



# Binarysystem®



LOGISTICS & MARITIME FORUM  
European trends and regional perspectives

15-16 February 2017, Piacenza Expo

Roberto Toscani Introducing

**SoftRail**  
Railway Software Solutions

*Think globally to act locally*

*How to enter european and oversea's railway  
markets with a unique software solution*





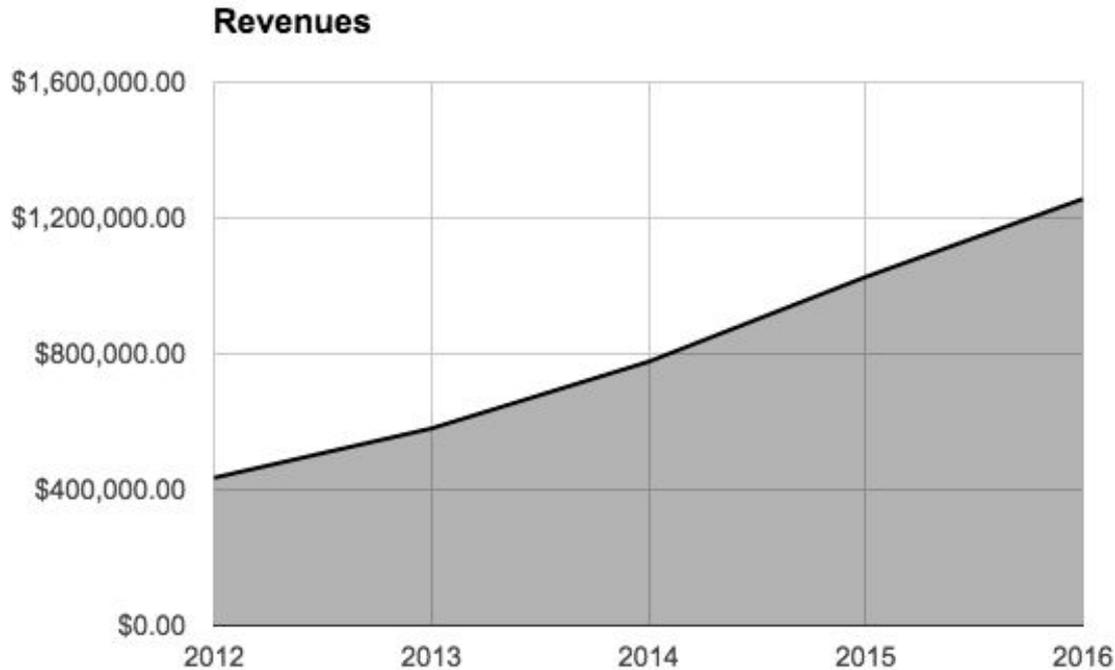
  
