Fares and Associated Data Feed Interface Specification

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Rail Delivery Group

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Version History

Version	Date	Author	Comments
00-00-A	28-Mar-2014	Edna Kelly	First draft
00-00-B	21-May-2014	Edna Kelly	Reviewed by iBlocks JIRA STD-611 Copyright text to be added addressed
00-00-C	28-May-2014	Neil Barkham	Internal review
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01-00-A	21-Jul-2016	Edna Kelly	Next Review Date Reached Railcard Field 21 MAX_CHILDREN and Field 22 MIN_CHILDREN incorrect description amended from "adult" to "children" JIRA STD-821 Possible errors in document
01-00-B	19-Jan-2017	Phil Swain	Updates to reflect the implementation of PMS and the close down of the Fares service.
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Release Control

The following personnel must formally approve the document prior to assigning a non-draft version number.

Organisation	Role	Name
RSF	Approval of Standards	Retail Systems Forum
RDG	Document Owner	Compliance Standards

Distribution

Organisation	Role	Name
TIS Suppliers	N/A	N/A
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Glossary

Term	Meaning
ATB	Automated ticket and boarding pass
CAPRI	Computer Analysis of Passenger Revenue Information - Heritage settlement system
CIF	Common Interface File
DTD	Data Transformation and Distribution
FTP	File Transfer Protocol
LUL	London Underground Limited
NLC	National Location Code
NRS	National Reservation System
PMS	Product Management System
RDG	Rail Delivery Group
RJIS	Rail Journey Information Service
SFTP	Secure File Transfer Protocol
TOC	Train Operating Company
UIC	Union International de Chemin de Fer
UTS	Underground Ticketing System

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1. Introduction

1.1   This document describes in detail the Data Feed for the extraction of Fares information from the Data Transformation and Distribution Service (DTD). The DTD is a service owned by RDG. The service is built and supported by iBlocks.

1.2   The Scope of this document is the interface specification of Fares Data feeds provided by the DTD Service which is a like for like replacement of the RJIS Data Factory.

1.3   This document describes the file structure of all the Fare Files of the Fares Feed and provides technical details of how these files are made available to registered recipients of the data.

1.4   The DTD Service is responsible for managing and distributing other Data Feeds and the following documents describe the interfaces:

- RSPS5046 - Timetable Information Data Feed Interface Specification
- RSPS5047 - National Routing Guide Data Feed Interface Specification

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1.5   The diagram below is an overview of the 'Feed Processing and Transformation Service', which transforms the imported feed data and generates output feed files. The output feed files are distributed to those registered Data Feed recipients with appropriate entitlements via SFTP Pull, FTP Push or SFTP Push. The Data Feeds contain an approved set of files.

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2. Structure

2.1   Data Feeds are delivered in fixed format flat text files. Some files contain several record types.

2.2   The following export file types are defined for the Fares feed (where *t* indicates whether the file contains a full refresh or changes only (values are F or C) and *nnn* is a sequence number defined by the file's exporter):

