderungekehrt nach fra elleroment 3 from orvicevensa so				- Flensburg	- Flensburg Großer Mahnö Stora Bätt	- Sassnitz Mitte Se	- Lübeck Skandina - Matmö Transit	- Sassnitz Mukran I 1 Maipeda	Horka 1 Bielawa Doina	- Forst Lausitz	1 Guben	Frankfurt (Oder)	- Küstrin-Kietz	- Tantow Szczecin Gumieno	
٠							406	021	022	107	109	696	690	688	687	686	684	681
	04361 14433 491 14242 05245	2726	Baruth (Mark) Basel Bad Gbf Basel Bad Gbf Basel Bad Gbf Ubf Battenberg	4,10 3,4,10 1,11 3,4,10 4,8,10		243 461 461 461 112	522 1015 1015 1015 640	704 1197 1197 1197 822	396 1159 1159 1159 784	361 880 880 880 505	335 1098 1098 1098 723	169 906 906 906 586	113 876 876 876 556	128 891 891 891 571	123 922 922 922 922	132 952 952 952 952	179 999 999 699 654	221 1041 1041 1041 683
	25290 48205 06099 14867 05605	8 9 6 1	Baumholder Baunatal Bautzen Bebitz Bebra	4,8,10 4,10 4,10 4,8,10 3,4	a,m	141 111 272 253 111	841 511 689 497 531	693 871 679 713	988 655 561 493 675	709 376 528 343 396	927 594 500 432 614	735 457 73 264 420	705 427 153 234 390	720 442 168 249 405	751 473 219 251 436	781 485 260 255 466	828 525 344 295 513	870 554 386 337 565
•	35519 51708 51723 57258 57259	86564	Bebra leere Laes-Wagen Beckedorf Becklingen Beckum Beckum Ost	4 4 4,10 4 4,10	a,m a,m a,m a,m	111 032 032 071 071	531 297 283 467 468	713 479 465 649 650	675 464 450 652 653	396 185 171 356 357	614 403 389 591 592	420 459 473 569 568	390 420 434 539 538	405 420 434 554 553	436 373 367 514 515	466 363 510 511	513 395 410 537 538	555 395 409 564 565
	51607 03299 05008 57273 19496	05859	Beedenbostel Beeskow Beiseförth Ubf Belecke Bendorf (Rhein)	4,10 4,10 4,10 4,10 4,8,10	a,m a,m	032 242 111 103 132	337 542 534 521 653	519 724 716 703	475 414 678 683 865	196 381 399 404 572	414 353 617 622 507	439 163 443 567 703	403 107 413 537 673	403 84 428 552 688	356 37 459 539 719	78 489 535 726	379 194 535 562 753	373 236 577 589 780
	10370 56623 472 51719 51720	5 2 3 1	Benninghausen Benzen Berg (Pfalz) Grenze Bergen (b Celle) Bergen (Celle) Lagerbahnhof	4,8,10 4,8,10 1,11 4 4,8,10	a,m a,m a,m	103 032 142 032 032	500 295 847 291 294	682 477 1029 473 476	662 464 991 458 461	383 184 712 179 182	601 403 930 397 400	546 489 738 465 468	516 445 708 425 429	531 446 723 426 429	518 399 754 379	514 395 784 375 376	541 422 831 402 405	568 421 873 401 404
	15639 10009 22473 03237 03355	89355	Bergisch Gladbach Bergkamen Bergrheinfeld Berlin Nordost Berlin Osthafen	4,8,10 4,8,10 4,8,10 3,4,8,10 4,10	f	095 083 182 221 221	610 496 704 480 476	732 678 886 662 658	795 681 777 336 343	499 385 569 319 315	734 620 718 275 282	639 599 482 196 195	569 452 140 139	684 584 467 135 134	543 498 88 87	663 539 528 78 82	680 566 576 119 126	707 593 617 161 168
•	59501 03095 03371 03231 03065	77280	Berlin Teltowkanal Berlin Westhafen Berlin-Grünau Berlin-Lichtenberg Berlin-Lichterfelde West	4 4,8,10 4,8,10 4,8,10 4,8,10	a,m f	221 221 221 221 221 221	471 460 480 475 468	653 642 662 657 650	359 353 352 341 368	310 299 319 314 307	298 292 291 280 307	197 214 180 196 206	141 158 124 140 150	141 153 131 135 150	94 106 84 88 103	97 101 88 78 106	142 136 135 124 151	184 178 177 166 193
	03085 03093 03018 03078 59504	8 2 9 3 1	Berlin-Marienfelde Berlin-Moabit Berlin-Neukölin Berlin-Reinickendorf Berlin-Rudow Nord	4,8,10 4,10 4,8,10 4,8,10 4,8,10	f f a,m	221 221 221 221 221 221	468 456 467 466 477	650 638 649 648 659	366 349 355 345 365	307 295 306 305 316	305 288 294 284 304	204 210 193 206 203	148 154 137 150 147	148 149 137 145 147	101 102 90 98 100	104 97 93 93 103	149 132 138 128 148	191 174 180 170 190
	03117 03146 59602 59601 03107	98350	Berlin-Ruhleben Berlin-Rummelsburg Berlin-Spandau Johannesstift Berlin-Spandau OsthE Berlin-Treptow	4,8,10 4,8,10 4,8,10 4,8,10 4,8,10	a,m a,m	221 221 221 221 221 221	448 475 458 452 467	630 657 640 634	348 342 358 352 365	287 314 297 291 306	287 281 297 291 291	212 191 222 216	156 135 166 160	156 130 166 160	109 83 119 113	105 82 115 109 \$3	140 125 150 144	182 167 192 186 160
	03586 24184 24405 06350 08518	54333	Berlin-Wilhelmsruh Bernburg Bernburg Zementwerk Berthelsdorf (Erzgeb) Bestwig	4,8,10 4,10 4,8,10 4,8,10 4,10	f	221 253 253 274 103	502 495 491 690 560	684 670 683 852 742	358 492 499 566 708	341 334 327 524 429	297 431 439 505 647	238 268 176 558	182 238 245 185 528	177 253 250 200 543	130 250 257 247 564	120 254 261 288 560	141 294 301 349 587	183 336 343 391 614