SoftRail

**APPLICATION  
TARGETED FOR THE  
RAILWAY  
INDUSTRY**

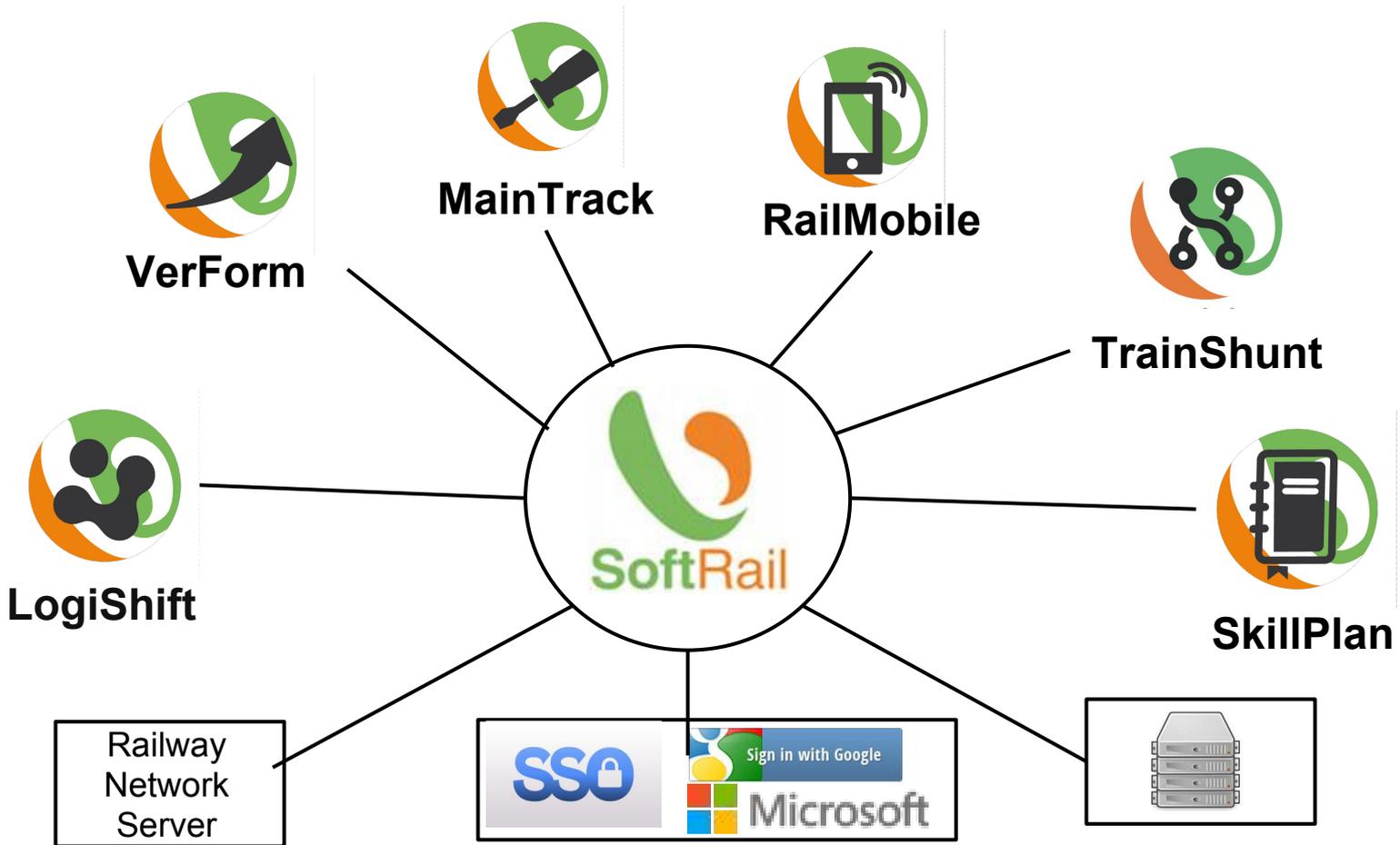
  
BinarySystem



## In 5 years..



- Founded in 2012
- First FFF Inves. 100K\$
- 100% of private market in Italy
- Already present in three country in **EU**
- Opening a Branch in **Germany**
- First experimentation in **USA (Florida)**





