



USER CONFERENCE

York, 7th of November 2019

Rail Solutions for Freight – Lessons Learned

*Mrs. Baiba Kornete -
Binary System's Sales Responsible*



Vision



Binary System aims to investigate its customers' needs and represent a reliable partner able to guide them through the best IT evolution.

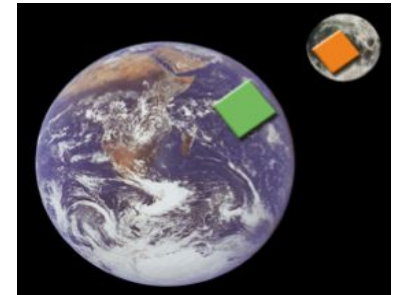
In the Italian language, “Binary” is a term used both in the computer and rail sectors. We chose that with the purpose to express the connection between us and our partners, as our claim declares: *“You know what you need; we know to give you”*.

Supplying greater efficiency and safety is our main goal.

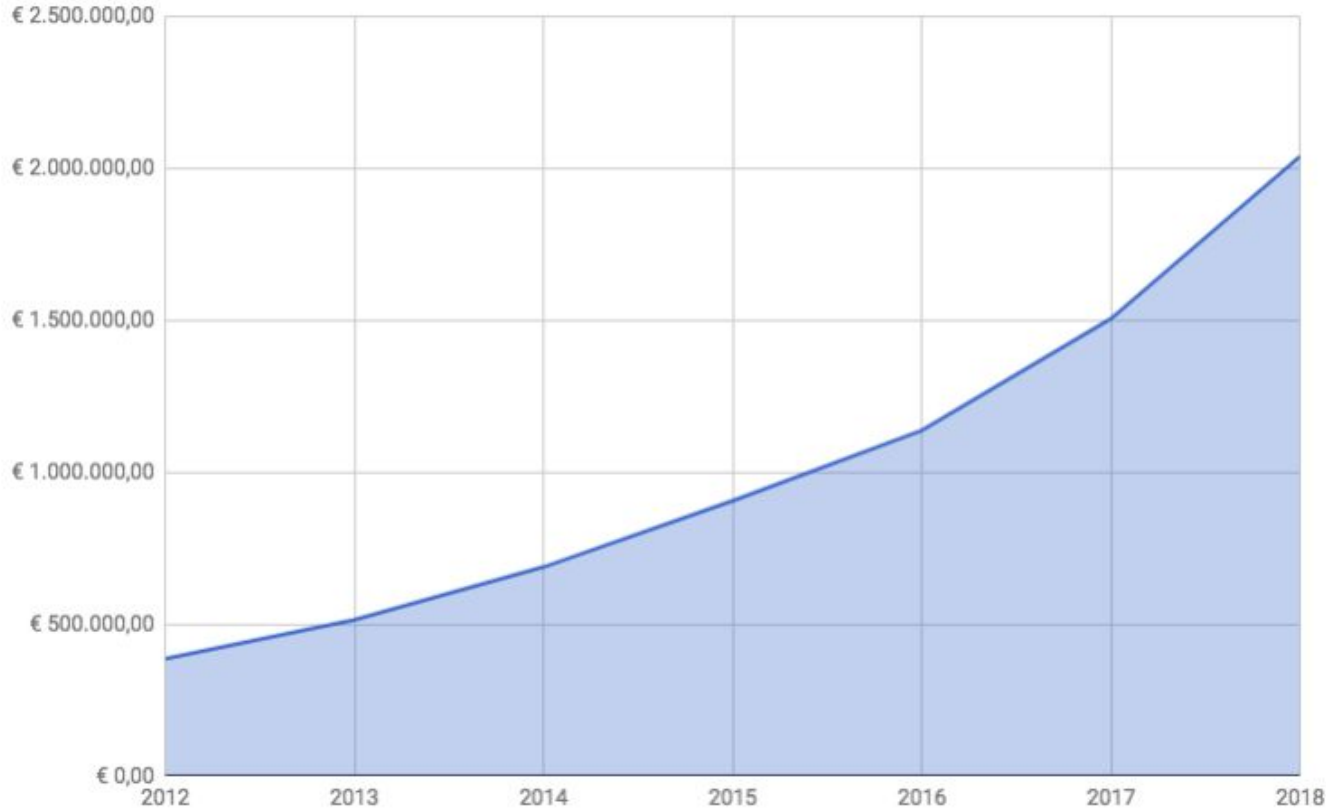
Mission

Binary System flourished within' one of harshest ever seen economic crises. We wanted not only to contribute to the recovery but also with our skills to positively affect the economic and social scenario.

Aware of this responsibility towards the next generations, driven by passion and by the will to satisfy our customers, we want to conceive and develop high-quality software solutions at affordable rates. We want to support our customers step by step and to guide them through the best technological and sustainable evolution



Revenues



- Founded in 2012
- **40** RU in Europe
 - 34 in Italy
 - 2 in Germany
 - 2 in France
 - 1 in Belgium
 - 1 in Austria
- 4 others customers operating in Railway Business
- 30 People

Binary System and Signature Rail

Binary System is part of the **Volaris Group** (since April 2019) which is part of **Constellation Software Inc. brand**, a company that acquires software houses in vertical markets to develop them into market leaders within their businesses.



\$3.1 B in total revenue

\$479 M in adjusted net income

14,000+ employees across the globe

350+ companies in 35 countries

BinarySystem®

FOR

Signature
Rail

Adriafer srl

bls cargo
gli Alpiniati

CAPTRAIN

compagnia
ferroviaria
italiana

CZ LOKO

DB Cargo Italia S.r.l.

dp

EGECO

FERROTRAMVIARIA SPA

FC

FUORIMURO
Servizi Portuali e Ferroviari

GTS
RAIL

HUPAC

InRail

Interporto
Servizi Cargo

.italo
Nuovo Trasporto Viaggiatori

CFI
la ferroviaria italiana

LINEAS

Lokomotion
Gesellschaft für Schienenstraktion mbH

lugo
terminal

m2
railgroup

MEDWAY
Transport & Logistics

MERCITALIA
SHUNTING & TERMINAL
GRUPPO FERROVIE DELLO STATO ITALIANE

oceanogate

Rail Cargo Carrier
Italy

Rail Traction
Company

SAD

SBB Cargo Italia

SerForm
CENTRO DI FORMAZIONE

SISTEMI TERRITORIALI S.p.A.

SNCF
RÉSEAU

SNCF
SNCF VOYAGES ITALIA

TERMINALI ITALIA
GRUPPO FERROVIE DELLO STATO ITALIANE

TFT

Tiber.co

Tper
Trasporto Passeggeri Emilia-Romagna

Traction & Service

TRAINing

TRENTINO TRASPORTI
ESERCIZIO

TUA
Trasporto Unico Abruzzese

TXLOGISTIK

VFLI

Our customers' challenges

The specificity of the **cargo market in Italy**:

- First and second agent needed
- Strong trade unions
- Limits of the length (550 m) and weight (1.600 kg) are different from other European countries
- **RFI** or Rete Ferroviaria Italiana (status of TAF- TSI development)
- Presence of the main Railway corridors: Rhine Alpine Corridor, Baltic - Adriatic Corridor, Mediterranean Corridor, Scandinavian - Mediterranean Corridor
- Strict safety regulations

Binary System's answers

Binary System needed to create software that gives quick answers to daily challenges without forgetting the importance of safety.

- Double check for crew needs in the planning and operational management (LogiShift)
- Advanced contractual checks management
- Restrictive controls on train loads (VerForm)
- Different interfaces studied by Binary System's developers
- High require of data exchange (H30)
- Controlled distribution of security documents (RailMobile)

On our way to Europe

Our first customer in Germany:



- The management of external workers
 - First integration of two systems (RTC <-> Lokomotion) (Usage of the same locomotives in two different companies)
-



RailMobile's expansion in France:

- Controlled distribution of the documents is a goal of every company
-



When you don't want to do it without LogiShift



The power of the adaption of Binary System's software



Thanks to its technical team of researchers and the well-established partnerships with most important device manufacturers, Binary System has created a suite of products capable of integrating web and mobile management and representing excellence on the market.

Entirely custom-made and characterized for their usability, integration, and portability, our software solutions are specially designed on our customer's needs and integrated with last generation devices such as smartphones and tablets.

By granting the complete real-time management control of all operational activities, **Binary System** products have given mobility to rail undertakings. We have indeed digitalized paper documents and assured a green mark to operational activities.





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.

[read more...](#)

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.

[read more...](#)

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.

[read more...](#)

VerForm

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

[read more...](#)

MainTrack

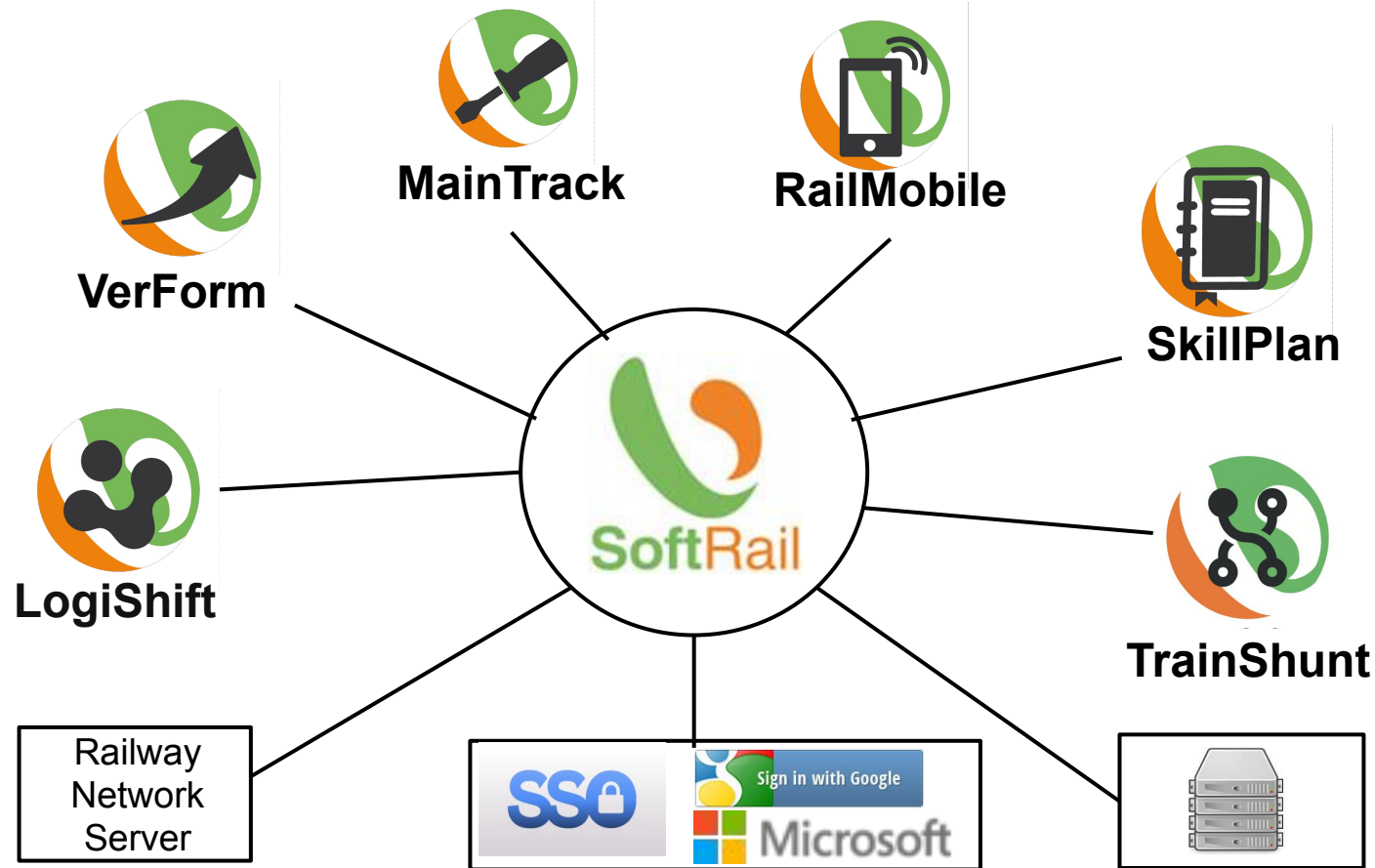
MainTrack allows to plan and monitor the activities of preventive and corrective maintenance, managing all information in electronic format.

[read more...](#)

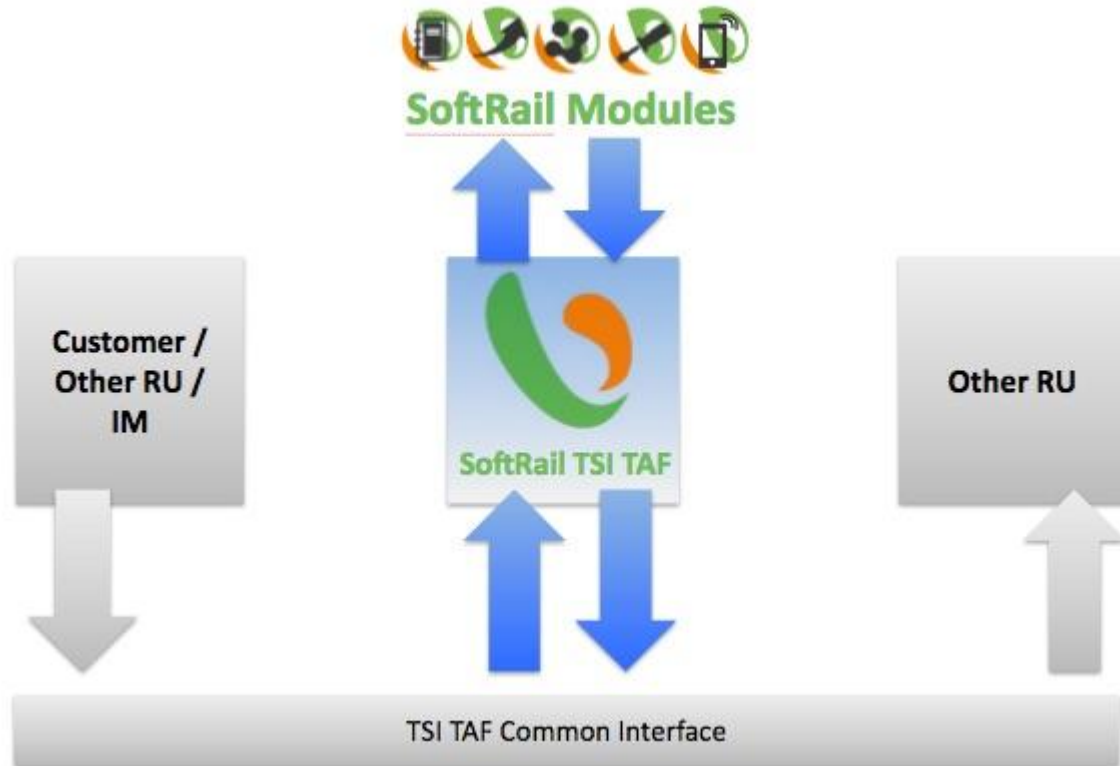
TrainShunt

TrainShunt allows to manage railway shunting operations in a simple and controlled way, with a graphical display of the service location's tracks and the possibility to exchange information with external systems.

[read more...](#)



SoftRail TSI-TAF (TCOC - ΤΠΤΠ)



SoftRail TSI-TAF

Developed by Binary System to interface the SoftRail ecosystem software with external information systems via the common interface TAF-TSI, the TSI-TAF SoftRail module is the software solution for data exchange between railway undertakings and between railway undertaking and infrastructure manager.

Messages topic	Flow	Involved SoftRail's module
Waybill	Customer > RU > [RU/IM]	<i>SoftRail TSI-TAF, VerForm</i>
Hourly path request	IM-RU	<i>SoftRail TSI-TAF, LogiShift</i>
Train preparation	IM-RU	<i>SoftRail TSI-TAF, VerForm</i>
Train running	IM-RU	<i>SoftRail TSI-TAF, LogiShift</i>
Delivery ETI/ETA	RU-RU	<i>SoftRail TSI-TAF, VerForm, LogiShift</i>
Wagon movements	RU-RU	<i>SoftRail TSI-TAF, VerForm, LogiShift</i>
Interchange communication	RU-RU	<i>SoftRail TSI-TAF</i>
Wagon information request	RU-Wagon keeper	<i>SoftRail TSI-TAF, VerForm</i>

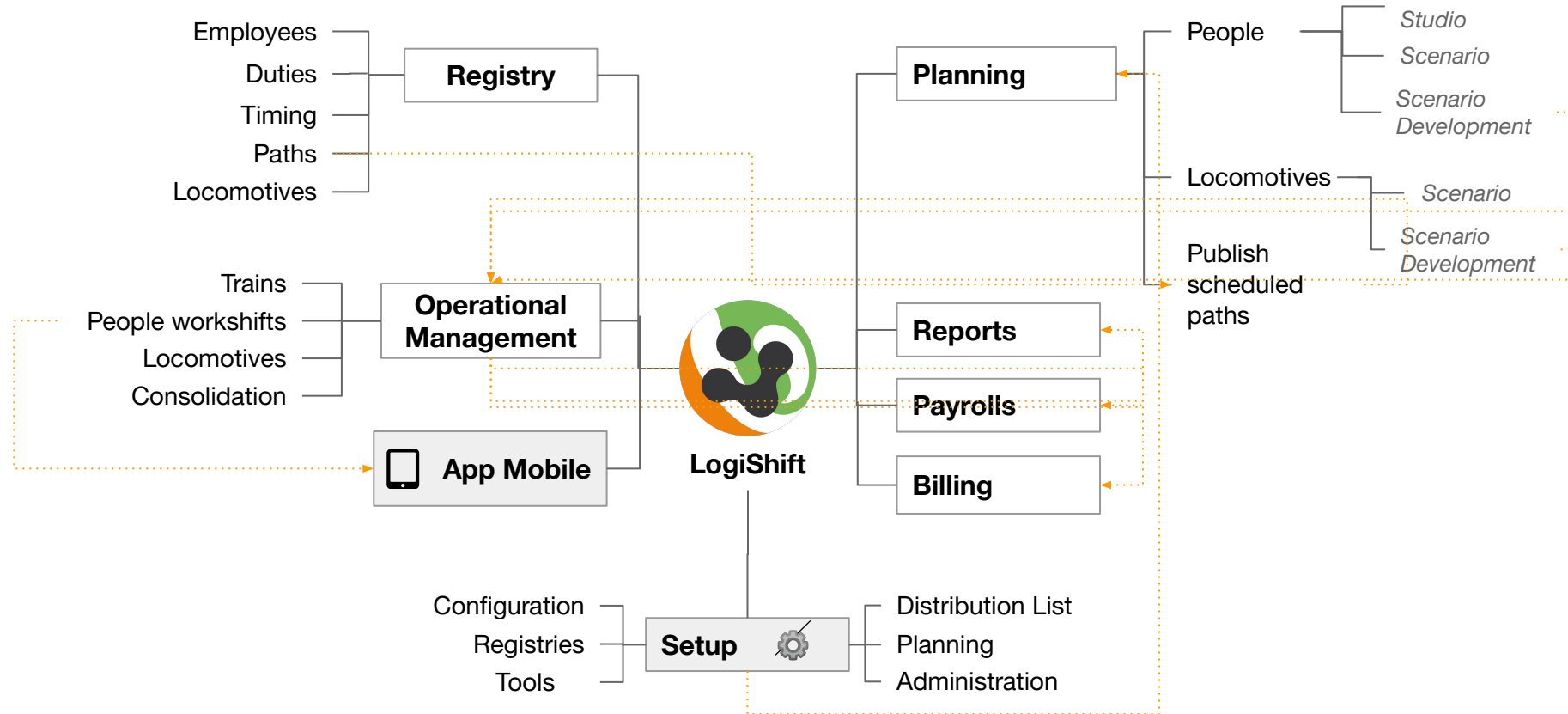


The most advanced system for a coordinated planning of employees and company's vehicles fleets who provides all visual tools required for the periodical scheduling.



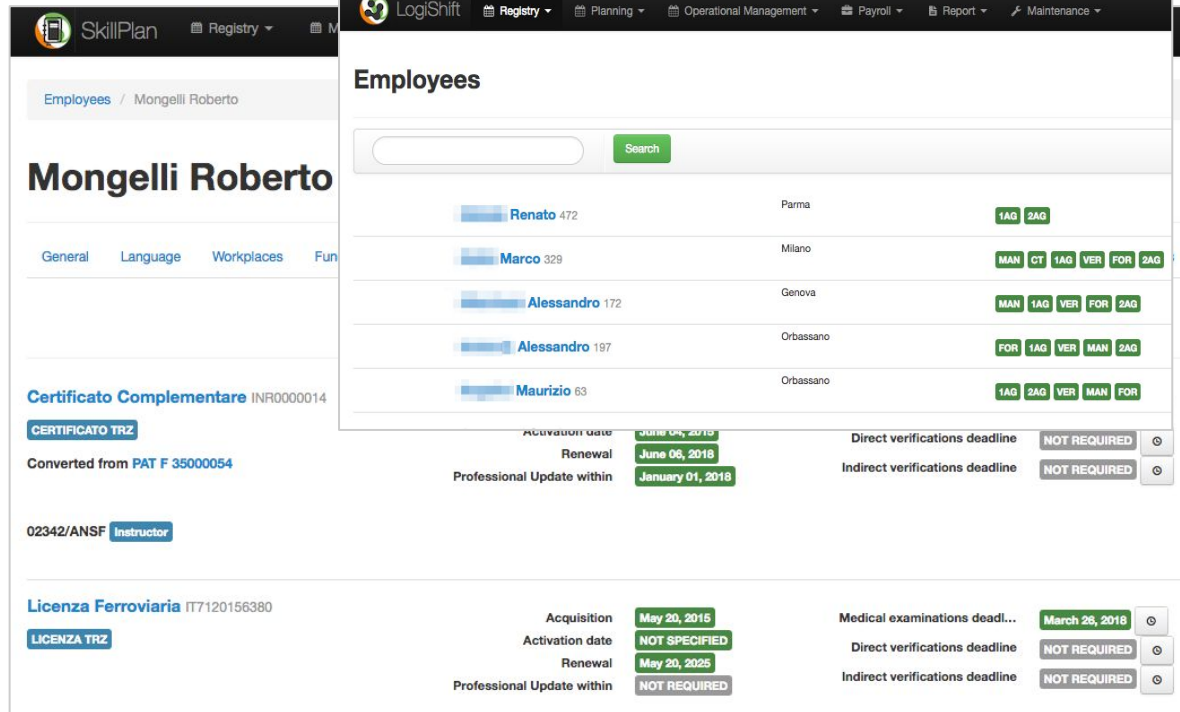
LogiShift has the aim of organizing human resources and rolling stock. It supervise different roles assigned to employees (First and Second Agents, Inspectors, Assembly managers, etc.), their shifts, and the coverage of trains.





