

# UNIFE CONTRIBUTION TO TAF TSI IMPLEMENTATION PROCESS

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### **UNIFE Members as Implementation**

### **Partners - presented Tools and Applications**

#### RU

### Path Request Train Preparation

Train Running Forecast

# **Service Disruption Information**

Train Location
Consignment Note
data
Shipment ETI/ETA
Wagon Movement
Interchange Reporting
Data Exchange for
Quality Improvement

#### IM

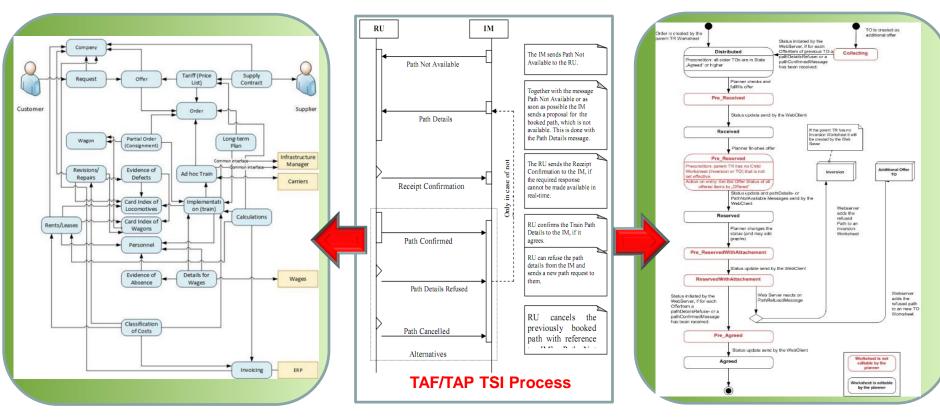
- Path Request
- Train Preparation
- Train Running Forecast
- Service Disruption Information
- Train Location
- Interchange Reporting
- Data Exchange for Quality Improvement

#### WK

 Rolling Stock Reference Databases



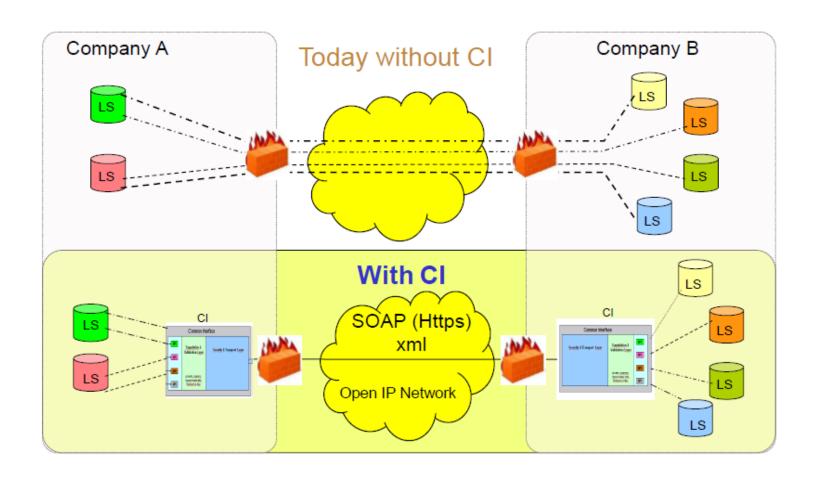
# Unife Members as Implementation Partners ... providing adequate system architecture and workflow.



System Architecture Workflow



### **TAF TSI Communication**





# **TAF TSI "Soft Compliance – UNIFE Position"**



# **UNIFE – Preliminary Input on TAF TSI Soft Compliance**

Miroslav Haltuf - UNIFE Speaker to EUAR TAF TSI ICG



### **Definition of TAF TSI Soft Compliance (First proposal of UNIFE):**

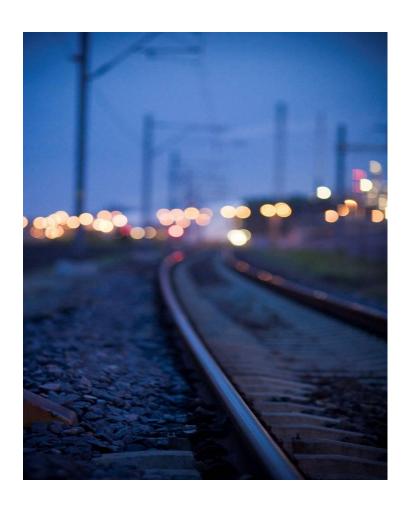
Any bi- or multi-lateral technical communication between IT systems is regarded as TAF TSI soft compliant, if it is using messages being Conformant with TAF TSI message format with respect to the related XSDs.

