



INTERNATIONAL UNION
OF RAILWAYS

unity, solidarity, universality

Possible Solutions on Border Crossing

TER Workshop, Istanbul, April 29, 2015

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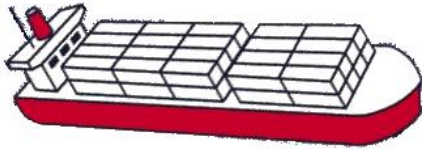
Overview

- **Electronic Consignment Note**
- **Raildata**
- **Hit Rail**
- **Outlook**

Transport Time



← 11 000 km →



40-45 days



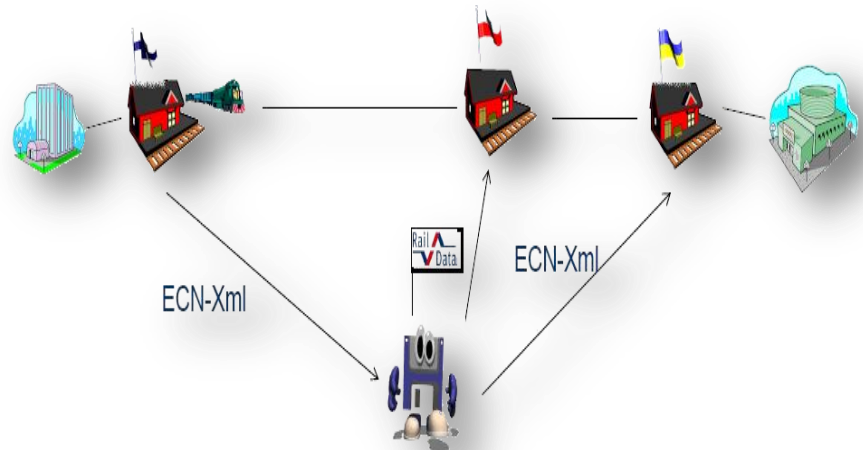
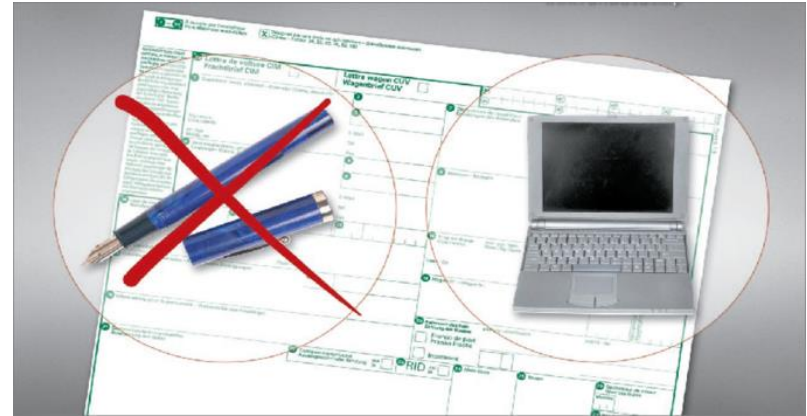
20-23 days



15-18 days

Electronic data exchange of Consignment Note Data (ECN)

- > **Single data capture**
For all involved parties
- > **Paperless transport**
Independent and ahead of train movement
- > **Data available**
any time
any where
Electronic or paper



Implementation 2015

> In Production

- Trenitalia (since April 2015)
- CD Cargo (planned for October 2015)

> New possible transit through three RUs

> New Intermodal possibilities



Customs Procedure

> Additional Data content to be finalized with EC by end 2015

- Value of the good
- Procedure N°
- Guarantee management

> CER Customs Working Group proposal :

Make part of Orfeus Data Accessible to Customs Authorities

Open points :

