

6th report of the TAF TSI Implementation

RU/IM Telematics Joint Sector Group (JSG)

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Version 1.0 Jan-Christian Arms, JSG Vice-chairman





Document history

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EXECUTIVE SUMMARY

This 6th TAF implementation report summarized the results received via the JSG Reporting Tool in June/July 2017 and thus shows the status of implementation by 30 June 2017.

Starting from the first report, invitations and responses have grown in all aspects. After stagnating, responses have grown again from the 5th to the 6th reporting session. The response rate however, calculated as number of responses in relation to number of invitations, is quite stable oscillating between 42 % and 45 % since the 2nd reporting session. The feedback comprises twenty-three EU Member States plus Norway, Switzerland and Turkey.

Regarding the TAF TSI functions reported, the following results can be observed:

- The majority of IMs having reported to the present query have completed the <u>Primary Location</u> <u>Codes</u> for their network.
- The vast majority of companies (close to 90 %) having replied to the query possess a <u>Company</u> <u>Code</u>.
- The feedback of the current questionnaire shows a difference in level of fulfilment for <u>Common</u> <u>Interface</u> between IMs, RUs-F and WKs. The majority of IMs has already implemented, while most of RUs-F and WKs are still developing.
- The degree of implementation for <u>Train Running Information</u> is at 45 % for IMs and 20 % for RUs-F, showing an increase of about 5 % each.
- 70 % of the participating RUs-F started implementing the <u>Train Composition Message</u>.
- Implementation of the <u>WIMO</u>-function rests at very low degree of completion with no sign of improvement over time.
- More than half of the RUs-F companies already started implementing the <u>Consignment Note Data.</u>
- A number of companies fulfil the <u>RSRD</u>-functionality via the common sector tool RSRD², so that the degree of implementation remains at about 65 %.

At European level the <u>Degree of Implementation</u> shows different trends for IMs and RUs-F. Implementation of TAF TSI functions for IMs generally display a positive evolution, even though diagram 23 shows a slight decrease of the DI due to increase of participation in the survey. The proportion of RUs having finished implementation has increased slightly at a low level (diagram 24). Moreover, due to irregular participation to the survey of RUs-F, the development of the TAF TSI functions is undetermined.

Only a part of the companies invited to participate to the survey deliver feedback. Consequently the degree of implementation relative to invitations is always considerably lower than the degree of implementation relative to responses. It is likely, that the degree of implementation as set out in this report does not reflect real situation.

1. BACKGROUND TO THE ASSIGNMENT

According to Article 5, Section 1, of Commission Regulation (EU) No 1305/2014 relating to the Telematics Applications for Freight subsystem (TAF TSI), the European Union Agency for Railways (ERA) shall assess and oversee its implementation.

The Agency has established the 'TAF TSI Implementation Cooperation Group' in order to evaluate the reports of the sector. The remit of this group is monitoring the parameters for RU/IM communication of both TAF and TAP TSIs. Members of the European railway sector are encouraged to submit their reports through the JSG to the Agency.



2. METHODOLOGY

General assumptions

Starting with the 6th Reporting session, the monitoring of RU/IM functions is being carried out using one common questionnaire for both TAF and TAP TSIs. However, results from the survey are presented in two separate reports. This report is related only to the TAF TSI.

The progress of implementation of the TAF and TAP TSI is reported twice a year based on the following assumptions:

- Companies are reporting per mandatory TAF TSI function compared to their own Master Plan target date. In case there is no company Master Plan it will be reported against the target implementation date.
- The level of fulfilment will be displayed in predetermined percentage steps at 0%, 25%, 50%, 75% and 100%.
- Each message based function is realized at 100%, if there is at least one implementation of message exchange in production, even if with a single partner only.

The level of fulfilment in terms of percentage steps are defined as follows:

- 0% Level 1: Not started Project not launched
- 25% Level 2: Initiating phase Implementation plan is available in the company
- 50% Level 3: Planning phase Project development
- 75% Level 4: Executing phase Pilot project / System testing
- 100% Level 5: In-Production & Monitor and Control: Finished means 1st Telematic data exchange is implemented

The obligation to meet functions of the TAF and TAP TSI is sometimes limited to specific stakeholders of the railway sector. Evaluation of the results of this survey is therefore stakeholder-specific. For that reason and in accordance with European legislation the following stakeholders are taken into account:

- Infrastructure Manager (IM)
- Railway Undertaking for Freight transport (RU-F)
- Railway Undertaking for Passenger transport (RU-P)
- Wagon Keeper (WK)
- Allocation Body (AB)

Establishment of this report

This report summarised the results received via the JSG Reporting Tool during the sixth reporting period lasting from 19 June 2017 to 14 July 2017 and thus shows the status of implementation by 30 June 2017. Diagrams in the following chapters of this report show results per RU/IM function summarised in an anonymous way. The present report integrates also data from wagon keepers using RSRD2 submitted by UIP. Table 1 gives an overview about the history of reporting periods.

Report session	Reporting period	Number of questions ¹
1 st Report	01.07.2014 - 31.12.2014	21
2 nd Report	01.01.2015 - 30.06.2015	40
3 rd Report	01.07.2015 - 31.12.2015	42
4 th Report	01.01.2016 - 30.06.2016	53
5 th Report	01.07.2016 - 31.12.2016	57
6 th Report TAF/1 st Report TAP	01.01.2017 - 30.06.2017	91

Table 1: Reporting periods

The 'TAF/TAP TSI Implementation Report Volume 6' questionnaire contains ten question groups, eight of which are about the current implementation of TAF and TAP TSI functions:

TAF/TAP TSI functions for RU/IM communication to be			Type of company			
imple	mented/reported per type of company	IM RU-F RU-P WK AB				AB
Primary Location Codes (PLC)						
Ľ	Company Code (CC)	Х	Х	Х	Х	Х
function	Common Interface (CI)	Х	X X X X X	Х		
fun	Train Running Information (TRI)	Х	Х			
TSI	Train Composition Message (TCM)		Х			
	Consignment Note Data (CND)		Х			
TAF/TAP	Wagon InterModal unit Operational database (WIMO)		Х			
11/	Rolling Stock Reference Database (RSRD)				Х	

Table 2: TAF/TAP TSI functions as reported per type of company

- Primary Location Codes (PLC) IMs only
- Company Code (CC) all companies
- Common Interface (CI) all companies
- Train Running Information (TRI) IMs and RUs-F
- Train Composition Message (TCM) RUs-F only
- Consignment Note Data (CND) RUs-F only
- Wagon and Intermodal Unit Operating Database (WIMO) RUs-F only
- Rolling Stock Reference Database (RSRD) WKs only

Two more general question groups intend to find out the actual situation and intentions of companies:

- Company information
- Sector Tools in use

This report was drafted by the Implementation Reporting Group (IRG), the members of which are listed in Annex 1. As a result, it was endorsed at the JSG meeting on 21 September 2017 and published accordingly. It will be presented at the ERA TAF TSI Implementation Cooperation Group meeting on 18 and 19 October 2017.

¹ Please note, the questions in the TAF and TAP RU/IM questionnaire are context specific. The number of question to be responded, depend on the type of company and is not the total number listed in the table 1.



3. PARTICIPATION IN THE SURVEY

Responses to the survey

The number of project managers invited to report about the implementation of the TAF TSI and TAP TSI is shown in diagram 1 together with the number of responses received thereof. Starting from the first report, invitations and responses have grown in all aspects. After stagnating, responses have grown again from the 5^{th} to the 6^{th} reporting session.

The 6th report includes 66 WKs submitted by UIP using RSRD².

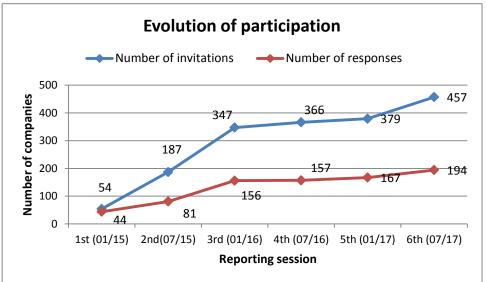


Diagram 1: Evolution of participation over time

The response rate however, calculated as number of responses in relation to number of invitations, is quite stable oscillating between 42 % and 45 % since the 2nd reporting session (see diagram 2).

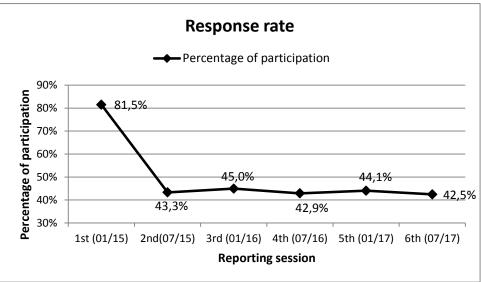


Diagram 2: Evolution of response rate over time

Responses from IMs again increased compared to the previous survey. RUs-F gave slightly additional feedback this time, while the activity of WKs was similar compared to the 5th survey. Participation of ABs remains negligible.



Annex 2 'Responses contact list' to this report gives a detailed overview about the companies per country having replied to the fifth session of TAF TSI implementation monitoring. Please note, that there are entities which have reported on behalf of several companies. Details can be taken from annex 2 to this report.

Diagram 3 indicates the distribution of total responses per country. The feedback comprises twenty-three EU Member States plus Norway, Switzerland and Turkey. The average number of answers per country is 7.

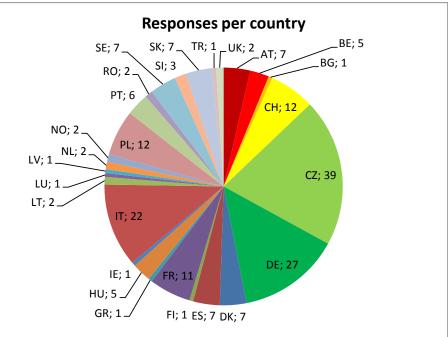
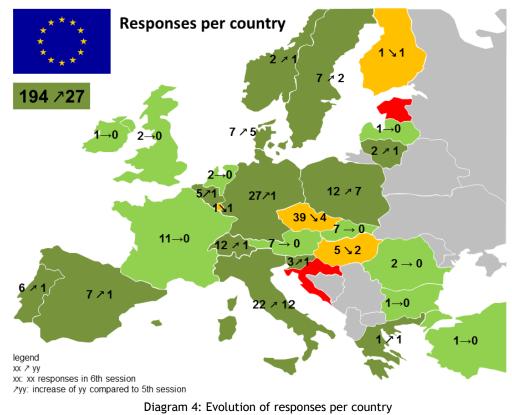


Diagram 3: Number of responses per country

Diagram 4 shows the distribution and the development of responses per country.





Participation per company type

The total number of responses displayed in diagram 1 (194 companies) and listed in Annex 2 is lower than the total number of company types shown in diagram 5 hereafter (244 companies). The difference is due to the fact, that some answers affect multiple roles of companies, such as RU and WK at the same time. Nearly all of the growth in participation of 47 types of companies is caused by passenger railway undertakings participating for the first time.

