



ORR workshop

February 2019

Housekeeping & Structure of the day Pedro Abrantes (ORR)



Structure of the day

Time	Activity
10:30am –11am	 Introduction (Graham Richards, ORR) Background, structure and scope of the review (Joel Moffat, ORR) Delay attribution facts and figures (Tom Leveson-Gower, ORR)
11am – 12:15pm	 Guest presentations: Rules and governance (Mark Southon, Network Rail) Systems and process (Alex Kenney, Network Rail) An operator's perspective (Jim Pepper, LNER)
12:15pm – 1pm	Lunch
1pm – 2pm	Breakout sessions for more detailed discussions on specific areas of delay attribution (All)
2pm – 3pm	Round-up and next steps (Pedro Abrantes, ORR)







Background, structure and scope of the review Joel Moffat (ORR)



Background

- In PR18 we proposed to change the Schedule 8measure passenger operator performance, from 'TOC-on-self' delay to 'TOC-on-TOC' delay.
- Stakeholders raised several concerns with the current delay attribution process, including:
 - × issues with specific delay attribution rules;
 - × effectiveness of the governance arrangements;
 - imes effectiveness of the dispute resolution mechanisms; and
 - imes the amount of industry resources the process requires.
- We decided not to implement our Schedule 8 proposal.
- This was to allow time for the delay attribution process to be reviewed and any improvements implemented before the start of CP7.



Ultimate objective of the review

■ The ultimate objective of the delay attribution review is to:

Support improved network performance

We hope this will be achieved by:

Improving the understanding of the causes of delay Facilitating future improvements to contractual incentives Increasing industry trust and confidence in the process

Improving existing systems and processes



Other objectives of the review

- A secondary objective of this review is to improve industry efficiency. For example, by:
 - increasing transparency of delay attribution;
 - reducing the cost of the delay attribution process; and
 - reducing the scope for, and the impact of, disputes.
- However:





Plan for the structure of the review

Our proposal is for the review to be split into three stages:





Scoping stage

The purpose of the scoping stage is to:

- articulate objectives;
- establish facts;
- identify priority areas for improvement; and
- suggest potential courses of action.

This stage will be led by ORR, as part of this stage we will:

Publish letter

- We published a letter on 15 January 2019, asking for stakeholders' views on the current delay attribution process.
- It included a list of questions to give stakeholders an idea of the sort of areas we are interested in (see Annex for list of questions).
- Stakeholders have until 29 March 2019 to respond.

Stakeholder workshop

This is another opportunity for stakeholders to provide their views on the current delay attribution process.

Publish recommendations

- Based on the responses to the letter and the discussion in the workshop today we will identify the key common issues raised by stakeholders.
- We will publish our recommendations in June 2019.



Problem solving and implementation stages

- Following the publication of our recommendations in June 2019 we expect the subsequent stages of the review to be led by industry.
- To facilitate the subsequent stages of the review we envisage an industry working group being set up. The industry working could then:



The exact timing and approach for the subsequent stages of the review will be agreed with stakeholders in due course.



Scope of review

We propose to structure the review around the following three themes:



Out of scope

- Schedule 8: Any potential reforms to the functioning of Schedule 8 are out of scope of this review
- But we will feed any relevant evidence into our early thinking as part of PR23.



Guest presentations



Rules and Governance Mark Southon (Network Rail)



Delay Attribution Governance

Mark Southon Delay Attribution Specialist and Secretary to the Delay Attribution Board

Back in Time...

Where it all began...

Train Performance Measurement became contractual with Privatisation in 1994 with the introduction of: -

The Network Code (specifically Part B) which sets out the Industry requirement for the:-

- Need to identify the cause of train delays and cancellations
- Delay Attribution Board (originally 'Shadow')
- Delay Attribution Principles and Rules (nee Guide); and
- Performance Data Accuracy Code

Track Access Agreements (specifically Schedule 8) which also set out the need for identification of the incident(s) causing each minute of delay of 3 minutes and over

Delay Attribution Responsibility

'Well, it's not mine...'