Master Data - *Qualifications Management*

- All the resources are defined in a setup section.
- Personnel shifts managed according to tasks thanks to qualifications obtained.
- Qualifications' expirations are calculated from SkillPlan's training and medical visits' personnel management.



The screenshot displays the SkillPlan software interface, specifically the 'Employees' section. The interface is divided into two main panels. The left panel shows the profile for 'Mongelli Roberto', including tabs for 'General', 'Language', 'Workplaces', and 'Fun'. Below these tabs, there is a section for 'Certificato Complementare' (INR0000014) and 'Licenza Ferroviaria' (IT7120156380). The right panel shows a list of employees with their names, IDs, and locations. Each employee entry has a set of qualification tags (e.g., 1AG, 2AG, MAN, CT, VER, FOR, 2AG). Below the list, there are sections for 'Activation date', 'Renewal', 'Professional Update within', 'Direct verifications deadline', and 'Indirect verifications deadline'.

Employee Name	ID	Location	Qualifications
Renato	472	Parma	1AG, 2AG
Marco	329	Milano	MAN, CT, 1AG, VER, FOR, 2AG
Alessandro	172	Genova	MAN, 1AG, VER, FOR, 2AG
Alessandro	197	Orbassano	FOR, 1AG, VER, MAN, 2AG
Maurizio	63	Orbassano	1AG, 2AG, VER, MAN, FOR

Certificato Complementare INR0000014
CERTIFICATO TRZ
 Converted from PAT F 35000054
 02342/ANSF **Instructor**

Licenza Ferroviaria IT7120156380
LICENZA TRZ

Acquisition: May 20, 2015
 Activation date: NOT SPECIFIED
 Renewal: May 20, 2025
 Professional Update within: NOT REQUIRED

Direct verifications deadline: NOT REQUIRED
 Indirect verifications deadline: NOT REQUIRED

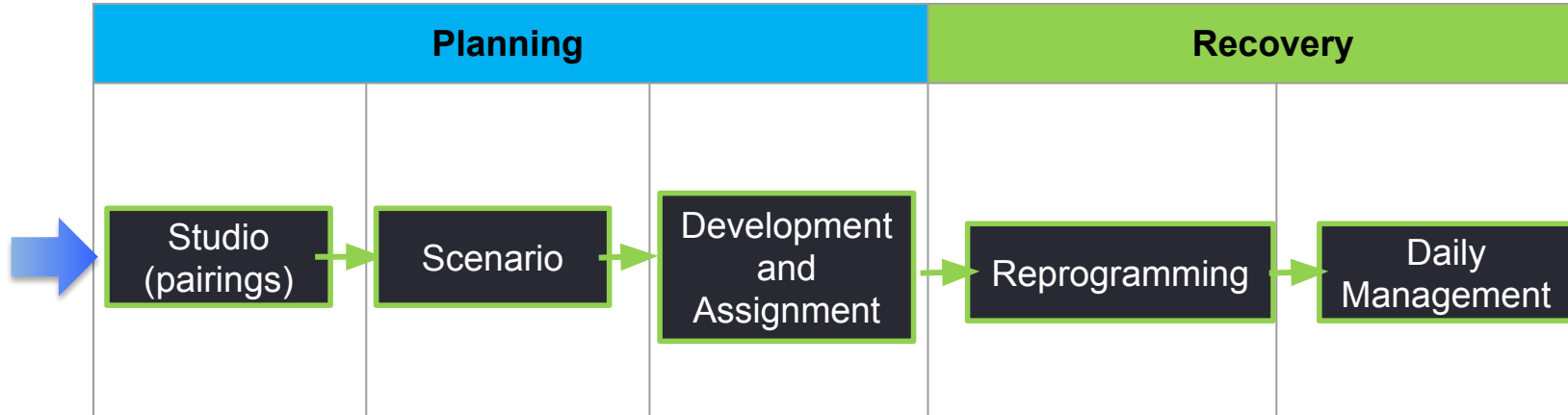
Medical examinations deadl...: March 26, 2018
 Direct verifications deadline: NOT REQUIRED
 Indirect verifications deadline: NOT REQUIRED



LogiShift - CREW Structure and Management Tools



Traditional
Flow



Crew Planning

Studio
(pairings)

The user builds
theoretical
pairings to
cover the paths
timetable

Scenario

The user uses the
pairings to build
up the weekly
anonymous roster

Development
and
Assignment


The user
develops the
Scenario on a
period of time and
assign shifts to
real people

Crew Planning - Schedule Studio: Pairings

Each Pairing contains the list of activities for a single weekly sheet considering working contract conditions and periodicity.

In each “Studio” there is a list of Pairings with which the user builds the Scenario’s weeks.




LogiShift
Registry
Planning
Operational Management
Payroll
Report
Maintenance
admin@binarysystem.eu

Studios / trieste dicembre / Working Links Groups / GA005

+

A1
6

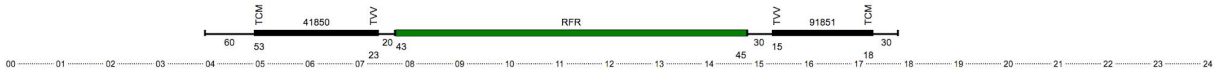
03:53 - 07:43

NIGHT

RFR

14:45 - 17:48

	WRK	RFR	EFW	KM	NIGHT
A	03:50	07:02	02:30	176	Si
R	03:03	00:00	02:03	176	No



Group
A1

GA005	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Dec 2016	T	F	s	S	M	T	W	T	F	s	S	M	T	W	T	F	s	S	M	T	W	T	F	s	S	M	T	W	T	F	s
Jan 2017	S	M	T	W	T	F	s	S	M	T	W	T	F	s	S	M	T	W	T	F	s	S	M	T	W	T	F	s	S	M	T

Crew Planning - Schedule Scenario



LogiShift

Registry

Planning

Operational Management

Payroll

Report

Line - AB_1-2017_Turno_DA V1 11/12/16 - 30/06/17

6 People

helicoidal

	Monday	Tuesday	Wednesday	Thursday
<div>Verona</div> <div>1AG 2AG,VER</div> <div>43104+W81</div> <div>Verona</div> <div>1AG 2AG</div> <div>43108+RFR+43109</div> <div>Verona</div> <div>1AG 2AG,VER</div> <div>43144+W89</div> <div>Verona</div> <div>1AG 2AG,VER</div> <div>43148+W83</div> <div>Verona</div> <div>1AG 2AG</div> <div>43154+43159</div> <div>Verona</div> <div>1AG 2AG,VER</div>				
		43108+RFR+43109 - A1 (3) 43108,RFR BRN,43109	43108+RFR+43109 - A1 (1) 43108,RFR BRN,43109	
		43154+43159 - A1 (4) 43154,43159	43154+43159 - A1 (2) 43154,43159	43154+43159 - A1 43154,43159

Verona

1AG

FOR, 2AG, VER

1

W2262+43155 - A1

2262 43155

1 / 1

43108+RFR+43109 - A1

3 / 3

43108 RFR BRN 43109

W2266+40579 - A1

4 / 4

Verona

1AG

FOR, 2AG, VER

2

62154+RFR+W2253 - A1

62154 RFR BRN 2253

8 / 2

43154+43159 - A1

10 / 4

43154 43159

Considering the number of people involved in the planning, the Scenario feature helps the user to create the anonymous shift according to contract conditions.

Crew Planning - Development and Assignment

Each assignment will have a weekly rotation with the possibility to change some particular days or exceptions.



Progressive	Tasks	Group	Employee	Week 1	Week 2
1	FOR		✗ Iaboni D.	✗ Iaboni D.	✗ Iacob A.
2	FOR		✗ Bellinazzi D.	✗ Bellinazzi D.	✗ Iaboni D.
3	FOR		✗ Daimaso D.	✗ Daimaso D.	✗ Bellinazzi D.
4	FOR		✗ Picciocchi F.	✗ Picciocchi F.	✗ Daimaso D.
5	FOR		✗ Garofalo G.	✗ Garofalo G.	✗ Picciocchi F.
6	FOR		✗ Thurner G.	✗ Thurner G.	✗ Garofalo G.
7	FOR		✗ Mazzi L.	✗ Mazzi L.	✗ Thurner G.
8	FOR		✗ Valdagni A.	✗ Valdagni A.	✗ Mazzi L.

Name	Person Number	Group	Tasks	01/06/2015	02/06/2015	03/06/2015	04/06/2015	05/06/2015
GA001	1		FOR	✗ Iaboni D.	✗ Iaboni D.	✗ Iaboni D.		✗ Iaboni D.
GA001	2		FOR	✗ Bellinazzi D.	✗ Bellinazzi D.	✗ Bellinazzi D.		✗ Bellinazzi D.
GA001	3		FOR	✗ Daimaso D.	✗ Daimaso D.	✗ Daimaso D.		✗ Daimaso D.
GA001	4		FOR	✗ Picciocchi F.	✗ Picciocchi F.	✗ Picciocchi F.		✗ Picciocchi F.
GA001	5		FOR	✗ Garofalo G.	✗ Garofalo G.	✗ Garofalo G.		✗ Garofalo G.
GA001	6		FOR	✗ Thurner G.	✗ Thurner G.	✗ Thurner G.		✗ Thurner G.
GA001	7		FOR	✗ Mazzi L.	✗ Mazzi L.	✗ Mazzi L.		✗ Mazzi L.
GA001	8		FOR	✗ Valdagni A.	✗ Valdagni A.	✗ Valdagni A.		✗ Valdagni A.

Crew Recovery: Reprogramming

- Zoom view on weekly reprogramming to focus on a specific period of time.
- The system highlights free resources and trains not covered
- Personnel's shifts available on mobile

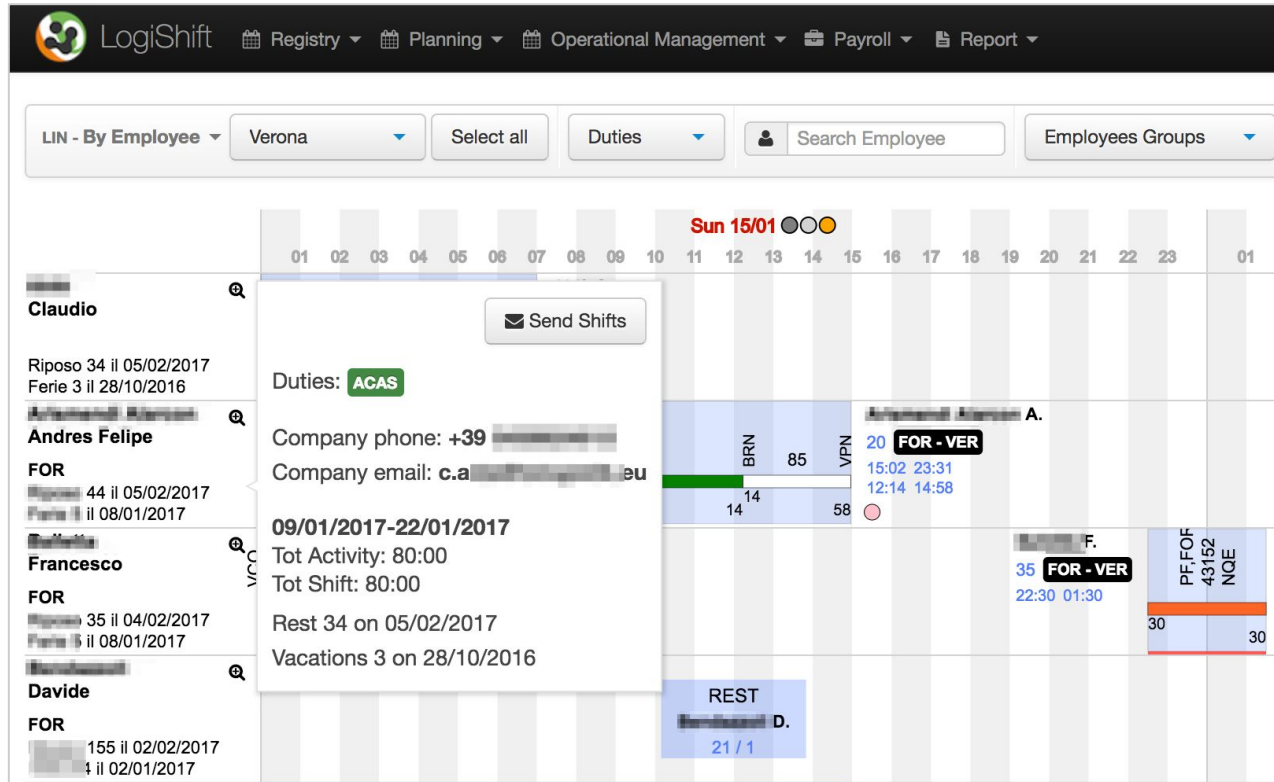
Registry Planning Operational Management Payroll Report admin@binarysystem.eu

Workplace Select all Duties Search Employee Employees Groups Find by Number -10 06/02/2017 +10

	27/01	28/01	29/01	30/01	31/01	01/02	02/02	03/02	04/02	05/02	06/02	07/02	08/02	09/02	10/02	11/02	12/02	13/02	14/02
Q	940 PDC	REST	REST	100	VM 31/01	940 PDC	110	REST	160	160	941 PDC	110	REST	REST	110	940 PDC S	110	REST	REST
Q																			
Q							100												
Q		REST	REST	990 PDA S	930 PDA S	i	REST	i	i	i	i	REST	REST	260	930 PDA	930 PDA	260	REST	930 PDA
Q	990 PDA	210	210	REST	200	200	990 PDA	260	REST	REST	200	990 PDA	210	210	REST	C 11/02	C 12/02	260	260
Q	910	910	910	920	REST	REST	910	940 CO S	210	920	REST	REST	910	910	990 CO S	920	920	REST	920
Q	160	REST	100	990 PDC	110	110	REST	REST	110	180	100	990 PDC S	REST	100	990 PDC	160	941 PDC	110	REST
Q																			

Crew Recovery - Daily Management

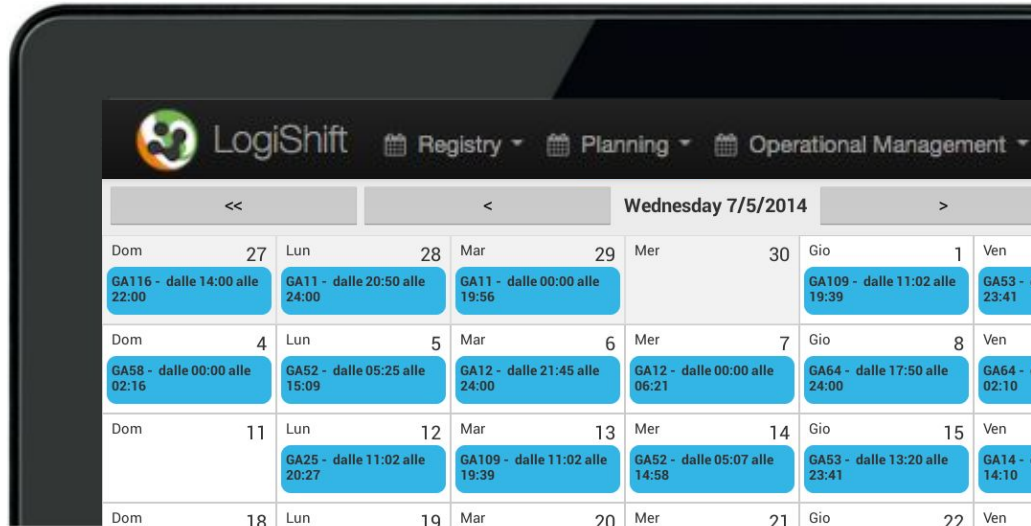
- Overall view of human resources and rolling stocks.
- Monitoring of each shift status and possibility to make changes.
- User notified by shift changes sending.



Crew Recovery - *MOBILE APP*

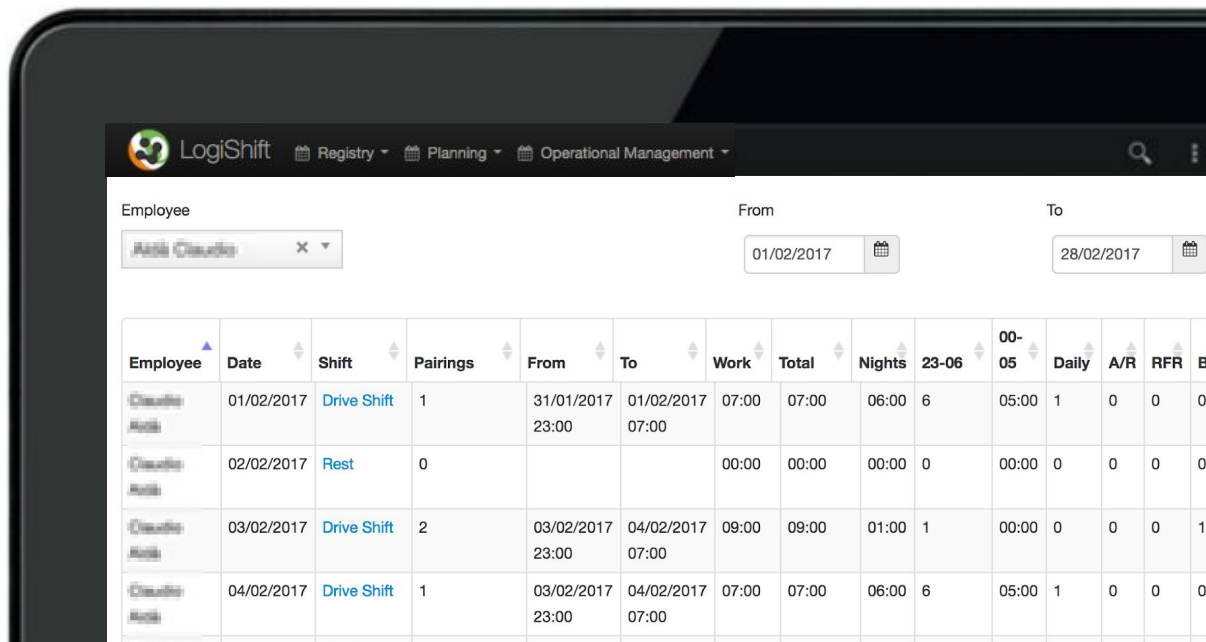
Management features:

- Overall view of human resources and rolling stocks.
- Monitoring of each shift status and possibility to make changes.
- Send shift changes via push notifications.



