

Making the railway system work better for society.

Impact assessment Tariff data for domestic sales ERA-REC-122-IA-DT V 1.0

Light Impact Assessment

TAP Revision 2019/20 – Closure of Open Point related to tariff data for domestic sales in TAP TSI

Contents

Context and problem definition	3
Problem and problem drivers	3
Main assumptions	3
Stakeholders affected	3
Evidence and magnitude of the problem	4
Baseline scenario	4
Subsidiarity and proportionality	4
Objectives	5
Strategic and specific objectives	5
Link with Railway Indicators	5
Options	6
List of options	6
Description of options	6
Uncertainties/risks	6
Impacts of the options	7
Impacts of the options (qualitative analysis)	7
Impacts of the options (quantitative analysis)	9
Comparison of options and preferred option	10
Effectiveness criterion (options' response to specific objectives)	10
Efficiency (NPV and B/C ratio) criterion	10
Summary of the comparison	10
Preferred option(s)	11
Further work required	11
Monitoring and evaluation	12
Monitoring indicators	12
Future evaluations	12
	Problem and problem drivers

1. Context and problem definition

1.1.	Problem and problem drivers	undertakings), the integration different sources (e.g. other systems can be very complic processing, e.g. if tariff com	el agencies, GDS operators, railway on of tariff data for domestic sales from RU's, foreign RU's) into their distribution ated as it can require a lot of manual post- nditions are in free text – these textual red/formalized and manually integrated in		
		As a consequence, if the costs to integrate these tariffs are too high, the will not integrate these tariffs into their applications. For this reason en- customers (potential passengers) will have access to these tariffs via very limited number of distribution channels (e.g. usually via the application of the RU offering the related service to this tariff, tick vending machines of this RU).			
		for foreign and international the tariff conditions from rail They are intended for don distribution system for anot	handates the standards B1, B2, B3 for tariffs sales however these standards do not cover way/transport products for domestic sales. hestic sales only (e.g. sales in a foreign ther member state). A certain amount of l-price tickets could be accommodated in s is not used.		
		Problem/need to be addressed:			
		This is currently not the cas existing proprietary standard	ed access to tariff data for domestic sales. The because there are a lot of national co- s to echange tariffs for domestic sales which tribution systems very difficult.		
1.2.	Main assumptions	 For the exchange of tariff data, a part of the European rai sector already uses the European Standard NeTEx for exchange and processing of tariff data for domestic sales. For reason we assume that this European Standard fully meets needs of the European Railway Sector in the framewor exchanging tariff data for domestic sales. We received basic input information for the LIA from sele experts, which were recommended by the European Stakeho Organisations. These experts work within national organisa or are freelancer – however we assume that they expressed view of the European Stakeholder Organisation, we recommended them as contact point. 			
1.3.	Stakeholders				
	affected	Category of stakeholder	Importance of the problem (*)		
		Railway Undertakings (offering regional railway	4		

		services for different tariff and transport associations) Transport Associations, Regions	The integration of the different tariff models in the ticket machines can be very challenging 4 In order to promote the use of public services, they are interested that the citizen has simplified access via 3 rd party distribution channels (applications and/or applications of the public service operators/ RUs informing about timetables and tariffs for domestic services).
		Citizens Ticket vendors	4 Similar to transport associations. 5 They are interested in a simple integration of timetables and tariffs in their distribution systems/ applications for their and sustamers
			for their end customers ose mentioned above (e.g. vehicle ompanies or infrastructure managers) are lem
1.4.	Evidence and magnitude of the problem	The evidence of the problem	m was confirmed within bilateral meetings VDV e-ticket, Norwegian Railway IT service er Transport Operators)
1.5.	Baseline scenario	The current Open Point (cha will not be closed in TAP TSI.	apter 4.2.2.1 and partly chapter 4.2.11.3/4)
1.6.	Subsidiarity and proportionality	information services) alread these tariffs to national ad protocols see article 4 (b)", the following standards an 16614 and subsequent ver Regulation (EU) No 454/2 documents elaborated by la compatible and interoperad specifications". For domesti standard. Consequently the those fares is NeTEx or interoperable". Delegated Decision 1474/20 TAP TSI with the objective	by b