But why?

Schedule 8 Responsibility

Schedule 8, Paragraph 5 defines allocation of delay responsibility (simplified):

Network Rail is responsible for: -

"circumstances within the control of Network Rail in its capacity as operator of the Network";

(whether or not Network Rail is at fault)

Operators are responsible for: -

"circumstances within the control of the Train Operator in its capacity as an operator of trains"

(whether or not the Train Operator is at fault)

There are also circumstances where responsibility can be shared:

"..affects the Network, or its operation, and prevents a Train entering or passing through a station at the time it is scheduled to do so; <u>and</u> prevents the access of passengers through the station to or from the Train;"

Contractually, attribution cannot be to Station, Depot, Terminal owners

Attribution responsibility can simply only be to 'TRACK' or 'TRAIN'

Delay Attribution Board

The Delay Attribution Board is an Industry body set up under the auspices of the Network Code and is remitted to provide guidance and assurance to the Industry on delay attribution issues.

The purpose of the Board is to Lead, Advise and Monitor on the effectiveness and accuracy of the delay attribution process and use of the Delay Attribution Principles and Rules and the Performance Data Accuracy Code.

Who are the Board?

The Board consists of the Chairman, the Board Secretary and 12 Members.

The Members are appointed as follows:

- Six Members of Network Rail
- One Member for each of the three Bands of the Franchised Passenger Classes 1 to 3
- One Member for each of the two Bands of the Non-Passenger Class (Freight)
- One Member for the Non-Franchised Passenger Class (Open Access).

Delay Attribution Principles and Rules

Previously the Delay Attribution 'Guide' – it was changed to 'Principles and Rules' in June 2017 to better reflect its contractual status as part of the Network Code.

The DAPR (and supporting Process Guides) are there to advise Industry on the correct attribution of Delay Codes and allocation of Responsibility.

Since its introduction the DAG / DAPR and supporting documents have grown to manage (and restrict) continued Industry challenges around interpretation and application.

The DAPR Statement of Good Practice sets out: -*"For all parties to work together to achieve the core objective of delay attribution – to accurately identify the Prime Cause of delay to train services for improvement purposes"*

Performance Data Accuracy Code

The Performance Data Accuracy Code provides governance and mechanisms for maintaining (and improving) reporting accuracy in TRUST by agreeing and notifying changes in standards, including the characteristics of Recording Points.

The aims of the PDAC are:-

- To define the standards of Measurements and Recording required for the Performance Monitoring System (TRUST); and
- To provide a process for managing the changes and alterations in measurement and recording.

For Your Consideration...

When is attribution inaccurate or 'wrong'?

- When it goes against the Contracts or the Principles and Rules; or
- When it goes against common sense, opinion or when it's not fair?

Is capturing accurate data for improvement purposes top of parties' priorities given what other mechanisms the data is used for?

What does Industry actually want from the data – by its nature it cannot be everything to everyone and requirements often conflict.

Does Industry really want attribution to be consistent and accurate?

If so, should there be improved control and assurance for attribution to ensure we maintain accuracy and national consistency – and who should provide / enforce it?





ORR Delay Attribution Workshop

Tuesday 19th February 2019

Alex Kenney - Network Rail Performance Process & Controls Manager



SMART- Signal Monitoring and Reporting to TRUST



- Train describers on the signalling panel transmit movement data as trains pass signals.
- The movement data is translated into a format that can be combined with the timetable data.
- The SMART processor then sends an input message to TRUST containing a time and the location it relates to.

TRUST & TRUST DA

- TRUST "Train running system TOPS" (TOPS Total Operating System) - Live mainframe system which holds train running data and compares actual to timetable. (Holds full details for 8 days, then only incidents in dispute. Feeds most of the industry systems (PSS, BUGLE etc).
- TRUST DA Delay Attribution application linked to TRUST
- Industry system which Network Rail manages on behalf of the industry
- Real time alerts (list of delays) of 3 minutes* or more automatically populate on the TRUST DA Screen for the area staff are logged onto.
- Sub-threshold delays (below 3 minutes) will be investigated and attributed to explain above threshold delays.