01.01.2006

				85.77.6					DE (8						E (80)	
					DK (M)		SE (74)	_	LT(24)	_			PL (51)	-		
Numiro de odde Kode- nummer Code- number Numero di codice	de ouviceversa a von oderungskehrt nach for oferomentt si from orviceversa to				- Flensburg Padborg	- Fiensburg Großer Belt. Maimö Stora Billt	SeeTrelleborg	Lubeck Skandinavienkai Maimő Transit	: <u>Sassnitz Mukran Fähre LG</u> Klaipeda	Horka Bielawa Dolna	- Forst Lausitz Zasieki	Gubin	Frankfurt (Oder)	Kustrin-Kietz	- Tantow Szczecin Gumience	Grambow Szczedin Gumlence
					408	021	1.11	1,11	1, 11	1, 11	1,11	1, 11	1, 11 687	688	684	1, 11 681
29514	7 Fellbach	4,10		162	865	1047	1001	730	940	701	676	691	722	752	799	84
08338 22336 29585	6 Ferndorf (Kr Siegen) 2 Feucht 7 Fichtenberg	4,8,10 4,10 4,8,10		104 184 161	613 796 832	795 978 1014	798 832 954	502 661 697	737 771 893	632 532 654	602 507 629	617 522 644	553 675	583 705	683 630 752	710 672 794
08267 04328 02204	7 Finnentrop 1 Finsterwalde (Niederlausitz) 6 Fischach (Schwab)	4,8,10 4 4,8,10		104 244 202	577 584 915	759 766 1097	762 458 979	466 423 780	701 397 918	666 126 679	636 70 654	651 85 669	624 128 700	620 169 730	647 241 777	67- 28 81
20180 08171	6 Fischbach (Inn) 1 Flandersbach	4.8.10 4.8.10	f	206 092	1030 577	1212 759	1038 764	895 466	977 703	721	702	717	748	789	836	87
24048 406 021 01425	1 Flechtingen Flensburg Grenze Flensburg Großer Belt Grenze 8 Flensburg Weiche	4,10 1,11 1,11 4,8,10		252 011 011 011	396 0 196 7	578 196 0	483 483 665 476	250 185 367 178	422 422 604 415	315 660 842 653	285 604 786 597	300 604 786 597	275 557 739 550	278 553 735 546	312 538 720 531	339 450 630
11120	3 Flörsheim (Main)	4,8,10		123	716	898	860	581	799	607	577	592	623	653	701	74
04044 690 24541 20220	4 Forst (Lausitz) Forst (Lausitz) Grenze 5 Forsthaus Eiche 0 Forsting	4,10 4,10 1,11 4,8,10 4,10	f	183 244 244 252 206	602 604 417 1003	968 784 786 599 1185	474 476 1003	441 443 271 868	413 415 423 942	485 102 104 308 686	455 2 0 278 667	61 63 293 682	501 112 114 268 713	531 153 155 271 754	257 259 307 801	29 29 30 33 84
05310 06308 11073 11081	8 Frankenberg (Eder) 1 Frankenberg (Sachs) 4 Frankfurt (Main) Hgbf 7 Frankfurt (Main) Ost	4,10 4,8,10 3,4,8,10 3,4		112 274 123 123	628 652 696 690	810 834 878 872	772 572 840 834	493 498 561 555	711 511 779 773	574 210 587 581	544 204 557 551	559 219 572 566	253 603 597	602 294 633 627	842 355 580 674	67 39 72 71
11069 11085	2 Frankfurt (Main) Ost Ubf 8 Frankfurt (Main) Osthafen	4,10	a,m	123	690 690	872 872	834 834	555 555	773	581 581	551 551	566 566	597 597	627 627	874	71
09853 03173 39420	1 Frankfurt (Main) Westhafen 3 Frankfurt (Oder) Grenze 2 Frankfurt (Oder) Oderbrücke 5 Frankfurt (Oder) Pbf	2,3,4,8,10 1,11 4,10 4,8,10	a,m	123 242 242 242	699 567 555 553	881 739 737 735	843 394 392 390	564 396 394 392	782 333 331 329	590 170 168 166	560 114 112 110	575 55 53 51	606 0 2 4	636 49 47 45	165 163 161	20 20 20
71772 11097 11001 11101 05061	B Frankfurt (Oder) Ubf Frankfurt-Griesheim Frankfurt-Griesheim Industriepark Frankfurt-Höchst Frankfurt-Höchst	4,8,10 4,10 4,8,10 3,4,10 4,8,10	f	242 123 123 123	553 699 699 703 703	735 881 881 885 885	390 843 843 847 847	392 564 564 568 568	329 782 782 786 786	166 590 590 594	110 560 560 564	51 575 575 579 579	4 606 606 610 610	45 636 636 640	161 583 683 587	20 72 72 72 72
11102 22165 48005	1 Frankfurt-Höchst Industriepark 5 Frauenaurach 3 Frachen	4,8,10 4,8,10 4,10	2 00	123 184 095	703	885 971	847 799	568 654	786	594 504	564 474	579 489	610 520	640 550	587 597	72 63
58574 06349	5 Fredenbeck 5 Freiberg (Sachs)	4,10 4,10	a	031 274	251	433 857	438 561	140 519	377 500	171	189	195	242	437 283	344	41 38
14352 26188 20110 06342 06340	9 Freiburg (Breisgau) Gbf 3 Freihöls 3 Freilassing 0 Freital-Hainsberg 4 Freital-Potschappel	3,4 4,8,10 4,8,10 4,10 4,10		171 192 206 273 273	954 839 1060 649 646	1136 1021 1242 831 828	1098 804 1025 530 527	819 685 906 488 485	1037 743 964 469 466	845 487 708 140 137	815 468 689 149	830 483 704 164	861 514 735 211 208	891 555 776 252 249	602 823 313 310	644 865 355
13230 51202 29260 11381	8 Freilstedt 0 Frickenhausen 7 Fridingen (b Tuttlingen) 1 Friedberg (Hess)	4,8,10 4,10 4,8,10 3,4	a,m	051 162 172 123	400 891 1008 663	582 1073 1190 845	512 1327 1112 807	254 756 873 528	451 965 1051 746	330 732 812 595	300 702 787 565	315 717 802 580	290 748 833 611	293 778 863	329 825 910	36 66 95 70