<<		<		Wednesday 7/5/2014		>	
Dom 27	Lun 28	Mar 29	Mer 30	Gio 1	Ven		
GA116 - dalle 14:00 alle 22:00	GA11 - dalle 20:50 alle 24:00	GA11 - dalle 00:00 alle 19:56		GA109 - dalle 11:02 alle 19:39	GA53 - dalle 23:41		
Dom 4	Lun 5	Mar 6	Mer 7	Gio 8	Ven		
GA58 - dalle 00:00 alle 02:16	GA52 - dalle 05:25 alle 15:09	GA12 - dalle 21:45 alle 24:00	GA12 - dalle 00:00 alle 06:21	GA64 - dalle 17:50 alle 24:00	GA64 - dalle 02:10		
Dom 11	Lun 12	Mar 13	Mer 14	Gio 15	Ven		
	GA25 - dalle 11:02 alle 20:27	GA109 - dalle 11:02 alle 19:39	GA52 - dalle 05:07 alle 14:58	GA53 - dalle 13:20 alle 23:41	GA14 - dalle 14:10		
Dom 18	Lun 19	Mar 20	Mer 21	Gio 22	Ven		

Crew Recovery - *MOBILE APP II*



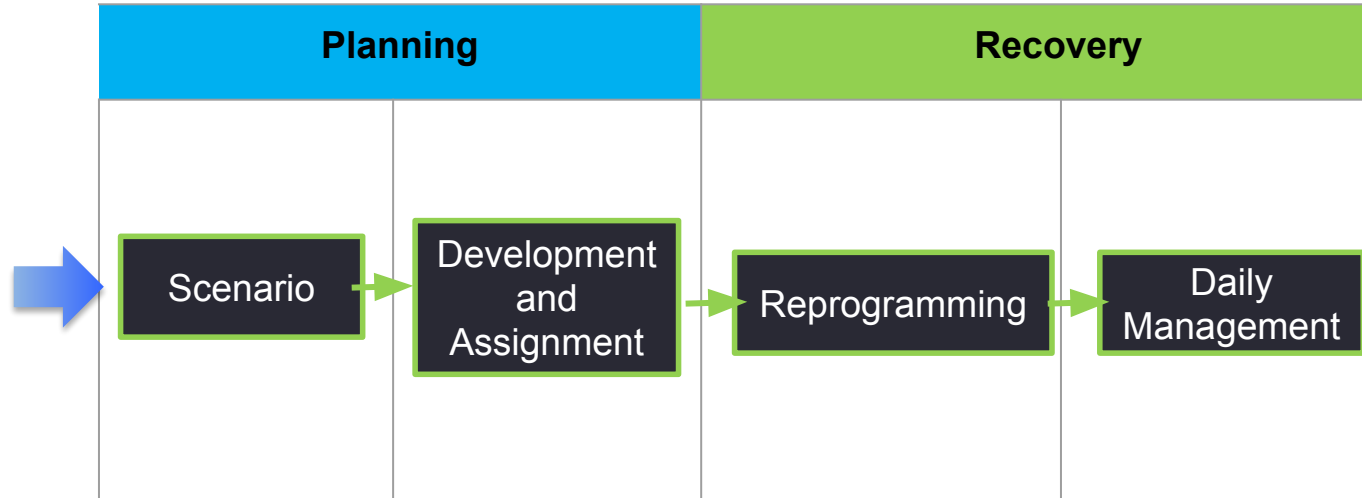
Employee: Anna Claudio From: 01/02/2017 To: 28/02/2017

Employee	Date	Shift	Pairings	From	To	Work	Total	Nights	23-06	00-05	Daily	A/R	RFR	BF
Anna Claudio	01/02/2017	Drive Shift	1	31/01/2017 23:00	01/02/2017 07:00	07:00	07:00	06:00	6	05:00	1	0	0	0
Anna Claudio	02/02/2017	Rest	0			00:00	00:00	00:00	0	00:00	0	0	0	0
Anna Claudio	03/02/2017	Drive Shift	2	03/02/2017 23:00	04/02/2017 07:00	09:00	09:00	01:00	1	00:00	0	0	0	1
Anna Claudio	04/02/2017	Drive Shift	1	03/02/2017 23:00	04/02/2017 07:00	07:00	07:00	06:00	6	05:00	1	0	0	0

Mobile crew features:

- Timesheet and disputes
- Expenses reports
- Shifts communication
- Holidays requests

LogiShift - ROLLING STOCK *Structure and Management Tools*



Traditional Flow

Rolling Stock Planning

Scenario

The user assigns
paths to the weekly
anonymous rolling
stock roster

Development
and
Assignment

The user develops
the Scenario on a
period of time and
assign shifts to
real rolling stocks



Rolling Stock Planning - Scenario



Features:

- Create multiple scenarios with different characteristics
- Check km and uptime/downtime theoretical amounts
- Check pathss coverage
- Warnings for continuity and overlapping problems

LogiShift Registry Planning Operational Management Report admin@binarysystem.eu Settings

Locomotives Scenarios / TURNO LOK SET 1-2017

-3 Thursday +3 Locomotive Group: Select all

Edit locomotives scenario Print Clone

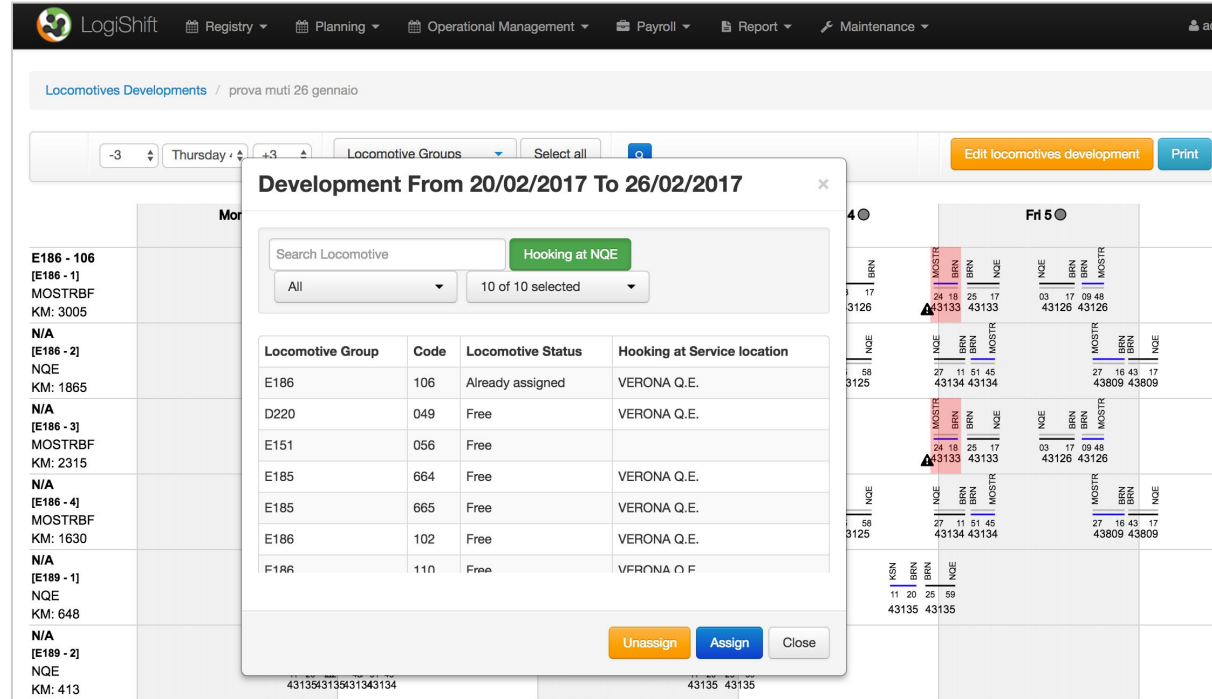
	Mon 1	Tue 2	Wed 3	Thu 4	Fri 5
E189 - 6 CHIA KM: 3441	CHIA 12 55 51493	CSG 01 52 55498	CHSM 32 29 51499	CHSM 46 32 55496	CHSM 47 32 55496
E191 - 1 CHSM KM: 4866	CHIA 00 52 51469	TOORB 10 32 51467	CHSM 18 00 50466	RE 36 31 51487	CHSM 36 31 55494
E191 - 2 CHSM KM: 1454	CHIA 497 246 51421	CSG 300246 4225142	CHSM 185 532 38194	PC 1052 1052	CHSM 497 246 51421
E191 - 3 CHSM KM: 5089	CHIA 51481 30	ANG 20	CHSM 57408 35	CHSM 389 547 51485	CHSM 36 51485

Details Note Copy Cut Link to next Delete

Rolling Stock Planning - *Development and assignment*

Features:

- Develop a Scenario over one or more weeks
- Make incremental changes over the original scenario
- Check pathss coverage
- Warnings for continuity, overlapping problems and planned maintenances
- Check cancelled trains



The screenshot displays the LogiShift software interface. A modal window titled "Development From 20/02/2017 To 26/02/2017" is open, showing a table of locomotive assignments. The table has four columns: Locomotive Group, Code, Locomotive Status, and Hooking at Service location. The table lists several locomotives, including E186, D220, E151, E185, and F186, with their respective codes and statuses. The "Hooking at Service location" column shows "VERONA Q.E." for most entries. The interface also includes a search bar, a dropdown menu for "All", and a "Hooking at NQE" button. The background shows a calendar view with various dates and times, and a sidebar with a list of locomotive groups.

Locomotive Group	Code	Locomotive Status	Hooking at Service location
E186	106	Already assigned	VERONA Q.E.
D220	049	Free	VERONA Q.E.
E151	056	Free	
E185	664	Free	VERONA Q.E.
E185	665	Free	VERONA Q.E.
E186	102	Free	VERONA Q.E.
F186	110	Free	VERONA Q.E.

Rolling Stock Recovery - Reprogramming

Locomotives -0 24/05/2015 +3 E186, E189, EU43 Find by Number Service location

E186 - 282

Front Locomotives

- 1 E186 - 282 LI 38347 (26/05/2015) BRENNERO - VERONA Q.E.
- 2 E186 - 285 LI 38347 (26/05/2015) BRENNERO - VERONA Q.E.
- 3 E483 - 003 LI 38347 (26/05/2015) BRENNERO - VERONA Q.E.
- 4 E483 - 005 LI 38347 (26/05/2015) BRENNERO - BOLZANO

Back Locomotives

Select an Option Add

SCMT semestrale

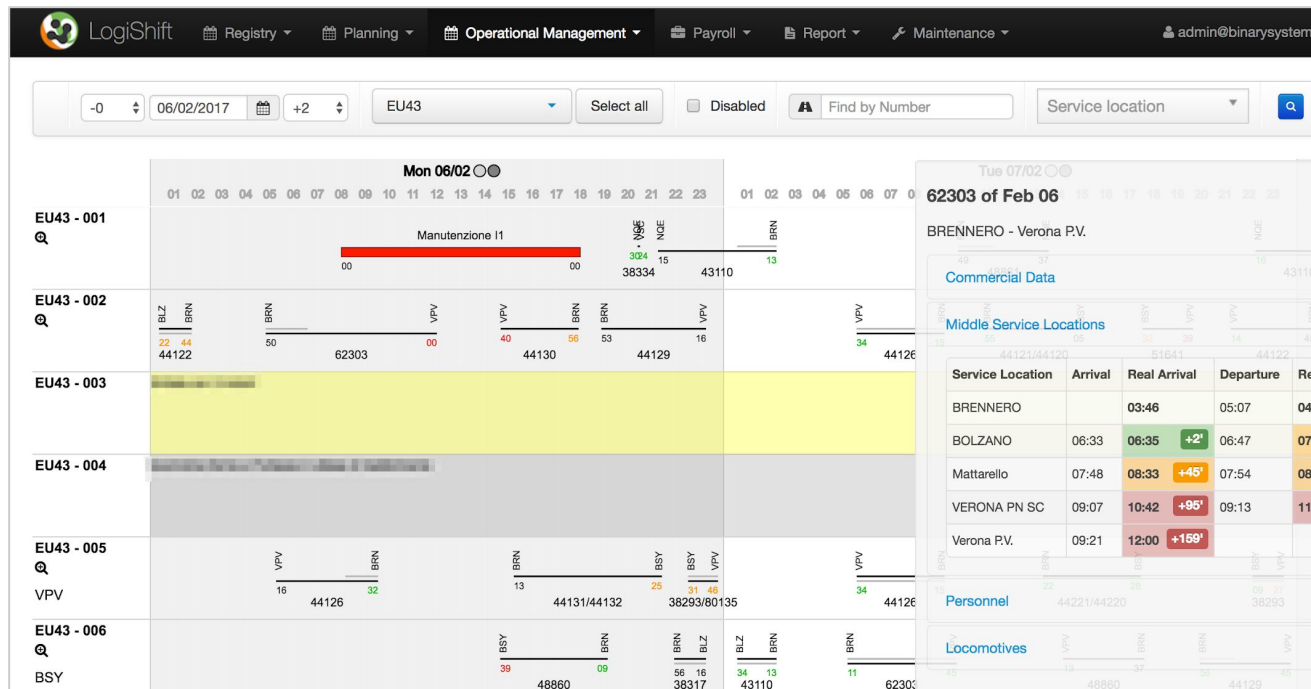
LI 72371 LI 48118 62122 LI 38347

- Assignment management of each rolling stock to trains.
- Trains not covered and locomotive problems highlighted.

Rolling Stock Recovery - Daily Management

Features:


- Show realtimes from infrastructure
- Check trains coverage
- Warnings for continuity, overlapping problems and actual maintenances
- Check cancelled trains



LogiShift - Payroll

Main features:

- Clockings export to interface with the company's payroll system
- Correct calculation of personnel salaries.
- Possibility to add manual clockings

 LogiShift Registry Planning Operational Management Payroll Report admin@binarysystem.eu

Export payroll files

Warning! Shifts until 21/07/2016

Employee: From: To: Export Export All

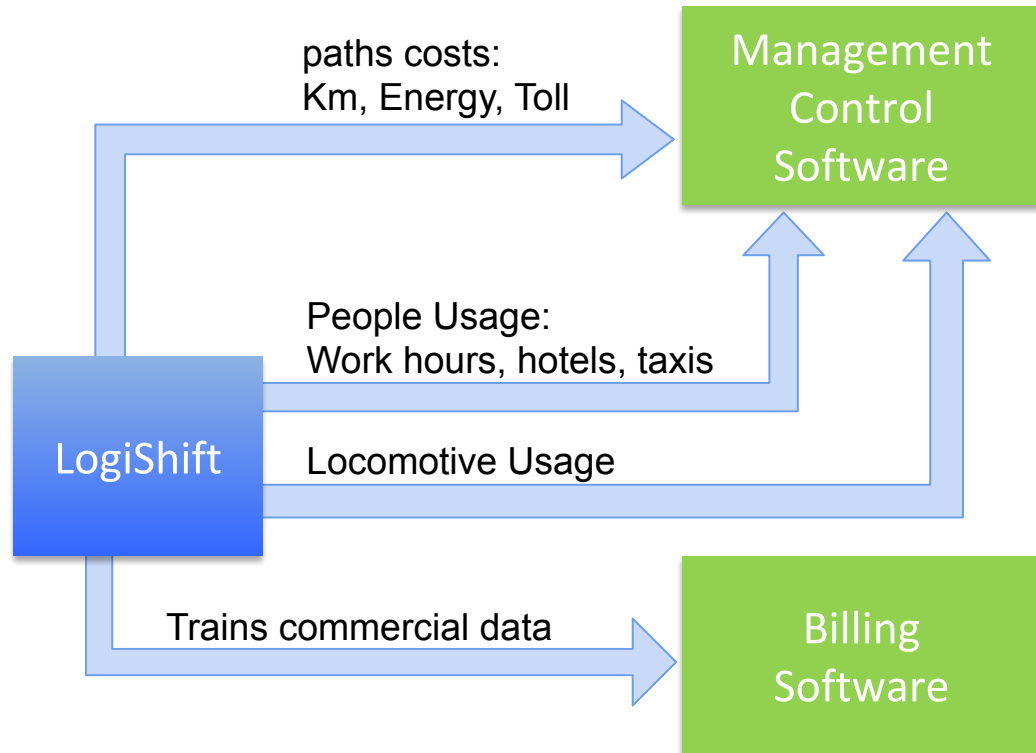
Employee	Date	Shift	Pairings	From	To	Work	Total	Nights	23-06	00-05	Daily	A/R	RFR	BP	Res	School	T5	T6	FV	Taxi	Hotel	TX	AET	A/R2
<small>Claudio</small> <small>Anna</small>	01/02/2017	Drive Shift	1	31/01/2017 23:00	01/02/2017 07:00	07:00	07:00	06:00	6	05:00	1	0	0	0	0	0	0	0	0	0	0	0	0.0	0
<small>Claudio</small> <small>Anna</small>	02/02/2017	Rest	0			00:00	00:00	00:00	0	00:00	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
<small>Claudio</small> <small>Anna</small>	03/02/2017	Drive Shift	2	03/02/2017 23:00	04/02/2017 07:00	09:00	09:00	01:00	1	00:00	0	0	0	1	0	0	0	0				0	0.0	0
<small>Claudio</small> <small>Anna</small>	04/02/2017	Drive Shift	1	03/02/2017 23:00	04/02/2017 07:00	07:00	07:00	06:00	6	05:00	1	0	0	0	0	0	0	0	0	0	0	0	0.0	0
<small>Claudio</small> <small>Anna</small>	05/02/2017	Rest	0			00:00	00:00	00:00	0	00:00	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
<small>Claudio</small> <small>Anna</small>	06/02/2017	Drive Shift	2	06/02/2017 23:00	07/02/2017 07:00	09:00	09:00	01:00	1	00:00	0	0	0	1	0	0	0	0				0	0.0	0
Total			19			104:00	104:00	48:00	48	35:00	7	0	0	2.0	0	0	0	0	0	0	0	2		

LogiShift - Management Control



Main features:


- Send commercial data of trains to billing software
- Distribute costs of employees, paths and locomotives on customers and contracts



LogiShift Reports

Export of production data
in Spreadsheet format:

- Detailed train list made in a period of time,
- Operating personnel's activities
- Locomotive fleet mileage,
- Etc..


LogiShift
Registry
Planning
Operational Management
Payroll
Report
admin@binarysystem.eu

Service Location Knowledge

Search
Export

Code	Employee	Workplace	Enablement	Service location	Acquisizione	Expiration
07_01	Michele	Verona	FATMODB, FATMODA	BRENNERO	22/08/2011	16/08/2016
09_01	Emiliano	Verona	FATMODB, FATMODA	BRENNERO	30/07/2013	09/12/2017
100_01	Sebastiano	Verona	FT-B, FT-A	BRENNERO	06/11/2016	28/01/2018
101_01	Carmelo	Verona	FT-A, FT-B	BRENNERO	06/11/2016	04/02/2018
102_01	Gaetano Fabio	Verona	FT-A, FT-B	BRENNERO	06/11/2016	30/01/2018
103_01	Lorenz	Verona	FT-B, FT-A	BRENNERO	19/10/2016	19/10/2017
106_01	Loris	Verona	FT-B, FT-A	BRENNERO	22/05/2013	12/11/2016
10_01	Gianluca	Verona	FATMODB, FATMODA	BRENNERO	24/11/2011	08/11/2017
14_01	Pasquale	Verona	FATMODB, FATMODA	BRENNERO	16/05/2012	03/12/2017
17_01	Marco	Verona	FATMODB, FATMODA	BRENNERO	10/07/2012	03/02/2018



LogiShift Infrastructure Integration



Monitoring of
employees
knowledge lines,
position of the
trains or locos into
the infrastructure
network using
Electronic Map.



SkillPlan

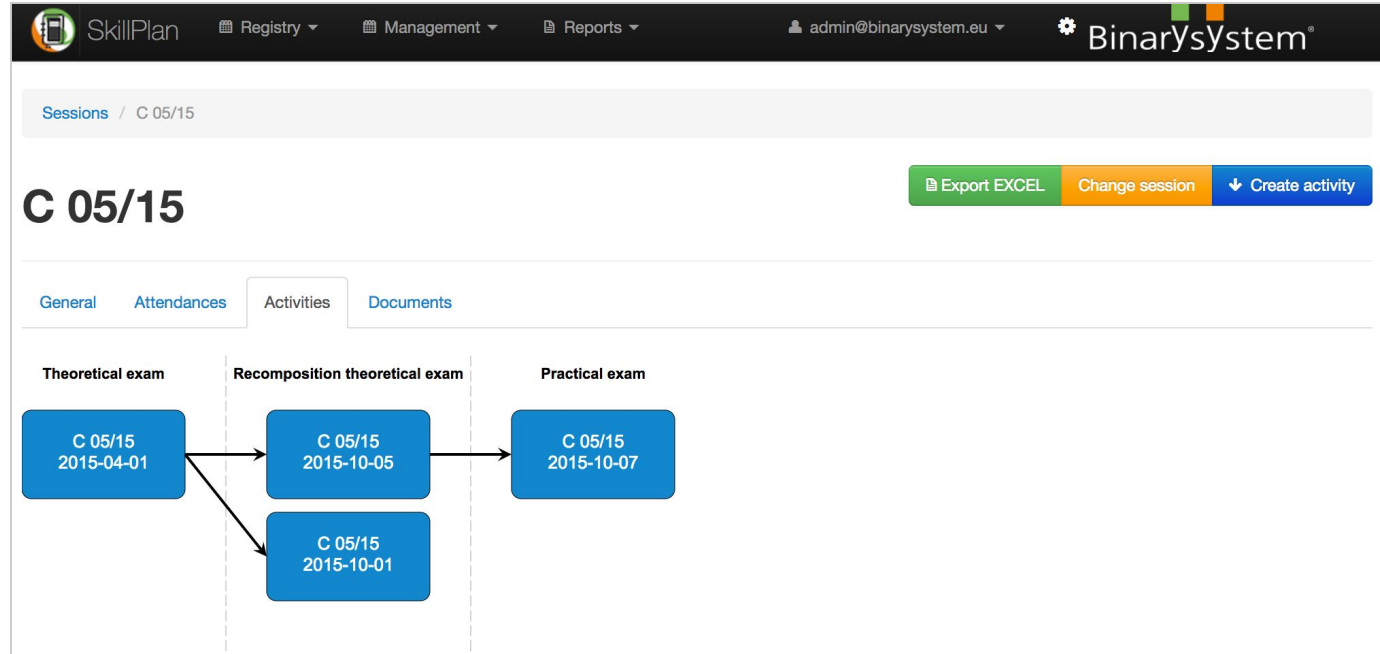
The software designed to furnish HR with a professional tool to plan, monitor and manage all the activities of training, refreshing and employees auditing.