*Some Routes/operators alert delays of 2 Minutes but only 3 minutes and above are used in the Performance Regime.

🗸 Incident list - all zone/areas					
nc no Heading		Del	Area	TRUST section	
105611 0z57 late start crewecsfl		MU	R10	CREWE	
105722 1b28 add ledburn in ufl		M2	ROG	LEDBURNJN	TRING
104892 Lul bakerloo lates/capes 14/05		ΤX	R05	ELE&CASLT	QUEENS PK
103388 1h35 w/screen wiper fit bcs		M8	R01	BICESTNTH	QULLINGIK
097529 1e95 overtime carlisle		M8	B10	CARLISLE	
075528 T2008/69573 gl react 75524		QĽ	D12	STOKEWKJN	ABBOTWDJN
105684 5m84 pantograph fault 313104		ŤΒ	HO3	BICHMNDNL	
104878 Lorol nll ecs delays 14/05/09		τŻ	HO3	WILSDNJHL	
105579 Bdge 100b bashed hart'bry srct		XP	R18	DROITWICH	KIDDERMIN
105733 2h87 regd for 1s45 lancaster		ZZ	R10	LANCASTER	
105734 1j10 3 lost madeleyjn wellingt		TO	R03	MADELEYJN	WELLINGTN
105735 6z09 caped prstndkst		MV	R10	PRESTNDKS	
105676 2c20 unit swap bsw		MS	R18	BHAMSNOWH	
105677 6m31 wtg docs banburyrs		AB	R01	BANBURYRS	
105728 6z14 late start crewe cs	AC	R10	CREWE		
105725 1g20 foll late 1m34 to ban	ZZ	R01	AYNHO JN	BANBURY	
105720 Item 36 possession preston	16	R10	EUXTON JN	PRESTON	
105374 Bump reported up rd four ashes	IT	R03	STAFFORD	BUSHBURYJ	
104313 4171 wtg driver ss north	FE	R10	WEAVER JN	BASFDHALL	
105528 1b21 3 lost kirkhmnjn preston	00	R10	KIRKHMNJN	PRESTON	
104782 Crcl&fgw ecs shunts ban 14/05	PL	R01	BANBURY		
053002 2w69 wtg guard wolvhmptn	QQ	R03	WOLVHMPTN		
050107 2w69 wtg guard wolvhmptn	QQ	R03	WOLVHMPTN	CADUCIE	
105706 4m44 overtime kingmoor upl	FW TB	R10 R04	GRETNA JN BHAMNEWST	CARLISLE	
105664 2k11 download plt 7 new st 105703 0v60 caped wruis dep	FL	R04 R01	WRUIS DEP		
Click on incident to select, double click to amend		FL	RUI	WHUIS DEP	
JICK on incident to select, double click to amend					
		_			
🤔 Delay list					
Frain Date TRUST section Repor	U/a	Del	Description	Area	
2D83 14 WILSDNJLL HAR&WLDDC 1131	U	004			R05
1G21 14 STAFFORD BUSHBURYJ 1130	U	006			R03
1M53 14 CARLISLE PENRITH 1130	U	003			R10
1G18 14 DORRIDGE TYSELEY 1129	U	002			R18



Investigating & Attributing Delay

- 198 Train Delay Attributors (TDA) staff working 24/7 at 14 locations across the country.
 - TDA staff undergo 3 month training programme to become competent.
- Delay Attribution Principles and Rules is the 'rule book' for attribution.
- Alerts must be investigated to identify the cause before the delay is attributed to reason code and a responsible party.
- Attribution to 263 delay codes and 3160 Responsible Manager codes.