DIUM for Poland

(Excerpt)

	T		_	_			_	_		F	PL(51)
					cz	(54)			DE	(80)	
Numero de code Kode- nummer Code number	de von from	ou vice versa oder umgekehrt or vice versa	á nach a fro	HOLAZY OVICE 11	YLESIE 0V 11	ISZÓW IESTI 11	ÓW ANT V ČECHÁCH 11	WA DOLNA A 11	KI r (LAUSITZ) 11	111	MICE (FURT/ODER 11
Numer	100000		10000	¥CL	BY	ERC	WIC	RK	SIE RS	JBEL	ANN
kodowy	od	lub odwrotnie	do	<u>0</u> ≣ 824	823	822	820	696	690	<u>688</u>	687
02723-5	BUK		10,B	335	338	295	264	229	220	145	144
07420-3	BUKOWN	0	8,K	179	284	312	408	373	410	440	464
06400-6	BUSKO Z	DRÓJ	A	331	412	439	525	490	527	557	581
06134-1	BYCZYNA	A KLUCZBORSKA	Α	162	243	212	295	260	297	327	342
01676-6	BYDGOS	ZCZ EMILIANOWO	3,A,F	421	424	381	410	375	366	316	315
01840-8	BYDGOS.	ZCZ GŁÓWNA	3,A,E,F,H	430	433	390	419	384	375	325	301
01678-2	BYDGOS.	ZCZ ŁĘGNOWO	8,10	437	440	397	426	391	382	332	312
01671-7	BYDGOS	ZCZ WSCHÓD	3,A,F,H	433	436	393	422	387	378	328	308
05739-8	BYSTRZY	CA KŁODZKA PRZEDMIEŚCIE	10,B	106	23	93	203	208	273	331	355
05062-5	BYSTRZY	CA KOŁO LUBLINA	A	513	594	621	707	672	683	668	667
02755-7	BYTNICA		10.B	323	326	251	193	158	149	74	52
07230-6	BYTOM		3.A.H.K	133	238	266	362	327	364	394	418
07255-3	BYTOM B	OBREK	3.8.10.K	130	235	263	359	324	361	391	415
07241-3	BYTOM K	ARB	3.A.K	131	236	264	360	325	362	392	416
07242-1	BYTOM K	ARB B	3,8,K	131	236	264	360	325	362	392	416
07243-9	BYTOM K	ARB C	3,8,K	131	236	264	360	325	362	392	416
00555-3	BYTÓW		A	560	563	520	529	494	485	435	375
01632-9	BZOWO (GORAJ	8	392	395	352	356	321	312	262	261
03894-3	CELESTY	NÓW	10,B	438	519	513	596	561	563	520	519
07870-9	CHABÓW	KA	A	269	374	402	506	471	508	538	562
06790-0	CHAŁUPH	a	3,A,H,K	128	233	261	365	330	367	397	421
825	CHALUPI	KI GR	11,K					332	369	399	423
06460-0	CHARSZ	NICA	10,B	225	330	358	454	419	456	486	510
05090-6	CHELM		3,A,H	569	650	677	763	728	739	724	723
05106-0	CHEFW C	EMENTOWNIA	3.8	573	654	681	767	732	743	728	727
07732-1	CHEŁM Ś	LĄSKI	10,A,K	167	272	300	396	361	398	428	452
05105-2	CHEFW M	SCHODNI	3,10,A	571	652	679	765	730	741	726	725
01921-6	CHEŁMC	E	A	377	413	370	399	364	355	305	304
07794-1 02016-4	CHELMER	К А	8,10 A.E.F	184 448	289 451	317 408	413 437	378 402	415 393	445 343	469 342
06426-1	CHMIELN	IK.		220	401	420	514	470	510	EAC	670
06570.6	CHMIELO	W KOLO TARNORDZECU	e	320	401	420	514	4/9	510	620	644
06571.4	CHMIELÓ	W KOLO TARNOBRZEGU P	8	204	415	502	500	553	500	620	644
03029.9	CHOCICZ	A NOLO TARNODRZEGU B	٥ ٨	204	204	241	200	254	242	220	044
01956-2	CHOCIUZ	LASKI	A	281	309	322	405	370	378	387	392
01618-8	CHODZIE	7	۵	381	384	341	345	310	301	251	225
01333.4	CHOINA		Â	424	427	262	204	260	260	105	200
01560.2	CHOINIC	F	3 A E H	404	407	442	451	416	407	267	207
05400-7	CHOINÓ	N	۵, ۳,۳ ,۳	199	101	116	102	60	107	100	201
08154-7	CHOR7FI	ÓW	10 A	373	478	506	602	567	604	634	658
		55.621				500	502	507	504	504	500