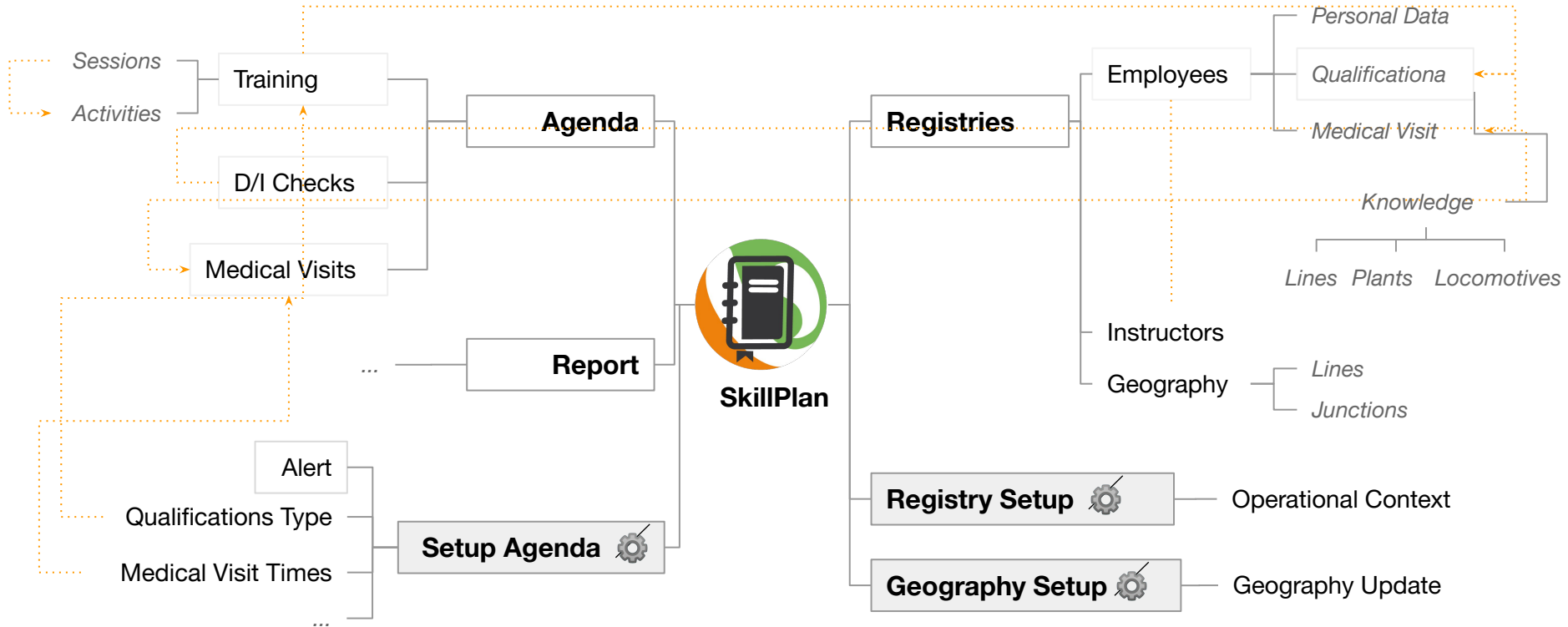


SkillPlan allows to schedule and manage tests and inspections depending on employee's age and health, in order to acquire and maintain the different licenses and qualifications.

It manages:

- Contractual limitations;
- Qualifying limitations;
- Checks;
- Work related injury;
- Personnel availability.







SkillPlan: Qualification types



<input type="text"/> Order <div> <div></div> <div></div> <div></div> </div> Search							
Accompagnamento Treno AT New Legislation	Acquisition required	✓	Conv. from other possible IF	✓	Locomotive groups Acquisit...	✗	
	Renewal required	✗	Extension with conversion	✗	Medical examinations requir...	✓	
	Mantenimento richiesto	✓	Lines Acquisition	✗	Direct verifications required	✓	
	Possible conversion	✓	Service locations Acquisition	✓	Indirect verifications required	✗	
Certificato Complementare CC New Legislation	Acquisition required	✓	Conv. from other possible IF	✓	Locomotive groups Acquisit...	✓	
	Renewal required	✗	Extension with conversion	✗	Medical examinations requir...	✓	
	Mantenimento richiesto	✓	Lines Acquisition	✓	Direct verifications required	✓	
	Possible conversion	✓	Service locations Acquisition	✓	Indirect verifications required	✓	
Licenza Ferroviaria LIC New Legislation	Acquisition required	✓	Conv. from other possible IF	✗	Locomotive groups Acquisit...	✗	
	Renewal required	✓	Extension with conversion	✗	Medical examinations requir...	✓	
	Mantenimento richiesto	✗	Lines Acquisition	✗	Direct verifications required	✗	
	Possible conversion	✗	Service locations Acquisition	✗	Indirect verifications required	✗	
Merci Pericolose MP New Legislation	Acquisition required	✓	Conv. from other possible IF	✗	Locomotive groups Acquisit...	✗	
	Renewal required	✗	Extension with conversion	✗	Medical examinations requir...	✗	
	Mantenimento richiesto	✓	Lines Acquisition	✗	Direct verifications required	✗	
	Possible conversion	✗	Service locations Acquisition	✗	Indirect verifications required	✗	

Setup is totally dynamic.

For each kind of qualification type, users can define which training activities are mandatory to monitoring, defining each setup information.



SkillPlan: Plan of Training



Select an Option

Mine

Go to day

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

Jan 17 – 23 2016

Month Week Day

	Sun 1/17	Mon 1/18	Tue 1/19	Wed 1/20	Thu 1/21	Fri 1/22	Sat 1/23
all-day			<div>Deadline DV_CC (Casali Federico)</div> <div>Deadline DV_CC (Coppola Vincenzo)</div> <div>Deadline DV_CC (Errera Antonio)</div> <div>Deadline DV_CC (Spanò David)</div> <div>Deadline DV_CC (Banfi Lorenzo)</div> <div>Deadline DV_CC (Usseglio Samuele)</div> <div>Deadline DV_CC (Garetto Daniel)</div> <div>Deadline IV_CC (Casali Federico)</div> <div>Deadline IV_CC (Coppola Vincenzo)</div> <div>Deadline IV_CC (Garetto Daniel)</div> <div>Deadline IV_FATMODB (De Fazio Lino)</div> <div>Deadline IV_CC (Errera Antonio)</div> <div>Deadline IV_CC (Spanò David)</div> <div>Deadline IV_CC (Banfi Lorenzo)</div> <div>Deadline IV_CC (Usseglio Samuele)</div>	<div>Deadline IV_FATMODB (Colucci Claudio)</div> <div>Deadline IV_FATMODB (Angelini Maurizio)</div> <div>Deadline IV_FATMODB (Miseferi Gaetano)</div> <div>Deadline IV_FATMODB (Neirotti Stefano)</div> <div>Deadline IV_FT-B (Giannitti Giacomo)</div> <div>Deadline IV_FATMODB (Sabatasso Enzo)</div>	<div>Deadline DV_CC (Fassiano Francesco)</div> <div>Deadline DV_CC (Virzi Marco)</div>		



SkillPlan: Sessions



[Sessions](#) / C 05/15

[Export EXCEL](#)
[Change session](#)
[Create activity](#)
[Destroy](#)

General

Attendances

Activities

Session

Acquisition

Locomotive groups

BB36300, E484

Instructor

Ella Cosimo, Cardali Enzo

Service locations

Not specified

Enablings

CC

Routes/Paths

Not specified

Performance period

From 2015-01-21 To 2015-03-27

Rolling Stock

Not specified

Sede

Torino

Note

Not specified

Description

Not specified

Theoretical exam

C 05/15
2015-04-01

Recomposition theoretical exam

C 05/15
2015-10-05

C 05/15
2015-10-01

Practical exam

C 05/15
2015-10-07

Employee	Theoretical exam	Recompositi
Aiello Marco	April 01, 2015	October 01, 20
Cavaliere Nicola	April 01, 2015	October 01, 20
Chinè Pasqualino	April 01, 2015	October 01, 20
	April 01, 2015	October 01, 20
	April 01, 2015	October 01, 20
	April 01, 2015	October 05, 20
	April 01, 2015	October 05, 20

Create **sessions** to manage training activities necessary to obtain a new license or to maintain the qualification's validity.



SkillPlan: Employees and Licences



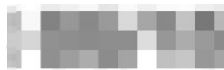
With SkillPlan, Instructors can monitor all different licences considering:

- Acquisition
- Maintenance
- Medical visits
- Knowledge of resources
- Checks

Employees									
<div> <div>Seleziona Function</div> <div>Seleziona Qualification</div> <div>Seleziona Business relationship...</div> <div>Seleziona working at other IF</div> <div>Seleziona Service location</div> <div>Seleziona Workplace</div> <div>Seleziona Railway Company</div> <div>Attivi</div> <div>All</div> <div>Search</div> </div>									
Aiello Marco 329	VRFMODB	FATMODD	FATMODB	LIC	FATMODA	VRFMODC	FT-A	CC	Palermo ()
Albertazzi Alessandro 172	VRFMODC	FATMODA	FATMODB	LIC	VRFMODB	CC			Genova ()
Ambrosi Alessandro 197	LIC	VRFMODC	CC	FT-A	FATMODB	FATMODA	VRFMODB		Rivoli (To)
Angelini Maurizio 63	LIC	VRFMODC	VRFMODB	CC	FATMODB	FATMODA			Susa (To)
Antonucci Sergio rac.1									()
Anzalone Salvatore C7	VE	LIC	FT-A	FT-B					Palermo ()
Arditi Mario 240	LIC	CC							Cassine (AL)
Arimburgo Michele 216									()
Arpante Marco 378	FT-A	FT-B	LIC	CC	VE				Portogruaro (VE)



SkillPlan: Employee's enablements

[Change employee](#)**Alessandro**[General](#) [Lingue](#) [Enablements](#) [Control Panel](#) [Activity](#) [Medical examinations](#) [Documents](#) [Monitoring employees/instructors](#)[Export EXCEL](#)

Certificato Complementare 001/13

CC

Istruttore

Acquisition **February 25, 2013**

Medical examinations deadl...

October 23, 2015

Direct verifications deadline

July 15, 2016

Indirect verifications deadline

February 25, 2014[Options](#)[Resources](#)

Licenza Ferroviaria IT7120130634

LIC

Istruttore

Acquisition **January 08, 2013**Activation date **NOT SPECIFIED**

Medical examinations deadl...

October 23, 2015

Direct verifications deadline

NOT REQUIRED

Indirect verifications deadline

NOT REQUIRED[Options](#)[Resources](#)

Modulo A di Movimento 27000283

FATMODA

Istruttore

Acquisition **February 09, 2011**

Medical examinations deadl...

April 01, 2022

Direct verifications deadline

March 23, 2015


Indirect verifications deadline

February 09, 2012[Options](#)[Resources](#)



SkillPlan: Direct Checks



 SkillPlan

[Registry](#)
[Management](#)
[Reports](#)


[Checks](#) / Direct check September 12, 2016


Direct check of September 12th

General

Documents


Date September 12, 2016

Instructor  Federico


Employees  Rodolfo

Session


Qualifications

 D Module (FATMODD)

POSITIVE
 Expired:
 March 12, 2017

 SkillPlan

[Registry](#)
[Management](#)
[Reports](#)

[admin@binarysystem.eu](#)
 BinarYsSystem®

[Checks](#) / [Direct check del October 30, 2014](#) / Traction officer verification's summary

Traction officer verification's summary

Direct check of October 30th, 2014 for employee Piemonte Paolo

1a	PREPARARSI ALLA MISSIONE	<input checked="" type="radio"/> P <input type="radio"/> N <input type="radio"/> NA
101a	Prepararsi alla missione	<input checked="" type="radio"/> P <input type="radio"/> N <input type="radio"/> NA
102a	Consultare per tempo il turno e le pubblicazioni necessarie, presentarsi in orario	<input type="radio"/> P <input checked="" type="radio"/> N <input type="radio"/> NA
103a	Equipaggiarsi in funzione del servizio da svolgere	<input checked="" type="radio"/> P <input type="radio"/> N <input type="radio"/> NA
104a	Muoversi in sicurezza nell'ambito degli spazi ferroviari	<input type="radio"/> P <input type="radio"/> N <input checked="" type="radio"/> NA
1b	VERIFICARE CAPACITA' DEL MEZZO DI TRAZIONE	<input checked="" type="radio"/> P <input type="radio"/> N <input type="radio"/> NA
101b	Verificare che il mezzo di trazione corrisponda alle caratteristiche del servizio da svolgere	<input checked="" type="radio"/> P <input type="radio"/> N <input type="radio"/> NA
102b	Verificare i libri di bordo del mezzo di trazione	<input checked="" type="radio"/> P <input type="radio"/> N <input type="radio"/> NA



SkillPlan: Observance Report



Maintenances

☒ Done ☒ To Be Done

Direct check

☒ Done ☒ To Be Done

Indirect check

☒ Done ☒ To Be Done

To date


31/12/2017



☒ Only Active



Qualification	Employee	Maintenances Done	Direct Checks Done	Indirect Checks Done	Carried out Medical examination	Last Visit's Outcome
Certificato Complementare Armonizzato (CCA)	Enis	Yes	No	No	Yes	SUITABLE
Certificato Complementare Armonizzato (CCA)	Davide	Yes	No	No	Yes	SUITABLE
Certificato Complementare Armonizzato (CCA)	Christian	Yes	No	No	Yes	SUITABLE
Certificato Complementare Armonizzato (CCA)	Emilio	Yes	No	No	Yes	SUITABLE
Certificato Complementare Armonizzato (CCA)	Damiano	Yes	No	No	Yes	SUITABLE
Certificato Complementare Armonizzato (CCA)	Giuseppe	Yes	No	No	Yes	SUITABLE
Certificato Complementare Armonizzato (CCA)	Irea	Yes	No	No	Yes	SUITABLE
Certificato Complementare Armonizzato (CCA)	Rinaldo	Yes	No	No	No	WITH REVISION
Certificato Complementare Armonizzato (CCA)	Georg	Yes	No	No	No	WITH REVISION
Certificato Complementare Armonizzato (CCA)	Alessandro	Yes	No	No	Yes	SUITABLE
Certificato Complementare Armonizzato (CCA)	no	Yes	No	No	Yes	SUITABLE



VerForm


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

The background image shows a hand pointing at a tablet displaying a technical drawing or map, overlaid on a blurred image of a train passing under a bridge.



VerForm allows the registration of train inspection and setting up activities through a browser or application data registration and documents prints.




VerForm
Dashboard
Registries
admin@binarysystem.eu
⚙️

Verification was successfully created.

Train 43118 Of 2014-12-10

Verification
 Composition

E189.102
Type Single Traction

NO TRAIN

1 33 68 4575 643-4
Type Passengers

2 33 68 4953 460-5
Type Passengers

3 37 80 4552 021-0
Type Passengers

NO VER/TRAIN

4 37 80 4961 300-3
Type Freights

NO VER/TRAIN

33 68 4953 460-5

Back To Cars List

Details
 Verification
 Composition
 Checklist DF

Verification info

Visit Type

VCO

* Visit Result

Conform

Not in compliance

Save

Labels

I

K

L blu

L rossa

M

Na

R1

R3

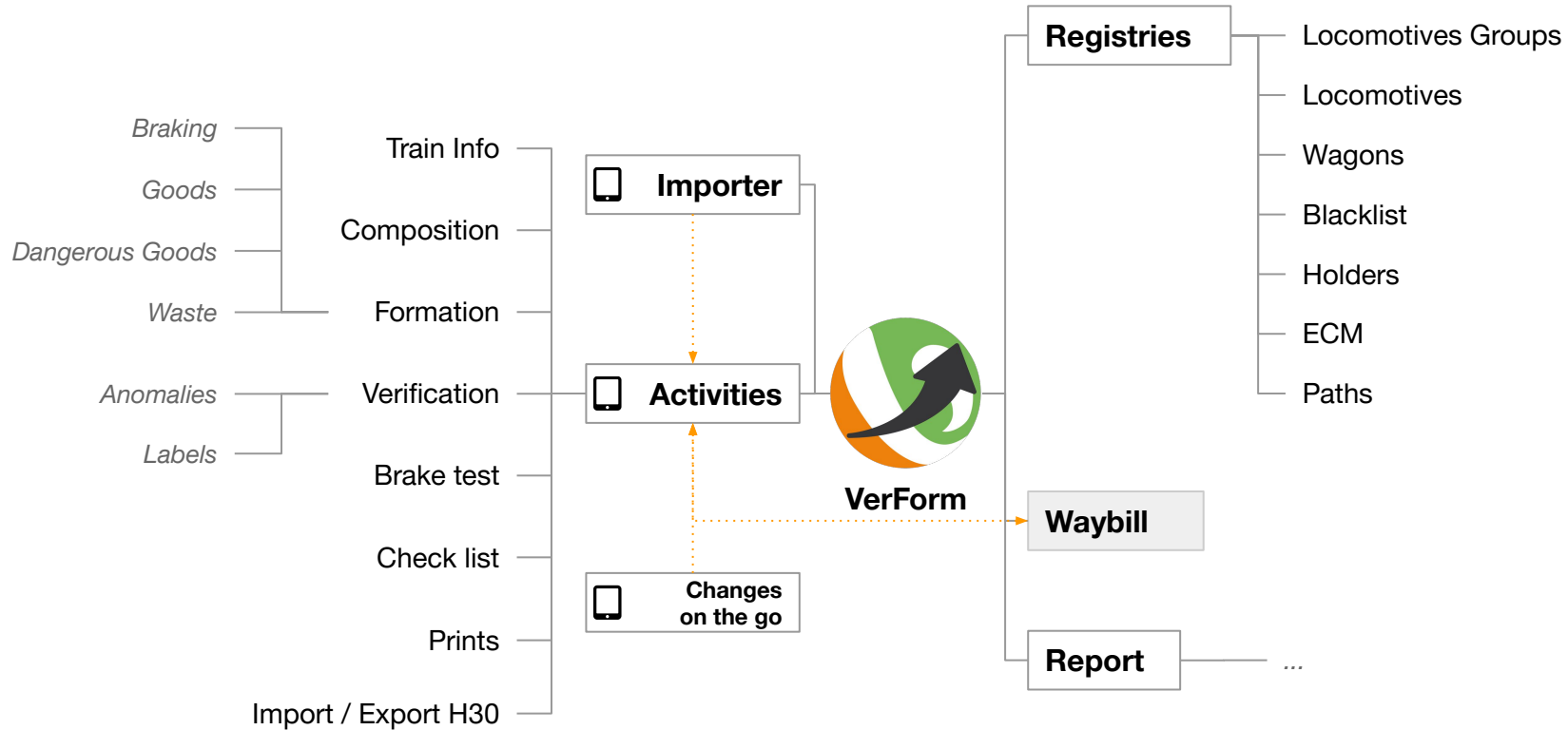
U

Ua

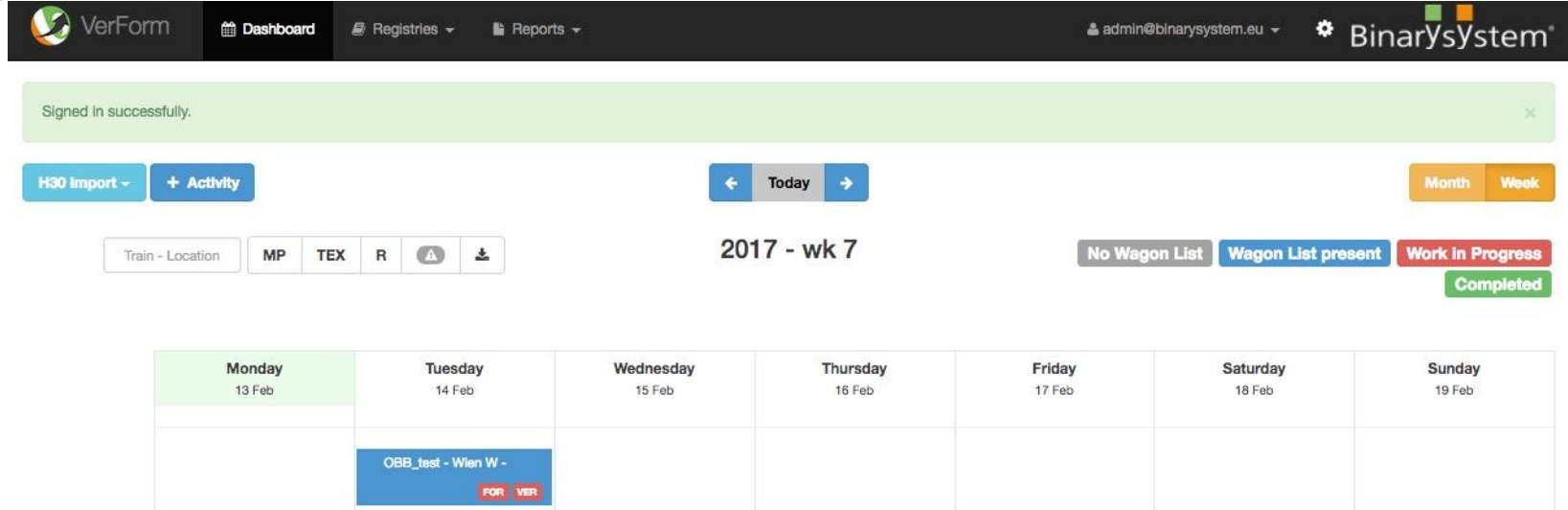
Save

Anomalia

+



VerForm: Global Scenario

Signed in successfully.

VerForm Dashboard Registries Reports admin@binarysystem.eu BinarYsSystem®

H30 Import + Activity Today Month Week


Train - Location MP TEX R 2017 - wk 7 No Wagon List Wagon List present Work in Progress Completed

Monday 13 Feb	Tuesday 14 Feb	Wednesday 15 Feb	Thursday 16 Feb	Friday 17 Feb	Saturday 18 Feb	Sunday 19 Feb
	OBB_test - Wien W - FOR VER					

- All activities managed thanks to an intuitive calendar interface
- Complete overview on the workflow and activities status (completed and/or scheduled).