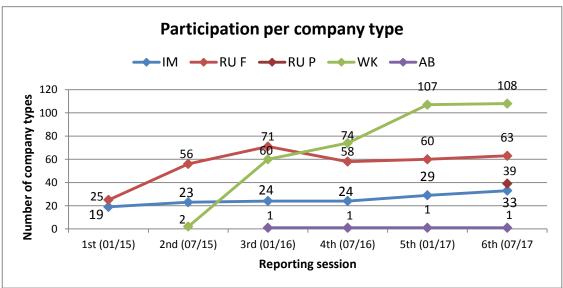


Diagram 5: Evolution of participating per company type over time



4. IMPLEMENTATION MONITORING OF TAF TSI FUNCTIONS

Common Reference Files - Primary Location Codes (IMs)

The Target Implementation Milestone for realisation of the Primary Location Code Function (PLC) according to the TAF TSI Masterplan was 2013. This activity corresponds to Primary Location Codes, which have to be defined by IMs. Consequently, the following diagram only refers to IMs. Responses refer to initial upload of primary location codes, but update and maintenance process and use of codes is a different issue and not yet taken into account.

Diagram 6 indicates, that the majority of IMs reported to have completed the Common Reference Files for locations on their network. However, complete population of PLC is not yet reached.

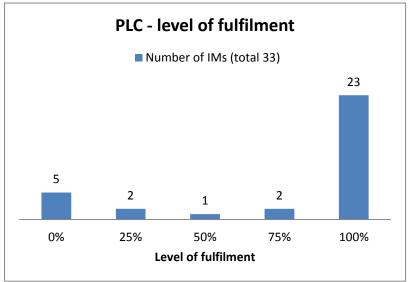
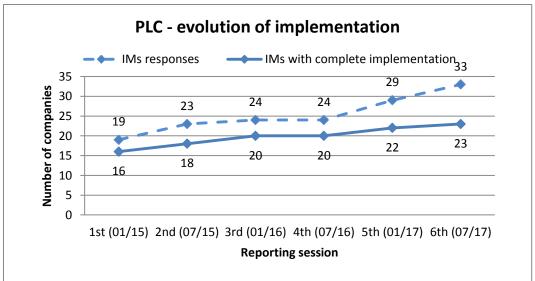
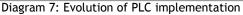


Diagram 6: Common Reference Files - Primary Location Codes (PLC)

Regarding the evolution of PLC implementation, diagram 7 shows 23 IMs with complete implementation out of 33 IMs in the survey. The number of participating IMs has grown more than the ones with complete implementation, which leads to a decline to 70% of degree of implementation (see diagram 21).





Common Reference Files - Company Code (all companies)

The Target Implementation Milestone for realisation of the Company Code Function (CC) according to the TAF TSI Masterplan was 2013.

The bar chart below (diagram 8) is indicating the existence and use of company codes as part of the Common Reference Files for IMs, RUs-F and WKs. For CCs only two predefined percentage steps exist, because either a company does have an own CC or not. The vast majority of companies having replied to the query possess a CC.

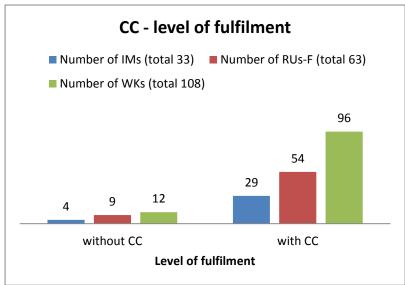
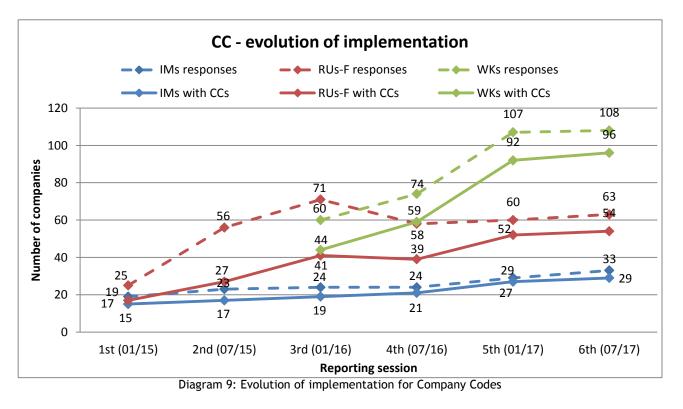


Diagram 8: Common Reference Files - Company Codes (CC)

According to Diagram 9, the number of companies with CCs grew slightly for all types. The degree of implementation is close to 90% for all of them.



Common Interface Implementation (all companies)

The Target Implementation Milestone for realisation of the Common Interface Function (CI) according to the TAF TSI Masterplan was 2013.

Diagram 10 summarises the feedback related to the availability of CI and shows a difference in level of fulfilment between IMs, RUs-F and WKs. The CI is completely implemented by 19 IMs, 9 RUs-F and 4 WKs.

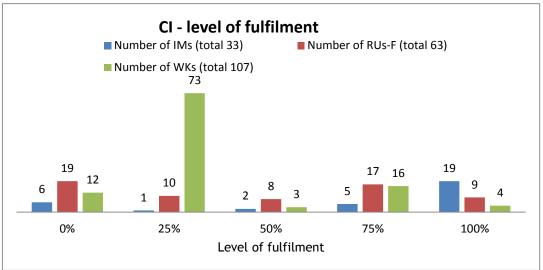
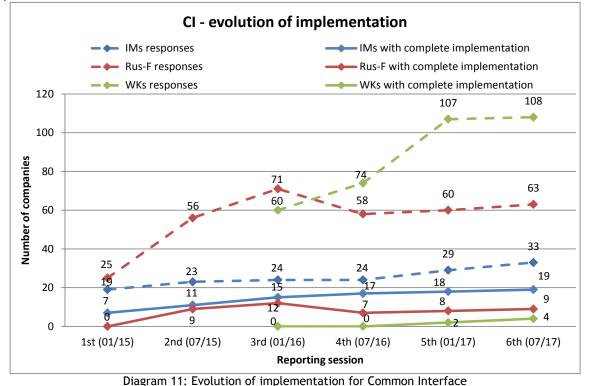


Diagram 10: Common Reference Files - Common Interface (CI)

The development of complete implementation of the CI over time according to diagram 11 shows again the relation to the number of responses per company type. 60% of IMs have already finished the implementation of the CI. However, with completion being at between 10% and 15% of responding companies, the majority of RUs-F is still developing. For WKs completion is below 5%, projects have not started yet or are at initiating phase. RSRD² has yet not implemented the CI. WKs using RSRD² therefore form part of the 25% level.