File type	Contents	Daily Recipient Changes only	Typical Size (full file)	Generic filename
Flow file	Point to point adult fares in a clustered format.	Yes	100Mb	RJFA*tnnn*.FFL
Station Cluster file	Lists the station clusters, and the locations included in each of the clusters.	Yes	340Kb	RJFA*tnnn*.FSC
Non-derivable fares file	Point to point adult and child fares, including those fares which cannot be discounted in the normal way, or special offer fares which are not included in the Flow file. This file is largely obsolete and will contain a single record to support legacy TIS.	No	1Kb	RJFA*tnnn*.NDF
Non-derivable fare overrides file	Amendments to the records in the non-derivable fares file, including additions, deletions and replacements. See 4.3.1 for more information.	Yes	50Mb	RJFA*tnnn*.NFO
Non-Standard discounts file	Adjustments to be applied to fares where non-standard discounts apply. Details of these adjustments and the flows, routes, railcards and tickets to which they should be applied are included in this file.	Yes	6Mb	RJFA*tnnn*.FNS
Ticket types file	Ticket codes, their type, class and other ticketing information.	Yes	130Kb	RJFA*tnnn*.TTY
Ticket validity file	Validity codes and details of the period of validity for tickets.	No	9Kb	RJFA*tnnn*.TVL
Journey segments file	Contains codes used for LUL magnetic stripe encoding.	No	5.5Kb	RJFA*tnnn*.TJS
Ticket publication data file	Contains ordering information for tickets when published in the National Fares Manual. With the introduction of PMS, this file no longer contains data for ordering.	No	0.6Kb	RJFA*tnnn*.TPB
Print formats file	Contains details of the text to be printed on supplement vouchers.	Yes	40Kb	RJFA*tnnn*.TPN
Class Legends file	Contains the class text to be printed on ATB or credit card sized tickets.	No	0.1Kb	RJFA*tnnn*.TCL
Rail Rovers file	Rail Rovers and price details.	No	50Kb	RJFA*tnnn*.TRR
Packages file	Packages and the details of the inclusive supplements.	No	14Kb	RJFA*tnnn*.TPK
Supplements file	Supplement rules and supplements.	Yes	115Kb	RJFA*tnnn*.SUP
Railcards file	Railcards and associated information.	No	16Kb	RJFA*tnnn*.RLC
Railcard Minimum Fares file	Railcard minimum fares to be charged when certain restrictions apply.	No	2Kb	RJFA*tnnn*.RCM
Status Discounts file	Discount information used to discount child fares, or fares where a railcard is used.	No	85Kb	RJFA*tnnn*.DIS

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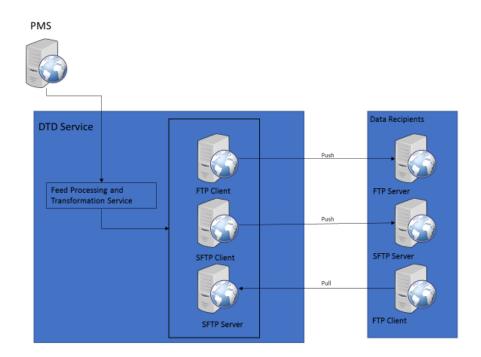| File type	Contents	Daily Recipient Changes only	Typical Size (full file)	Generic filename
Rounding rules	Rounding rules to be used when fares in the flow file are subject to a discount, e.g. when a child fare or a fare with a railcard is calculated.	No	14Kb	RJFA*tnnn*.FRR
Restrictions file	Applicable restrictions, including train restrictions, time restrictions, railcard restrictions and ticket calendars.	Yes	4Mb	RJFA*tnnn*.RST
Locations file	Locations, including group locations.	Yes	3.8Mb	RJFA*tnnn*.LOC
Routes file	Route descriptions and the locations which are included or excluded from the route.	Yes	260Kb	RJFA*tnnn*.RTE
TOC file	TOC codes and descriptions.	No	1Kb	RJFA*tnnn*.TOC
TOC Specific Tickets file	Contains details of tickets which are available on the trains of particular TOCs only	No	5Kb	RJFA*tnnn*.TSP
Advance Purchase Tickets file	Contains details of tickets which are advance purchase, and their booking horizon.	No	2Kb	RJFA*tnnn*.TAP
Fares Data Feed file	Contains a list of the files generated by the Fares Data feed process for this export run.	No	1Kb	RJFA*tnnn*.DAT

2.3   If the file is a full refresh, it will contain all records from the DTD Service. For 'changes only' files the file will normally contain the appropriate Insert/Amend/Delete records. Note that if a 'changes only' file is requested, but the records in the file have been superseded (for example, when there is a fares setting round), then the 'changes only' file may contain a full set of Refresh records. Weekly and monthly recipients receive all files as a full refresh.

2.4   Not all files are available as 'changes only' updates. Those which contain fewer than 250 records, or are updated very infrequently will be supplied as a 'full refresh' file when any of the related database tables are updated.

2.5   The 'Fares Data Feed' file contains a list of all the files which have been generated with the latest sequence number. Each time a set of Data Feed files is produced, the sequence number is incremented.

2.6   The format of the files for the Fares Data Feed is defined in the next section. These have taken into account all the necessary standards.

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3. Key Technical Details

3.1 Output from the Fares Data Feed will comprise a number of separate files containing data records. Each file will comprise an informational header, followed by an ordered sequence of records, followed by a terminator. The records are fixed format; each record contains fields of the length described in the body of this document.

