

Customer Information System for Combined Road-Rail Transport

CESAR

Co-operative European System for Advanced Information Redistribution

by Martin Burkhardt

From research to application



FP4 project 1997 till 1999









FP5 project 2000 till 2002 additional partners







Foundation of CIS 20/04/2004 Cesar Information Services, Brussels

Customer requirements



Communication with operator before project

- 27% EDI
- 73% fax
- 82% telephone

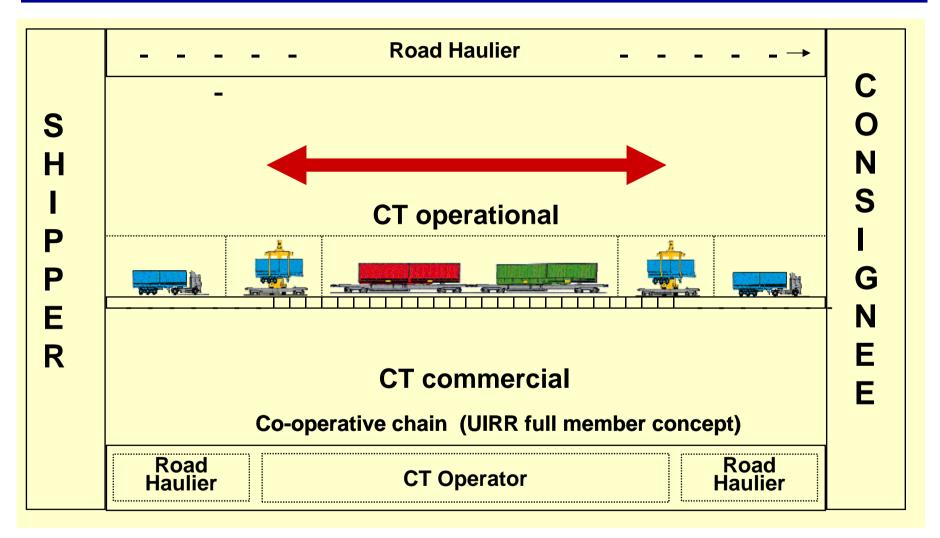
Needed functions

- 50% price lists and timetables
- 64% booking
- 95% status and information on units

Tracking & tracing as most important feature

Customer requirements





CESAR covers the unaccompanied part of the chain: terminal - terminal

The actual situation



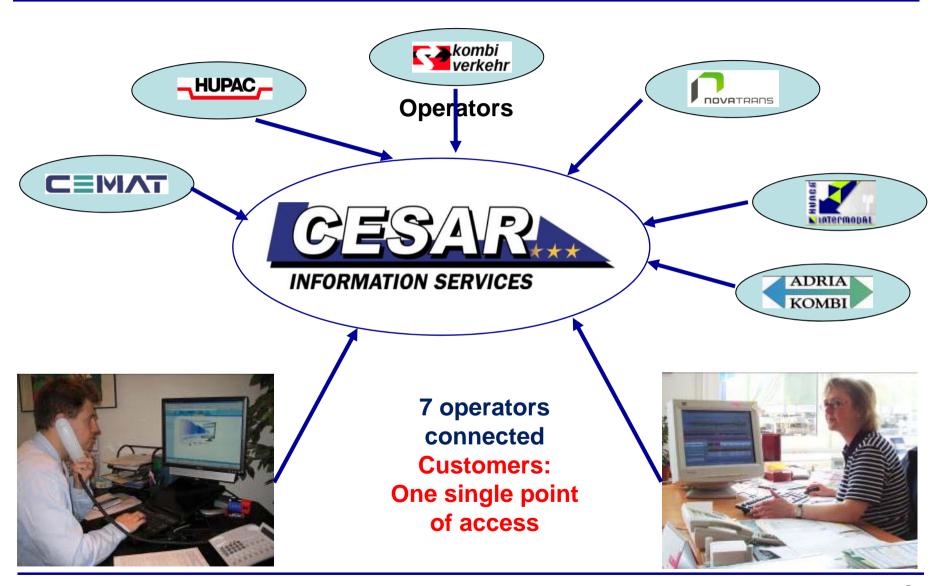
CIS company created in April 2004

- Cesar Information Services (CIS)
- Cooperative scrl, based in Brussels
- Capital 100.000 EUR
- Shareholders: Cemat (25,1%), Hupac (25,1%),
 Kombiverkehr (25,1%), Novatrans (16,1%), UIRR (8,6%)
- Chairman: A. Croci (Hupac)
- Executive Secretary: M. Burkhardt (UIRR)