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number Numer	from or vice versa	a fro	UCHOR	HKOV	ZIMES	<u>VDLAN</u>	RKA 11	SIEKI RST (U	IBIN IBEN 11	NOWIC	
kodowy	od lub odwrotnie	do	824	823	822	NH B20	HOH HOH	E OB	688	687	
687	KUNOWICE GR	11	375	378	303	245			000		
04925-4	KUNÓW	8	369	450	477	563	528	565	589	594	
04346-3	KURZAGÓRA	8.10	264	267	224	228	193	184	193	198	
03220-1	KUTNO	3.A	363	442	399	444	409	400	357	356	
06888-2	KUŹNIA RACIBORSKA	A,K	92	197	225	329	294	331	361	38	
02500-7	KUŹNICA BIAŁOSTOCKA	3.10.A	643	724	718	801	766	768	725	724	
844	KUŹNICA BIAŁOSTOCKA GR	11	647	728	722	805	770	772	729	72	
02310-1	KWIDZYN	3.A.H	526	529	486	515	480	471	421	416	
02311-9	KWIDZYN B	3.8.F	526	529	486	515	480	471	421	416	
01291-4	LAS SUWALSKI	8	719	800	785	814	779	770	720	719	
01720-2	LASKOWICE POMORSKIE	А	484	487	444	473	438	429	379	35	
04287-9	LASOCICE	8.10	242	245	198	192	157	148	157	170	
03650-9	LEGIONOWO	A	424	505	499	582	547	547	504	503	
05300-9	LEGNICA	3.4	171	174	99	121	86	123	180	204	
06875-9	LEKARTÓW	A,K	116	221	249	353	318	355	385	409	
06806-4	LESZCZYNY	8,10,K	127	232	260	364	329	366	396	420	
04260-6	LESZNO	3,A,E,F,H	235	238	195	199	164	155	164	169	
04128-5	LESZNO GÓRNE	A	218	221	146	119	84	75	154	178	
06213-3	LEWIN BRZESKI	A	96	177	158	244	209	246	276	300	
08322-0	LEŻAJSK	A,H	446	551	579	675	640	677	707	73	
00525-6	LEBORK	3,A	630	633	590	594	559	550	500	434	
07743-8	LEDZINY	8.K	167	272	300	397	361	399	428	452	
00935-7	LEGAJNY	8	600	603	560	589	554	545	495	494	
07790-9	LIBIAŻ	8	190	295	323	419	384	421	451	475	
02261-6	LIDZBARK	8,10	541	544	501	530	495	486	436	43	
08220-6	LIMANOWA	A,H	316	421	449	553	518	555	585	60	
06523-5	LIPA	Α	443	524	551	637	602	639	669	693	
01552-9	LIPKA KRAJEŃSKA	A	457	460	417	421	386	377	327	267	
02002-4	LIPNO	A,E	474	477	434	463	428	419	369	368	
08478-0	LUBACZÓW	A	478	583	611	707	672	709	739	763	
05250-6	LUBAŃ ŚLĄSKI	A,E	237	196	110	30	35	100	195	21	
05060-9	LUBARTÓW	A	524	605	632	718	683	694	679	67	
01631-1	LUBASZ KOŁO CZARNKOWA	10.B	388	391	348	352	317	308	258	257	
05550-9	LUBAWKA	10.B	173	132	46	126	131	196	278	302	
05328-0	LUBIN GÓRNICZY	A	193	196	121	143	108	145	158	183	
05050-0	LUBLIN	3,A.F.H	496	577	604	690	655	666	651	65	
05040-1	LUBLIN TATARY	3.A.F	499	580	607	693	658	669	654	65	
05137-5	LUBLIN ZEMBORZYCE	10 A	505	586	613	699	664	675	660	65	
04657-3	LUBLINEK	8.10	288	369	332	415	380	388	397	40	
07140-7	LUBLINIEC	3.AHK	132	213	240	326	291	328	358	38	
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2006.01.01

After receiving the goods, the manager of the Bud sp. z o. o. signs the consignment note. Who should receive the first, second, third and fourth copy of the consignment note? Please indicate the correct answer.

1 copy (Consignment Note Original)	the consignee
2 copy (Way Bill)	the destination carrier
3 copy (Acknowledgment of Acceptance)	the station of destination
4 copy (Consignment Note Copy)	the sender
5 copy (Dispatch note)	the dispatch carrier

For more information about CIM consignment note please read the following:

The Convention concerning International Transport by Rall (COTIF) contains the "Uniform Rules concerning the transport of goods by Rall, RU-CIM". The transport document is a unified form, the Rall consignment note.

Railways often do not assume ilability for the quantity of goods handed over unless this quantity has been checked. It is therefore in the best interests of the shipper to ask that weighting take place. They can do this by writing the request on the waybill, a service for which they will pay a supplementary charge. The shipper cannot ask for a verification of the number of parcels. The right of disposal of the shipper stops:

- Upon delivery
- When the consignee asserts their right to the goods
- When the goods enter the country of destination, except in the case of a carriage forward shipment or when the shipper refuses the consignee's right of disposal of the goods by means of a specific clause. The railway carries out Customs formalities during the trip, unless requested not to do so, and upon departure and arrival if requested to do so.

Carriage forward shipments are generally accepted, except for certain goods. The carriage charges and the ancillary charges can be paid by the shipper either integrally or only up to a point on the border.

The liability of the railways is tacity understood to exist, but follows rules of exemption much like the CMR. General clauses of exemption are: the fault of the claimant, inherent vice of the goods or through "circumstances which the railway could not avoid and the consequences of which it was unable to prevent". Specific causes of exemption are nine in number and if it is established that the claimage could have occurred through one of these nine cases, it is up to the contractor to prove that this was not the case.

Reimbursement covering material damage is limited to a rate per kg gross weight, to which are added carriage costs and other andilary charges. Immaterial loss is not reimbursed exoept in the case of a specific delivery declaration (the declaration of value not being considered as proof). The time limit for claims is one year. Wilful negligence or default suspends this limit.