Train Running Information (IMs and RUs-F)

The Target Implementation Milestone for realisation of the Train Running Information message (TRI) according to the TAF TSI Masterplan is end of 2017. This monitoring concerns only one aspect of the TAF TSI basic parameter 'Train running forecast', the Train Running Information message. The Train Information System (TIS) is a common sector tool managed by RNE. Messages sent by IMs to TIS or messages received by RUs from TIS through traditional interfaces are considered as 75 % complete fulfilment and TAF messages sent or received by Common Interface are counted as 100 % fulfilment.

Diagram 12 indicates 15 IMs and 12 RUs-F with 100 % level of fulfilment. This leads to a degree of implementation for IMs and RUs-F having reported to the JSG Reporting Tool of about 40% for IMs and 20% for RUs-F.

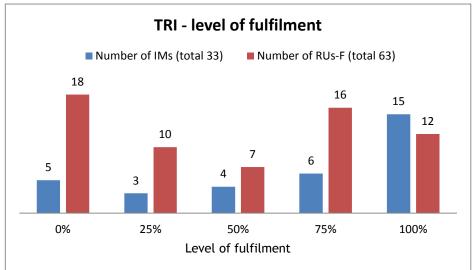


Diagram 12: Train Running Information (TRI)

Regarding diagram 13, both the number of IMs and RUs-F having implemented the TRI and the degree of completion slightly increased in comparison to the 5th reporting session.

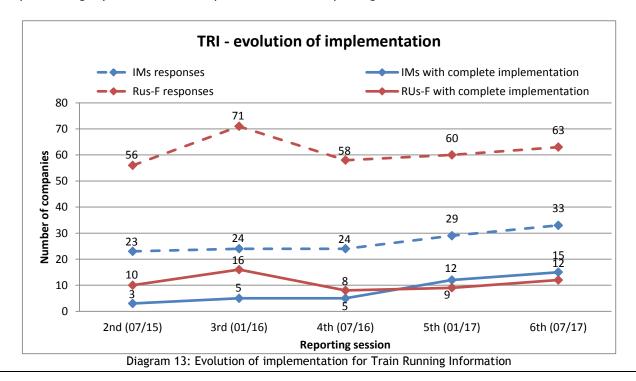


Diagram 14 gives an impression about the state of implementation of TRI by IMs in countries across Europe. The IMs having the longest network have been taken as relevant for the country. For IMs still in development the current planned end date and the respective level of fulfilment is shown in diagram 14.

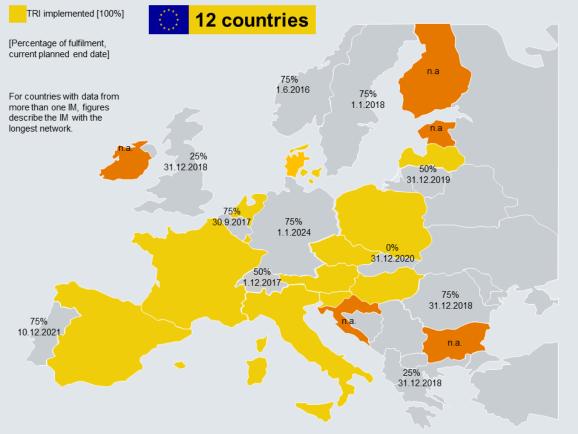


Diagram 14: Implementation of TRI of IMs across European countries



Train Composition Message (RUs-F)

The Target Implementation Milestone for realisation of the Train Composition Message (TCM) as part of the Train Preparation Function according to the TAF TSI Masterplan is end of 2018. TCM is mandatory to be sent by RUs-F. Most of them are still developing this TAF TSI function.

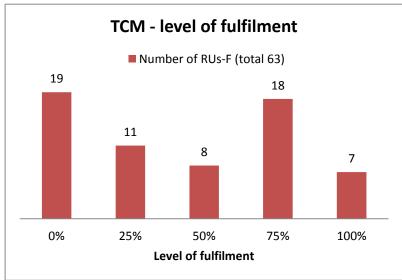


Diagram 15: Train Composition Message (TCM)

Figures show a little increase in terms of complete implementation of TCM since last reporting session. 7 RUs-F out of 63 which replied to the survey have completely implemented the TCM, leading to a degree of implementation of about 10%.

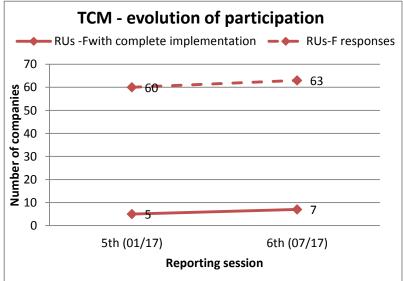
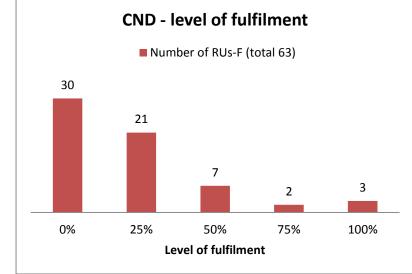


Diagram 16: Evolution of implementation for Train Composition Message



Consignment Note Data (RUs-F)

The Target Implementation Milestone for realisation of the Consignment Note Data function (CND) according to the TAF TSI Masterplan is end of 2017.



This function is reported for the first time in this reporting session.

Diagram 17: Consignment Note Data (CND)

Wagon and Intermodal Unit Operating Database (RUs-F)

The Target Implementation Milestone for realisation of the Wagon and Intermodal Unit Operating Database function (WIMO) according to the TAF TSI Masterplan was 2016.