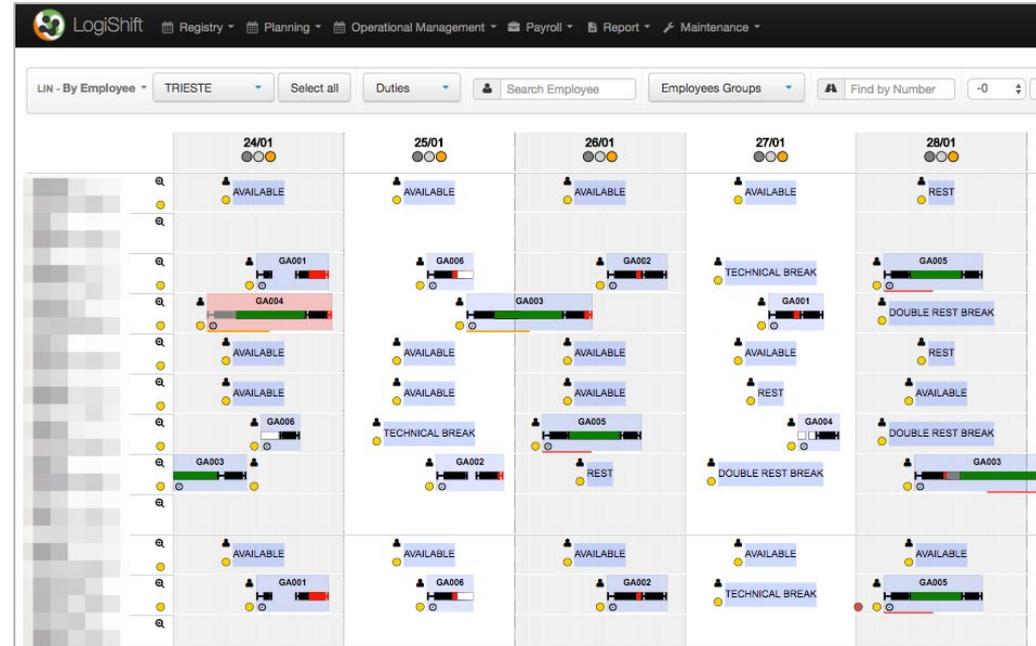
**LogiShift**

**The most advanced system for a coordinated planning of employees and company's vehicles fleets who provides all visual tools required for the periodical scheduling.**



# LogiShift - *Structure and Management Tools*

- Entire Rail Network mapping, tracks, routes, frequency;
- Custom setup, Master Data, contractual controls;
- Trains management, delays, changes, locomotives activities;
- Staff's shift planning, rotation, lines knowledge;
- Personnel notification, alerts;
- Final accounting, commercial trains;
- Reports, Excel exports, payroll interface;





## SkillPlan

The software designed to furnish HR with a professional tool to plan, monitor and manage all the activities of training, refreshing and employees auditing.



# SkillPlan - Structure and Management Tools

- Instructor activities report and alerts;
- Training sessions management;
- Medical visits monitoring;
- Qualifications;
- Driver licenses;
- Activities calendar and timetable;
- Direct and indirect checks;
- PDF and Excel export.

Select An Option ▾ Mine ▾ [Go to day](#) [Print](#)

Activity  Session  In progress  Medical examination  Deadlines Medical Visits  Check  Exam  
 Maintenance Deadline  I.V. Deadline  D.V. Deadline

Sessions  Activity  Medical examinations  
 Checks  Exam  Deadlines Medical Visits  
 Maintenance Deadline  I.V. Deadline  D.V. Deadline

<< < > >> Today

**Feb 5 — 11 2017**

Month Week Day

	Sun 2/5	Mon 2/6	Tue 2/7	Wed 2/8	Thu 2/9	Fri 2/10	Sat 2/11
	Session CC_COMP for 6 people						Deadline DV_FFA ( )
	Deadline DV_FFA ( )						Session FT_A_COMP for 17 people
	Session 2017/056 for 4 people						Deadline DV_CC ( )
	2017/055						Deadline DV_CC ( )
	On going 2017/055						2017/015 Theoretical exam for 6 people
	Session CC_COMP for 11 people						Deadline DV_CC ( )
	CC_COMP						2017/055 Theoretical exam for 4 people
	Deadline DV_FFA ( )	2017/093 Theoretical exam for 5 people	20GGMALAT ( )	Deadline DV_TRZPATF ( )	Deadline DV_CC ( )	2017/015 Theoretical exam for 2 people	Deadline DV_CC ( )
	Deadline DV_TRZPATF ( )	DC_BAN_CO_A ( )	DC_CC ( )	DC_FAT_MOD_A ( )	Deadline IV_VRFMODB ( )	Deadline DV_FFA ( )	diag81 ( )
	Deadline DV_FT-A ( )	20GGMALAT ( )	DLGS247 ( )	Deadline DV_FT-A ( )	Deadline IV_VRFMODC ( )	2017/015 Theoretical exam for 2 people	Deadline DV_CC ( )
	Deadline IV_FATMODD ( )	REVINCID ( )	DISP65_COND ( )	2017/085	2017/085 Theoretical exam for 3 people	2017/085 Theoretical exam for 6 people	Deadline DV_FFA ( )
	Deadline DV_FATMODD ( )	Session 2017/078 for 2 people	DC_CC ( )	2017/085 Theoretical exam for 2 people	Deadline IV_VRFMODB ( )	2017/015 Theoretical exam for 5 people	diag81 ( )
	Deadline DV_FATMODD ( )	2017/078 Exam for 2 people	DC_FT_A ( )	CC_COMP Theoretical exam for 2 people	Deadline DV_FATMODA ( )		
	Deadline DV_TRZPATB ( )		DC_CC ( )	2017/081 Theoretical exam for 2 people	20GGMALAT ( )		
				diag81 ( )	Deadline DV_VRFMODC ( )		
				Deadline DV_FFA ( )	diag81 ( )		
				Deadline DV_FATMODA ( )	diag81 ( )		
					diag81 ( )		
					Deadline DV_FATMODA ( )		
					Deadline DV_VRFMODB ( )		