The rules concerning assessment of damage or loss upon arrival are very strict. It is necessary to request that an assessment be drawn up by the railway agents (they being the only ones who are qualified to do so) on a document called a damage or loss report (processverbal). In the case of disagreement an independent assessor may be needed. Either this person is mutually agreed upon by the parties involved or they can be named by a judge. It can be dangerous to accept without common agreement a damage and loss report which places the blame upon the shipper.

6.11 Tariffs in Railway Transport

Learning objectives:

The applicant should be aware of tariffs in railway transport, of Uniform Distance Table for International Freight Traffic. The applicant should be able to use DIUM in praxis.

In many instances, the railways freight tariffs are those devised in a monopoly-era or in an era where the railways were not subjected to competitive forces similar to the ones that they are facing now. Consequently, the related rate-making procedures applied, and to a large extent still apply, very often to groups of commodities for which single freight rates are set in relation to the length of haul. Such systems do not have the flexibility needed to quickly adjust to the competitive nature of the container business environment.

Two types of problems are imposed by the existing tariff-setting systems: institutional and methodological. Institutional problems are those which adversely affect the relationship between the railway systems and their customers in matters of tariff negotiation, while methodological problems impair the ability of the railway systems to be competitive in terms of price.

6.12 Uniform Distance Table for International Freight Traffic (DIUM)

Learning objectives:

The applicant should be aware of Uniform Distance Table for International Freight Traffic. The applicant should be able to use DIUM in praxis.

The DIUM contains the tariff distances between the internal stations and frontier points of the participating railways. They are applicable when calculating carriage charges for all international freight and livestock consignments, in so far as the through international tariffs make reference to the DIUM. For the tables DIUM for main countries see http://www.uic.asso.fr/fret/DIUM,60.html.

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02616-1	BABIMO	ST	10,B	319	322	263	205	170	161	86	103
06724-9	BABORÓ	W	A,K	134	239	267	371	336	373	403	427
04739-9	BABY		10,B	272	353	380	466	431	451	460	465
01963-8	BARCIN		10,B	403	406	363	392	357	348	298	297
00936-5	BARCZE	wo	8,10	606	609	566	595	560	551	501	500
05648-1	BARDO	PRZYŁĘK	А	74	55	83	193	198	241	299	323
03321-7	BARŁOG	1	10,B	326	401	358	403	368	359	316	315
01353-2	BARNÓV	VKO	8,10	412	415	340	282	247	238	163	73
04842-1	BARTOD	ZIEJE	10,A	389	470	497	583	548	559	544	543

The stations / terminals included in the left-hand column are listed alphabetically, the frontier points being shown in heavy type. The frontier points mentioned in the headings of the distance columns are listed in country order in line with the abbreviated designation and the country code of the neighbouring country. Only the regulations in the internal tariffs of the individual railways are legally binding.

Similarly, all restrictions and information regarding the technical equipment of the stations are subject to the authorities embodied in the internal tariffs of the individual railways.

Test Questions

Please indicate whether the statements below are right / wrong:

- a. The DIUM are tables of tariffs for international railway transportation (wrong)
- b. The DIUM are applicable when calculating carriage charges for all international freight and livestock consignments. (right)
- c. Destination between Barczewo (51 00936-5) to the board crossing to Germany in Guben (688) is 306 km (wrong)

6.13 Outline of Tariff Setting Methods Applied by Railways in CIS

Learning objectives:

The applicant should be aware of common tariffs in the CIS countries.

Most of the railway systems operating in the TRACECA corridor are members of OSJD, which has provided a forum through which its members can harmonize their approaches to tariff setting. In practice, however, it has not fully operated in this way since an "additive tariff" concept, whereby individual railway systems apply their own tariff portions to the moving in the corridor, has most often been the norm with these tariff portions being loosely based on "common" transit tariff rates applied to the system's share of the through haulage distance. In reality, therefore, there is no through transit tariff, as such.

Such a fragmented and additive approach to tariff application usually encourages individual railway systems to maximize their revenue from international traffic opportunities, irrespective of whether the resulting tariff rates are competitive with those of competing modes, e.g. shipping lines.

Most OSJD railways use two International Transit Tariff scales:

• the ETT tariff, which is intended to be applied to rail freight traffic between two OSJD member countries, which must transit through the territory of a third, or more, member countries; and

• the MTT tariff, which is intended to be applied to rail freight traffic between two OSJD member countries, but which is not required to transit through the territory of any other member country.

It is understood that the two tariffs have overlapping areas in their respective sphere of application and that they were not established in the first place with due attention given to cost recovery. With this in mind, and also the fact that the intersection of rates of both scales were raising problems in the choice of scale to apply to specific traffic, OSJD has been taking actions since 1997 to bring both scales closer together.

The tariff scales appear to be based on long - discredited costing methodologies dating from the central planning era. The MTT scales allow heavy discounts, which compensate somewhat for the lack of rational costing and allow some commercial flexibility. In general high transit tariffs appear to cross - subsidise domestic traffic.

In practical terms, member countries of OSJD have the possibility to apply discretionary discounted rates either individually, or collectively, in order to be competitive on some routes or traffic segments. Such practices tend to indicate that the OSJD tariff constitutes a maximum -or ceiling- charge from which individual members may discount their own charges. In this regard, new tariff alliance among OSJD members may also indicate that the OSJD tariff system may gradually be fading out.

Finally, although the idea of through tariff for international movements relating to some specific types of traffic still has to be accepted by many countries, there is a growing trend in some other countries that such tariff practices are being put in place. Such a trend is noticeable, for example, on Kazakhstan Railways, Mongolian Railways as well as Russian Railways. However, the indication is that such through tariffs are determined as the average of national tariffs as well as tariff distances on each individual railway, while the primary determinant of railway tariff levels in a competitive environment should be the level of charges of competitors.