### **UNIFE's perspective on Soft Compliance:**

### The understanding of the industry is that:

- 1. Any software products offering this kind of communication may be called "TAF TSI soft compliant".
- 2. TAF TSI soft compliant solutions or products are not required to have proven their compliance with the Common Interface (CI) in existing or past installations.
- 3. TAF TSI soft compliance means that a first important and already beneficial level of technical TAF TSI readiness of a given software has been accomplished.
- 4. TAF TSI software tools or interfaces used by RUs are validated (certified) by EUAR.
- 5. Facilitation of data exchange if the RU is operating only domestic (not international) freight traffic
- 6. Communication mostly between RU-IM; RU-RU not necessary





# Motivation for implementing "soft compliance"

Hundreds of RUs in Europe operate with no IT systems, because it is not cost-effective for them to have one considering their size.

On the other hand, there are about 30 IMs with interfaces that allow RUs to access their IT systems – mostly by the means of web clients or special applications connected to the IM's servers.

Implementation of TAF TSI soft compliance would allow for technical communication among all actors using a "common and unique" data exchange



# **Soft Compliance in a nutshell**

### **Political Aspects**

#### Parties involved

- Railway Undertakings
- Infrastructure Managers
- European Commission

#### Aspects

- Fulfils conditions of TAF
   TSI
- Data communication with RUs that otherwise do not fulfil TAF TSI
- Easier co-financing by European funds

### **General Aspects**

#### Efficiency

- No supplementary data channels
- No duplicate data manually (e.g. email) sent to RUs
- Easier correcting of mistakes in manual requests
- Easier timewise coordination of functions and processes
- Modification of the current IT Systems is enough

#### Risks

- More complex checks of correctness of processes, use of all elements and avoiding incompatible national specifics
- More complex solution on IM's side
- Probably not usable for all processes









Increasing competitiveness of rail transport by interoperable SW tools



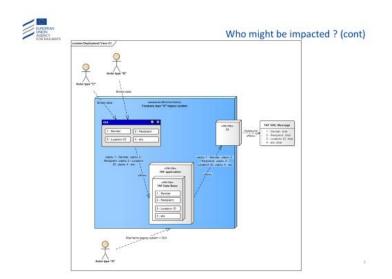
Increasing the Modal Shift of Rail Mode

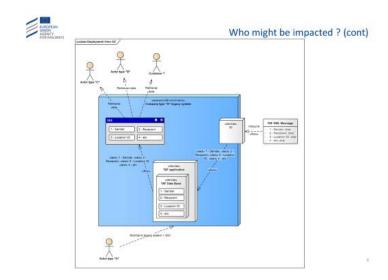


### Priorities to successfully achieve implementation of TAF TSI soft compliance:

- Availability of TAF TSI software tools or web services usable for SMEs with a "very simple" or no internal IT system
- 2. Interoperable and efficient messaging which is (soft) compliant to the EU Regulation requirements with reasonable costs
- 3. Simple and fast implementation in all actors' IT environments
- 4. Flexibility in operation and as low as possible need for any maintenance
- 5. Secure, available, accessible and resilient operation and independence on key market players for small RUs



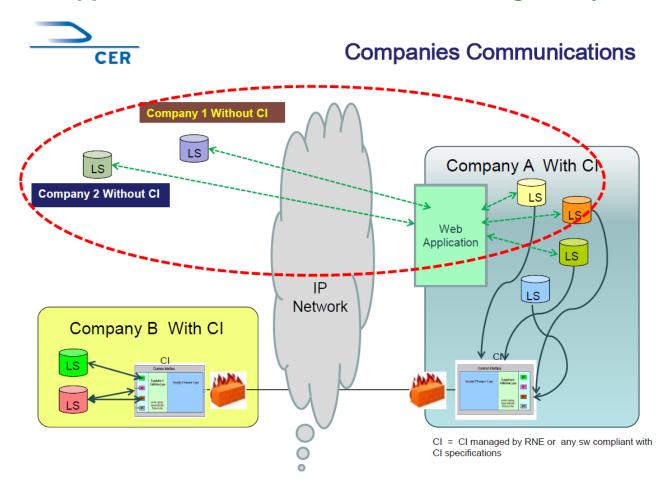




UNIFE has no additional comments to diagrams published by ERA



### UNIFE can support communication described at diagram by CER





# Recommendation of the EUAR TAF TSI "Soft Compliance" Working Group







#### Target Situation - TAF TSI - ANNEX D.2, APPENDIX E

The target situation is to add in the Appendix E a new paragraph to get the implementation of the TAF TSI by all railways actors.