## VerForm

**Collects and processes data related to train inspections and activities verification, generating real-time digital documents for the use of the operational personnel.**



## VerForm - Structure and Management Tools

- H30 data import/export;
- Composition and verification recording activities;
- Activities calendar;
- Wagon registries;
- Photo uploading and Documents prints;
- Dangerous goods and wagon labels management;
- Alert and automatic warnings;
- Blacklist vehicles management
- Wagon, activities and trains reports.

The screenshot displays the VerForm web application interface. At the top, there is a navigation bar with the VerForm logo, a 'Dashboard' link, and a 'Registries' dropdown menu. The user is logged in as 'admin@binarysystem.eu'. A green notification banner at the top states 'Verification was successfully created.' Below this, the main content area shows a list of train records on the left and a detailed view of a specific train on the right.

**Train List:**

Train ID	Type	Status
E189.102	Single Traction	NO TRAIN
1 33 68 4575 643-4	Passengers	
2 33 68 4953 460-5	Passengers	
3 37 80 4552 021-0	Passengers	NO VER/TRAIN
4 37 80 4961 300-3	Freights	NO VER/TRAIN

**Train Details (33 68 4953 460-5):**

Buttons: [Back To Cars List](#)

Tabs: [Details](#) | [Verification](#) | [Composition](#) | [Checklist DF](#)

**Verification info:**

Visit Type: VCO

\* Visit Result: Conform (button) | Not in compliance (button)

[Save](#)

**Labels:**

Buttons: I, K, L blu, L rossa, M, Na, R1, R3, U, Ua

[Save](#)

Anomalie: [+](#)



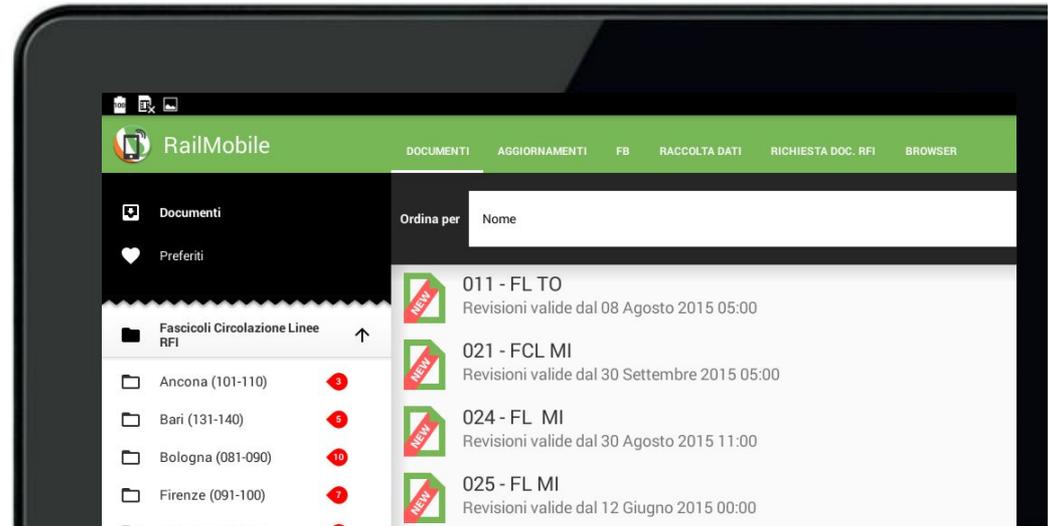
## RailMobile

The electronic folder for the train driver to collect, organize and distribute all the employees documentation who allows real-time communications between the rail company management and its operational personnel.



