Legal harmonisation.

Paperfree technology.

Deputy Head of Department for Informatisation and Corporate Governance Processes

Nadezhda Davydenko
TELECOMMUNICATIONS AND COMPUTER INFRASTRUCTURE OF RZD

18 computer centres – IT infrastructure

more than 60 Mainframe-class servers

19,000 communication nodes

over 260,000 users (up 20% in 2006 to 2009)

over 300 SUN UNIX servers

more than 5,000 servers for different purposes

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ELECTRONIC DATA EXCHANGE (EDE) IN INTERNATIONAL TRANSPORTATION

Regular operation
- Finnish Railways
- Lithuanian Railways
- Belarus Railways
- Latvian Railways

Pilot operation
- Ukrainian Railways
- Chinese Railways

Testing
- Estonian Railways
- Kazakh Railways
- Polish Railways
PILOT PROJECT FOR PRELIMINARY INFORMATION EXCHANGE AT BUSLOVSKAYA STATION

EDI Finnish Railways

Consignment note

Train

EDI RZD

Consignment note

Train

AS ETRAN

Request

Consignement note

Train

Preliminary information

ACs TBC

Customs at Buslovskaya station
The scheme of electronic data exchange of Freight management systems Mitsui – RZD
в левом нижнем углу - Tokio, должно быть Tokyo

User; 04/07/2010
ELECTRONIC DATA EXCHANGE SCHEME

The scheme of electronic data exchange of Freight management systems Mitsui – RZD
то же самое про Tokyo

подозреваю что Nahcodka - тоже опечатка
наверное Nakhodka

User; 04/07/2010
The scheme of electronic data exchange of Freight management systems Mitsui - Russian Troyka - RZD
U6  
то же про Tokyo
User; 04/07/2010

U7  
то же самое про Tokyo и Nakhodka
User; 04/07/2010
INFORMATION SUPPORT OF FREIGHT TRANSPORTATION

Client’s automated work place → Satellite → Automatic Identification System

ETTRAN → Auto-mated Control System → Information for clients

EDI servers → Control center → GID Ural → Manual entry

Consignment notes → Information about location and condition
CIM/SMGS Common Consignment Note

Advantages

1. No costs for further consignment notes
2. Shorter waiting times at border crossings (approx. 8 hours at the Malaszewicze station)

Disadvantages

1. Need to adjust information systems
2. Need to train rail staff
Objective of TEDE Automated System introduction

The introduction of TEDE Automated System (Technological Electronic Data Exchange) is aimed at enhancing reliability, efficiency and quality of technological and management information transferred to the network level of RZD’s infrastructure thanks to:

- Building RZD’s single information space
- Using paperless technology
- Simplified rules for all kinds of accounting and reporting documents
Expected results of TEDE Automated System

introduction

The introduction of TEDE automated system using digital signatures will ensure:

- Enhancing the quality and speed of providing analytical and reporting information throughout the entire RZD’s chain of command

- Enhancing technological discipline and responsibility for decisions made

- Providing conditions for the creation of a new-generation Automated Control System to implement RZD’s business goals at the time of reform
Scale of TEDE introduction

1,853 stations and companies out of 6,000

16,783 users

2,328,113 documents signed

11,091,753 documents created

16 railways
Thank you for your attention