2. Objectives

2.1.	Strategic and specific objectives	 Strategic objective(s) of the Agency with which this initiative is coherent. Europe becoming the world leader in railway safety Promoting rail transport to enhance its market share Improving the efficiency and coherence of the railway legal framework Optimizing the Agency's capabilities Transparency, monitoring and evaluation Improve economic efficiency and societal benefits in railways Fostering the Agency's reputation in the world
2.2	Link with Pailway	 A. Simplify (Allow automated) integration of tariffs for domestic sales into distribution systems of ticket vendors and RU's. B. Facilitate for the passengers the access to tariff information for domestic railway products C. Facilitate for the passengers the purchase of national railway products (for domestic sales) D. Keep the cost impact for providers of tariffs for domestic sales as low as possible
2.2.	Link with Railway Indicators	N/A

3. Options

3.1.	List of options	Baseline
		Option 1 – NeTEx only
		Option 2 – NeTex and existing TAP standards only
3.2.	Description of	Baseline
	options	Open Point is not closed, National standards apply for the exchange of Tariffs for domestic sales.
		Option 1
		It is only allowed to use the standard NeTEx for the exchange of tariff data for domestic sales
		 for information only – 01A for information and ticketing – 01B
		Option 2
		The following standards - existing TAP standards B1 or B2 or B3 or NeTEx - are allowed to use for the exchange of tariff data for domestic sales
		 for information only – O2A for information and ticketing – O2B
		Note: In all options, we assume that the receiver of tariff data <u>is not</u> <u>forced</u> to adapt his current distribution system to import and automatically process the tariff data for customer information or for the issueing of tickets, e.g. if the current distribution system is not at the end of its lifetime and its adaptation is too costly. The receiver is free to decide whether to implement the necessary adaptations in his systems for the automated processing of tariff data. However the receiver has the right to receive the necessary information in a semi- formal data model which is an essential pre-requisite for the automatic processing of tariff data. As a consequence all options result in an obligation for the tariff data providers, to translate their tariffs into a harmonized semi-formal data model.
3.3.	Uncertainties/risks	For option 2 only: There could technical limitations if existing TAP standards are used. These shall be not taken into account in the framework of the Impact Assessment

4. Impacts of the options

4.1. Impacts of options (qualitati analysis)	comparing the The positive of	The positive or negative impacts from the option are derived by comparing the option against the baseline. The positive or negative impacts from the option are derived by comparing the option against the baseline.				
	For the Option	1				
	Category of stakeholder		Option 1a	Option 1b		
	Railway Undertakings offering regional railway services for different tariff and transport	Positive impacts	Very limited - simplified customer information concering tariffs – especially if tariff models of tariff associations change	Simplified integration of different tariff models in their distribution systems (e.g. ticket machines) especially if tariffs models from tariff and transport associations change		
	associations (tariff data provider)	Negative impacts	Limited additional costs concerning the translation of existing tariff data into semi- formal data model conforming to NeTex	Like 1a) however somehow higher additional translation costs (to cover ticketing aspects)		
	Transport Associations, Regions	Positive impacts	Very limited - Increased use of public transport due to easier access of tariff data via additional 3 rd party apps	Like 1b) however much higher positive impact due to easier access to ticketing services via additional 3 rd party apps		
		Negative impacts	Limited additional costs concerning translation of existing tariffs (if they are tariff data providers)	Like 1a) however somehow higher additional translation costs (to cover ticketing aspects) – if they are tariff data providers		
	Citizens	Positive Impacts	Easier access to tariff information of local public/ national transport	As 1a) however in addition easier access to tickets for local public or national transport.		
		Negative Impacts	N/A	N/A		
	Ticket Vendors/ RUs/ Third Parties (tariff data	Positive Impacts	Less integration efforts to process tariffs for domestic sales in their distribution systems	Less integration efforts to process tariffs and to issue tickets for domestic sales in their distribution systems		
	receiver)	Negative impacts	N/A	N/A		