## RailMobile - *Structure and Management Tools*

- Multiplatform compatibility: iOS, Android, Windows, OS X, Linux;
- Controlled Documents Distributions on tablet;
- Web and mobile technologies;
- Distribution state monitoring;
- XLS and PDF data export;
- Documents repository;
- Offline multiple document access;
- Users classifications;
- Questionnaires and forms submission and recording.





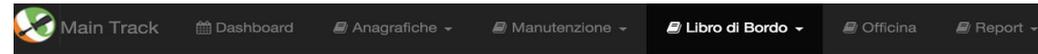
## MainTrack

MainTrack allows to plan and monitor the activities of preventive and corrective maintenance, managing all information in electronic format.



## MainTrack - *Structure and Management Tools*

- Preventive and Corrective maintenance activities;
- Simulation to check the progression of vehicle use;
- Offline Vehicle Book management;
- Automatic email warning sending to Holders/ECM vehicles;
- Technical verification Planning;
- Vehicle refueling recording;
- Holder, Rents and ECM registry.





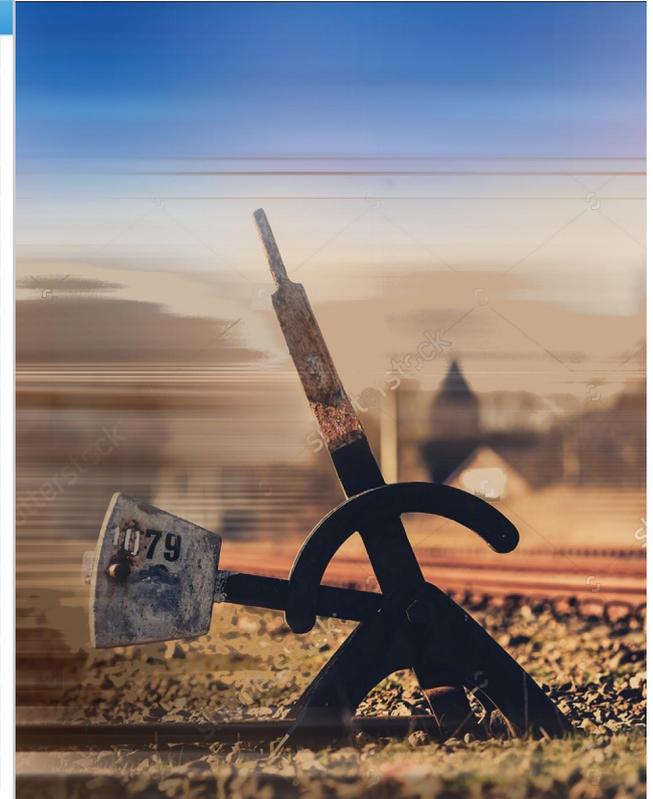
# TrainShunt Module



Loggato come: admin@binarysystem.eu Esci Configurazioni

Lato w	Lato Udine
1	4
2	9
3	27
4	12
1 ex 6	0
2 ex 6	13
3 ex 7	2
4 ex 8	0
5 ex 9	8
6 ex 10	3
7 ex 11	5
8 ex 12	16
9 ex 13	16
10 ex 14	0
11 ex 15	17
Parchetto	0

- Vuoti Villa Opicina
- Carichi diffuso
- Vuoti Villa Opicina ex Acquegra
- Carichi per Abs
- Export
- vuoti Tarvisio
- vuoti Villa Opicina
- materiale cargo
- materiale cargo
- qqqq
- Carichi per Abs
- vuoti Tarvisio
- vuoti Tarvisio
- Export
- materiale cargo
- Materiale Cargo
- Materiale Cargo
- vuoti Tarvisio
- Materiale Cargo
- qqqq





## NEWS: TrainShunt module

- Registry system and railway track configuration with graphical display;
- Mobile drag and drop handling operations
- Order entry of shunting to be processed and its operations to be billed (Primary, Secondary, Internal)
- Shunting transactions recording
- Excel or H30 wagon file import for composition
- Reports generation to final accounting and invoicing;
- Interface Management for active billing cycle;





# TWINZONE - ASOLA



**ASOLA**

- Identification and conversion of all OTMR files;
- Processing of regular statistics about all trains;
- Visualisation of the train routes plotted on interactive map;
- Info consultation about the detected signals;
- Provision of a custom notification e-mail system;
- Viewing by the user of the detailed OTMR data on an interactive chart.