Following is an example to price calculation for transportation from Offenbach, Germany to Almaty, Kazakhstan:

By looking at an example of price components for a 20' Container transport from Offenbach (Germany) to Almaty, price calculation can be clarified: Clients order:

Pick-up at shippers location in Offenbach and delivering in free terminal Almaty (including availability of a rental container).

Cost elements:

- Positioning empty container at shipper's premises
- · Pick up loaded container at shipper's premises
- Transhipment to terminal at Frankfurt / Main Ost
- Terminal fee at Frankfurt / Main Ost
- Train transportation Frankfurt / Main Ost to Berlin
- Train composition for appropriate destinations and quality control in Berlin
- Train transport Berlin to Malaszewicze / Brest
- Border fee and re-forwarding at Brest
- Transhipment in Brest
- Train transportation to Almaty

Almaty - Brest (4,920 km) - Three Rail Operators involved (KTZh, RZD, BC).

- A rail owned 20' container transport cost is around 1,000 USD.
- One ton of crude oil transport cost is around 100 USD.
- One ton of other bulk (or non-bulk) commodity transport cost is approximately 40% of the equivalent oil transport.

In general

•	Cost of a 20' container	1	0.15 - 0.20 USD per km
•	Cost of a 1 ton of oil	:	0.15 - 0.20 USD per km (10 t
	consignment)		
•	Cost of a 1 ton of bulk	:	0.05 - 0.10 USD per km (10 t
	consignment)		

It is estimated that in total rail transport cost (door-to-door) the various cost elements are contributing, as follows:

•	Pure transport cost	:	approximately 60%
•	Return of empty container	;	approximately 20%
•	Road transport to / from terminals	:	15% - 20%
•	Terminal / customs costs	:	5% - 10%

Freight rates are not fixed and vary considerably. Containers transport is cheaper than general cargo. The freight rate per km between Almaty and Moscow is approximately 50% lower of that between Almaty and Berlin. A container transported within Europe costs approximately the double than TranSiberian rate, whilst a container transported in Central Asia costs even

more. Lower rates apply in intra - CIS transports in comparison to transit via CIS.

Due to differences in the type of unit being transported in rail route, it is difficult to compare the costs. According to transport operators in Kazakhstan, the cost of transportation by rail between Istanbul and Almaty (via rail ferry to Novorossiysk, Volgograd, Astrakhan) is in the US \$ 1,435 to US \$ 2,000 range for a 20-foot container, and is US \$ 2,385 for a 40-foot container. According to Uzbek transport operators, the cost of a wagon between Kapikule and Tashkent (via rail ferry Varna - Ilyichevsk, Russia, Kazakhstan) is in the range of US \$ 7,500 - US \$ 8,000, depending on the commodity. It appears that the ferry / rail option of Istanbul - Novorossiysk - Almaty has a significant cost advantage over the other routes, even taking into account the fact that the quote is for up to Almaty. For both rail and road, the transport costs also include a portion for the empty return of the container to the depot. A reduction in costs would be possible if the import and export of container transport was better balanced.

Test Questions

Please indicate whether the statements below are right/wrong:

- a. Most OSJD railways use the ETT tariff, which is intended to be applied to rail freight traffic between two OSJD member countries, which must transit through the territory of a third, or more, member countries. (right)
- Member countries of OSJD have the possibility to apply discretionary discounted rates in order to be competitive on some routes or traffic segments. (right)

6.14 References - Further Reading

Web Sites

CER (Community of European Railway and Infrastructure C	ompanies) Link: www.
CIT (International Railway Transport Committee)	Link: www.cit-ra
CLECAT (European Association for Forwarding)	Link: www.clec
ECMT (European Conference of Ministers of Transport)	Link: www1.oecd.org
EIA (European Intermodal Association)	Link: www.eia-ngo

EIM (European Rail Infrastructure Managers)	Link: www.eimra
ERA (European Railway Agency)	Link: www.era.
ERFA (European Rail Freight Association)	Link: www.e
ERFCP (European Rail Freight Customers' Platform)	Link: www.erfo
European Commission	Link: europa.
European Railway Review Link: www.russellpublishing.com/railway/index	
ICF (Intercontainer - Interfrigo)	Link: www.icfonline
OSJD (Organisation of Railways Cooperation)	Link: www.rail-net.org
OTIF (Intergovernmental Organisation for International Carriage by Ra	Link: www.ot iil)
RFG (Rail Freight Group)	Link: www.rfg.c
UIC (International Union of Railways)	Link: www.uic.a
UIP (International Union of Private Wagons)	Link: www.uipra
UIRR (Int'l Union of Combined Road - Rail Transport Compani	es) Link: www.uir
UNECE (United Nations Economic Commission for Europe)	Link: www.unec
UNESCAP (UN Economic & Social Commission for Asia & Pacific)	Link: www.unesca
UNIFE (Union of the European Railway Industries)	Link: www.uni

Legal Documents

• Convention concerning International Carriage by Rail of 9/5/1980, version applicable as from 1/11/1996 (COTIF).

- Uniform Rules concerning the Contract for International Carriage of Goods by Rail (CIM) - Appendix B of COTIF.
- Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Annex I of CIM.
- Regulations concerning the International Haulage of Private Owners' Wagons by Rail (RIP) Annex II of CIM.