гт		1		
	Overall assessment (input for section 5.1)	Positive impacts	Simplified Access for ticket vendors and EU citizens to tariffs for domestic sales	As option 1a) <u>plus</u> Simplified Access to Tickets for the customer Simplified Ticketing procedures for ticket vendors
		Negative impacts	Translation costs to convert existing tariffs into a semi-formal data model	Somehow higher translation costs (compared to option 1a) due to additional conversion of ticketing information
	For the Option	2		
	Category of stakeholder		Option 2a	Option 2b
	Railway Undertakings offering regional railway services for different tariff and transport associations (tariff data provider)	Positive impacts Negative impacts	Very limited - simplified customer information concering tariffs – especially if tariff – like Option 1a Very limited additional costs concerning the translation of existing tariff data, where such tariffs in TAP standards B1-3 are not available.	Simplified integration of different tariff models in their distribution systems (e.g. ticket machines) - especially if tariffs models from tariff and transport associations change – like Option 1b Like Option 2a - however somehow higher additional translation costs (to cover ticketing aspects)
	Transport Associations, Regions	Positive impacts	Very limited - Increased use of public transport due to easier access of tariff data via additional 3 rd party apps (same as Option 1a)	Like Option 2a - however much higher positive impact due to easier access to ticketing services via additional 3 rd party apps (same as Option 1b)
		Negative impacts	Very limited additional costs concerning translation of existing tariffs – see RUs (if they are tariff data providers)	Like 2a) however somehow higher additional translation costs (to cover ticketing aspects) – if they are tariff data providers
	Citizens	Positive Impacts	Easier access to tariff information of local public/ national transport	As 2a) however in addition easier access to tickets for local public or national transport.

Ticket Vendors/ RUs/Third Parties (as tariff data receiver)Positive ImpactsLess integration efforts to process tariffs for domestic sales in their distribution systems, higher than in option 1a.Less integration efforts to process tariffs and to issue tickets for distribution systems, however they are higher than in option 1b.Less integration efforts to process tariffs and to issue tickets for distribution systems, however they are higher than in option 1b.Negative (input for section 5.1)N/AN/AN/AOverall assessment (input for section 5.1)Positive impactsSimplified Access for ticket vendors and EU citizens to tariffs for domestic salesAs option 1a) <u>plus</u> Negative impactsNegative impactsSimilar as Option 1aSimelified Access to Tickets for the customs Similar as Option 1aNegative impactsLimited translation costs to convert existing tariffs into a semi- formal data model which are not yet available in TAP format B1-B3 or NeTEx Lower than in Option 1aSomehow higher translation costs (compared to option 2a) due to additional conversion of ticketing information4.2.Impacts of the options (quantitative analysis)A quantitative analysis is not possible because all impacted stakehold were not able				Negative	N/A	N/A
Vendors/ RUs/Third Parties (as tariff data receiver)Impactsto process tariffs for domestic sales in their distribution systems, however they are higher than in option 1a.to process tariffs and t issue tickets for domestic sales in their distribution systems, however they are higher than in option 1b.to process tariffs and t issue tickets for domestic sales in their distribution systems, however they are higher than in option 1b.Overall assessment (input for section 5.1)N/AN/AOverall assessment (input for section 5.1)Positive impactsSimplified Access for ticket vendors and EU citizens to tariffs for domestic salesAs option 1a) <u>plus</u> Negative impactsN/ASimplified Access for ticket vendors and EU citizens to tariffs for domestic salesSimplified Access to Tickets for the custom Simplified Ticketing procedures for ticket vendorsNegative impactsLimited translation cost to convert existing tariffs into a semi- formal data model which are not yet available in TAP format B1-B3 or NETEx Lower than in Option 1aSomehow higher translation costs (compared to option 2a) due to additional conversion of ticketing information Euwer than in Option 1a4.2.Impacts of the options (quantitative analysis)A quantitative analysis is not possible because all impacted stakehold were not able4.2.Impacts of the options (quantitative analysis)A quantitative analysis is not possible because all impacted stakehold were not able				Impacts		
ImpactsImpactsAs option 1a) plusOverall assessment (input for section 5.1)Positive impactsSimplified Access for ticket vendors and EU citizens to tariffs for domestic salesAs option 1a) plusSimplified Ticketing procedures for ticket vendorsSimplified Ticketing procedures for ticket vendorsNegative impactsLimited translation costs to convert existing tariffs into a semi- formal data model which are not yet available in TAP format B1-B3 or NeTEx Lower than in Option 1aSomehow higher translation costs (compared to option tariffs into a semi- formal data model which are not yet available in TAP format B1-B3 or NeTEx Lower than in Option 1aLower than in Option 1a Lower than in Option 1a4.2.Impacts of the options (quantitative analysis)A quantitative analysis is not possible because all impacted stakehold were not able			Vendors/ RUs/ Third Parties (as tariff data		to process tariffs for domestic sales in their distribution systems, however they are higher than in option	domestic sales in their distribution systems, however they are higher than in option
assessment (input for section 5.1)impactsticket vendors and EU citizens to tariffs for domestic salesSimplified Access to Tickets for the custom Simplified Ticketing procedures for ticket vendorsNegative impactsLimited translation costs to convert existing tariffs into a semi- formal data model which are not yet available in TAP format B1-B3 or NeTEx Lower than in Option 1aSomehow higher translation costs (compared to option 1a)4.2.Impacts of the options (quantitative analysis)A quantitative analysis is not possible because all impacted stakehold were not ableA quantify additional cost impact due to translation of exist tariff data					N/A	N/A
4.2. Impacts of the options (quantitative analysis) Lower than in Option 1a Lower than in Option 1a Lower than in Option 1a 4.2. Impacts of the options (analysis) A quantitative analysis is not possible because all impacted stakehold were not able .			assessment (input for	impacts Negative	ticket vendors and EU citizens to tariffs for domestic sales Similar as Option 1a Limited translation costs to convert existing tariffs into a semi- formal data model which are not yet	Simplified Access to Tickets for the customer Simplified Ticketing procedures for ticket vendors Similar as Option 1b Somehow higher translation costs (compared to option 2a) due to additional conversion of ticketing
4.2.Impacts of the options (quantitative analysis)A quantitative analysis is not possible because all impacted stakehold were not able4.2.Impacts of the options (quantitative analysis)A quantitative analysis is not possible because all impacted stakehold were not able4.2.Impacts of the options (quantitative analysis)A quantitative analysis is not possible because all impacted stakehold were not able						Lower than in Ontion 1h
to quantify benefits resulting from an easier access to ta information and tickets (for the citizen as user of rail transp service or the transport and tariff association offering nation	4.2.	options (quantitative	A quantitative analysis is not possible because all impacted stakehold were not able to quantify additional cost impact due to translation of exist tariff data to quantify benefits resulting from an easier access to ta information and tickets (for the citizen as user of rail transp			