The screenshot shows the web application interface for Twinzone. The browser address bar displays `twinzone.binarysystem.eu/staff/zone/`. The page features a navigation menu with options like 'Carica nuova Zona (tel)...', 'Visualizza stato elaborazioni...', 'Esporta...', and 'Statistiche...'. The main content area is divided into several sections:

- BinarySystem** logo and a date selector for '2016-01-20'.
- Treni circolati (21)** section with a sub-section for 'Rilevati (2)' showing 47535 detections and 48452 signals.
- Non ancora rilevati (19)** section listing 19 train IDs.
- Map**: A map of the Milan region with a blue route highlighted. Green arrows indicate train directions, and yellow exclamation marks indicate detected signals.
- Dettagli Treno** panel for 'Treno 47535', showing departure at 09:32 (+8) and arrival at 10:20 (-5) on 20.01.2016. It also lists driver ID, type of train, traction, and wheel diameter.
- Documenti Treno** panel with links for 'Letture Zona completa', 'Percorrenza PIC', 'Documenti di servizio', and 'Verifica indiretta'.
- Alerts** table:

Time	Distance	Action
h09:37	km5.226	Horn_action
h09:44	km13.981	Horn_action
h09:02	km34.359	SC_velallerta
h10:38	km76.658	SC_velallerta
h10:45	km84.092	SC_velcontrol

The interface also includes a 'Dettagli Alert' section at the bottom right.



# UE 1158/2010 vs. SoftRail

Criteria	Characterization	LogiShift	SkillPlan	MainTrack	VerForm	RailMobile	In Progress
<b>Commission Regulation (UE) no 1158/2010 of 9 December 2010 - Annex II</b>							
B	RISK CONTROL RELATED TO THE SUPPLY OF MAINTENANCE AND MATERIAL			X	X		
G	SECURING CONTROL BY THE MANAGEMENT ON DIFFERENT LEVELS						X
I	ENSURING CONTINUOUS IMPROVEMENT						X
J	SAFETY POLICY APPROVED BY THE ORGANISATION'S CHIEF EXECUTIVE AND COMMUNICATED TO ALL STAFF					X	
K	QUALITATIVE AND QUANTATIVE TARGETS OF THE ORGANISATION FOR MAINTAINING AND ENHANCING SAFETY, AND PLANS AND PROCEDURES FOR REACHING THESE TARGETS						X
L	PROCEDURES TO MEET EXISTING, NEW AND ALTERED TECHNICAL AND OPERATIONAL STANDARDS OR OTHER PRESCRIPTIVE CONDITIONS	X		X	X		
N	PROVISION OF STAFF TRAINING PROGRAMMES AND SYSTEMS TO ENSURE THAT THE STAFF COMPETENCE IS MAINTAINED AND TASKS CARRIED OUT ACCORDINGLY		X				
O	ARRANGEMENTS FOR THE PROVISION OF SUFFICIENT INFORMATION WITHIN THE ORGANISATION AND, WHERE APPROPRIATE, BETWEEN ORGANISATIONS OPERATING ON THE SAME INFRASTRUCTURE					X	
P	PROCEDURES AND FORMATS FOR DOCUMENTING SAFETY INFORMATION, AND DESIGNATION OF A PROCEDURE FOR CONFIGURATION CONTROL OF VITAL SAFETY INFORMATION					X	
Q	PROCEDURES TO ENSURE THAT ACCIDENTS, INCIDENTS, NEAR MISSES AND OTHER DANGEROUS OCCURRENCES ARE REPORTED, INVESTIGATED AND ANALYSED AND THAT NECESSARY PREVENTIVE MEASURES ARE TAKEN						X
S	PROVISIONS FOR RECURRENT INTERNAL AUDITING OF THE SAFETY MANAGEMENT SYSTEM						X
<b>Commission Regulation (UE) no 1158/2010 of 9 December 2010 - Annex III</b>							
B	COMPLIANCE WITH NETWORK-SPECIFIC REQUIREMENTS FOR STAFF COMPETENCE	X	X				
C	COMPLIANCE WITH NETWORK-SPECIFIC REQUIREMENTS FOR MANAGEMENT OF ROLLING STOCK			X	X		



# 4th Railway Package

More and more towards a single European railway network (215.000 km)

- Bottlenecks delection;
- fill in missing cross-border links;
- promotion of integration and interoperability between different transportation ways.