Brussels, November 2012 5

The architecture of CESAR





Activity (as end of 2012)



- 460 customer contracts
- 2,6 million transports yearly
- 9 million status messages yearly
- 10 customers with permanent B2B connection

A customers' staff member resumed his daily routine:

- Arrive at work
- Set-up the coffee machine
- Turn on CESAR

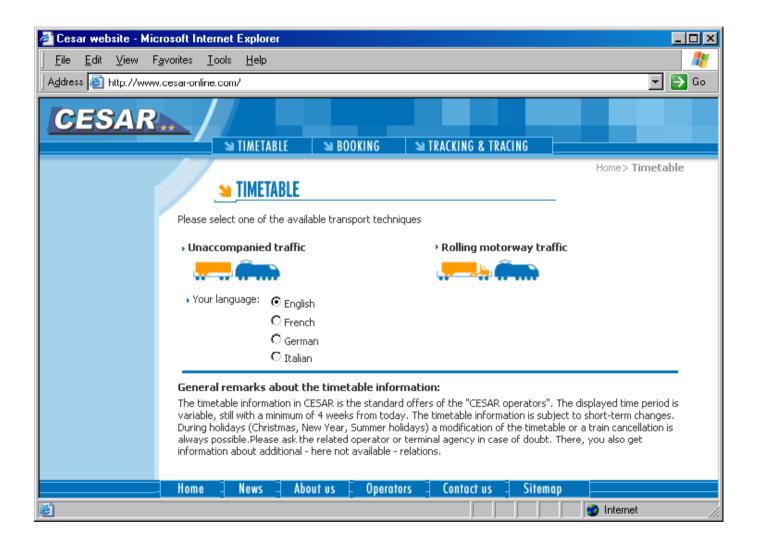
The customer information system





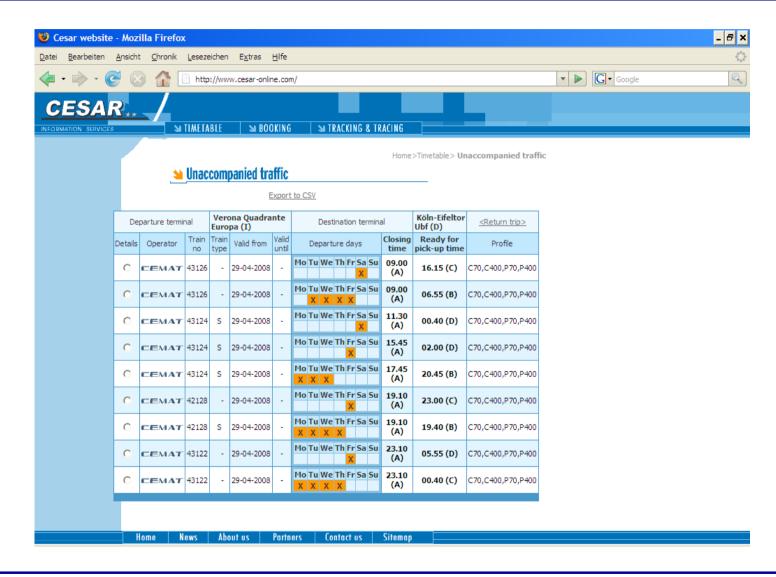
Timetables





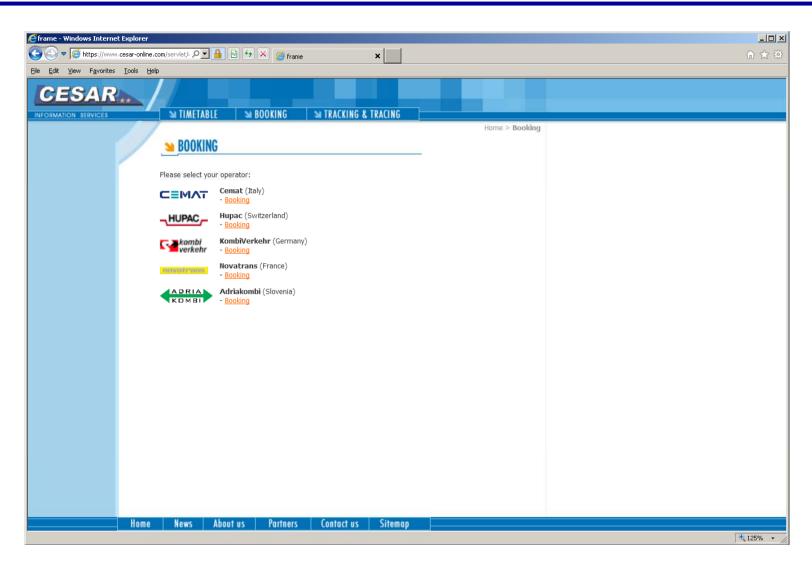






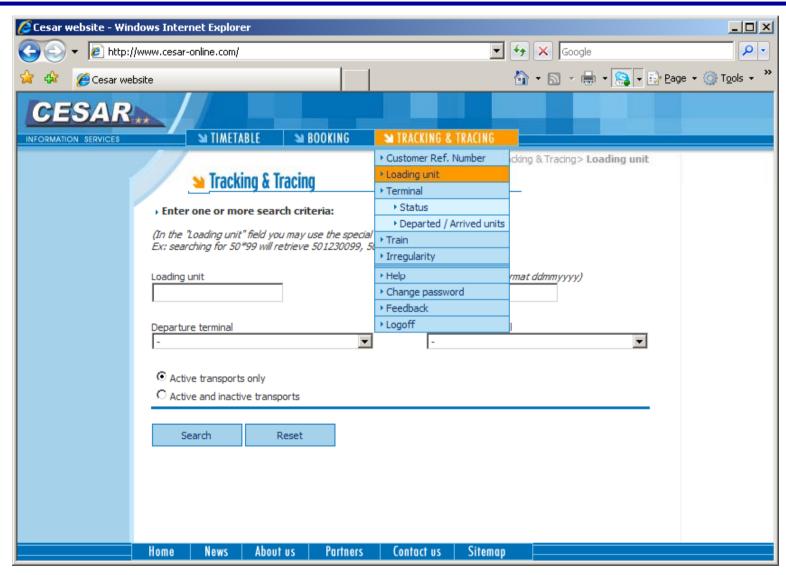