VerForm: Registry of Wagons



 VerForm
 [Dashboard](#)
[Registries](#)

[Activity](#) / [Train 43118 Of 2014-12-10 \(BORGHETTO SULL'ADIGE\)](#) / [Pack](#)

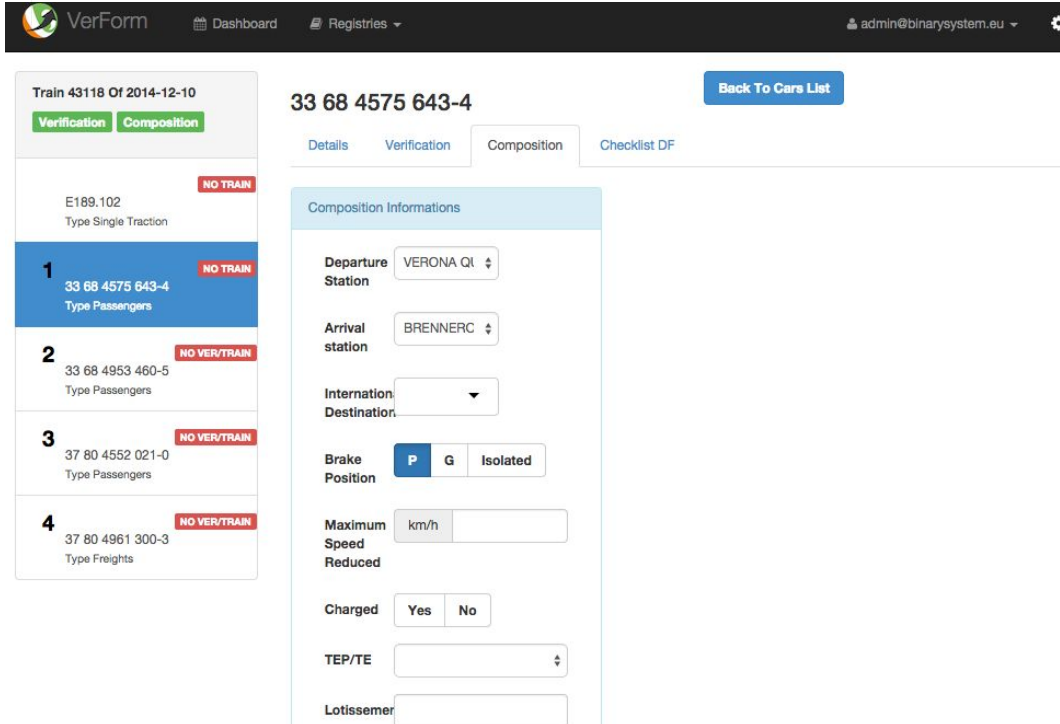
Train 43118 Of 2014-12-10

37

<div>+</div> <div>37 80 4961 258-3</div> <div>Type Freights</div> <div>Revision Valid: Yes</div>	<div>+</div> <div>37 80 4960 118-0</div> <div>Type Freights</div> <div>Revision Valid: No</div>	<div>+</div> <div>37 80 4961 299-7</div> <div>Type Freights</div> <div>Revision Valid: No</div>
<div>+</div> <div>37 80 4552 018-6</div> <div>Type Freights</div> <div>Revision Valid: Yes</div>	<div>+</div> <div>37 80 4961 070-2</div> <div>Type Freights</div> <div>Revision Valid: No</div>	<div>+</div> <div>33 68 4908 103-7</div> <div>Type Freights</div> <div>Revision Valid: No</div>
<div>+</div> <div>37 80 4961 301-1</div> <div>Type Freights</div> <div>Revision Valid: No</div>	<div>+</div> <div>37 80 4961 256-7</div> <div>Type Freights</div> <div>Revision Valid: No</div>	<div>+</div> <div>37 80 4961 073-6</div> <div>Type Freights</div> <div>Revision Valid: No</div>
<div>+</div> <div>37 80 4960 111-5</div> <div>Type Freights</div> <div>Revision Valid: No</div>	<div>+</div> <div>37 80 4960 116-4</div> <div>Type Freights</div> <div>Revision Valid: No</div>	<div>+</div> <div>37 80 4961 257-5</div> <div>Type Passengers</div> <div>Revision Valid: No</div>

- Detailed registry of available wagons and locomotives.
- Master Data contains every information for train formation and verification.

VerForm: Train's composition

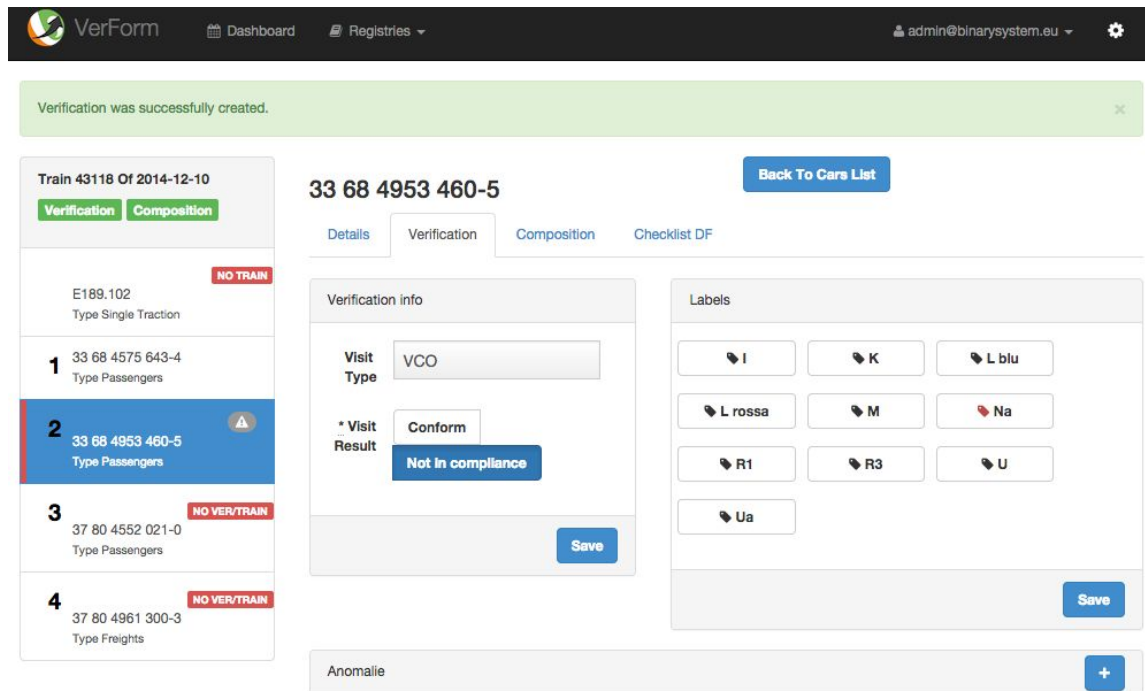


The screenshot shows the VerForm web application interface. The top navigation bar includes the VerForm logo, a 'Dashboard' link, a 'Registries' dropdown, and a user profile for 'admin@binarysystem.eu'. The main content area is titled 'Train 43118 Of 2014-12-10' and features a 'Back To Cars List' button. Below the title, there are tabs for 'Details', 'Verification', 'Composition', and 'Checklist DF'. The 'Composition' tab is active, showing 'Composition Informations'. The form includes fields for 'Departure Station' (VERONA QI), 'Arrival station' (BRENNERC), 'Internation Destination' (a dropdown menu), 'Brake Position' (P, G, Isolated), 'Maximum Speed Reduced' (km/h), 'Charged' (Yes, No), 'TEP/TE' (a dropdown menu), and 'Lotissement' (a text input field). On the left side, there is a list of train components with their types and status indicators (e.g., 'NO TRAIN', 'NO VER/TRAIN').

- Self-completion box to facilitate the management of wagon codes already present in the system.
- Possibility to select, drag and order wagons and locomotives for simplifies the train set-up.

VerForm: Management of labels and anomalies

- Complete monitoring of wagons;
- Labels or indications of spotted anomalies can be easily added through reference codes as reported in GCU – IX attachment.



The screenshot shows the VerForm web application interface. At the top, there is a navigation bar with the VerForm logo, a 'Dashboard' link, a 'Registries' dropdown, and a user profile 'admin@binarysystem.eu' with a settings gear icon. Below the navigation bar, a green message bar states 'Verification was successfully created.'.

The main content area is divided into two columns. The left column displays a list of train entries for 'Train 43118 Of 2014-12-10'. The entries are numbered 1 to 4. Entry 1 is '33 68 4575 643-4 Type Passengers'. Entry 2 is '33 68 4953 460-5 Type Passengers' and is highlighted with a blue background and a warning icon. Entry 3 is '37 80 4552 021-0 Type Passengers' with a 'NO VER/TRAIN' status. Entry 4 is '37 80 4961 300-3 Type Freight' with a 'NO VER/TRAIN' status.

The right column shows the details for the selected entry '33 68 4953 460-5'. It has tabs for 'Details', 'Verification', 'Composition', and 'Checklist DF'. The 'Verification' tab is active, showing a 'Verification info' section with a 'Visit Type' of 'VCO' and a '* Visit Result' of 'Conform' (with a 'Not in compliance' button). There is a 'Save' button at the bottom of this section. To the right of the 'Verification info' is a 'Labels' section with a grid of buttons: 'I', 'K', 'L blu', 'L rossa', 'M', 'Na', 'R1', 'R3', 'U', and 'Ua'. A 'Save' button is at the bottom of the labels section.

At the bottom of the right column, there is an 'Anomalie' section with a '+' button to add new anomalies.

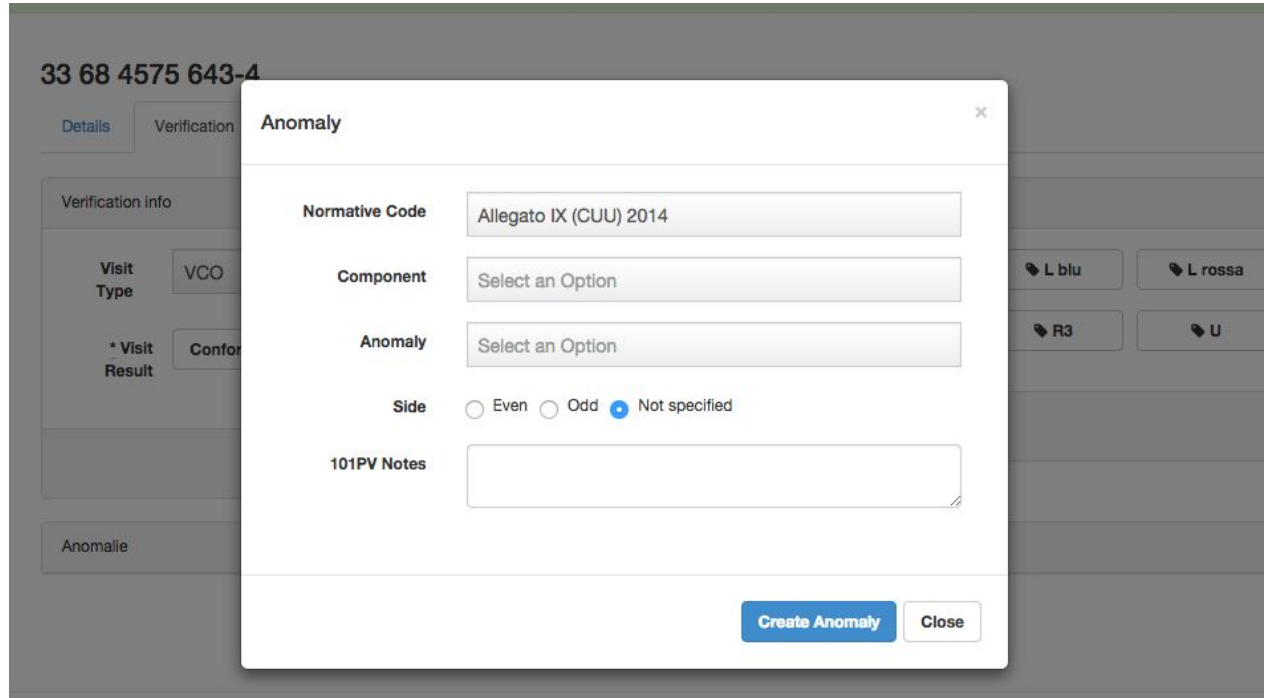


VerForm: Anomalies input detail

How to enter the details of the fault as follows:

Code applicable legislation (Annex XVI or Annex IX);

- Choice of the component;
- Choice of the anomaly;
- Side of the wagon where the abnormality was found;
- Any notes to be written in the model 101PV.



VerForm: Freight management

Collection of all information related to transported goods, included dangerous goods as required by RID.

Freight

* Freight Type

UTI Code

Tare		Net Total Weight	
kg	0.000	t	0.000

Tank Code

Freights

* Weight


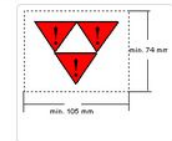
☒ DF ☐ Empty DF

Dangerous Code

ONU

Dangerous Freight

Remember to fill out the checklist for this freight

Freights

Tank container

Total: 4.000 t

UTI Code:

Cassa mobile cisterna

Total: 7.000 t

UTI Code:

Tank container

Total: 0.000 t

UTI Code:

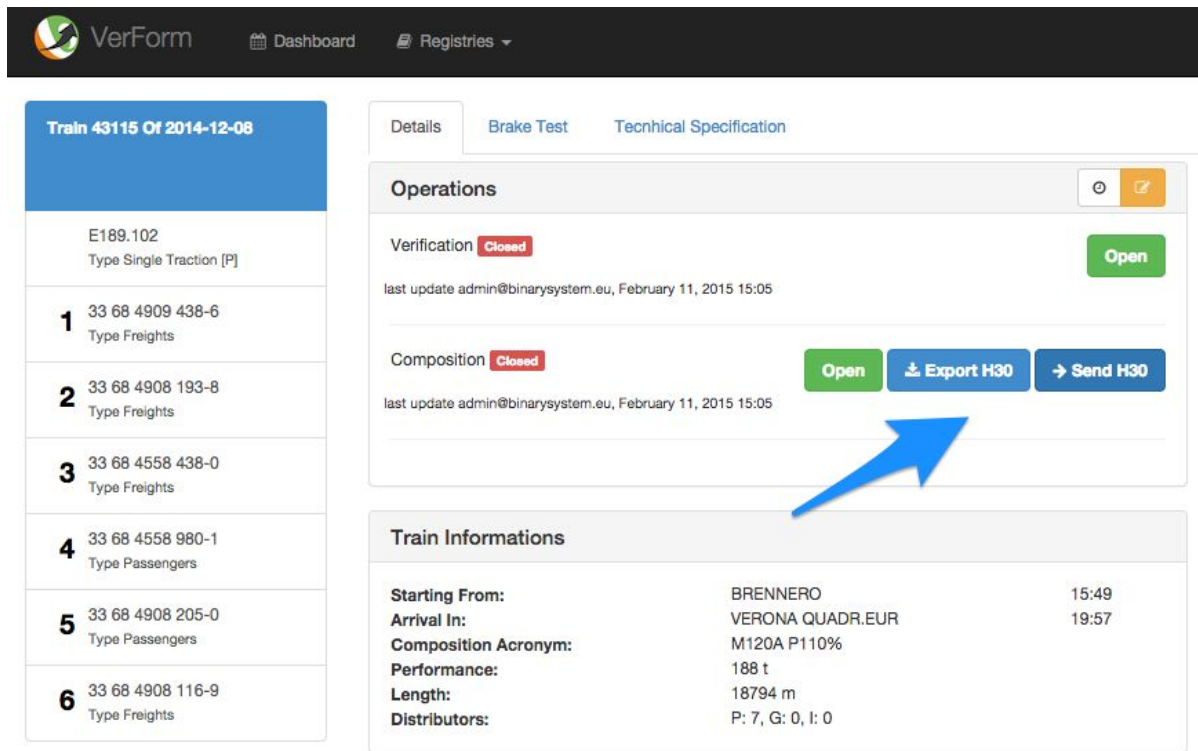
Missing Tank Code

Total Mass: 0.000 (t)

☒ DF

Checklist Not Completed

VerForm: H30/Hermes Interface



The screenshot shows the VerForm interface. On the left, a sidebar lists train compositions for 'Train 43115 Of 2014-12-08'. The main area has tabs for 'Details', 'Brake Test', and 'Technical Specification'. The 'Details' tab is active, showing 'Operations' and 'Train Informations' sections. A blue arrow points to the 'Export H30' button in the 'Operations' section.

Train 43115 Of 2014-12-08

	Train ID	Type
	E189.102	Type Single Traction [P]
1	33 68 4909 438-6	Type Freights
2	33 68 4908 193-8	Type Freights
3	33 68 4558 438-0	Type Freights
4	33 68 4558 980-1	Type Passengers
5	33 68 4908 205-0	Type Passengers
6	33 68 4908 116-9	Type Freights

Operations

Verification **Closed** [Open](#)

last update admin@binarysystem.eu, February 11, 2015 15:05

Composition **Closed** [Open](#) [Export H30](#) [Send H30](#)

last update admin@binarysystem.eu, February 11, 2015 15:05

Train Informations

Starting From:	BRENNERO	15:49
Arrival In:	VERONA QUADR.EUR	19:57
Composition Acronym:	M120A P110%	
Performance:	188 t	
Length:	18794 m	
Distributors:	P: 7, G: 0, I: 0	

Import and export the train composition with Hermes H30 format between railway undertakings partners.

VerForm: Documents management

- Composition and/or verification underway → PDF prints with background word DRAFT.
- Composition and/or verification completed → without DRAFT word

DATA VERIFICA: 10/02/2015 ORA VERIFICA: 15:21		SIGLA VISITA: VCO <input checked="" type="checkbox"/> VCF <input type="checkbox"/> VCT <input type="checkbox"/> VRC <input type="checkbox"/> PR <input type="checkbox"/>		VISITA ESEGUITA IN: BORGHETTO SULL'ADIGE		TRENO N°: DEL: 2014-12-10	
--	--	--	--	--	--	------------------------------	--

VEICOLO			REVISIONE		ESITO VISITA		
	IF	NUMERO SERVIZIO COMPLETO	DATA	OFFICINA	CONTROLLO	NON CONFORMITÀ / ETICHETTA APPLICATA	
1		33 68 4575 643-4			Regolare SI <input checked="" type="checkbox"/> NO <input type="checkbox"/>		FIRMA
2		33 68 4953 460-5			Regolare SI <input type="checkbox"/> NO <input checked="" type="checkbox"/>	IX 1.6.2 , K	
3		37 80 4552 021-0	01/11/2013	pio	Regolare SI <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
4		37 80 4961 300-3	03/02/2015		Regolare SI <input type="checkbox"/> NO <input checked="" type="checkbox"/>	IX 2.5.4.2 , Na	
5							TIMBRO
6							
7							
8							
9							
10							
11							
12							
13							IL VERIFICATORE pat. N° Pat VER
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

(Rev: 1)
inRail S.p.a.

Foglio 1 di 1

INRAIL_MOD_VRF_V100_Rev 2.0



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.

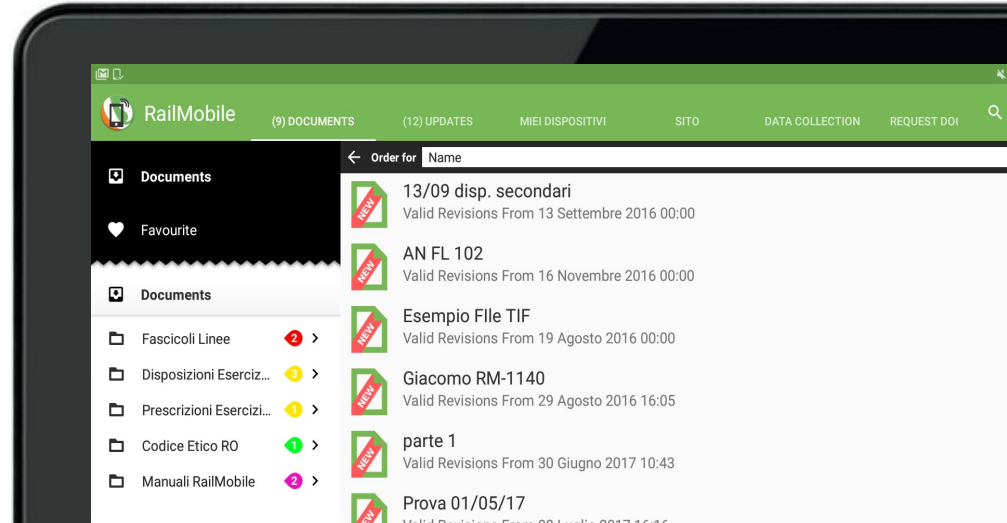


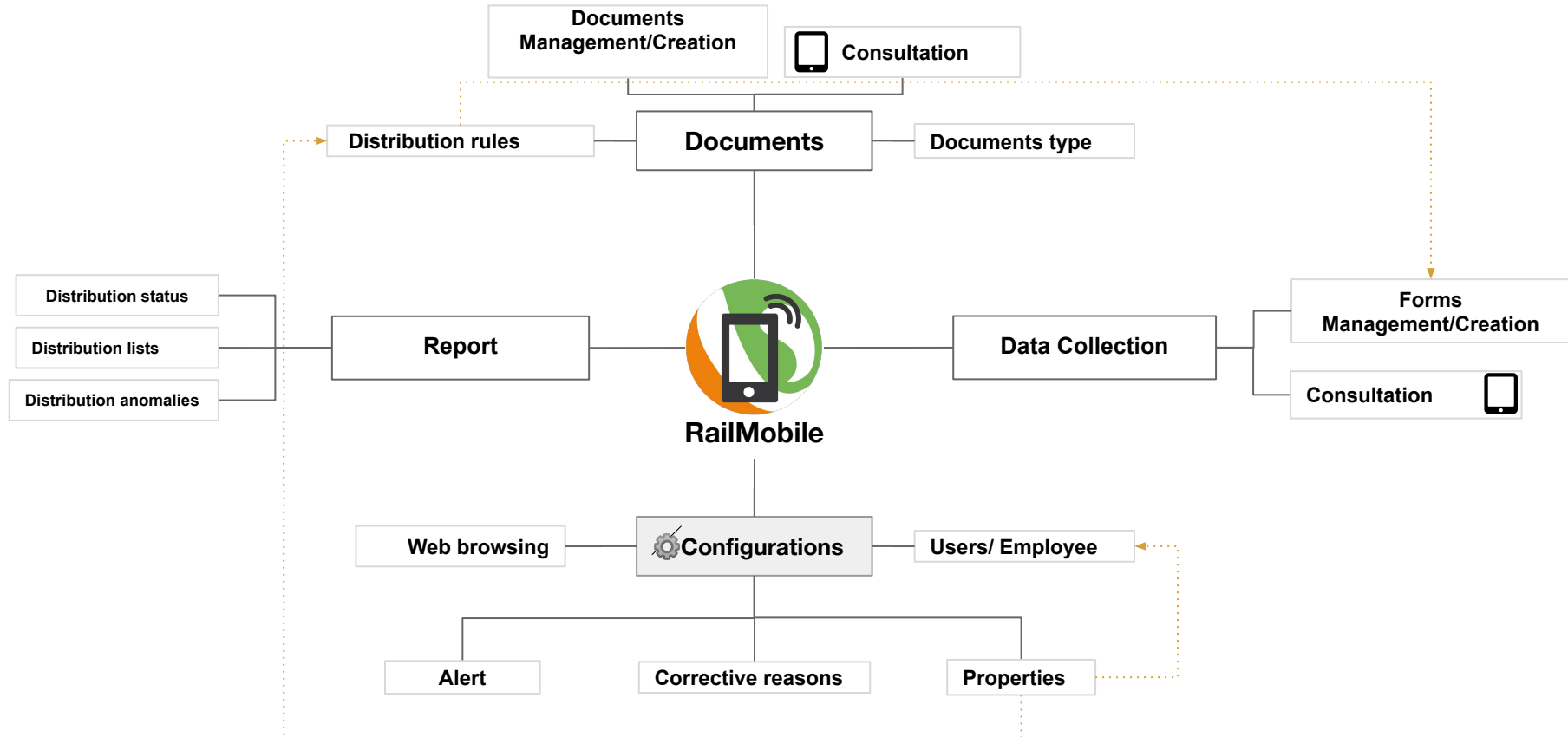
RailMobile collects, organizes and distributes all documents to the operational personnel, constantly monitoring the distribution process to the employees according to their skills and to the files' contents.