5. Comparison of options and preferred option

5.1. Effectiveness criterion (options' response to specific objectives)		Based on the response to th (score 1: lowe	ne specific obj	ectives (SO)	as follows	e proposed options
			1A	1B	2A	2B
		SO A	3	5	2	4
		Simplify (Allow automated) integration of tariffs for domestic sales into distribution systems of ticket vendors and RU's.				
		SO B Facilitate for the passengers the access to tariff information for domestic railway products	5	5	5	5
		SO C	3	5	3	5
		Facilitate for the passengers the purchase of national railway products (for domestic sales)				
		SO D	2	1	4	3
		Keep the cost impact for providers of tariffs for domestic sales as low as possible				
		Total	13	16	14	17
5.2.	Efficiency (NPV and B/C ratio) criterion	N/A as no qua	ntitative data	were provid	ded.	
5.3.	Summary of the comparison	model meet th	fs (Option 1B/ ne specific obj	2B) in a sen ectives in a	ni-formal and better way th	on related to harmonized data an the options to domestic tarifs.
		The reason is t information in				he ticketing ompared to the

		additional benefits concering a simplified access to tickets for the traveler.
5.4.	Preferred option(s)	The proposed option is Option 2B as it provides similar benefits as Option 1B to customers and the negative impact concerning the translation of existing domestic tariffs is reduced to a minimum due to the permission to echange tariffs in existing TAP B1-B3 standards if they cover the needed information.
5.5.	Further work required	N/A

6. Monitoring and evaluation

6.1.	Monitoring indicators	N/A
6.2.	Future evaluations	N/A