Booking: link to operators





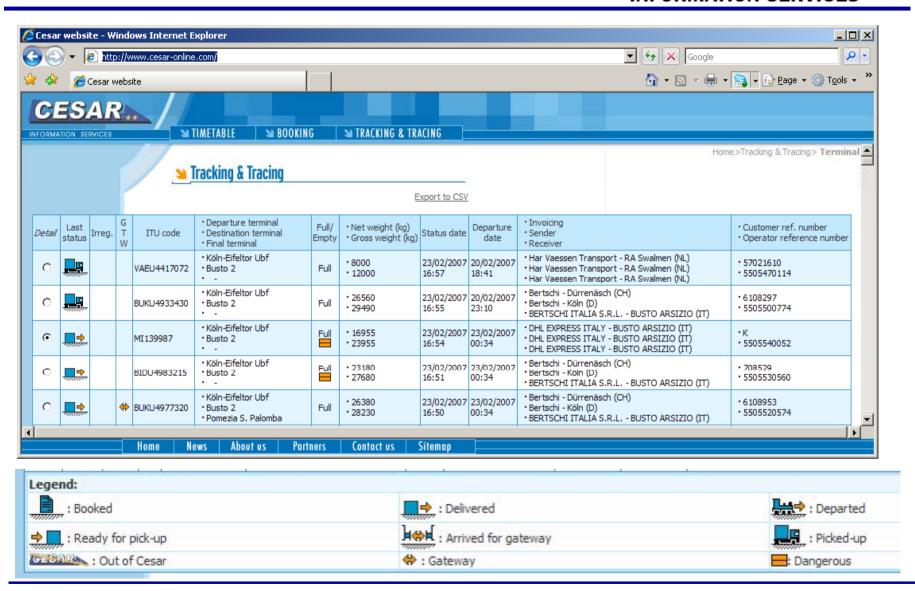










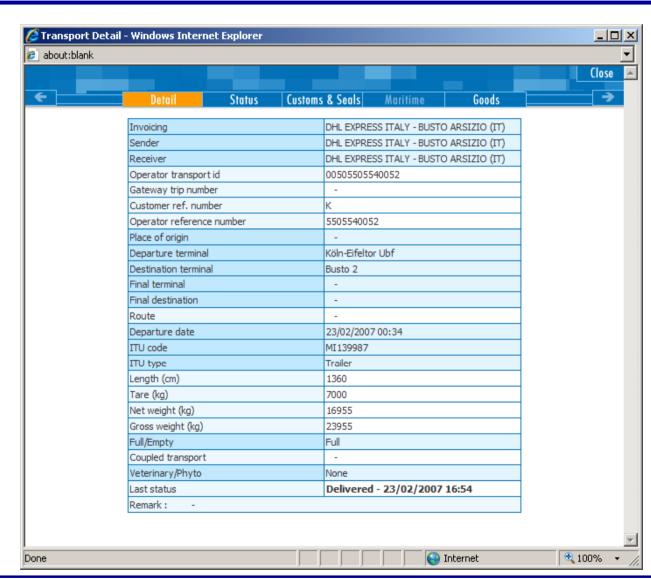


Brussels, January 2010

Status messages terminals



Details screen



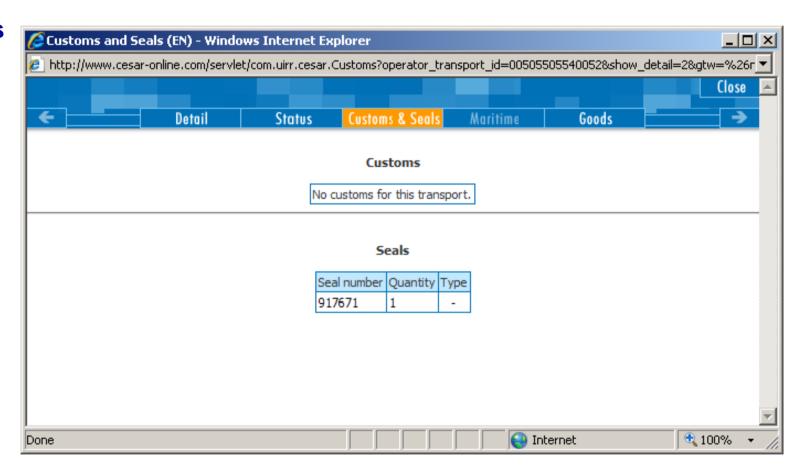
Brussels, January 2010

Status messages terminals



Customs

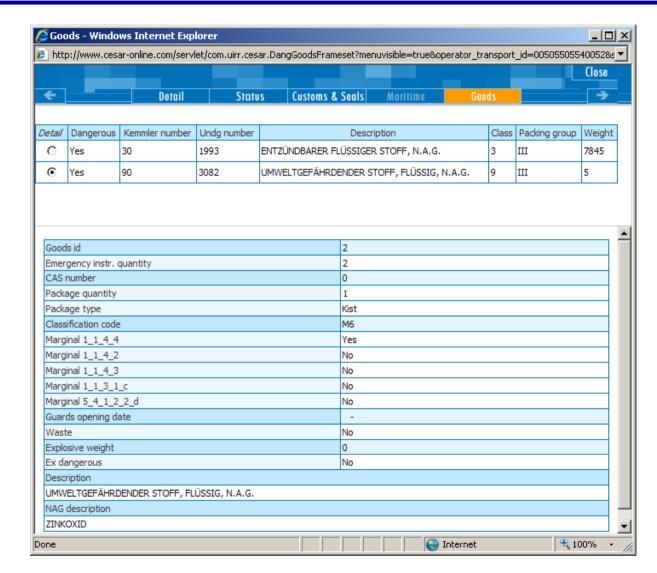
& seals



Status messages terminals



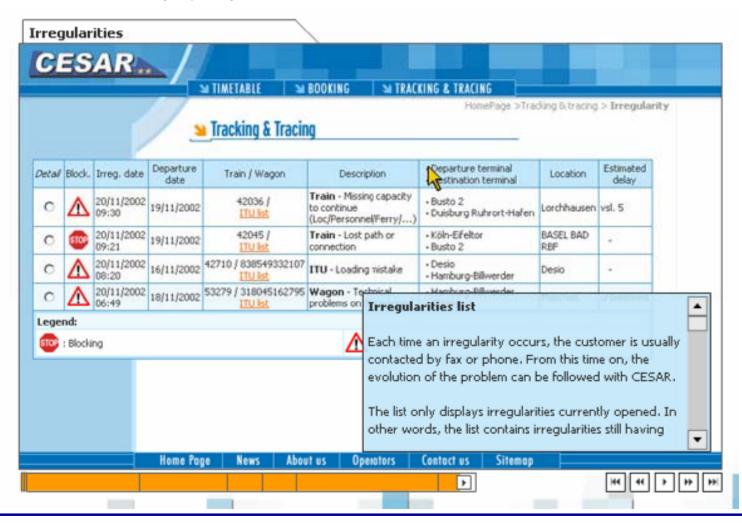
Goods



Tracking and tracing: Irregularities

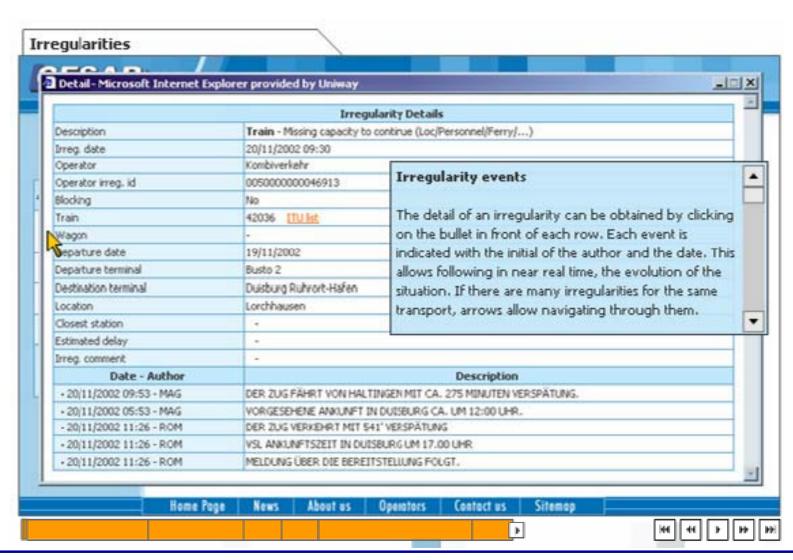


- 1. Operator sends message to customer
- 2. Customer may query CESAR