RailMobile is suitable for the following platforms and devices:

- iOS Devices (iPad) and smartphones (iphone)
- Android Smartphones and Tablets
- Windows, Mac OS X, and Linux operative systems



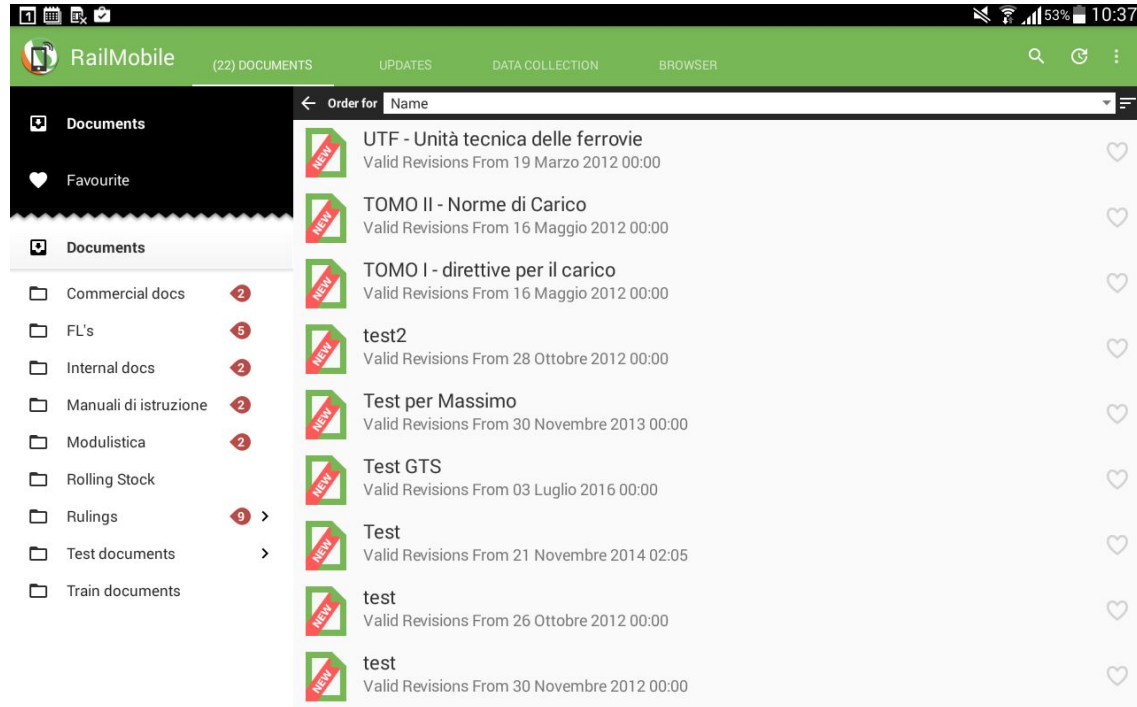




RailMobile: Documents



- Documents always available on the device, divided into categories and selectable as **preferred** by pressing the grey star on the right of each documents;
- Simple and clear interface;
- It's possible to search every document with the **search icon** on the top right;
- Documents to be accepted are labeled with the word **"NEW"**.



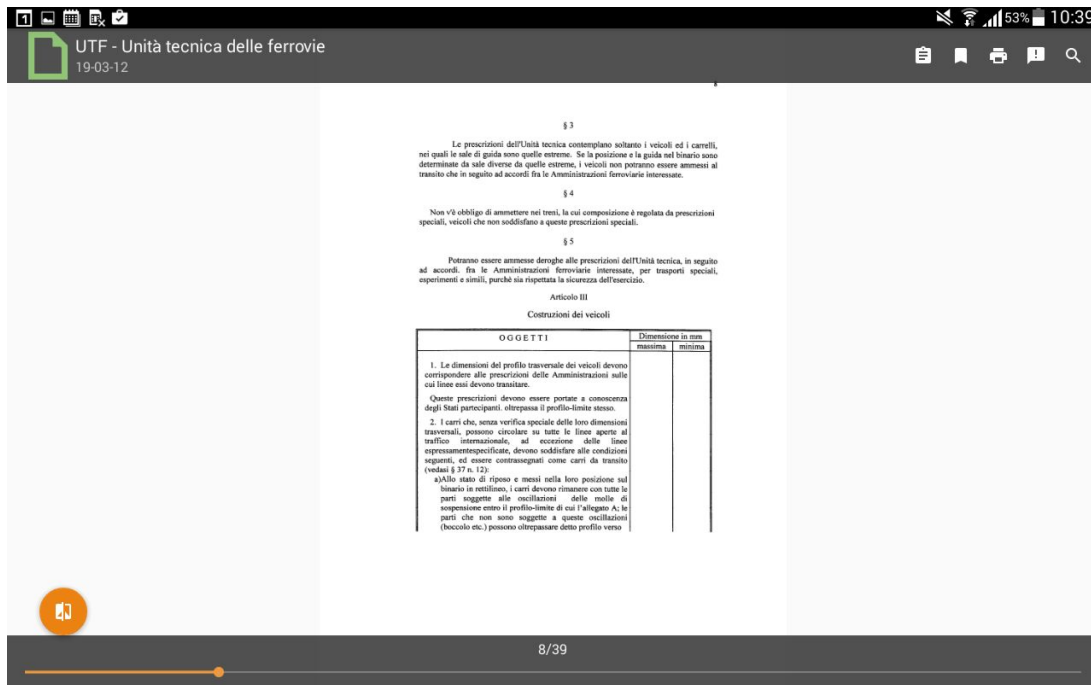


RailMobile: Document Navigation



In the Document navigation there are many options and actions that can be used:

- Paragraphs Visualisation;
- Bookmarks Creation;
- Search in Document;
- Comparison Documents.



The screenshot displays the RailMobile application interface. At the top, a dark header bar shows the document title 'UTF - Unità tecnica delle ferrovie' and the date '19-03-12'. Below this, the document content is visible, featuring sections § 3, § 4, and § 5, each with descriptive text. A table titled 'OGGETTI' is also present, detailing technical specifications for vehicle dimensions. The interface includes a bottom navigation bar with a circular icon and a progress indicator at the bottom center showing '8/39'.

UTF - Unità tecnica delle ferrovie
19-03-12

§ 3
Le prescrizioni dell'Unità tecnica contemplano soltanto i veicoli ed i carrelli, nei quali le sale di guida sono quelle estreme. Se la posizione e la guida nel binario sono determinate da sale diverse da quelle estreme, i veicoli non potranno essere ammessi al transito che in seguito ad accordi fra le Amministrazioni ferroviarie interessate.

§ 4
Non v'è obbligo di ammettere nei treni, la cui composizione è regolata da prescrizioni speciali, veicoli che non soddisfano a queste prescrizioni speciali.

§ 5
Potranno essere ammesse deroghe alle prescrizioni dell'Unità tecnica, in seguito ad accordi fra le Amministrazioni ferroviarie interessate, per trasporti speciali, esperimenti e simili, purché sia rispettata la sicurezza dell'esercizio.

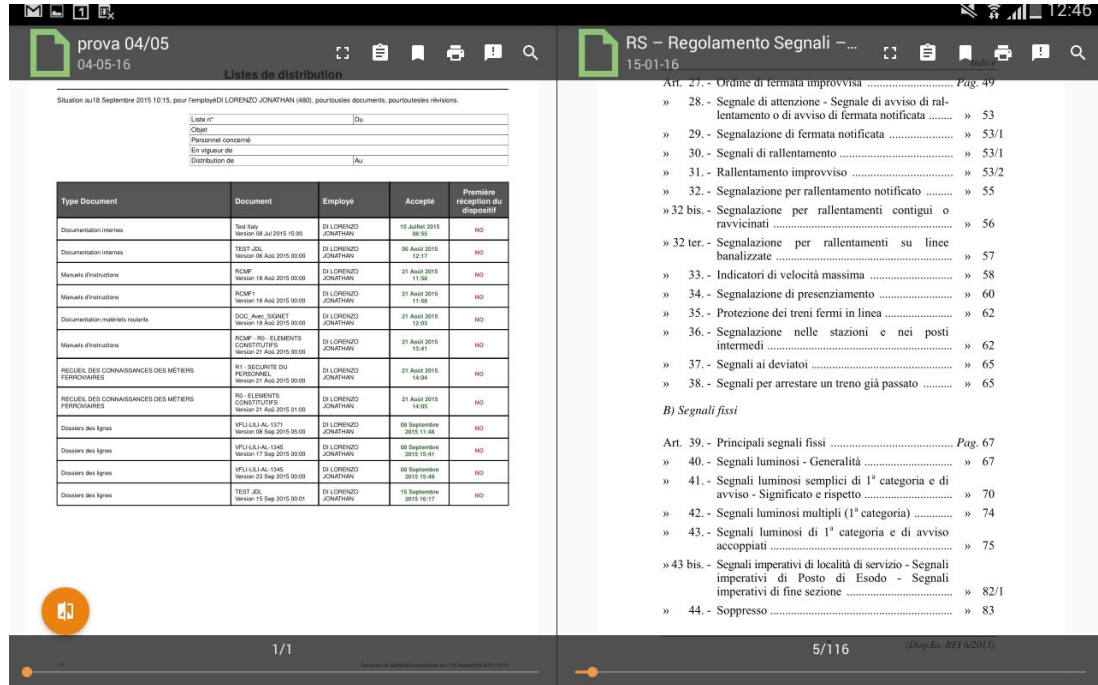
Articolo III
Costruzioni dei veicoli

OGGETTI	Dimensione in mm	
	massima	minima
1. Le dimensioni del profilo trasversale dei veicoli devono corrispondere alle prescrizioni delle Amministrazioni sulle cui linee essi devono transitare. Queste prescrizioni devono essere portate a conoscenza degli Stati partecipanti, oltrepassa il profilo-limite stesso.		
2. I carri che, senza verifica speciale delle loro dimensioni trasversali, possono circolare su tutte le linee aperte al traffico internazionale, ad eccezione delle linee espressamente specificate, devono soddisfare alle condizioni seguenti, ed essere contrassegnati come carri da transito (vedasi § 37 n. 12): a) Allo stato di riposo e messi nella loro posizione nel binario in rettilineo, i carri devono rimanere con tutte le parti soggette alle oscillazioni delle molle di sospensione entro il profilo-limite di cui l'allegato A, le parti che non sono soggette a queste oscillazioni (beccolo etc.) possono oltrepassare detto profilo verso		

8/39

RailMobile: Document Comparison

Once the document comparison has been setted, it's possible to see at the same time two documents or even two revisions of the same document.



The screenshot displays the RailMobile application interface, showing a side-by-side comparison of two documents. The left document is titled 'prova 04/05 04-05-16' and the right document is titled 'RS - Regolamento Segnali'.

Left Document: prova 04/05 04-05-16

Titre: 04/05
04-05-16
Liste de distribution

Situation au 19 Septembre 2015 10:15, pour l'employé LORENZO JONATHAN (480), pour toutes documents, pour toutes révisions.

Type Document	Document	Employé	Accepté	Première réception du dispositif
Documentation interne	Test JOL Version 08 Aug 2015 00:00	DI LORENZO JONATHAN	10 Juillet 2015 00:00	NO
Documentation interne	TEST JOL Version 08 Aug 2015 00:00	DI LORENZO JONATHAN	08 Août 2015 00:00	NO
Manuels d'instructions	RCMP Version 18 Aug 2015 00:00	DI LORENZO JONATHAN	21 Août 2015 00:00	NO
Manuels d'instructions	RCMP Version 18 Aug 2015 00:00	DI LORENZO JONATHAN	21 Août 2015 00:00	NO
Documentation matériels roulants	DOC Avec SAGNET Version 18 Aug 2015 00:00	DI LORENZO JONATHAN	21 Août 2015 00:00	NO
Manuels d'instructions	RCMP - R0 - ELEMENTS CONSTITUTIFS Version 27 Aug 2015 00:00	DI LORENZO JONATHAN	27 Août 2015 00:00	NO
RECUEIL DES CONNAISSANCES DES METIERS PERFORAIRES	R1 - SECURITE DU PERSONNEL Version 27 Aug 2015 00:00	DI LORENZO JONATHAN	27 Août 2015 00:00	NO
RECUEIL DES CONNAISSANCES DES METIERS PERFORAIRES	R0 - ELEMENTS CONSTITUTIFS Version 27 Aug 2015 00:00	DI LORENZO JONATHAN	27 Août 2015 00:00	NO
Cloisiers des lignes	VPULLAL-1371 Version 08 Sep 2015 00:00	DI LORENZO JONATHAN	08 Septembre 2015 00:00	NO
Cloisiers des lignes	VPULLAL-1345 Version 17 Sep 2015 00:00	DI LORENZO JONATHAN	08 Septembre 2015 00:00	NO
Cloisiers des lignes	VPULLAL-1345 Version 23 Sep 2015 00:00	DI LORENZO JONATHAN	08 Septembre 2015 00:00	NO
Cloisiers des lignes	TEST JOL Version 15 Sep 2015 00:00	DI LORENZO JONATHAN	15 Septembre 2015 00:00	NO

Right Document: RS - Regolamento Segnali

Art. 27.- Orname ai fermata improvvisa Pag. 49

» 28. - Segnale di attenzione - Segnale di avviso di rallentamento o di avviso di fermata notificata » 53

» 29. - Segnalazione di fermata notificata » 53/1

» 30. - Segnali di rallentamento » 53/1

» 31. - Rallentamento improvviso » 53/2

» 32. - Segnalazione per rallentamento notificato » 55

» 32 bis. - Segnalazione per rallentamenti contigui o ravvicinati » 56

» 32 ter. - Segnalazione per rallentamenti su linee banalizzate » 57

» 33. - Indicatori di velocità massima » 58

» 34. - Segnalazione di presenziamento » 60

» 35. - Protezione dei treni fermi in linea » 62

» 36. - Segnalazione nelle stazioni e nei posti intermedi » 62

» 37. - Segnali ai deviatori » 65

» 38. - Segnali per arrestare un treno già passato » 65

B) Segnali fissi

Art. 39. - Principali segnali fissi Pag. 67

» 40. - Segnali luminosi - Generalità » 67

» 41. - Segnali luminosi semplici di 1ª categoria e di avviso - Significato e rispetto » 70

» 42. - Segnali luminosi multipli (1ª categoria) » 74

» 43. - Segnali luminosi di 1ª categoria e di avviso accoppiati » 75

» 43 bis. - Segnali imperativi di località di servizio - Segnali imperativi di Posto di Esodo - Segnali imperativi di fine sezione » 82/1

» 44. - Soppresso » 83



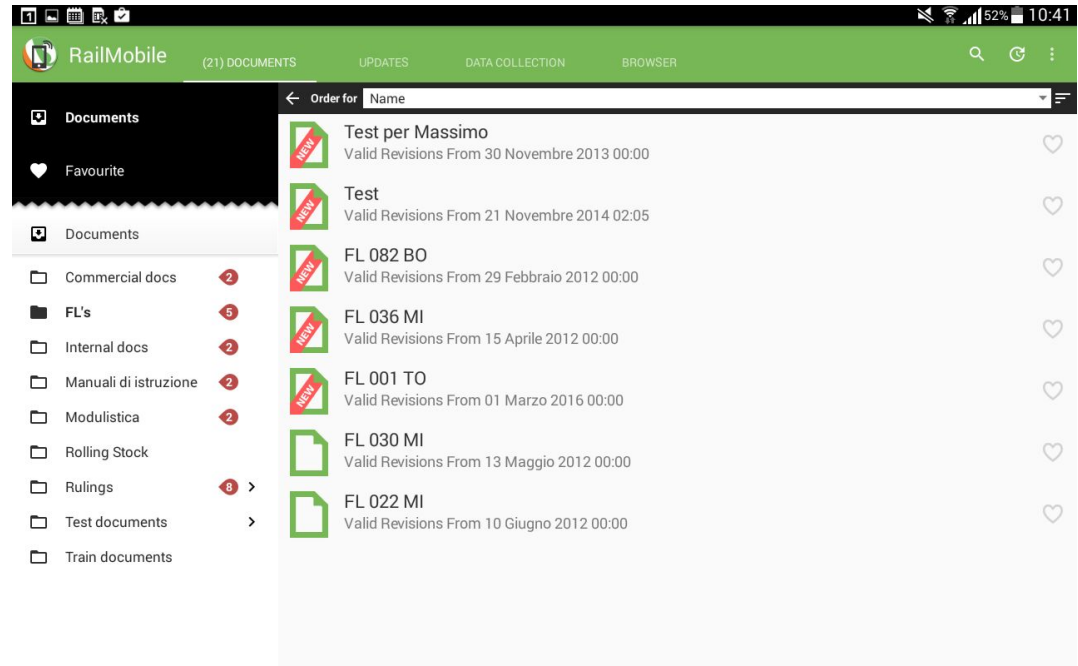
RailMobile: Document Update



Documents are real-time updated.

When one or more document revision are created and sent to the employee the app will inform the user through a **notification**.

The user can choose if **download** all the new revision or just select which one he want.





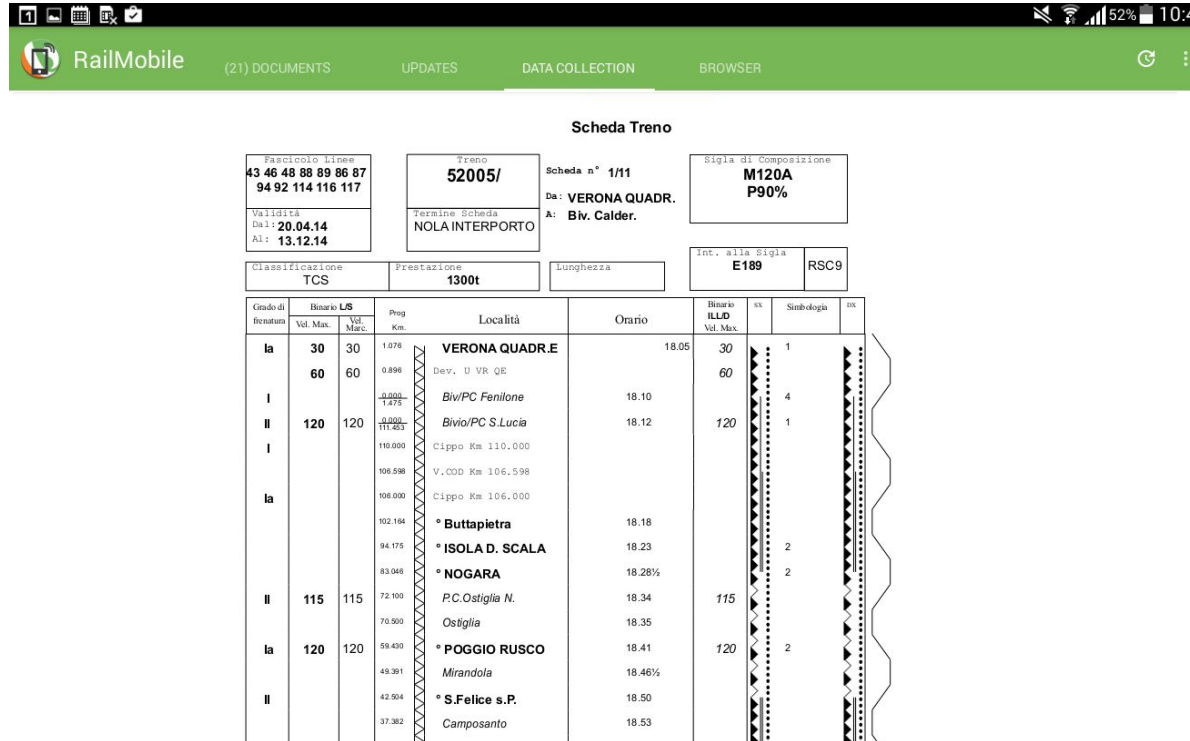
Railmobile: Train Documents from Infrastructure



The integration with the railway network manager systems has the scope of supplying the information in details about the train movements.