3.2 Every line of every file will be either a comment (introduced by a leading '/' character) or a record. Every file will commence with the following sequence of comments:

```
/!! Start of file
/!! Content type:  type
/!! Sequence:      nnn
/!! Records:       nnnnnnn
/!! Generated:     dd/mm/yyyy
/!! Exporter:      DTD_module version
```

where *type* matches the file extension as per the table in section 2.2.

3.3 The sequence number listed in the header will match that in the filename; the number of records reported will not include comments.

3.4 Every file will terminate with a comment of the form:

```
/!! End of file (dd/mm/yyyy)
```

to provide some protection against inadvertent file truncation.

3.5 The file which contains details of the files sent will also include these comments. Each non-comment record in this file will contain an export filename (as shown in the table in section 2.2).

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4. File Types

4.1 File: FLOW

4.1.1 Description

4.1.1.1 Domestic non-discounted adult fares between all points on the network, where set.

4.1.1.2 The file contains 2 record types; 'Flow' records and 'Fare' records.

4.1.1.3 Rate of change: Possibly daily.

4.1.2 Flow record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE-MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'F'.
Y	3	ORIGIN_CODE	4	3-6	A code representing the flow origin (4 digit NLC code, county code, zone code). This may be a cluster NLC, in which case this flow applies to all stations in the cluster. Where DIRECTION = 'R' then this flow may also be used for fares in the reverse direction, in which case ORIGIN-CODE should be used as DESTINATION-CODE in the reverse direction.
Y	4	DESTINATION_CODE	4	7-10	A code representing the flow destination (4 digit NLC code or county code). This may be a cluster NLC, in which case this flow applies to all stations in the cluster. Where DIRECTION = 'R' then this flow may also be used for fares in the reverse direction, in which case DESTINATION-CODE should be used as ORIGIN-CODE in the reverse direction.
Y	5	ROUTE_CODE	5	11-15	Route code.
Y	6	STATUS_CODE	3	16-18	3-digit status code. This value is used to indicate the status for which the fares on the record apply. Status code for adult fare is '000'.
Y	7	USAGE_CODE	1	19-19	Permitted values are 'G' or 'A'. 'A' indicates that this is an actual fare set for this flow. 'G' indicates that the flow has been constructed by concatenating two or more other flows (flows produced by agreements). Note: The change in permitted values ('C' records are no longer created) takes effect when PMS becomes the primary data distributer.
Y	8	DIRECTION	1	20-20	Values are either 'S' to indicate that the fare applies in a single direction, or 'R' to indicate that the fare applies in both directions (it is reversible).
Y	9	END_DATE	8	21-28	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	10	START_DATE	8	29-36	First date for which this record can be used. Format is ddmmyyyy.
	11	TOC	3	37-39	The Fare TOC code of the TOC setting the fares on the flow.
	12	CROSS_LONDON_IND	1	40-40	Values are '0' to indicate not via London, '1' to indicate via London including Underground, '2' to indicate via London excluding Underground, '3' to indicate via Thameslink.

	13	NS_DISC_IND	1	41-41	Indicates whether non-standard discounts apply to the fares on this flow. '0' = Railway flow, standard discounts to apply '1' = Railway flow, non-standard discounts apply '2' = Private settlement, standard discounts apply '3' = Private settlement, non-standard discounts apply
	14	PUBLICATON_IND	1	42-42	Values 'Y' or 'N' to indicate whether or not the fares on this flow are published in the National Fares Manual.
	15	FLOW_ID	7	43-49	Uniquely identifies this flow.

4.1.3 Fare record

4.1.3.1 Fare records are linked to the associated flow record using the FLOW_ID field.

Key	Field	Field Name	Length	Position	Description
	1	UPDATE-MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'T'.
Y	3	FLOW_ID	7	3-9	Uniquely identifies the flow to which the fare pertains.
Y	4	TICKET_CODE	3	10-12	3-character ticket code for the fare.
	5	FARE	8	13-20	Fare in pence.
	6	RESTRICTION_CODE	2	21-22	Restriction code associated with this fare.