- Regulations concerning the International Carriage of Containers by Rail (RICo) -Annex III of CIM.
- Regulations concerning the International Carriage of Express Parcels by Rail (RIEx) - Annex IV of CIM.
- Amendment Protocol (Vilnius Protocol 3/6/1999) for revised COTIF 1999.
- UNECE International Convention to facilitate the crossing of frontiers for goods carried by Rail (1952).
- UNECE International Convention on the Harmonization of Frontier Controls of Goods (1982).
- UNECE European Agreement on Main International Railway Lines / AGC (1985).
- UNECE European Agreement on Important International Combined Transport Lines and related Installations / AGTC (1999).
- E.C. Infrastructure Directives (91/440, 95/18, 95/19, 2001/12, 2001/13, 2001/14).
- E.C. Interoperability Directives (96/48, 2001/16).

Selected Studies and Reports

E.C. / TACIS Technical Assistance projects (TRACECA region)

- TRACECA Trade Facilitation, 1998.
- Joint Venture for Trans Caucasian Railways, 1998.
- Railways Tariffs and Timetable, 1998.
- Intermodal Services Implementation and Training, 2000.
- Hamonisation of Border Crossing Procedures, 2003.
- Unified Policy on Transit Fees and Tariffs, 2003.
- Common Legal Basis for Transit Transportation, 2004.

UN-ESCAP Studies and Reports

- Development of Asia Europe Rail Container Transport through Block Trains, Northern Corridor of TAR, 1999.
- Development of Trans-Asian Railway (TAR), Southern Corridor, 1999.
- Development of Trans-Asian Railway (TAR), North South Corridor, 2001.
- Transit Transport Issues in Landlocked and Transit Developing Countries, 2003.

UIC: Global Rail Freight Corridors (Europe - Asia) Traffic Study, 2000.

E.C. With Paper: European Transport Policy for 2010, 2001.

Annex 1 Best Practices

BEST PRACTICES BUT ALSO MALFUNCTIONS IN RAIL OPERATIONS

Rail Freight Group in U.K.

RFG has over 150 member companies including customers, logistics providers, suppliers, terminal operators, freight train operators and port operators.

<u>Maersk</u> shipping line handles some 20% of the UK's total deep-sea container traffic, some 160,000 containers, to inland destinations by rail. Maersk's customers represent a substantial number of established household and industry names, all dependent on efficient supply links to ports supported by rail.



One of the UK's major road hauliers, the <u>Malcolm Group</u> started using rail in February 2001. Since then the number of trains they operate has risen more than three-fold. ASDA is amongst many customers Malcolm's has attracted to rail, saving the supermarket retailer 4 million road vehicle miles per annum.

Three out of four <u>Jaguar</u> cars built at Castle Bromwich, and 90% of those for export, leave the factory by rail. Trains from Castle Bromwich use a brand new £10 million rail loading facility opened in March 2003. Rail freight delivers savings on plant operation and delivery times.

Three quarters of the French wine sold in <u>Marks &</u> <u>Spencer</u> stores comes to the UK by rail. Marks & Spencer have been using rail to import beer, wine and spirits from the EU for over two years. 40% of total intake into their national distribution centre arrives on rail. Marks & Spencer also make deliveries to their Scottish RDC using rail, taking 350 vehicles a year off the UK roads. The company is currently looking at ways to expand their use of rail in Scotland.



Associated British Ports (ABP) is the UK's largest port operator. The company has a policy of promoting and facilitating the use of rail, and more than 20 million tonnes is delivered to or from ABP ports by rail each year. To give more port users the opportunity of using rail, ABP's logistics division acquired the Hams Hall Rail Terminal operation in the Midlands in 2002. Since then, the terminal has been extended and throughput has increased dramatically.

<u>Rosebys</u>, the UK's largest home textile retailer, operates a rail-connected regional distribution centre in Selby through a joint partnership with The Potter Group. GB Railfreight provides a daily rail service for Medite Shipping Co (UK) Ltd from the Port of Felixstowe to supply the centre. The goods supplied by rail include towels, duvet covers, bed linen, pillowcases and ready-made curtains.



In excess of 90% of the newsprint supplied to <u>Stora Enso</u> to publishers News International. Trinity Mirror and Associated News uses rail freight in some part of the supply chain. Rail freight offers an economically efficient solution and the reliability needed to keep the printing presses running.

<u>ASDA</u> use rail to carry food, general merchandise and clothing between Daventry and Scotland. This rail saves ASDA 4 million lorry miles and 314,00 gallons of diesel fuel every year, equivalent to taking 6,140 lorries off the roads. ASDA have recently expanded their use of rail and now use services connecting the Port of Felixstowe and Daventry, and between Grangemouth and Aberdeen.





Each year rail freight keeps almost 4 million tonnes of freight off the roads in the <u>Peak District National</u> <u>Park</u>. This equates to around 200,000 lorry movements. Many businesses important for local jobs and supporting the local economy depend on rail freight to reduce their environmental impact.

Intercontainer - Interfrigo (ICF)

ICF operates regular rail services across Europe and the CIS, mostly non-stop. Most operations comprise block trains and shuttles on dedicated European routes for rail / road container, swap body and trailer transports. If volumes fall short of the regular block train threshold they use hub-and-spoke systems.

Mean transport distances are in excess of 1,100 km (long haul). ICF runs approximately 1,000 own trains per month, which connect Europe's major seaports and economic centres. Value added services comprise electronic reservation, electronic booking, on line tracking and tracing, terminal services, road feeder services and supply of containers. ICF carries both general and special consignments (e.g. dangerous goods).

The E.C. PACT Intermodal Program Success (1992 - 2000)

- New combined rail / sea link Sweden Germany / Austria Italy.
 Carries around 500,000 t / year and reduces journey times by 48 h.
- Rail / air services between Amsterdam and Milan airports.
 First year of operation : 45 air freight pallets / week.
- Rail / sea service between Spain and Germany. Carries approximately 6,500 trailers / year.

Manufacturing Companies Becoming Rail Freight Operators in E.U.