- Functioning regulations and Standards;
- an efficient structure;
- opening national markets to passenger transport;
- specialized railway staff retention.



**< EMISSIONS**

**> INCREASE OF RAIL TRANSPORT**



# Our Customers





# BINARY SYSTEM - CIRCLE TOUCH COLLABORATION



## SoftRail Modules

- **Logshift;**
- **VerForm;**
- **RailMobile;**
- + **TrainShunt**

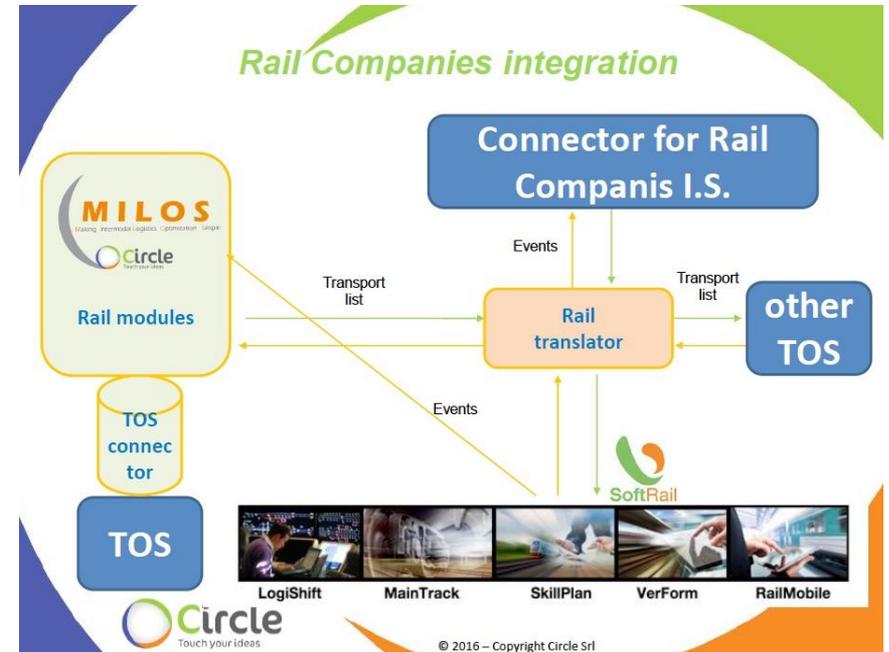
## MILOS Modules

- **CMP +**
- **RAIL +**
- **TOS**

Focus on: cim/waybill and Shunting + traction + terminal

→ designed to improve operations inside terminal rail yards, allowing to:

- graphically display in real-time the rail yard state and the position of wagons
- manage rail planning, containers loading and discharging activities with “Drag&Drop” functionality.





## Case Study: Lugo Terminal

*Lugo Terminal S.p.A. is a logistics platform that boasts an important infrastructure equipped to offer a wide range of services for the movement of goods of any type.*

*The intermodal vocation of Lugo Terminal S.p.A. is favored by its privileged geographical position that allows access to both the main **motorway and railway lines**, placing it in a central location between Northern Europe and Southern Italy and fostering the exchange of goods via rail.*

### **Binary System's ShunTrain and Circle's MILOS Rail Management**

allow Lugo Terminal managing the rail planning activities related to its commercial routes in both intermodal hubs in which it operates.





# Binary System and Piacenza Intermodal Hub

## *A raw material matter...*

- Excellence in intermodality (land, iron, water, air transportation);
- Motorway intersection;
- Great Railway development;
- Location of large multinational head office;
- Export increase of +50%;
- Green expansion





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**Thank you**



**LogiShift**



**MainTrack**



**SkillPlan**



**VerForm**



**RailMobile**



**TrainShunt**