In this context, ERA proposes include in the Chapter 1.2:

\*"In order to reach the total implementation in TAF TSI by all railways actors, other existing communication interfaces (such as Web-Services, Graphical User Interface etc) may be used for the same purpose if there is a specific agreement between the parties involved to allow the use of these communication interfaces."





#### Soft Compliance definition

ERA proposes the following definition of Soft Compliance:

"Soft Compliance means the exchange of mandatory TAF data catalogue elements (XSD) according to the provisions of TAF TSI chapter 4.2 with the possible combination of other existing communication interfaces (such as Web-Services, Graphical User Interface etc) which may be used for the same purpose if there is a specific agreement between the parties involved to allow the use of these communication interfaces."







#### Compliance interpretation – after discussion in task force

ERA proposes the following interpretation of Compliance – to replace first sentence in chapter 4.2.12.6:

"Compliance to the TSI, with respect to data exchange, means the exchange of mandatory TAF data catalogue elements (XSD) according to the provisions of TAF TSI chapter 4.2.

This can use the Common Interface specifications including the use of XSD without any specific agreement between the involved parties.

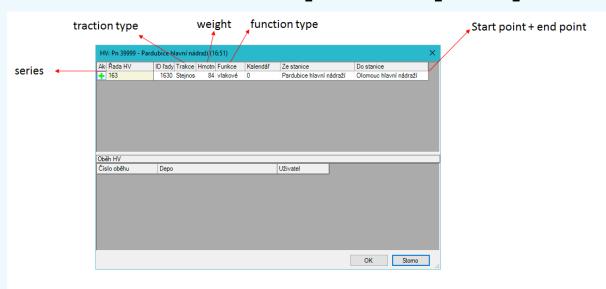
And combination of any communication technologies is possible if there is a specific agreement between the involved parties."

- → Maybe header title should be changed in chapter 4.2.12.6 of TAF and 4.2.21.7 of TAP TSI
- → See also impact on other chapters in TAF and TAP such as CRD, Security etc.