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4.2 File: STATION CLUSTERS

4.2.1 Description

4.2.1.1 Cluster codes, and the stations included in the station cluster.

4.2.1.2 Rate of change: Approximately 15 times per year.

4.2.2 Station Clusters record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE-MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	CLUSTER_ID	4	2-5	4-character code (alphanumeric) representing the NLC code at which the cluster fares are set.
Y	3	CLUSTER_NLC	4	6-9	NLC code of a location which is a member of the cluster (it may also be a zone code or a county code). The fares for this location may be set using the Cluster NLC instead of this NLC. A member may exist in several clusters.
Y	4	END_DATE	8	10-17	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	5	START_DATE	8	18-25	First date for which this record can be used. Format is ddmmyyyy.

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4.3 File: NON DERIVABLE FARES

4.3.1 Description

4.3.1.1 Domestic non-derivable fares, i.e. those which are not included in the flow file, and those which cannot be discounted in the normal way.

4.3.1.2 Rate of change: 3 times per year.

4.3.1.3 There are 2 types of non-derivable fare files – non-derivable fares file (NDF) and non-derivable overrides file (NDO).

4.3.1.4 Historically, non-derivable fares were sent out as static data once per fares setting round and any changes (additions, amendments and deletions) were sent out as NDO records. NDO records always take precedence to NDF files.

4.3.1.5 With the introduction of PMS (replacement for the Fares service) non-derivables will be handled entirely as NDO records. However, in order to protect legacy systems that expect to receive both files the NDF file will still be distributed with a single record within. It is not essential to use this file as the record will be reproduced in the NDO file as well.

4.3.1.6 Please note that delete records will not be issued when non-derivable fares reach their WEU data unless they are specifically deleted by the data owner. Therefore, the WEU date should be used as the end date for retailing these products.

4.3.2 Non Derivable Fares record

4.3.2.1 As described in 4.3.1 this file is now largely obsolete and will contain only a single record to support legacy TIS.

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Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	This file is always supplied as a full file refresh. All update markers in the file will be set to 'R'.
Y	2	ORIGIN_CODE	4	2-5	A code representing the flow origin, either NLC, Location Zone No or Location County.
Y	3	DESTINATION_CODE	4	6-9	A code representing the flow destination, either NLC or Location County. Does not include a Location Zone No.
Y	4	ROUTE_CODE	5	10-14	5-digit route code.
Y	5	RAILCARD_CODE	3	15-17	Railcard code. May be spaces if the non-derivable fare applies without a railcard discount.
Y	6	TICKET_CODE	3	18-20	Fare ticket code.
Y	7	ND_RECORD_TYPE	1	21-21	Value = 'N', to indicate a non-derivable fare record.
Y	8	END_DATE	8	22-29	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date. Subject to above Capping Rules.
	9	START_DATE	8	30-37	First date for which this record can be used. Format is ddmmyyyy. Subject to above Capping Rules.
	10	QUOTE_DATE	8	38-45	First date on which this record can be used for queries. Format is ddmmyyyy.
	11	SUPPRESS_MKR	1	46-46	Value = 'N'. The suppress marker is only used in the non-derivable fare overrides file.
	12	ADULT_FARE	8	47-54	An 8-character numeric fare value, in pence. 99999999 indicates that no adult fare is available for the ticket/railcard combination.
	13	CHILD_FARE	8	55-62	An 8-character numeric fare value, in pence. 99999999 indicates that no child fare is available for the ticket/railcard combination.
	14	RESTRICTION_CODE	2	63-64	2-character restriction code; may be spaces.
	15	COMPOSITE_INDICATOR	1	65-65	A single character, either Y or N. If this value is set to Y, then this record should be used when calculating fares. Otherwise this record should not be used, as the fare is already included in the flow file.
	16	CROSS_LONDON_IND	1	66-66	Indicates whether this is a cross London fare (Y or N).
	17	PS_IND	1	67-67	Indicates whether private settlement applies to this fare (Y or N).

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4.4 File: NON DERIVABLE FARE OVERRIDES

4.4.1 Description

4.4.1.1 Overrides to domestic non-derivable fares. This file contains records in the same format as those in the non-derivable fares file.

4.4.1.2 As described in 4.3.1 above, this file will contain all non-derivable fares and will be the primary source of non-derivable data. It will contain, new non-derivable fares (add records), replacement records and delete records where the fare has been specifically deleted by the data owner. A delete record will not be issued when a non-derivable fare has reached its WEU date unless it is specifically deleted by the data owner.