- BASF (chemicals) set up a joint venture for freight operations.
- IKEA (consumer goods), sets up a separate company to manage transport of its own goods. Estimates to increase rail transport share from 18% to 40% by 2006 (equivalent to around 500 trains / week).

Russian Railways

Russian railways offer container block train operations for international and transit transports, ensuring safety (TransSiberian rail operations are accompanied by armed guard) and simplified customs procedures for transit (a copy of the Railway Bill is equivalent to customs declaration). Official transit times for selected international / transit routes:

- Moscow Beijing : 8 days
- Moscow Berlin : 4 days
- East Nokhodka / Vostochny port Brest : 12,5 days
- East Nokhodka / Vostochny port Chop : 17,5 days

Transit times via the TransSiberian rail line are estimated to be 15 - 17 days less than deep sea transport. The rail line (approximately 10,000 km long) has a carrying capacity of 100 mil tons / year (and 200,000 TEUs / year).

Examples of Malfunction in Rail Operations

- <u>Companies can't count</u>: Some rail companies admit that they would not be able to say
 how many locomotives or wagons they have available or give the precise location of
 trains. So sometimes trains which are scheduled (usually freight) have to be cancelled
 because there is no locomotive, or no driver, or because the driver has not been told.
- <u>Trains don't run properly</u>: It takes 30 40 minutes to replace the locomotive on a freight train and to check that the train is in proper working order (changing the locomotive, filling out the composition form, checking the brakes, changing over the driver and crew, inspecting the train, carrying out checks on dangerous materials, checking documents, making up the train, labelling the wagons, train report, checking the rear light). All this work is obviously wasted if the locomotive and crew are not ready on time. According to UIRR, of 20,000 full combined international transport trains investigated, only half were on time in 2000.
- <u>Missing information</u>: At borders, one network hands over the train to another. They exchange information on loads, destinations, and train composition. Computer links between systems do exist, but are not used systematically because they are not particularly reliable, or information is often exchanged on paper. This information may arrive too late or it may not be accurate, and will need to be checked.
- <u>"Ghost trains</u>": A freight train stops to change locomotive, but it may then be held up even longer while waiting for a train path to become free on the neighbouring network. A locomotive may have to wait for a train: a train may have to wait for a locomotive. Often there is no information on when they will arrive, which just makes matters worse.
- With all the various delays, the average speed of international rail haulage is only 18 km / hour, which is slower than an icebreaker opening up a shipping route through the Baltic Sea!

Source: E.C. White Paper, 2001

Annex 2 CIM



Source : First SHCF.

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Annex 3

Frachtbrief CIM SMGS RU-ENG



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Annex 4

Forwarding Case

Solve a complex forwarding case

Situation:

Considerable volumes of Scotch whisky are exported from warehouses in Scotland to the rest of the world. It is carried in containers and, as a dead-weight cargo; the containers can be loaded to their maximum gross capacity by weight.

In the U.K. the maximum gross vehicle weight permitted on the road at the time of this case was 38 tonnes, which gave a vehicle payload of approximately 25 tonnes of cargo carrying capacity. With the weight of a 20 foot (6 m.) container approximately 2 tonnes, this resulted in a net payload of 23 tonnes.

At the same time, the maximum weight permitted on British Railways was the same as the individual container maximum permitted gross weight and this was approximately 28 tonnes. Each manufacturer's containers are of different construction and as such each has a slightly different gross weight thus affecting the capacity.

It can be seen that a container moved by the rail system can therefore be loaded to a heavier weight than a container moved by a road vehicle.

One significant market for Scotch whisky is the Far East and this route is serviced by a number of major shipping lines. One of these lines wished to break into this lucrative whisky traffic but did not have any ships calling directly at any of the U.K. ports. Other shipping lines involved in the Europe / Far East trade guard this very profitable trade jealously and to minimize inland transport costs utilize rail services to either Felixstowe or Southampton for the deep-sea connection.

The new line investigated the potential also of utilizing the rail system to carry the heavier containers, but to transship them across the North Sea by ferry or feeder vessel, and deliver them to their ocean ship in port at Rotterdam. The preferred route would be by rail from the warehouse in Scotland to the North Sea Ferry terminal in the north of England, where it would be loaded directly on to the ferry for transfer to Rotterdam. On arrival at Rotterdam it would be moved within the port limits on a transfer trailer and loaded on the deep-sea ship for the Far East. Although the overland distance in the U.K. was less than normal for economic rail transport it was felt that with the increased payload, the operation could be financially effective.

When the company approached the British Railways container handling operating company "Freightliner", it was advised that due to the restrictions in the rail network operating system, the Freightliner trains that carry the container traffic in the U.K. could not travel directly from Scotland to the specified port in England.

Freightliner was willing to accept the additional freight, but would not be in a position to guarantee the delivery of the containers by the next day, as the routing was outside the accepted normal Freightliner rail paths. It would be necessary first to transport the containers from Scotland to London (650 km) and then after being transferred to another train, would be moved onward to the port for shipment (another 390 km). Therefore the containers would travel a distance in excess of 1000 km in order to cover a distance of 270 km. The shipping company was advised that the time taken to transport the containers would be at least two days (not guaranteed) and that the charges would be based on distance plus the additional handling charge for train transfer at the London terminal.

The road haulage option guaranteed delivery within 6 hours and at a rate based on the 270 km distance. The haulage operating companies also indicated that additional discounts would be available for large volumes of container movements.

Results:

Environmentally the preferred transport route was by rail, but from all practical, operational and financial aspects the only sensible option was to move the containers by road transport. However as the containers could not be stowed to their full potential gross weight, the overall economic viability was lost and the potential traffic never materialized.

The resultant was a potential carrier was unable to submit a proposal to a client due to the inflexibility of the state owned, at that time, British Railways. Since that time the rail operating companies have been privatized and there is a more flexible and entrepreneurial approach to prospective customers.