still under discussion

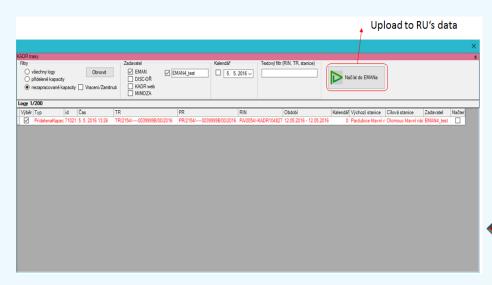


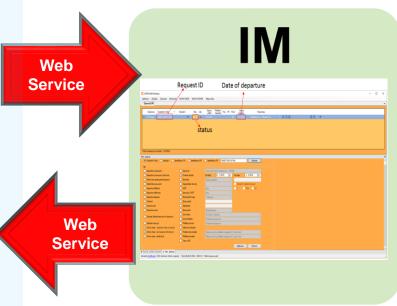
# RU – request preparation





# **RU** – request ready

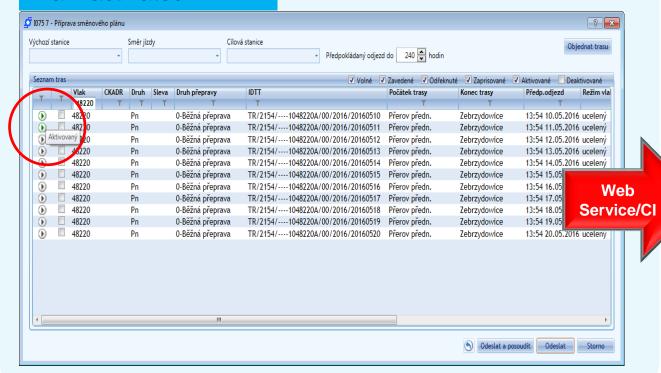




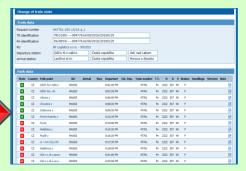


# RU – path activation

#### Train activated

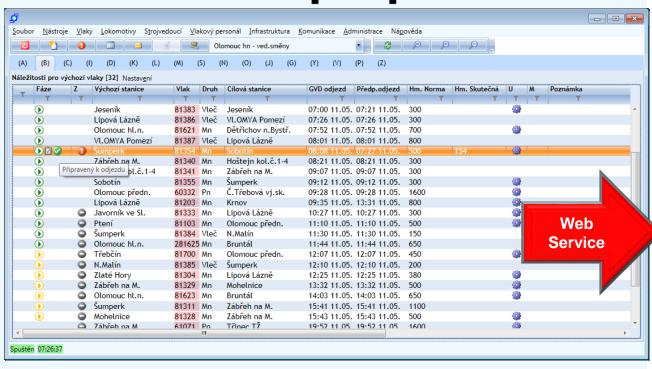


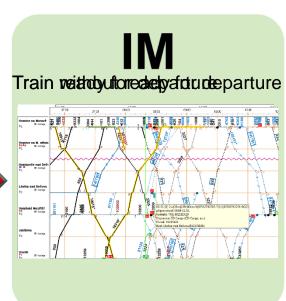
## IM





# RU – train preparation

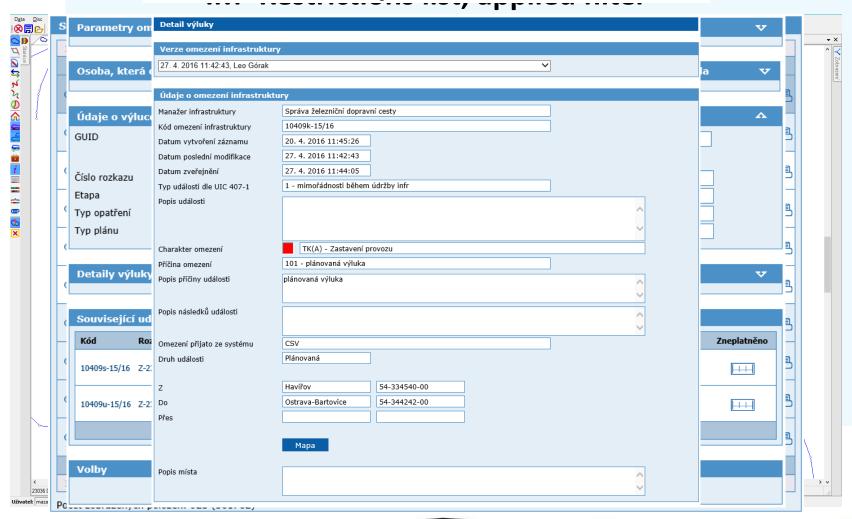






# PATH REQUEST IRN DB -Infrastructure Restriction Notice Database

### RURU Mila psofic eistnisctistns







**Ordering Tool** 

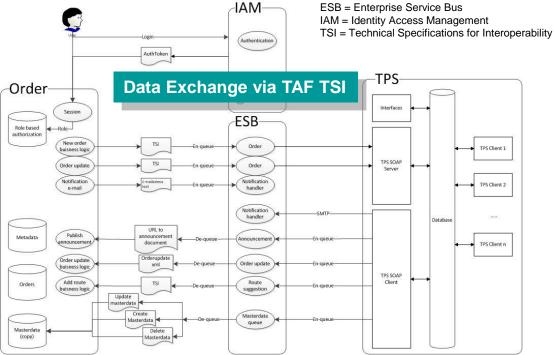