Thanks to this form it's possible to:

- consulting the data of the train
- verifying the trains movement
- verifying the speed and the performances.



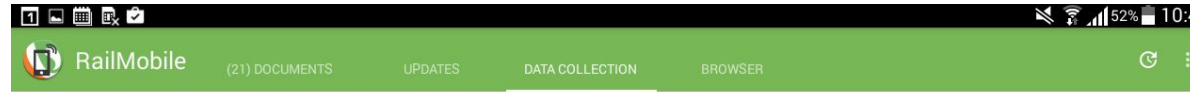
Scheda Treno

Fascicolo Linee 43 46 48 88 89 86 87 94 92 114 116 117	Treno 52005/	Scheda n° 1/11 Da: VERONA QUADR. A: Bw. Calder.	Segna di Composizione M120A P90%
Validità Da: 20.04.14 Al: 13.12.14	Termine Scheda NOLA INTERPORTO		
Classificazione TCS	Prestazione 1300t	Lunghezza	Int. alla Segna E189
			RSC9

Grado di Benetum	Binario Vol. Max.	Vol. Marc.	Prog. Km.	Località	Orario	Binario ILLUD Vol. Max.	SS	Simbologia	SS
Ia	30	30	1.076	VERONA QUADR.E	18.05	30		1	
I	60	60	0.896	Dev. U VR QE		60			
			0.899	Bivio/PC Fenilone	18.10			4	
II	120	120	1.276	Bivio/PC S.Lucia	18.12	120		1	
I			10.000	Cippo Km 110.000					
			106.598	V.COD Km 106.598					
Ia			106.000	Cippo Km 106.000					
			102.164	* Buttapietra	18.18				
			94.175	* ISOLA D. SCALA	18.23			2	
			83.046	* NOGARA	18.28%			2	
II	115	115	72.100	P.C.Ostiglia N.	18.34	115			
			70.900	Ostiglia	18.35				
Ia	120	120	59.430	* POGGIO RUSCO	18.41	120		2	
			49.361	Mirandola	18.46%				
II			42.904	* S.Felice s.P.	18.50				
			37.362	Camposanto	18.53				



Railmobile: Data Collection



Available Modules

Fault Monitoring Board	>
Machinist Service Module	>
Train Manager Service Module	>

template list, cached: 2014-05-08 10:20:01 +0200

Production of several **custom forms** compilable by employees.

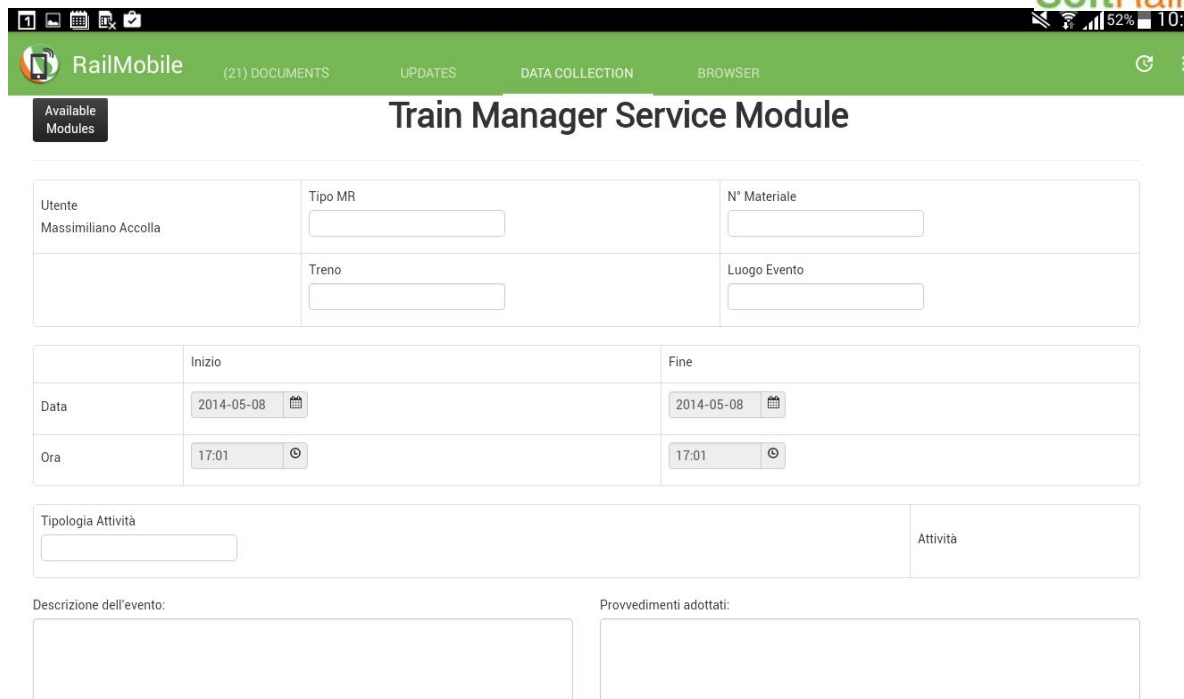
When the employee send the completed form, the latter is save on RailMobile and it is always possible to **export** the data in order to manage the result.



RailMobile: Data Collection - Compilation



The forms are modular with a wide typology of buttons, folders, texts boxes, options and media files selector.



The screenshot shows the RailMobile application interface on a mobile device. The top status bar displays various icons and the time 10:42. The app's header is green with the title 'RailMobile' and navigation tabs: '(21) DOCUMENTS', 'UPDATES', 'DATA COLLECTION', and 'BROWSER'. Below the header, a dark button labeled 'Available Modules' is visible. The main title 'Train Manager Service Module' is centered. The form is divided into several sections:

- User Information:** A row with 'Utente' (Massimiliano Accolla), 'Tipo MR' (empty text box), and 'N° Materiale' (empty text box).
- Event Location:** A row with 'Treno' (empty text box) and 'Luogo Evento' (empty text box).
- Time and Date:** A section with 'Inizio' and 'Fine' columns. Each column has 'Data' (2014-05-08 with a calendar icon) and 'Ora' (17:01 with a clock icon).
- Activity Details:** A row with 'Tipologia Attività' (empty text box) and 'Attività' (empty text box).
- Description and Actions:** Two large text areas at the bottom labeled 'Descrizione dell'evento:' and 'Provvedimenti adottati:'.



RailMobile: User And Device Profile



Information display concerning user and device:

- App Version;
- Download Limit With GSM;
- Account (User);
- Employee Code.



The screenshot shows the RailMobile app interface. On the left is a sidebar menu with the following items: Agenda tutor, Anomalia chiusura cassa, GDB, HS, Ispezione qualità, Modulo 6A, Modulo di servizio capotreno, Modulo quasi infortunio, NEW quasi infortunio, and Prova Binary su Binary. The main content area on the right displays the user and device profile information:

Version	RailMobile 2.1.1 (815)
RailMobile Server	https://binarysystem-railmobile.binarysystem.eu
Download Limit with GSM	102400 Mb
Data collection	Yes
Browser	Yes
Browser Filter	blacklist
Login check after	0h
Account	flavio.golisano@binarysystem.eu
Name and Surname	Golisano Flavio
Employee code	0197
UUID	d98cf1755bba79f4

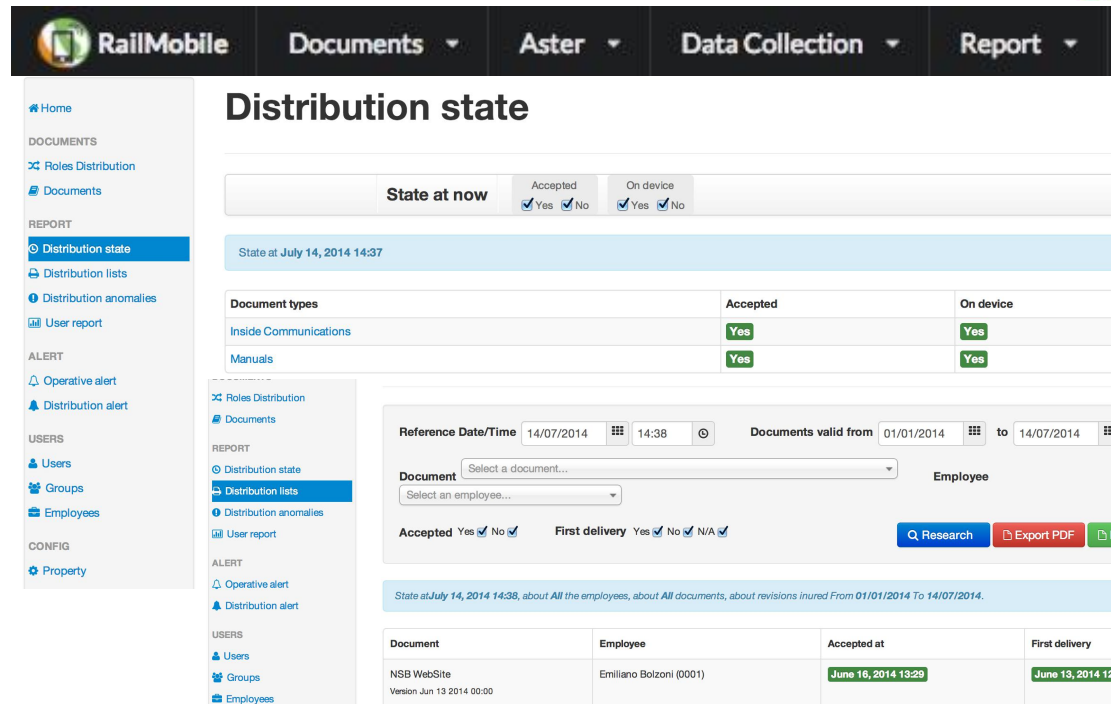


RailMobile: Reports



In the back end there are list of report useful for monitoring document distribution:

- Distribution state
- Distribution list
- Distribution anomalies
- User Report



RailMobile Documents Aster Data Collection Report

Distribution state

State at now Accepted On device
☒ Yes ☒ No ☒ Yes ☒ No

State at July 14, 2014 14:37

Document types	Accepted	On device
Inside Communications	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
Manuels	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes

Reference Date/Time 14/07/2014 14:38 Documents valid from 01/01/2014 to 14/07/2014

Document Employee

Accepted Yes ☒ No ☒ First delivery Yes ☒ No ☒ N/A ☒

[Research](#) [Export PDF](#) [Print](#)

State at July 14, 2014 14:38, about All the employees, about All documents, about revisions inured From 01/01/2014 To 14/07/2014.

Document	Employee	Accepted at	First delivery
NSB WebSite Version Jun 13 2014 00:00	Emiliano Bolzoni (0001)	June 16, 2014 13:29	June 13, 2014 12:00




E-learning: Training activities management




Application for the Training activities management for Instructors who permits to:

- Trace data requirement;
- Define an ordered list of **modules** to be carried out;
- Upload .pdf, videos and SCORM contents;
- Evaluate the quality of the course with a satisfaction **questionnaire**
- Set **Email Alerts** and send the Training **Certificate** to the participants;

 RailMobile
 Documents
 Aster
 Data Collection
 Report
 Assisted Training
 admin@binarysystem.eu

Assisted Training > Activity > DDDD > Edit

 **Activity**
Edit

Details Contents Participants

Code

DDDD

Description

sassassasdasdsadasdsadsa

To Be Performed At The Latest

2016-11-23

Reference Instructors

@binarysystem.eu x a@binarysystem.eu x

Num. Modules

2

☒ It Requires Initial Test

☒ It Requires Final test

☒ It Requires Quality Questionnaire

Distribution Rule


Puntuale

Associate Employees

Anna (986501) x Giovanni (0012) x Matteo (0001) x



E-learning: Training activities management

 RailMobile Documents ▾ Aster ▾ Data Collection ▾ Report ▾ Assisted Training ▾ admin@binarysystem.eu ▾ ⚙

Assisted Training > Activity > ESEP1 > Contents > Access test (1) > Question #22

1
2
3

Question #22
Answers

?

What's your name?

+ Add Answer

☒

Mark

☐

Julie

☐

Paul

Save

Cancel

Creation of Initial, Intermediate and Final **Tests** choosing the type of questions and minimum number of correct answers for passing the Test



MainTrack

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

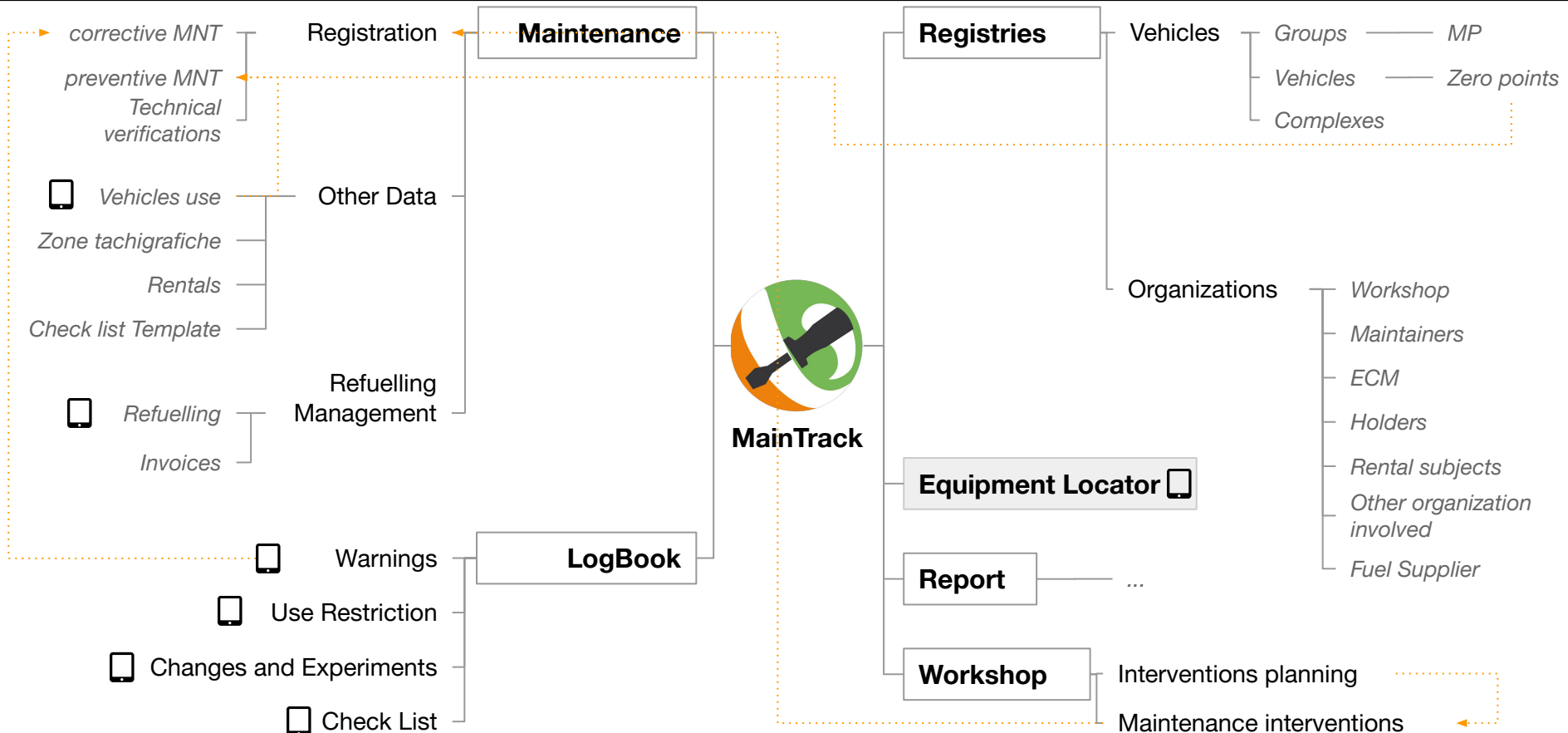




MainTrack is able to handle all the activities maintenance, from the the anomaly electronic reporting to the registration of effecting intervention, from the calculation of maintenance deadlines to their management in terms of planning , even with the "workshops".


From 26/02/2015 To 26/03/2015 *Weeks 4 * E186 X Search Export Show UP/DOWN hours

Locomotive	Km	26/02/2015	27/02/2015	28/02/2015	01/03/2015	02/03/2015	03/03/2015	04/03/2015	05/03/2015	06/03/2015	07/03/2015	08/03/2015	09/03/2015	10/03/2015	11/03/2015	12/03/2015	13/03/2015	14/03/2015	15/03/2015	16/03/2015	17/03/2015	18/03/2015	19/03/2015	20/03/2015	21/03/2015	22/03/2015
E186 - 201	Absolute 80715	808240	808373	808382	808863	809010	809124	809117	809242	809476	809884	804455	809212	809376	808713	807444	808077	808080	809057	809914	809378	801201	802046	802679	802911	
	Daily	0	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79
	Relative	15886	15886	14886	15279	15886	16784	17037	16789	16886	16886	16886	16875	16886	17188	16736	16884	16847	16886	16477	16534	16886	16741	17489	16886	16886
	Imported	580	480	430	375	391	836	584	583	489	430	375	391	836	584	580	489	430	375	391	836	584	580	489	430	
E186 - 202	Absolute 805568	804283	804918	805425	804889	806693	807117	808180	808865	809618	810327	810486	811255	812219	812762	813487	814123	814829	815100	815837	816821	817864	818889	819702	819702	
	Daily	0	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79
	Relative	16886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886	15886
	Imported	375	391	430	375	391	836	584	583	489	430	375	391	836	584	580	489	430	375	391	836	584	580	489	430	
E186 - 203	Absolute 840327	840302	841435	841844	842415	843172	843936	844679	845454	846237	846945	847671	848474	849236	849951	850688	851429	852148	852815	853519	854240	854983	855628	856281	856711	
	Daily	0	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79
	Relative	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886
	Imported	580	489	430	375	391	836	584	583	489	430	375	391	836	584	580	489	430	375	391	836	584	580	489	430	
E186 - 204	Absolute 861779	861764	861937	862046	862175	862326	862498	862681	862874	863076	863286	863496	863706	863916	864126	864336	864546	864756	864966	865176	865386	865596	865806	866016	866226	
	Daily	0	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79
	Relative	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886
	Imported	580	489	430	375	391	836	584	583	489	430	375	391	836	584	580	489	430	375	391	836	584	580	489	430	
E186 - 205	Absolute 857130	857055	856988	856927	856868	856805	856738	856671	856604	856537	856470	856403	856336	856269	856202	856135	856068	856001	855934	855867	855800	855733	855666	855599	855532	
	Daily	0	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79
	Relative	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886
	Imported	580	489	430	375	391	836	584	583	489	430	375	391	836	584	580	489	430	375	391	836	584	580	489	430	
E186 - 206	Absolute 824708	824433	824066	823675	823248	822783	822287	821763	821210	820628	820017	819386	818734	818062	817380	816688	816000	815300	814590	813870	813140	812400	811660	810920	810180	
	Daily	0	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79
	Relative	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886
	Imported	580	489	430	375	391	836	584	583	489	430	375	391	836	584	580	489	430	375	391	836	584	580	489	430	
E186 - 207	Absolute 819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	819006	
	Daily	0	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79
	Relative	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886
	Imported	580	489	430	375	391	836	584	583	489	430	375	391	836	584	580	489	430	375	391	836	584	580	489	430	
E186 - 208	Absolute 847386	848571	849554	849713	849884	849981	850081	850174	850261	850343	850419	850490	850554	850613	850667	850716	850761	850803	850843	850881	850916	850949	850980	850999	851007	
	Daily	0	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79	36	168	128	159	145	144	79
	Relative	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886	16886





MainTrack: Calendar of Maintenance






Main Track



Dashboard


Registries




Maintenance


Vehicle's Book


Workshop


Report

admin@binarysystem.eu

Group together Maintenances

Key



Day



Today



Month

Week

Day

week 5 of 2016

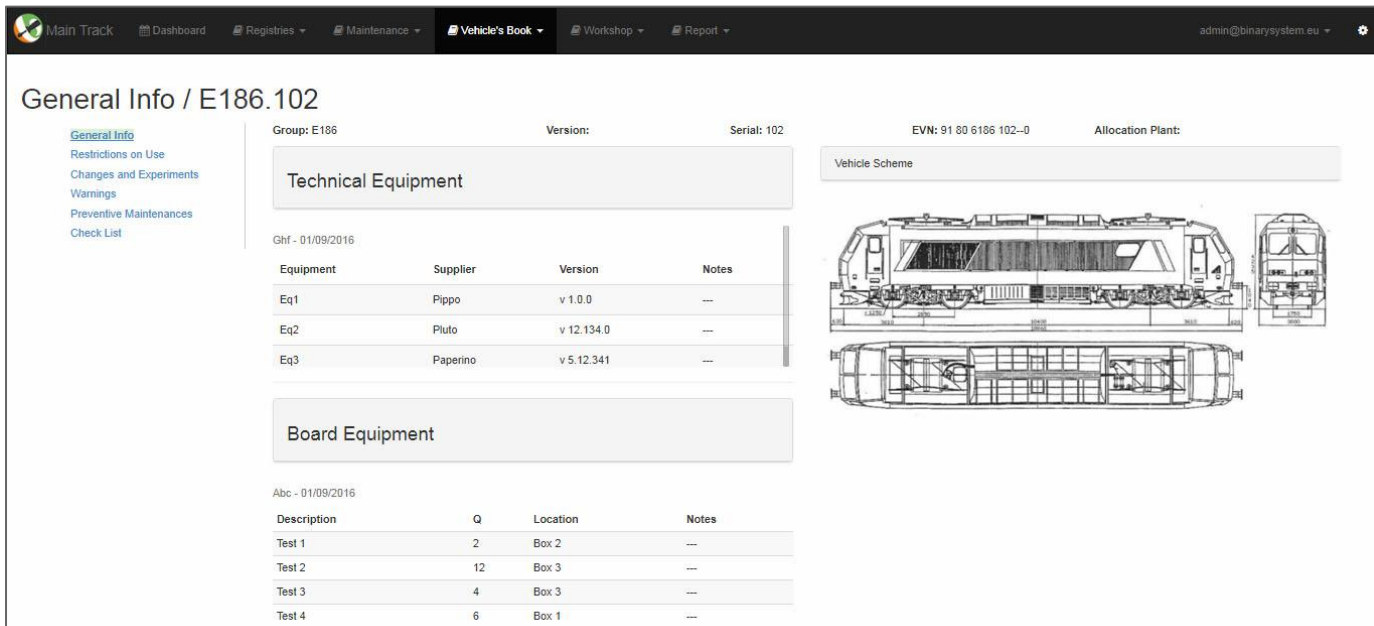
Sunday 31 Jan	Monday 1 Feb	Tuesday 2 Feb	Wednesday 3 Feb	Thursday 4 Feb	Friday 5 Feb	Saturday 6 Feb
		G2000.035 - Level IT1		2016:3 - E483.301		
				G2000.035 - Level IT2		
					G2000.035 - Level SCMT	
						G2000.035 - Level ANTINCEN



MainTrack: Loco's Book



The "book" provides to driver all the required informations and data. Moreover, the driver can record malfunctions and inform ECM real-time.