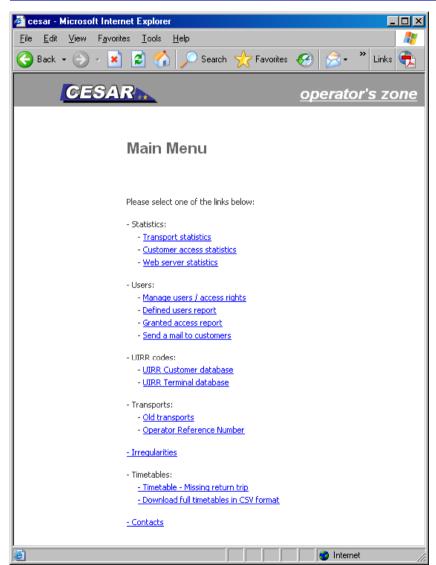
Tracking and tracing: Irregularity event





Interface for operators





Statistic split by operators

	Total	C
Number of transports	69440	
Number of status	265449	
Number of errors (warnings excluded) <u>Detail by segment type</u>	802	
Percentage (against total number of status)	0,30 %	
Number of transports with errors	216	
Percentage (against total number of transports)	0,31 %	
Number of fixed errors (estimate)	80	
Percentage (against total number of transports with errors)	37,04 %	
Number of cross-operator errors	49	
Percentage (against total number of errors)	5,11 %	
Number of warnings	1379	
Percentage (against total number of status)	0,52 %	

Conclusion



CESAR is "the" Co-operative European System for Advanced Information Redistribution

- CESAR enables operators to use one common interface
- CESAR is an application daily used by CT customers
- Prerequisite for use is a quite high level of adaptation of the operators in-house system
- Therefore CESAR is up to now mainly used by CToperators with similar transport offers and focus on continental transport of Loading Units