4.4.1.3 Rate of change: Possibly daily.

4.4.2 Date Capping Rules

4.4.2.1 Fares dates will be adjusted, where necessary, according to the date capping rules specified below, to ensure fares are not duplicated and are contiguous across Current and Future fares rounds.

4.4.2.2 There will be no consequences for data feed recipients, other than an improvement in data integrity. In particular, because the Future Fares round end date is 'open ended', future fares will not be subject to capping. Capping of Current fares will only occur between the receipt of Future Fares (PD1[1]) and the date at which Future fares are switched to become Current, although adjustment of start dates would still apply outside this period.

4.4.2.3 The following are the capping rules, as agreed with RDG:

- Fares END_DATEs which fall after the 'End Date' of the Fares Round to which they belong, will be capped to the Fares Round 'End Date'.
- Fares END_DATEs which fall on or before the 'End Date' of the Fares Round to which they belong will not be adjusted.
- Fares START_DATEs which fall before the 'Start Date' of the Fares Round to which they belong will be increased to the Fares Round 'Start Date'.
- Fares START_DATEs which fall on or after the 'Start Date' of the Fares Round to which they belong will not be adjusted.
- Fares with START_DATEs which fall after the 'End Date' of the Fares Round to which they belong will not be extracted to avoid duplication of the corresponding Future fare.

4.4.2.4 N.B. Success of the above rules is dependent upon the integrity of data supplied to iBlocks. Total absence of duplicates cannot be guaranteed where unexpected data conditions arise such as Current and Future 'Date Indexes' resolving to a common date.

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[1] PD1 means the date when the full refresh is published following a fares setting round.

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4.4.3 Non Derivable Fares Overrides record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	ORIGIN_CODE	4	2-5	A code representing the flow origin, either NLC, Location Zone No or Location County.
Y	3	DESTINATION_CODE	4	6-9	A code representing the flow destination, either NLC or Location County. Does not include a Location Zone No.
Y	4	ROUTE_CODE	5	10-14	5-digit route code.
Y	5	RAILCARD_CODE	3	15-17	Railcard code. May be spaces if the non-derivable fare applies without a railcard discount.
Y	6	TICKET_CODE	3	18-20	Fare ticket code.
Y	7	ND_RECORD_TYPE	1	21-21	Value = 'O' (override). There will not necessarily be an N type record in the non-derivable fares file for each O type record (overrides are also used to add new non-derivable fares).
Y	8	END_DATE	8	22-29	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	9	START_DATE	8	30-37	First date for which this record can be used. Format is ddmmyyyy.
	10	QUOTE_DATE	8	38-45	First date on which this record can be used for queries. Format is ddmmyyyy.
	11	SUPPRESS_MKR	1	46-46	This field is obsolete and is always set to N
	12	ADULT_FARE	8	47-54	An 8-character numeric fare value, in pence. 99999999 indicates that no adult fare is available for the ticket/railcard combination.
	13	CHILD_FARE	8	55-62	An 8-character numeric fare value, in pence. 99999999 indicates that no child fare is available for the ticket/railcard combination.
	14	RESTRICTION_CODE	2	63-64	2-character restriction code; may be spaces.
	15	COMPOSITE_INDICATOR	1	65-65	A single character, either 'Y' or 'N'. If this value is set to 'Y', then this record should be used when calculating fares. Otherwise this record should not be used, as the fare is already included in the flow file.
	16	CROSS_LONDON_IND	1	66-66	Indicates whether this is a cross London fare ('Y' or 'N').
	17	PS_IND	1	67-67	Indicates whether private settlement applies to this fare ('Y' or 'N').

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4.5 File: NON STANDARD DISCOUNTS

4.5.1 Description

4.5.1.1 This file contains the add-on amounts for domestic fares where non-standard discounts apply. It is not used for non-discounted adult fares, which are included in the flow file.

4.5.1.2 Where a discounted fare is required, and the entry in the flow file has the marker set to indicate that non-standard discounts apply, then this file is used when calculating the fare. The non-standard discount record contains an alternative origin or destination code for which a fare should be calculated, and an add-on amount to be added to the alternative fare to produce the fare required.