The 'Wagon and Intermodal Unit Operating Database' function (WIMO) is relevant for RUs-F only. However, IMs realising this function on behalf of RUs-F are not taken into account in the present report.

This function remains at a low degree of implementation of about 3 %. The reason for this must be further investigated. Companies claim that some requirements and the criteria for fulfilling are still unclear (diagrams 18 and 19).

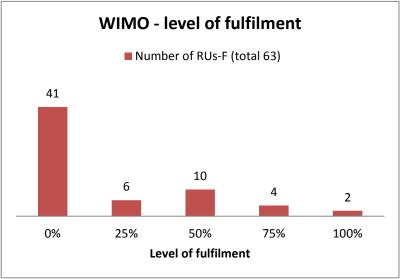


Diagram 18: Wagon and Intermodal Unit Operating Database

Diagram 19 indicates the very low degree of completion for WIMO with no sign of improvement over time.

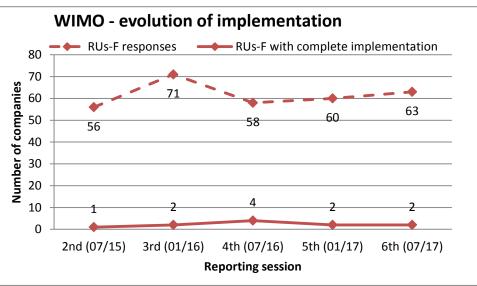


Diagram 19: Evolution of implementation for WIMO

Rolling Stock Reference Database (WKs)

The Target Implementation Milestone for realisation of the RSRD function according to the TAF TSI Masterplan was 2015.

The 'Rolling Stock Reference Database' function (RSRD) is relevant for companies which keep wagons. Those companies might at the same time also be RUs or IMs.

A number of companies intends fulfilling this functionality in a collaborative way via the common sector tool RSRD². Information delivered by UIP for RSRD² means 100% of fulfilment. Thanks to RSRD² the degree of implementation is reported to be at 65 %.

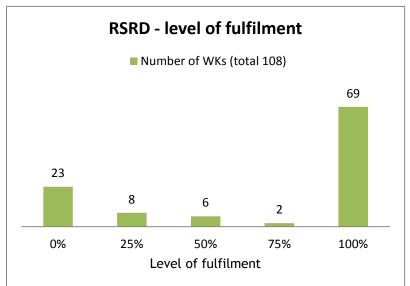


Diagram 20: Rolling Stock Reference Database

Following the nearly identical number of WKs using RSRD² and similar participation to the survey, the implementation rate remains stable compared to the previous report (see diagram 25).

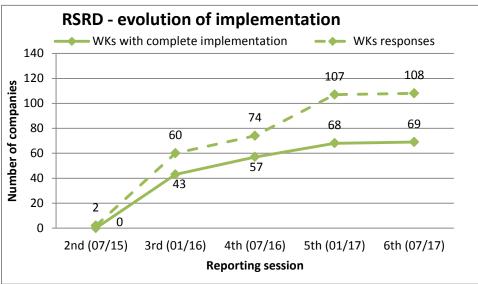


Diagram 21: Evolution of implementation for RSRD

Reasons for not starting implementation of TAF/TAP TSI functions

Companies could declare in a dedicated answer for each TAF/TAP TSI function one reason why they did not yet start implementing it. Diagram 22 gives a summary of the reasons selected by the companies.

The reason 'insufficient awareness of TAF/TAP TSI requirements' is stable in respect to the previous report, while all other reasons for not implementing TAF TAP TSI functions have risen.

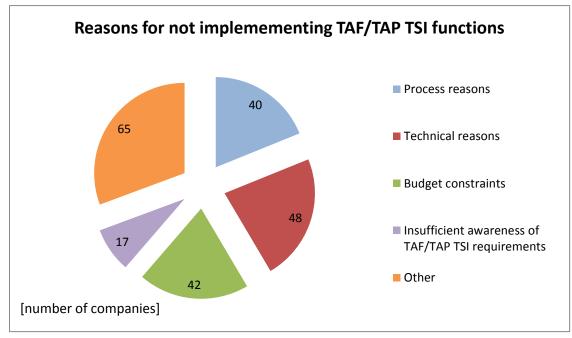


Diagram 22: Reasons for not starting implementation of TAF/TAP TSI functions

Degree of implementation at European level

This chapter summarises the development of the Degree of Implementation (DI) at European level for the TAF TSI functions since the beginning of reporting.

The DI in this report is defined as the relation of companies having fully implemented (100 %) the particular function compared to the companies having replied to this query in per cent.

Diagram 23 shows the DI for functions to be implemented by IMs. TRI shows still a quite positive growing trend over time. PLC, CC and CI implementation however decline compared to the last report. This might partly be explained by the growing number of IMs taking part.

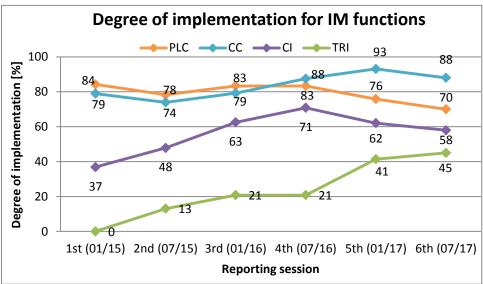


Diagram 23: Reported DI for mandatory IM functions

Diagram 24 indicates the evolution of implementation for RUs-F functions. Generally the proportion of RUs having finished implementation is considerably lower than for IMs. The DI for the CC stays high at 86 %, but the other RUs-F functions stagnate at a low level of implementation. The CND message is not shown yet as it is reported for the first time in the present session.