cno Heading					Area	TRUST section	
05611 0z57 late start cre	wecsfl			MU	R10	CREWE	
05722 1b28 add ledburn		M2	R06	LEDBURNJN	TRING		
	04892 Lul bakerloo lates/capes 14/05						QUEENS PK
03388 1h35 w/screen wij	03388 1h35 w/screen wiper flt bcs						
97529 1e95 overtime car	isle		M8	R10	CARLISLE		
175528 T2008/69573 ql re	act 75524			QL	D12	STOKEWKJN	ABBOT₩DJN
05684 5m84 pantograph I	fault 313104			TB	H03	RICHMNDNL	
04878 Lorol nll ecs delay	s 14/05/09			ΤZ	H03	WILSDNJHL	
05579 Bdge 100b bashed				XP	R18	DROITWICH	KIDDERMIN
05733 2h87 regd for 1s45				ZZ	R10	LANCASTER	
05734 1j10 3 lost madele				TO	R03	MADELEYJN	WELLINGTN
05735 6z09 caped prstnd				MV	R10	PRESTNDKS	
05676 2c20 unit swap bs				MS	R18		
05677 6m31 wtg docs ba				AB	R01	BANBURYRS	
05728 6z14 late start cre				AC	R10	CREWE	
05725 1g20 foll late 1m34		ZZ	R01	AYNHO JN	BANBURY		
05720 Item 36 possession		16	R10	EUXTON JN	PRESTON		
05374 Bump reported up	IT	R03	STAFFORD	BUSHBURYJ			
04313 4171 wtg driver ss		FE	R10	WEAVER JN	BASFDHALL		
05528 1b21 3 lost kirkhm		00	R10	KIRKHMNJN	PRESTON		
04782 Crcl&fgw ecs shun		PL	R01	BANBURY			
153002 2w69 wtg guard w		OQ	R03	WOLVHMPTN			
150107 2w69 wtg guard w				OQ F₩	R03	WOLVHMPTN	
105706 4m44 overtime kingmoor upl					R10	GRETNA JN	CARLISLE
05664 2k11 download plt		TB	R04	BHAMNEWST			
05703 0v60 caped wruis				FL	R01	WRUIS DEP	
lick on incident to select,	double click to a	amend					
1 0							
🕽 Delay list							
		Report		U/a	Del	Description	Area
				004			DOF
D83 14 WILSDNJLL	HAR&WLDDC	1131	U				R05
rain Date TRUST section 2083 14 WILSDNJLL 1621 14 STAFFORD	BUSHBURYJ	1130	Ū	006			R03
D83 14 WILSDNJLL							



Investigations include;

- Replay CCF, interrogation of TRUST, Tyrell, information from Controllers and Signallers, Train diagrams and Train Operator personnel.
- Responsible Manager reviews attribution, carries out further investigation and determines whether to accept or dispute.

16 minute late start at Edinburgh alerted to TDA - due to late inward stock

5 minute loss in running also alerted – due to losing path and following on time 2Y38





Investigating & Attributing Delay

2 Minutes unexplained would not be alerted but if investigated would be due to following on time 2Y38

TCTRW87 COMMAND ==	TRU	S 1	TRJE Er	nquiry	Output	15/	02/19	13:26	Р	age 1
TRUST Repo	ort for		cain 041V52 25 15/02/1		Recvry Time	Min Lat	utes e	Delay mins	exp	Unexpl
		at	EDINBURGH	04303		16		16	16	
EDINBURGH	04303	to	MNKTNHALJ	04730		18		2		2
MNKTNHALJ	04730	to	DREM	04821		22		5	5	
DREM	04821	to	DUNBAR	04827		22				
DUNBAR	04827	to	GRANTSHSE	04834		21				
GRANTSHSE	04834	to	MARSHALLM	04838	1	20				
MARSHALLM	04838	to	BERWICK	12001		21	arr			
		at	BERWICK	12001		21				
BERWICK	12001	to	BELFCRD	12106		21				
BELFORD	12106	to	ALNMOUTH	12112		21	arr			
		at	ALNMOUTH	12112		22				
ALNMCOTH	12112	to	MORPETH	12132		22	arr			
		at	MORPETH	12132		25				
MORPETH	12132	to	HEATONSJN	12710		22				
HEATONSJN	12710	to	NCASTLCEN	12931		22	arr			





Investigating & Attributing Delay

- Other 1 minute unexplained delay again not alerted.
 - Possibly station dwell time issues.