4.5.1.3 Rate of change: Approximately 30 times per year.

4.5.2 Non Standard Discounts record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	ORIGIN_CODE	4	2-5	A code representing the flow origin, either NLC, Location Zone No or Location County, or '****' (4 asterisks). '****' indicates that this record applies from all origins to the destination supplied in the destination code, except where a record exists for an explicit origin.
Y	3	DESTINATION_CODE	4	6-9	A code representing the flow destination, either NLC or Location County, or '****' (4 asterisks). '****' indicates that this record applies to all destinations from the origin supplied in the origin code, except where a record exists for an explicit destination.
Y	4	ROUTE_CODE	5	10-14	Contains either a 5-digit route code or '*****' (5 asterisks). '*****' indicates that this record applies to all routes between the origin and destination, except where a record exists for an explicit route.
Y	5	RAILCARD_CODE	3	15-17	Contains a railcard code, or 3 spaces or '***' (3 asterisks). '***' indicates that this record applies to all railcards, except where a record exists for an explicit railcard. 3 spaces indicates that this record should be used where no railcard is required for the fare calculation (e.g. when calculating a child fare).
Y	6	TICKET_CODE	3	18-20	Contains a ticket code, '***' (3 asterisks). '***' indicates that this record applies to all tickets, except where a record exists for an explicit ticket.
Y	7	END_DATE	8	21-28	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	8	START_DATE	8	29-36	First date for which this record can be used. Format is ddmmyyyy.
	9	QUOTE_DATE	8	37-44	First date on which this record is available for query. Format is ddmmyyyy.

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Key	Field	Field Name	Length	Position	Description
	10	USE_NLC	4	45-48	The NLC code to be used to find an alternative fare. The add-on amount will be added to this alternative fare to produce the fare price. This field will contain spaces if ADULT_NODIS_FLAG is 'X' and CHILD_NODIS_FLAG is 'X'.
	11	ADULT_NODIS_FLAG	1	49-49	Indicates whether the adult add on should be applied. 'N' indicates that the adult fare should be calculated as normal (i.e. this non-standard discount record can be ignored for the adult fare), and no add-on amount is to be added. 'X' indicates that no adult fare can be calculated. 'D' indicates that a discounted adult fare cannot be calculated. A space indicates that the adult fare should be calculated using the USE_NLC, and the add-on amount added.
	12	ADULT_ADD_ON_AMOUNT	8	50-57	The add-on amount, in pence, to be added to adult fares, if applicable. Contains spaces if the ADULT_NODIS_FLAG is not space, or if the ADULT_REBOOK_FLAG is 'Y' or 'S'.
	13	ADULT_REBOOK_FLAG	1	58-58	Values are 'N', 'Y' or 'S'. If the adult rebook flag is set to 'Y' or 'S', then no fare can be calculated. The rebook values are used to determine which rebook message is output to the end user. 'Y' indicates that a ticket should be issued to the interchange, and the customer should be advised to rebook. 'S' indicates that a separate ticket should be issued for the Rail and Private Settlement portions of the journey. Note that if adult and child fares are required, but the adult and child rebook flags are different, then the customer should be referred to paper based documentation.
	14	CHILD_NODIS_FLAG	1	59-59	Indicates whether the child add on should be applied. 'N' indicates that the child fare should be calculated as normal (i.e. this non-standard discount record can be ignored for the child fare), and no add-on amount is to be added. 'X' indicates that no child fare can be calculated. 'D' indicates that a discounted child fare cannot be calculated. A space indicates that the child fare should be calculated using the USE_NLC, and the add-on amount added.
	15	CHILD_ADD_ON_AMOUNT	8	60-67	The add-on amount, in pence, to be added to child fares, if applicable. Contains spaces if the CHILD_NODIS_FLAG is not space, or if the CHILD_REBOOK_FLAG is 'Y' or 'S'.
	16	CHILD_REBOOK_FLAG	1	68-68	Values are 'N', 'Y' or 'S'. If the child rebook flag is set to 'Y' or 'S', then no fare can be calculated. The rebook values are used to determine which rebook message is output to the end user (see ADULT_REBOOK_FLAG).