- Storage Period
- Access rights
- Implementation date
- Initial info to Customs

CIM-SMGS Note for rail transports to Asia



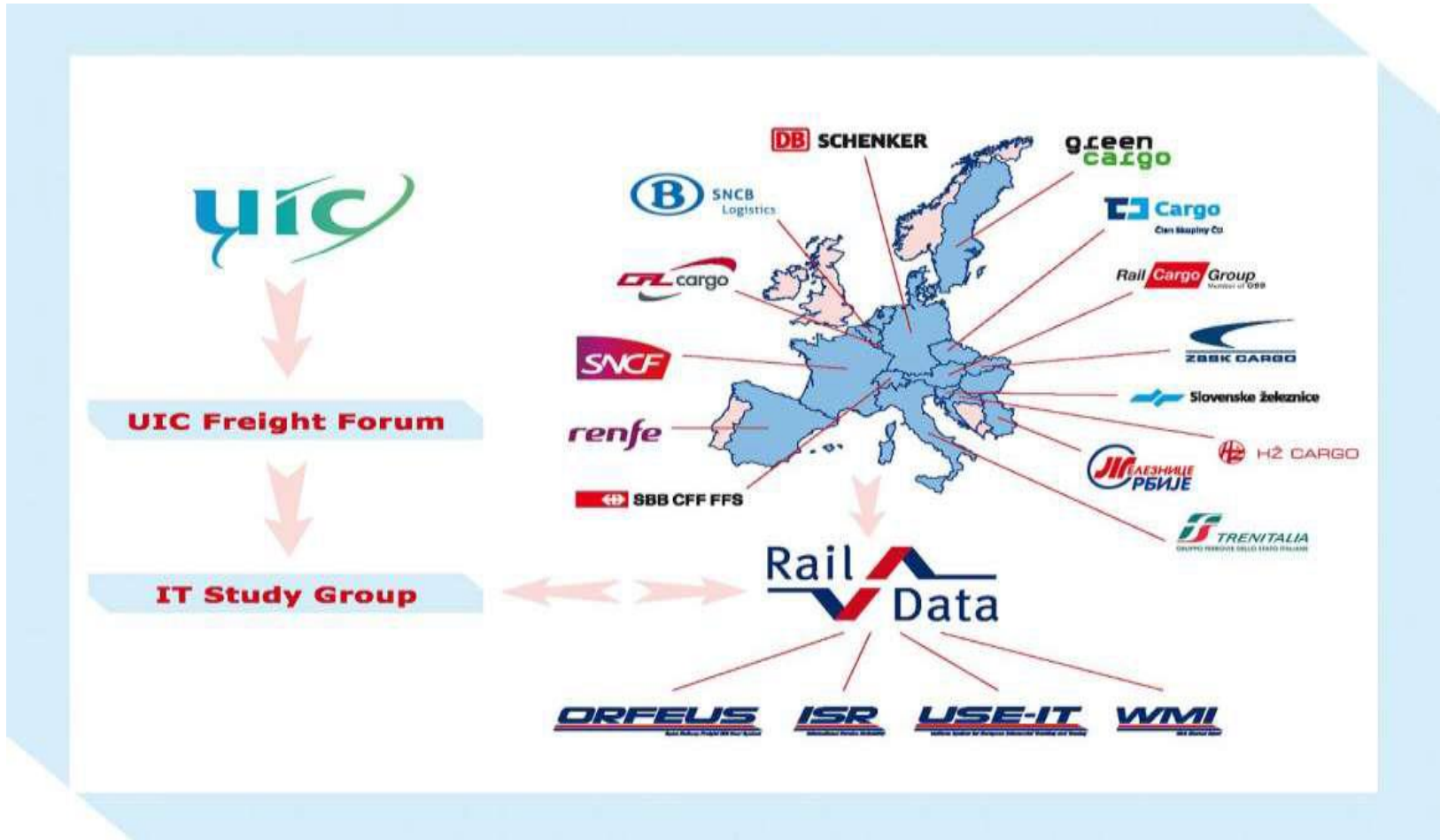
- > **Harmonisation of CIM (CIT) and SMGS (OSJD) railway laws**
- > **Common standard messages ECN and CIM/SMGS to be agreed by end 2015**
- > **Some remaining issues**
 - Edifact – XML: converter needed
 - Data content: additional SMGS data
 - Data format: field lengths
 - Code lists: avoid free text

Raildata

- > **RAILDATA international organization of European Cargo Railway Undertakings**
 - established as a special group of the International Union of Railways (UIC)

- > **Purpose**
 - **develop, implement and run IT services**
 - cost-effectively and in compliance with competition rules
 - **improve data exchanges**
 - **Develop rail freight traffic in Europe**

Raildata Members



Raildata - ISR

> **ISR (International Service Reliability)**

> **provides 26 RU's with following processes:**

- Wagon Movement
- Train running information & forecast
- Wagon mileage

> **Further developments:**

- Forwarding of train running information including composition
- Web tool for manual entry wagon status events
- Standardization of mileage exchange between RU's and RU's/keepers