#### **TPS Client**



Infrastructure Editor

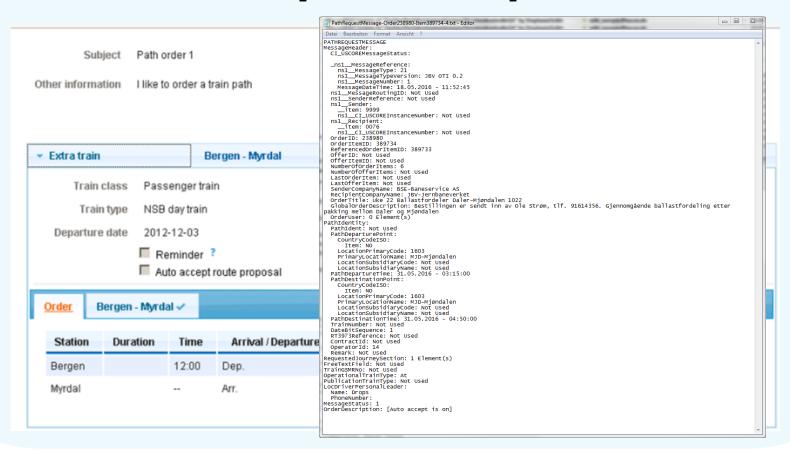
Schedule Editor

Diagram Editor



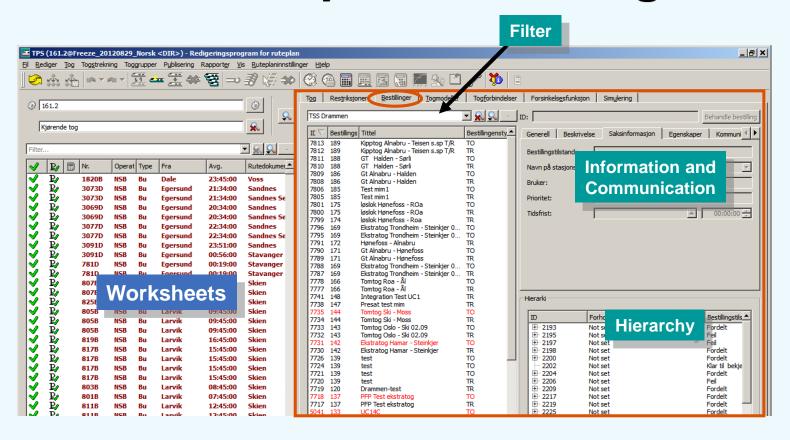


# **RU** – Request Preparation



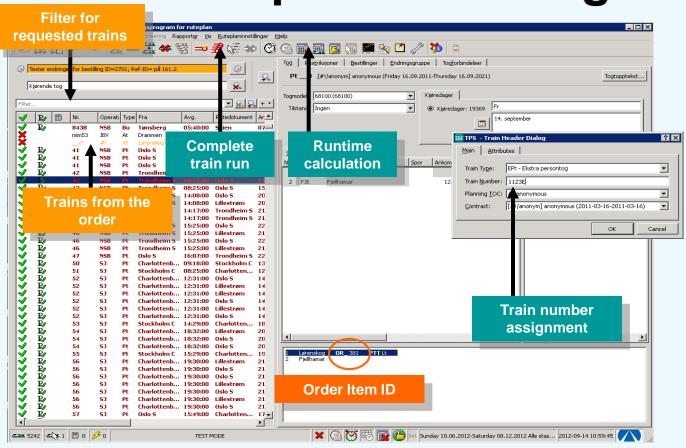


# IM - Request Handling



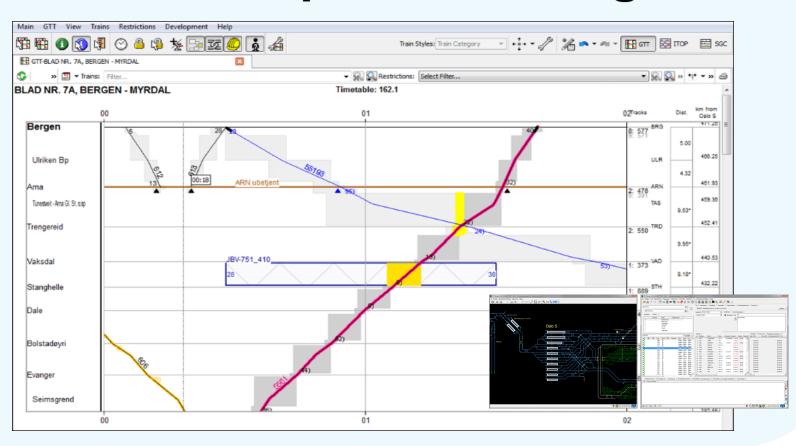


# IM - Request Planning





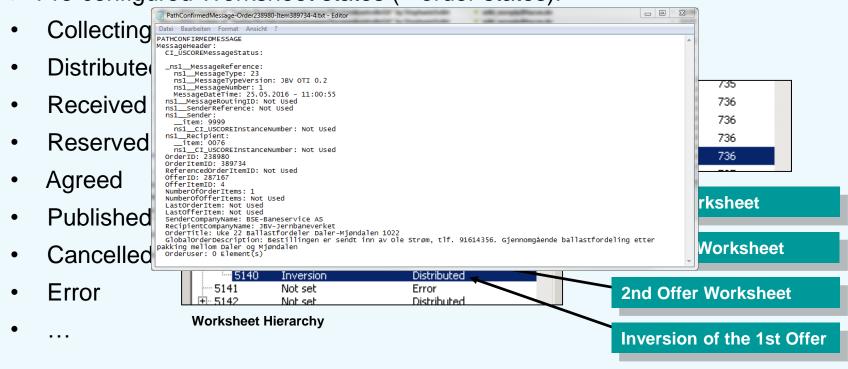
# IM - Request Planning





# IM – Request Workflow

Pre-configured Worksheet states (= order states):





email to

RUs, IMs, WKs,

Having interest in

some solution?

stefanos.gogos@unife.org