4.6 File: TICKET TYPES

4.6.1 Description

4.6.1.1 This file contains details of all the ticket codes included in the flow file and the non-derivable fares overrides file.

4.6.1.2 Rate of change: Approximately 4 times per week.

4.6.2 Ticket Types record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	TICKET_CODE	3	2-4	Alphanumeric ticket code.
Y	3	END_DATE	8	5-12	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	4	START_DATE	8	13-20	First date for which this record can be used. Format is ddmmyyyy.
	5	QUOTE_DATE	8	21-28	First date on which this record can be queried. Format is ddmmyyyy.
	6	DESCRIPTION	15	29-43	Ticket description.
	7	TKT_CLASS	1	44-44	Ticket class, currently '1', '2' or '9'.
	8	TKT_TYPE	1	45-45	Ticket type; single, return or season ('S', 'R' or 'N').
	9	TKT_GROUP	1	46-46	Ticket group; First, Standard, Promotion or Euro ('F', 'S', 'P' or 'E').
	10	LAST_VALID_DAY	8	47-54	Last date on which travel using this ticket is valid. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	11	MAX_PASSENGERS	3	55-57	Defines the maximum number of passengers who can travel on one ticket.
	12	MIN_PASSENGERS	3	58-60	Defines the minimum number of passengers who can travel on one ticket.
	13	MAX_ADULTS	3	61-63	Defines the maximum number of adults who can travel on one ticket.
	14	MIN_ADULTS	3	64-66	Defines the minimum number of adults who can travel on one ticket.
	15	MAX_CHILDREN	3	67-69	Defines the maximum number of children who can travel on one ticket.
	16	MIN_CHILDREN	3	70-72	Defines the minimum number of children who can travel on one ticket.
	17	RESTRICTED_BY_DATE	1	73-73	'Y' or 'N' to indicate whether the ticket is restricted to particular dates.
	18	RESTRICTED_BY_TRAIN	1	74-74	'Y' or 'N' to indicate whether the ticket is restricted to particular trains.
	19	RESTRICTED_BY_AREA	1	75-75	'Y' or 'N' to indicate whether the ticket is restricted to a particular area.
	20	VALIDITY_CODE	2	76-77	Validity code.
	21	ATB_DESCRIPTION	20	78-97	Description to be printed on ATB (airline) type tickets.
	22	LUL_XLONDON_ISSUE	1	98-98	Number of gate passes to issue. Permitted values are '0', '1' or '2'.

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Key	Field	Field Name	Length	Position	Description
	23	RESERVATION_REQUIRED	1	99-99	Indicates whether reservation is required when using this ticket. Values are 'N' (no), 'O' (reservation required on outward journey), 'R' (reservation required on outward journey), 'B' (reservation required on both outward and return journey), 'E' (reservation required either outward or return journey).
	24	CAPRI_CODE	3	100-102	CAPRI code.
	25	LUL_93	1	103-103	Used for ticket issue. This field is used when encoding the end date of the ticket. Valid values are 'Y' and 'N', but please note that this information is supplied from the source system, and is not validated by DTD.
	26	UTS_CODE	2	104-105	Used in LUL magnetic stripe encoding to indicate the ticket type (e.g. '98' = season). Permitted values are ' 0', '00', '01', '04', '29' or '98'.
	27	TIME_RESTRICTION	1	106-106	Contains a numeric value recognised by the underground gate to indicate the earliest time at which the gate can be operated with this ticket. Permitted values are '0', '1', '2' or '3'. Used in magnetic stripe encoding.
	28	FREE_PASS_LUL	1	107-107	Used for package fares only. Indicates whether 'free passengers' in the package get LUL travel included as part of the package. Permitted values are 'Y', 'N' or space if the ticket type is not a package. Note – this field is obsolete and will always be set to space for new ticket type records.
	29	PACKAGE_MKR	1	108-108	Indicates whether this ticket is a package. 'N' = Not a package, 'S' = Supplements package, 'F'= Fares package, 'P' = both fares and supplements package.
	30	FARE_MULTIPLIER	3	109-111	Multiplication factor used when calculating package fares.
	31	DISCOUNT_CATEGORY	2	112-113	Discount category. Used when a ticket is discounted to find the discount amount in the appropriate railcard's status discount record.