The screenshot shows the 'MainTrack' application interface. The top navigation bar includes 'Main Track', 'Dashboard', 'Registries', 'Maintenance', 'Vehicle's Book' (selected), 'Workshop', and 'Report'. The user is logged in as 'admin@binarysystem.eu'.

The main content area is titled 'General Info / E186.102'. It features a sidebar with links: 'General Info' (selected), 'Restrictions on Use', 'Changes and Experiments', 'Warnings', 'Preventive Maintenances', and 'Check List'.

The 'General Info' section displays the following data:

- Group: E186
- Version: 1.0.0
- Serial: 102
- EVN: 91 80 6186 102-0
- Allocation Plant:

Below this, there are two sections: 'Technical Equipment' and 'Board Equipment'.

Technical Equipment

Equipment	Supplier	Version	Notes
Eq1	Pipppo	v 1.0.0	---
Eq2	Pluto	v 12.134.0	---
Eq3	Paperino	v 5.12.341	---

Board Equipment


Description	Q	Location	Notes
Test 1	2	Box 2	---
Test 2	12	Box 3	---
Test 3	4	Box 3	---
Test 4	6	Box 1	---

On the right side, there is a 'Vehicle Scheme' section showing a technical drawing of the locomotive from the front and side views.



MainTrack: Malfunction list and status




Main Track
Dashboard
Registries
Maintenance
Vehicle's Book
Workshop
Report
admin@binarysystem.eu

Preventive maintenances

Select Vehicle
Search Vehicle

Seleziona PdM
Seleziona Blocco

☐ Traction unit (line)
☐ Traction unit (shunting)







☐ Wagon
☐ Coach

08/12/1
Acti To
Search

Seleziona Livello

State: ☐ Planned ☐ Pianificata ☐ Confirmed ☐ Done

Waiting for Documents
Not carried out in due time

Vehicle	Activity start	Activity end	Deadlines	Revision	Levels	State	Waiting for Documents	Maintainer	Workshop	Performed in	#
G2000.035	October 28, 2015 08:00	November 02, 2015 18:00	11/04/2015	32W002-3-DBL_I05 [Ed. 05 / 02.2012]	IT IT1;	Done	Yes	TIBERCO	Tiberco OMR		  
D100.105	November 20, 2015 07:00	November 24, 2015 18:00	12/06/2015	37W002-6	Temporali IT1;	Done (Not in due time)	Yes	VOSSLOH	Tiberco OMR	IN-34-2016 Tiberco OMR - VOSSLOH OUT-10-2016	  

Linked to malfunction, the user can record corrective maintenance.



MainTrack: Preventive maintenance deadline status



Report	Temporale				SCMT				Estintori			
Veicolo	Livello	Prossima	%	gg	Livello	Prossima	%	gg	Livello	Prossima	%	gg
E484.017	T3	27/01/2016, 23:59	96.04%	7 giorni	SCMT	04/03/2016, 23:59	75.67%	circa un mese	Estintori	25/05/2016, 23:59	30.62%	4 mesi
E484.020	T3	13/12/2015, 23:59	100%	- circa un mese	SCMT	19/12/2015, 23:59	100%	- circa un mese	Estintori	20/01/2016, 23:59	99.84%	circa 7 ore
E484.013	T3	07/06/2016, 23:59	23.89%	5 mesi	SCMT	07/06/2016, 23:59	23.89%	5 mesi	Estintori	25/05/2016, 23:59	30.62%	4 mesi
E484.019	T3	20/04/2016, 23:59	50.14%	3 mesi	SCMT	20/04/2016, 23:59	50.14%	3 mesi	Estintori	28/02/2016, 23:59	78.65%	circa un mese
E484.018	T3	27/04/2016, 23:59	46.30%	3 mesi	SCMT	27/04/2016, 23:59	46.30%	3 mesi	Estintori	23/02/2016, 23:59	81.37%	circa un mese
E484.014	T3	29/05/2016, 23:59	28.42%	4 mesi	SCMT	06/01/2016, 23:59	100%	- 14 giorni	Estintori	10/02/2016, 23:59	88.43%	21 giorni
E484.012	T3	10/01/2016, 23:59	100%	- 10 giorni	SCMT	10/01/2016, 23:59	100%	- 10 giorni	Estintori	30/10/2016, 23:59	-55.31%	9 mesi
E484.016	T3	25/04/2016, 23:59	47.40%	3 mesi	SCMT	25/04/2016, 23:59	47.40%	3 mesi	Estintori	10/04/2016, 23:59	55.60%	3 mesi



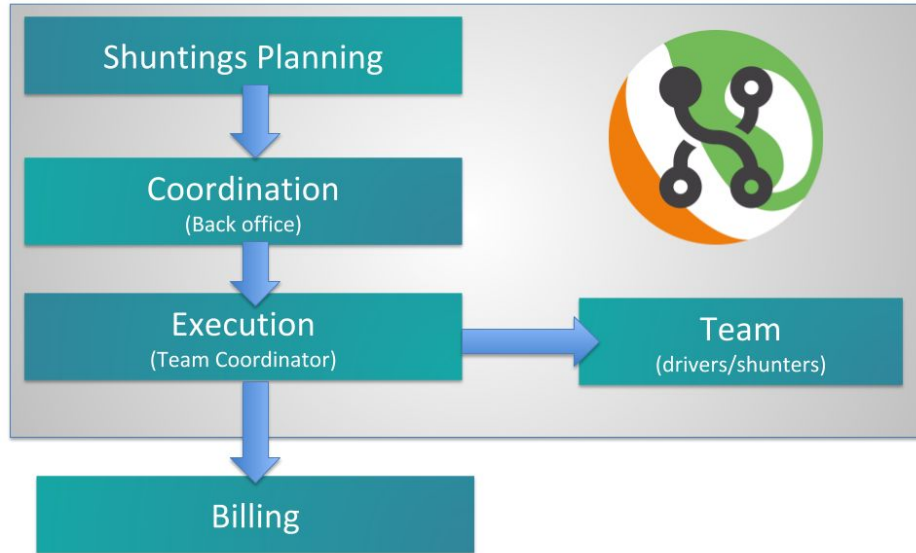
TrainShunt



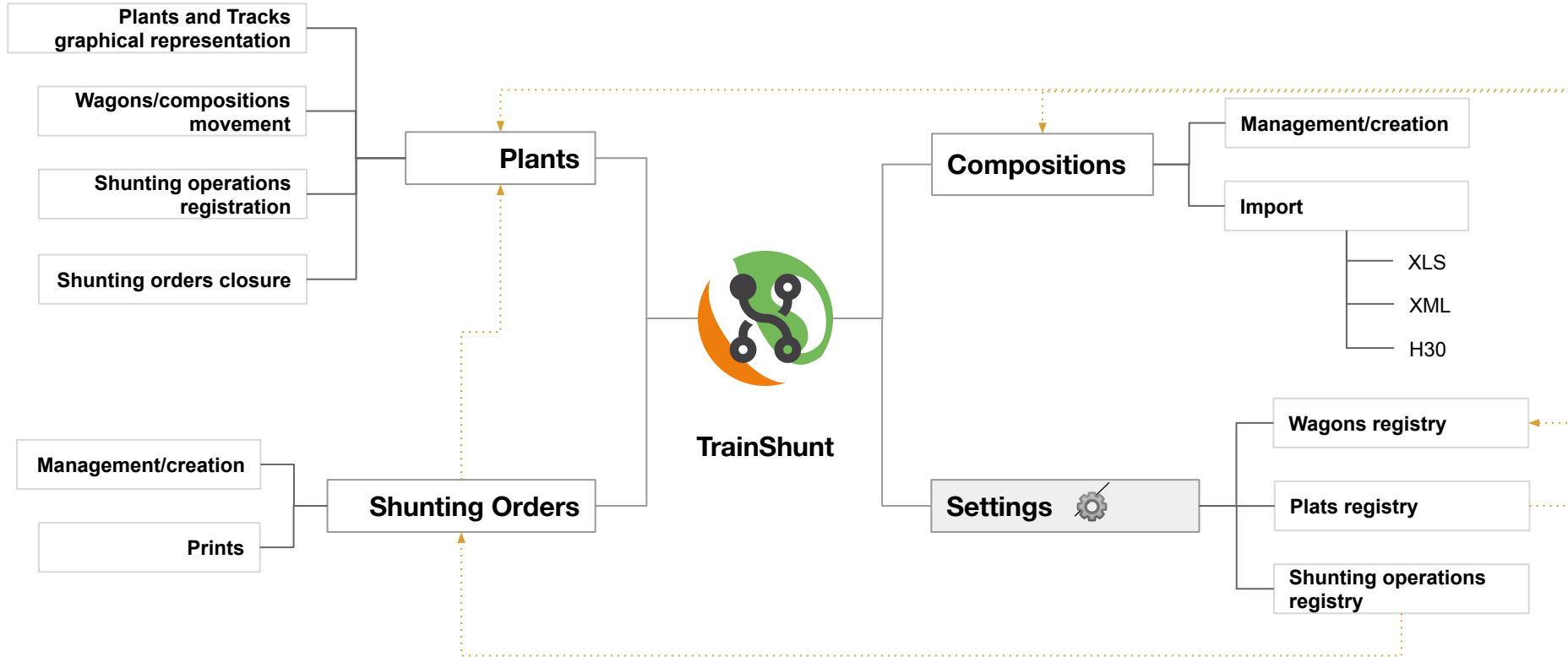
TrainShunt allows to manage railway shunting operations in a simple and controlled way, with a graphical display of the service location's tracks and the possibility to exchange information with external systems.



TrainShunt allows to manage railway shunting operations in a simple and controlled way, with a graphical display of the service location's tracks and the possibility to exchange information with external systems.

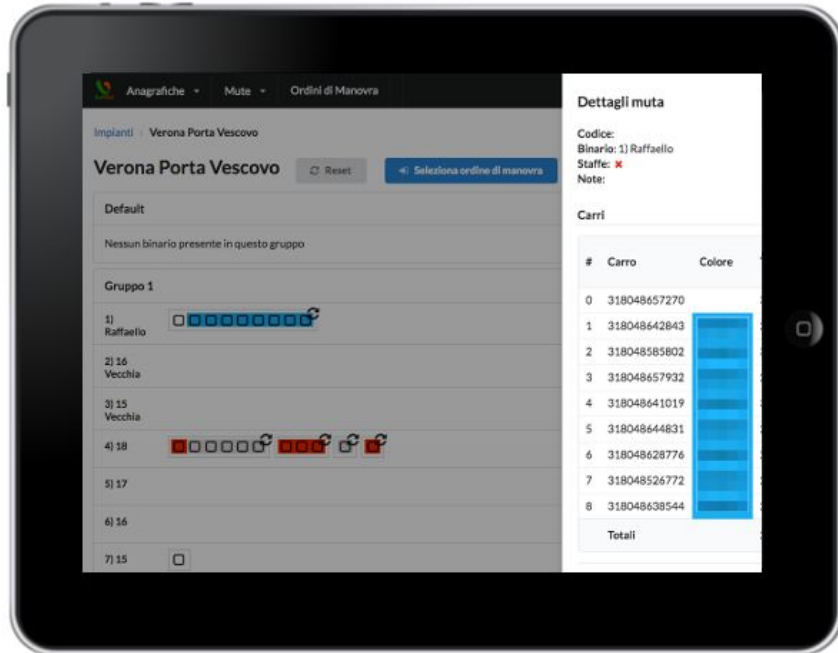


- Planning of scheduled shunting activities;
- Coordination of daily shunting orders;
- Allocation and execution of shunting orders from team coordinator to team leaders;
- Final accounting executed shunting orders with possibility to record the operations to be invoiced to the customer;
- Final accounting data exportation to external systems and billing.





TrainShunt: Configurations and Mobile Use



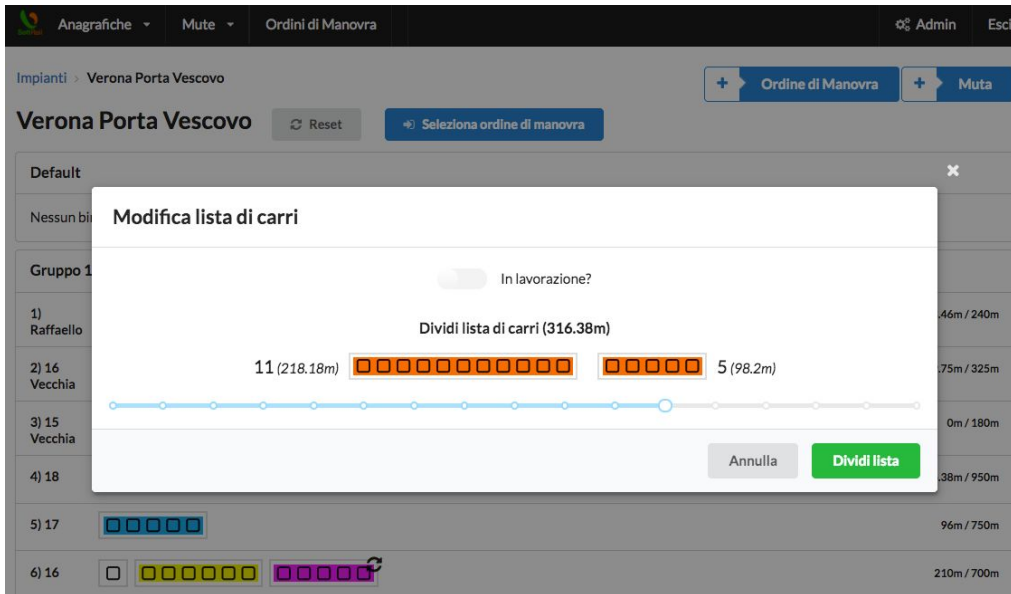
- Natively designed for mobile use;
- Shunting orders assignment and management to a team leader from its tablet;
- Recording from mobile no forecasted operation of the team Coordinator;
- Configuration of a service locations registry in which the company operates shuntings;
- Tracks of a scheme in correspondence of their structure;
- Insertion of a warning if the user positions on it a too high length wagon composition.



TrainShunt: Shunting Orders Management

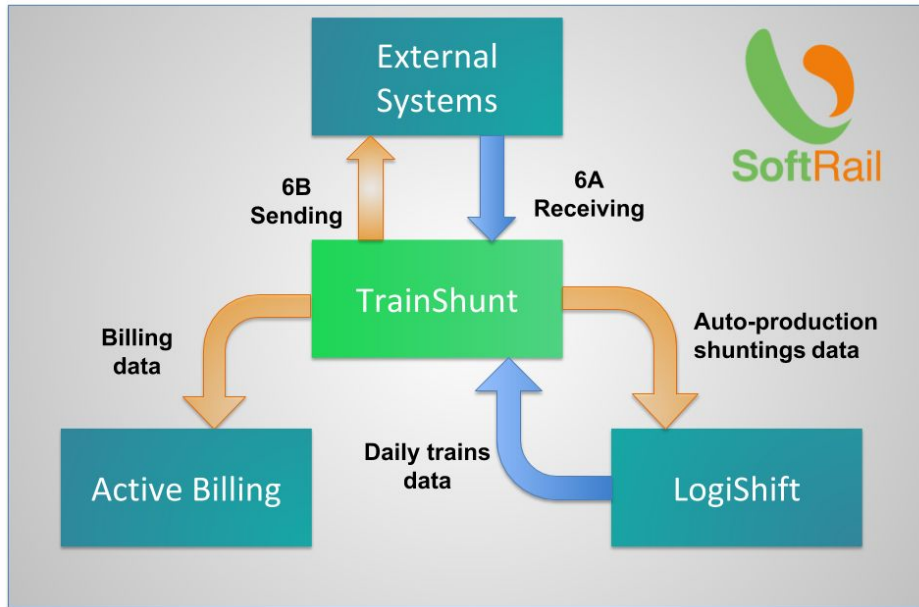


- Programming section: the user can enter the scheduled shunting required (primary, secondary, internal), characterized by timetables, periodicity, detailed information and billing;
- Coordination phase: possibility to actualize the planned requirements and create daily shunting orders, or record extraordinary shunting orders afresh;
- Recording of the received Making Available (6A module) and sending of notice about material delivery form to the Railway Undertaking (6B module).

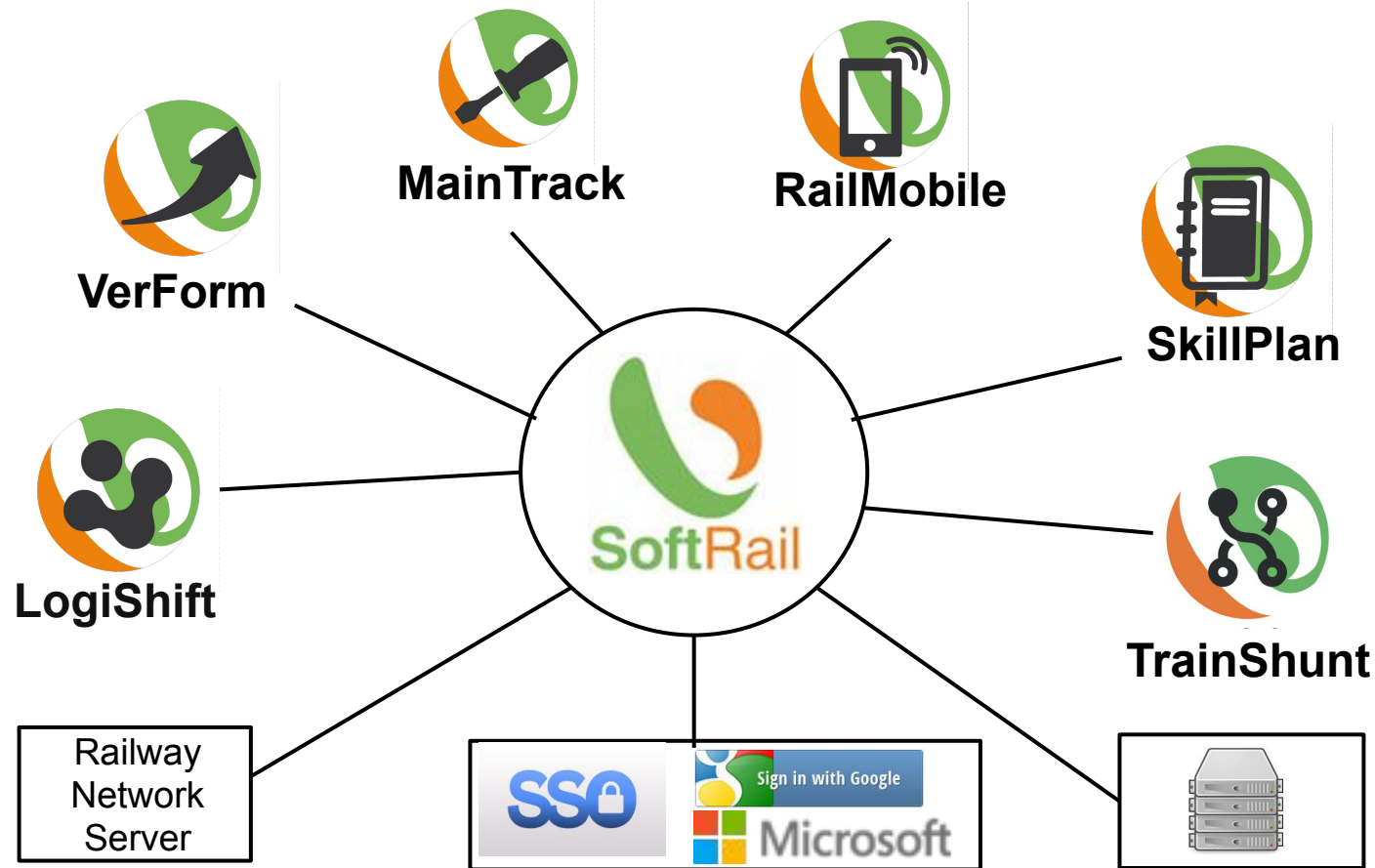




TrainShunt: External systems interfaces



- The system enables communication with software and external systems regarding shunting orders, import of the automatic incoming trains composition and information sending relating to wagons lists of outgoing trains;
- All stocktaking data can also be exported for the management of billing or control management;
- Collected data during the shunting management allow to summarize the necessary information for orders invoicing.





 **SoftRail**

SoftRail is the most advanced and interactive software solution for the management of rail activities ever developed. With one single tool, indeed, it is possible to manage and organize operational personnel, rolling stock and security activities.



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Thank you!



LogiShift

MainTrack

SkillPlan

VerForm

RailMobile

TrainShunt