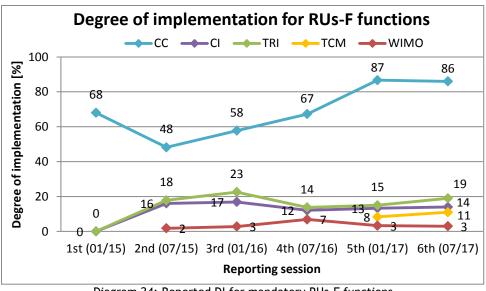


Diagram 24: Reported DI for mandatory RUs-F functions



Diagram 25 shows the reported DI for WKs for the first time in the present report. Similar to the RU-functions, only the DI of CC increases, whereas the RSRD completion remains stable. With 2 WK having CI in production, the respective DI is negligible.

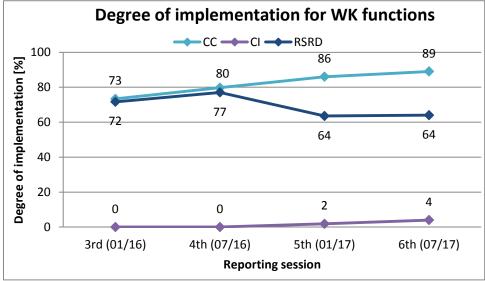


Diagram 25: Reported DI for mandatory WK functions



5. INTENTIONS FOR IMPLEMENTATION

Common sector tools

Participants of the questionnaire could select all common sector tools in use to meet some specific requirements of the TAF/TAP TSI. The number of companies having indicated using such tools are summarised in diagram 26.

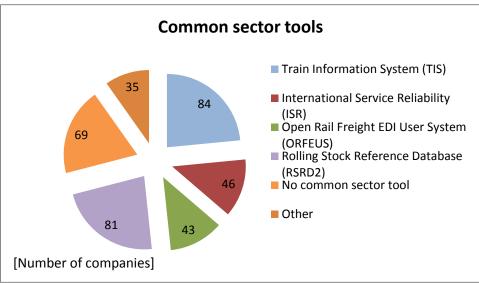


Diagram 26: Common sector tools in use

Nominations of common sector tools went up by 50 % from last reporting, RSRD and TIS both remaining the most used ones.

In respect to the responses received from relevant types of company, both tools are in use by about 70 % of its potential users.

From 35 companies using other common sector tools, only 1 company has indicated the tools² in use.

² The Czech IM SZDC uses the tools named KADR, ComposT and ISOŘ.



6. SURVEY COVERAGE

The present reporting period contained also few statistical questions, such as line-km, ton-km and passenger-km.

After analysing the partly incomplete data from the companies and the comparison of this data with the available statistical data the IRG was unable to draw a clear picture of the actual situation for whole Europe.

To achieve this goal, more detailed questions and answers would be necessary and some administrational work the NCP would be required. Since an European-wide picture of the real implementation status would be very helpful, the IRG suggest that ERA will discuss this matter with the NCP at the next ICG meeting.



7. CONCLUSION AND FINDINGS

The number of companies having responded to the 6th questionnaire is significantly lower than the number of companies having been invited. The response rate of about 43 % remains more or less stable since the second reporting session already. In particular, feedback from smaller companies is still below expectations.

Higher absolute numbers of participation result from the fact, that RU-Ps have for the first time been invited to respond for a limited number of TAP TSI functions.

Extrapolating the participation from the Czech Republic to the whole European Union seems to indicate, that a large part of the European railway sector is not yet covered by this TAF TSI implementation report.

For some TAF TSI functions there is a strong need to precisely define the compliance with TAF TSI regulation. For example for the WIMO function, companies claim that some requirements and the criteria for fulfilling are still unclear. Furthermore it is recommended to define a process in order to update, maintain and use Primary Location Codes.

The degree of implementation as set out in diagrams 23 to 25 of this report is calculated from the responses to the questionnaire. If companies not having responded would be also taken into calculation, the degree of implementation would drop by around half of the percentage.

ANNEX 1: MEMBERS OF THE IMPLEMENTATION REPORTING GROUP (IRG)

Last Name	First Name	Company	e-mail
Arms (Chair)	Jan-Christian	DB AG	jan-christian.arms@deutschebahn.com
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Achille	Vito Sante	RFI	v.achille@rfi.it
Bruckner	Robert	ÖBB	robert.bruckner@oebb.at
Heydenreich	Thomas	UIP	rsd@th-heydenreich.de
Lo Duca	Carmen	Trenitalia	c.loduca@trenitalia.it
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ANNEX 2: RESPONSES CONTACT LIST

Nr.	Member State	Type of Company	Company name	Reporting Entity
1	AT	IM	ÖBB Infrastruktur	
2	AT	RU F, WK	Rail Cargo Austria	
3	AT	WK	GATX Rail Austria GmbH	RSRD ²
4	AT	WK	Felbermayr Transport- und Hebetechnik GmbH & Co KG	RSRD ²
5	AT	WK	Logistik Service GmbH	RSRD ²
6	AT	WK	Bahnbau Wels GmbH	RSRD ²
7	AT	WK	Propangas AG	RSRD ²
8	BE	IM	Infrabel	
9	BE	RU F, WK	Lineas Group	
10	BE	RU P	THI factory	
11	BE	WK	LINEAS Intermodal	RSRD ²
12	BE	WK	LINEAS	RSRD ²
13	BG	RU F, WK	DB Cargo Bulgaria	DB Cargo AG
14	СН	IM	SBB Infrastruktur	
15	СН	IM	BLS-Netz	
16	СН	RU F	SBB Cargo International	
17	СН	RU F, WK	DB Cargo Switzerland	DB Cargo AG
18	СН	RU P	SBB Personenverkehr	
19	СН	WK	VTG Cargo AG	RSRD ²
20	СН	WK	Ermewa SA, Geneva branch	RSRD ²
21	СН	WK	TRANSWAGGON AG	RSRD ²
22	СН	WK	MITRAG AG	RSRD ²
23	СН	WK	WASCOSA AG Luzern	RSRD ²
24	СН	WK	HASTAG (Zürich) AG	RSRD ²
25	СН	WK	Diversified Investments SA	RSRD ²
26	CZ	IM	Správa železniční dopravní cesty	
27	CZ	IM, RU F	PDV RAILWAY	
28	CZ	IM, RU F, RU P	Jindrichohradecke mistni drahy	
29	CZ	IM, RU F, WK	Advanced world transport	
30	CZ	IM, RU F, WK	Sokolovská uhelná	
31	CZ	RU F	EP Cargo	
32	CZ	RU F	LTE Czechia	LTE Group
33	CZ	RU F	TONCUR	
34	CZ	RU F	SLEZSKOMORAVSKÁ DRÁHA	
35	CZ	RU F	TCHAS ŽD	
36	CZ	RU F	IDS CARGO	
37	CZ	RU F, RU P	KŽC Doprava	
38	CZ	RU F, RU P	CityRail	
39	CZ	RU F, RU P	LTE Logistik a Transport Slovakia s.r.o.	LTE Group
40	CZ	RU F, RU P, WK	Ceske drahy	
41	CZ	RU F, WK	DBV-ITL	