Hit Rail VPN Network

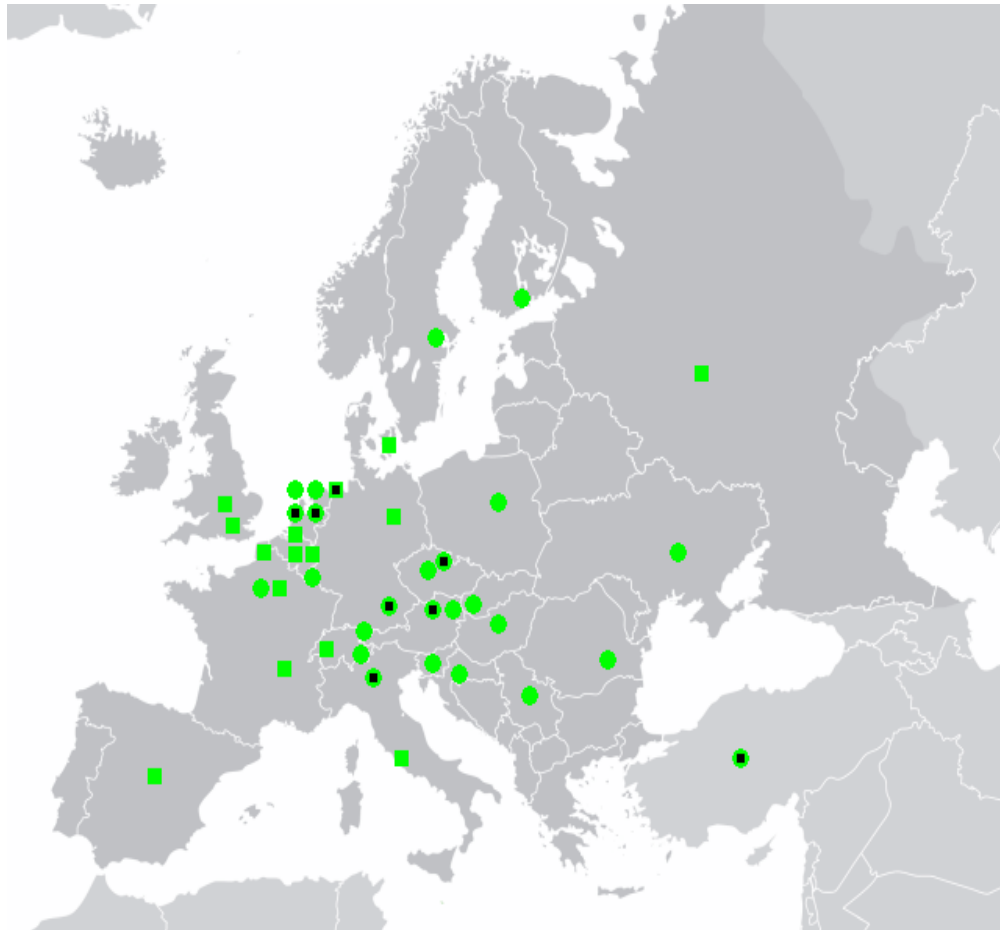
> The company

- a non-profit company with a strong management team and a vast knowledge of railway environment
- created in 1990 to professionally manage the Hermes X.25 network in use for railways since 1978
- developed international prestige in guaranteeing a reliable and up-to-date application to application data transfer service
- stayed in the vanguard of international data communication technologies, migrating to the newest ones (HOSA, MPLS) as soon as consolidated

> The HERMES VPN

- robust and scalable international network, providing its customers with an advanced MPLS platform
- supports freight, passenger and infrastructure applications with
- access points in 23 countries customers

Hit Rail Members



There are no active faults. All sites OK

[See previous faults](#)

Sites pending customer intervention for full connectivity:

- COPERNICUS Hoofddorp
- DB Schenker Rail Nederland (Amsterdam)
- LOKOMOTION Munich
- Nordcargo Milan
- NS Passengers
- OLTIS Pardubice
- RNE Vienna
- TCDD Ankara

Key:

- Sites with one router
- Sites with more than one router
- Sites pending customer intervention for full connectivity

Advantages

- > **Uses same IP technology as Internet, but better :**
- > **secure:**
 - Not only on the message content, but mainly on the service
 - No link overload attacks and no viruses from the VPN
 - FTP can run directly end-to-end between application servers
- > **managed:**
 - 24/7 monitoring, supervision and help desk service
 - Someone identifiable is responsible for entire connection
 - Guaranteed SLA (Service Level Agreement)
- > **added functions:**
 - Monitored availability of partner's links are
 - Volume statistics provided up to "IP to IP",
 - also good for applications analysis
- > **fast and powerful:**
 - fast due to direct packets routing to target site
 - bandwidth reserved for railway traffic

Outlook

- **Realize efficiency gains by digitalization**
 - To be discussed: customer willingness to share data with customs authorities
 - Essential requirement: standardisation of IT solutions
- **Coordinate operational procedures with customs and train inspection procedures**
- **Mutual recognition of inspections/ mixed inspection teams**
- **To be discussed: establishment of permanent high level dialogue platforms**

■ ■ ■ Thank you for your kind attention

Hans Günther KERSTEN, UIC Freight Director