TCTRW87 T R U S T TRJE Enquiry Output	15/02/19	13:26	Page	
COMMAND ==>				
TRUST Report for Train 041V52M615 Recvry	Minutes	Delay	exp Une>	<pl< td=""></pl<>
Delay Status at 13:25 15/02/19 Time	Late	mins		
at EDINBURGH 04303	16	16	16	
EDINBURGH 04303 to MNKTNHALJ 04730	18	2	2	2
MNKTNHALJ 04730 to DREM 04821 1	22	5	5	
DREM 04821 to DUNBAR 04827	22			
DUNDAR 04827 to GRANTSHSE 04834	21			
GRANTSHEE 04834 to MARSHALLM 04838 1	20			
MARSHALLM 04838 to BERWICK 12001	21 arr	1		L
at BERWICK 12001	21			
BERWICK 12001 to BELFORD 12106	21			
BELFORD 12106 to ALNMOUTH 12112	21 arr			
at ALNMOUTH 12112	22		1	L
ALNMOUTH 12112 to MORPETH 12132	22 arr			
at MORPETH 12132	25			
MORPETH 12132 to HEATONSJN 12710 1	22			
HEATONSJN 12710 to NCASTLCEN 12931	22 arr			

Un-investigated and Unexplained delay is an industry wide issue which has received negative publicity in recent weeks.





Workload

> 5,384,092 Delay Alerts in the 13 Periods up to P10 2018/19

- > Over a million more than 6 years ago
- A 24% Increase nationally with some Routes experiencing much higher increases
- > 75% of delay alerts are reactionary delays



Important to remember that it isn't a uniform increase across the Routes and on any given day.

Also that it isn't Delay Attribution that is driving this – Delay Attribution isn't to blame!



Delay Alerts & Performance

There is a clear correlation between Delay Attribution & Performance.....





Route Workload – 7th and 8th February 2019



DA capacity (the amount of time rostered v's the volume of work) moves from being in surplus on the Thursday to a deficit on the Friday....

estered v's the in surplus on iday....



Summary

- TRUST has worked well since privatisation.
- Volumes of delay alerts and incidents are at an all time high.
- There has been a linear increase in the number of disputes – they too are at an all time high.
- Not all disputes should be seen as a negative but as a means of data quality and assurance.
- More staff isn't necessarily the answer.
- DA gets a lot of bad press but its not all bad!

We can and should improve areas such as....

- Information flows and communication.
- Remove nuances in the DAPR the size of a bird!
- How we allocate delay, particularly reactionary delays. For example..
 - Automation and hard coding resulting in...
 - A huge reduction in workload & therefore pressure on personnel.
 - A reduction in disputes.
 - More sub-thresholds delays attributed.

Finally, we need to maintain accurate DA to drive performance improvement.



An operator's perspective Jim Pepper (LNER)



Breakout sessions



Breakout session discussions

Governance

This covers governance structures, including ownership of delay attribution systems and dispute resolution powers and procedures.

Principles and rules of delay attribution

This area covers issues with specific rules and definitions.

Processes, systems and ways of working

This is related to the processes and systems used to measure delay on the network and provide information underpinning the delay attribution process.

Questions to consider

- What do you want out of delay attribution? How well does the current framework meet those objectives?
- If there was one DA rule you could change, what would it be?
- How satisfied are you with the existing dispute resolution procedures?
- Do you consider the current delay attribution systems to be sufficiently accurate?
- Do you consider the resources allocated to delay attribution to be proportionate to industry benefits?
- Can you tell us of any specific proposals that you believe would improve delay attribution?



Round-up and next steps Pedro Abrantes (ORR)



Next steps

Below sets out the immediate next steps in the delay attribution review.





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