Nr.	Member State	Type of Company	Company name	Reporting Entity
42	CZ	RU F, WK	ČD Cargo	
43	CZ	RU F, WK	LOKO TRANS	
44	CZ	RU P	GW Train Regio	
45	CZ	WK	Cement Hranice	
46	CZ	WK	ČR SSHR	
47	CZ	WK	Coal Services	
48	CZ	WK	Vápenka Čertovy schody	
49	CZ	WK	VÁPENKA VITOŠOV	
50	CZ	WK	ZX-BENET	
51	CZ	WK	státní podnik DIAMO	
52	CZ	WK	NH-TRANS	
53	CZ	WK	Spolek pro chemickou a hutní výrobu	
54	CZ	WK	ККВ	
55	CZ	WK	KOTOUČ ŠTRAMBERK	
56	CZ	WK	Škoda Auto	
57	CZ	WK	Lafarge Cement, a.s.	RSRD ²
58	CZ	WK	RYKO PLUS spol. s r.o.	RSRD ²
59	CZ	WK	Railco a.s.	RSRD ²
60	CZ	WK	Felbermayr Transport- und Hebetechnik spol.s.r.o.	RSRD ²
61	CZ	WK	KOS Trading, akciová společnost	RSRD ²
62	CZ	WK	Lovochemie, a.s.	RSRD ²
63	CZ	WK	V.K.S. Vagon Komerc Speed, spol. s r.o.	RSRD ²
64	CZ	WK	ArcelorMittal Ostrava a.s.	RSRD ²
65	DE	IM	DB Netz	
66	DE	RU F	RheinCargo	
67	DE	RU F	SBB Cargo Deutschland GmbH	SBB Cargo International
68	DE	RU F, WK	DB Cargo	
69	DE	RU F, WK	MEG Mitteldeutsche Eisenbahn GmbH	DB Cargo AG
70	DE	RU F, WK	RBH Logistics GmbH	
71	DE	WK	Ermewa GmbH	RSRD ²
72	DE	WK	GATX Rail Germany GmbH	RSRD ²
73	DE	WK	TRANSWAGGON GmbH	RSRD ²
74	DE	WK	VTG Rail Europe GmbH	RSRD ²
75	DE	WK	VTG Aktiengesellschaft	RSRD ²
76	DE	WK	Aretz GmbH und Co. KG	RSRD ²
77	DE	WK	NACCO GmbH	RSRD ²
78	DE	WK	ERR European Rail Rent GmbH	RSRD ²
79	DE	WK	AlzChem AG	RSRD ²
80	DE	WK	DAHER PROJECTS GmbH	RSRD ²
81	DE	WK	Vossloh Logistics GmbH	RSRD ²
82	DE	WK	Kombiverkehr Deutsche Gesellschaft für kombinierten Güterverkehr mbH & Co KG	RSRD ²
83	DE	WK	Zürcher Bau GmbH	RSRD ²

RU/IM Telematics Joint Sector Group

JSG

Nr.	Member State	Type of Company	Company name	Reporting Entity
84	DE	WK	Kurt Nitzer (GmbH & Co.) KG	RSRD ²
85	DE	WK	Mosolf Automotive Railway GmbH	RSRD ²
86	DE	WK	BASF SE	RSRD ²
87	DE	WK	On Rail - Gesellschaft für Eisenbahnausrüstung und Zubehör mbH	RSRD ²
88	DE	WK	Tyczka Gase GmbH	RSRD ²
89	DE	WK	voestalpine Rail Center Königsborn GmbH	RSRD ²
90	DE	WK	On Rail Gesellschaft für Vermietung und Verwaltung von Eisenbahnwaggons mbH	RSRD ²
91	DE	WK	Petrochem Mineralöl-Handels-GmbH	RSRD ²
92	DK	IM	Banedanmark	
93	DK	RU F, WK	DB Cargo Scandinavia AS	DB Cargo AG
94	DK	RU P	BF Logistics	
95	DK	RU P	DSB	
96	DK	RU P	Lokaltog	
97	DK	RU P	Nordjyske Jernbaner	
98	DK	RU P	Midtjyske Jernbaner	
99	EL	IM	O.S.E.	
100	ES	IM	ADIF	
101	ES	RU F	RENFE MERCANCIAS	
102	ES	RU F	Logitren Ferroviaria	
103	ES	RU F, RU P	FERROVIAL RAILWAY	
104	ES	RU F, WK	TF Transfesa	DB Cargo AG
105	ES	WK	Transportes Ferroviarios Especiales S.A.	RSRD ²
106	ES	WK	Sociedad de estudios y explotacion de material auxiliar de transportes S.A.	RSRD ²
107	FI	RU F, RU P, WK	VR Group	
108	FR	IM	SNCF Réseau	
109	FR	RU F	FRET SNCF	
110	FR	RU F, WK	ECR Euro Cargo Rail SA	DB Cargo AG
111	FR	RU P	SNCF Voyageurs	
112	FR	WK	Ermewa SA	RSRD ²
113	FR	WK	NACCO S.A.S.	RSRD ²
114	FR	WK	Monfer France SASU	RSRD ²
115	FR	WK	ATIR-RAIL	RSRD ²
116	FR	WK	Compagnie Française de Produits Métallurgiques	RSRD ²
117	FR	WK	STVA S.A.	RSRD ²
118	FR	WK	SOCOMAC	RSRD ²
119	HU	AB	VPE	
120	HU	IM	MÁV	
121	HU	IM	GYSEV	
122	HU	RU F	MMV	
123	HU	RU F, WK	DB Cargo Hungaria Kft	DB Cargo AG
124	IE	WK	TOUAX Rail Ltd.	RSRD ²
125	IT	IM	Ferrovie Emilia Romagna	

Nr.	Member State	Type of Company	Company name	Reporting Entity
126	IT	IM	RETE FERROVIARIA ITALIANA	
127	IT	IM	La Ferroviaria Italiana	
128	IT	IM, RU F, RU P, WK	Società Ferrovie Udine Cividale	
129	IT	RU F	SBB Cargo Italia	SBB Cargo International
130	IT	RU F	HUPAC	
131	IT	RU F	TX Logistik	
132	IT	RU F	Dinazzano PO	
133	IT	RU F	GTS Rail	
134	IT	RU F, RU P	Trasporto Ferroviario Toscano	
135	IT	RU F, WK	DB Cargo Italia Srl	DB Cargo AG
136	IT	RU F, WK	MERCITALIA RAIL	
137	IT	RU P	TRENORD	
138	IT	RU P	GRUPPO TRASPORTI TORINESI	
139	IT	RU P	Trenitalia	
140	IT	RU P	ARRIVA Italia Rail	
141	IT	RU P	SNCF Voyages Italia	
142	IT	RU P	Trasporto Passeggeri Emilia Romagna	
143	IT	RU P	Trenord	
144	IT	RU P	TRENTINO TRASPORTI ESERCIZIO	
145	IT	WK	Lotras srl	RSRD ²
146	IT	WK	Monfer Cereali SRL	RSRD ²
147	LT	IM, RU F, RU P, WK	Lithuanian Railways	
148	LT	RU F	Captrain Italia	
149	LU	IM, RU F, RU P, WK	CFL	
150	LV	IM, RU F, WK	VAS Latvijas dzelzceļš	
151	NL	IM	ProRail	
152	NL	RU F, WK	DB Cargo Nederland N.V.	DB Cargo AG
153	NO	IM	Bane NOR	
154	NO	RU F	LKAB Malmtrafikk AS	
155	PL	IM	РКР	
156	PL	IM, RU P	РКР	
157	PL	RU F, WK	DB Cargo Polska Spolka Akyina	DB Cargo AG
158	PL	RU P	Koleje Małopolskie	
159	PL	RU P	Koleje Śląskie	
160	PL	RU P	Koleje Dolnoslaskie	
161	PL	RU P	PKP Intercity	
162	PL	RU P	Arriva RP	
163	PL	WK	Łódzka Kolej Aglomeracyjna	
164	PL	WK	GATX Rail Poland Sp. z o.o.	RSRD ²
165	PL	WK	Tankwagon Sp. z o. o.	RSRD ²
166	PL	WK	Felbermayr Immo Sp.z.o.o.	RSRD ²
167	PT	IM	Infraestruturas de Portugal	
168	PT	RU F	Medway	
169	PT	RU F, WK	TAKARGO	
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Nr.	Member State	Type of Company	Company name	Reporting Entity
170	PT	RU P	CP	
171	PT	WK	ADP Fertilizantes, S.A.	RSRD ²
172	PT	WK	CIMPOR - Serviços de Apoio à Gestão de Empresas, S.A.	RSRD ²
173	RO	IM	CFR	
174	RO	RU F, WK	DB Cargo Rail Romania SRL	DB Cargo AG
175	SE	IM	Trafikverket	
176	SE	RU F	Hector Rail	
177	SE	RU F	LKAB Malmtrafik	LKAB Malmtrafikk AS
178	SE	RU F, WK	Green Cargo	
179	SE	RU P	sj	
180	SE	WK	TRANSWAGGON AB	RSRD ²
181	SE	WK	Stena Recycling AB	RSRD ²
182	SI	IM	SŽ Infrastruktura	
183	SI	RU F	SŽ TOVORNI PROMET	
184	SI	WK	Adria kombi d.o.o.	RSRD ²
185	SK	IM	Slovak Railways	
186	SK	RU F, RU P	LTE Slovakia	LTE Group
187	SK	RU F, WK	Cargo Slovakia	
188	SK	RU P	RegioJet	
189	SK	RU P	Železničná spoločnosť Slovensko	
190	SK	WK	Ing. Alica Ovciariková A.O.	RSRD ²
191	SK	WK	Felbermayr Slovakia s.r.o.	RSRD ²
192	TR	WK	TRANSWAGGON Vagon Isletmeleri Ltd. Sti.	RSRD ²
193	UK	IM	Network Rail Infrastructure	
194	UK	RU F, WK	DB Cargo (UK) Ltd	DB Cargo AG



Disclaimer

The RU/IM Telematics Joint Sector Group (JSG)

The JSG was set up in October 2012 as a voluntary organisation supported by nine European Associations involved in the implementation of the rail technical specifications for interoperability of the Telematic Application for Freight (TAF TSI).

http://taf-jsg.info/