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4.7 File: TICKET VALIDITY

4.7.1 Description

4.7.1.1 This file contains details of the validity periods for particular ticket types.

4.7.1.2 Rate of change: Approximately once per month.

4.7.2 Ticket Validity record

Key	Field	Field Name	Length	Position	Description
Y	1	VALIDITY_CODE	2	1-2	A 2-digit validity code.
Y	2	END_DATE	8	3-10	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	3	START_DATE	8	11-18	The First date for which this record can be used. Format is ddmmyyyy.
	4	DESCRIPTION	20	19-38	Textual description of the Validity.
	5	OUT_DAYS	2	39-40	Numeric value 0-30. Indicates the number of days outward validity, i.e. the ticket can be used for n days for outward travel.
	6	OUT_MONTHS	2	41-42	Numeric value 0-12. Indicates the number of months outward validity, i.e. the ticket can be used for n months for outward travel.
	7	RET_DAYS	2	43-44	Numeric value 0-30. Indicates the number of days return validity, i.e. the ticket can be used for n days for return travel.
	8	RET_MONTHS	2	45-46	Numeric value 0-12. Indicates the number of months return validity, i.e. the ticket can be used for n months for return travel.
	9	RET_AFTER_DAYS	2	47-48	Numeric value 0-30. Indicates the number of days which must elapse before a return journey is permitted, from the outward travel date.
	10	RET_AFTER_MONTHS	2	49-50	Numeric value 0-12. Indicates the number of months which must elapse before a return journey is permitted, from the outward travel date.
	11	RET_AFTER_DAY	2	51-52	Permitted values are 'MO', 'TU', 'WE', 'TH', 'FR', 'SA', 'SU' or spaces. Indicates that return travel is not permitted until the day specified has passed. Spaces indicate that this is not relevant.
	12	BREAK_OUT	1	53-53	Indicates whether a break of journey is permitted on the outward journey. Permitted values are 'Y' or 'N'.
	13	BREAK_RTN	1	54-54	Indicates whether a break of journey is permitted on the return journey. Permitted values are 'Y' or 'N'.
	14	OUT_DESCRIPTION	14	55-68	Short description of outward validity, printed on the ticket. Spaces permitted.
	15	RTN_DESCRIPTION	14	69-82	Short description of return validity, printed on the ticket. Spaces permitted.

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4.8 File: JOURNEY SEGMENTS

4.8.1 Description

4.8.1.1 This file contains codes used in deriving part of the LUL magnetic encoding for season tickets.

4.8.1.2 Rate of change: Approximately 3 times per year.

4.8.2 Journey Segments record

Key	Field	Field Name	Length	Position	Description
Y	1	JS_CODE	3	1-3	Journey segment identifier.
Y	2	END_DATE	8	4-11	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	3	START_DATE	8	12-19	The first date on which this record can be used. Format is ddmmyyyy.
	4	LINE	3	20-22	Values 000-127 used in LUL magnetic stripe encoding.
	5	START	2	23-24	Values 00-31 used in LUL magnetic stripe encoding.
	6	END	2	25-26	Values 00-31 used in LUL magnetic stripe encoding.

4.9 File: TICKET PUBLICATION

4.9.1 Description

4.9.1.1 This file contains ordering information for tickets published in the National Fares Manual.

4.9.1.2 Rate of change: - Approximately once per month.

4.9.1.3 With the introduction of PMS this file is effectively obsolete as all records contain 099 for the PUBLICATION_SEQUENCE field.

4.9.2 Ticket Publication record

Key	Field	Field Name	Length	Position	Description
Y	1	TICKET_CODE	3	1-3	Ticket code.
	2	PUBLICATION_SEQUENCE	3	4-6	Numeric value to indicate the order in which this ticket is to be published in the National Fares Manual. Note – this now obsolete and will always be set to 099.

4.10 File: PRINT FORMATS

4.10.1 Description

4.10.1.1 This file contains text to be printed on tickets issued for supplements or other supplementary vouchers, up to 5 lines of text per voucher.

4.10.1.2 The file contains 2 record types; the 'Pointer' records and 'Text' records.

4.10.1.3 Rate of change: Approximately 5 times per month (see note in 4.10.1.4).

4.10.1.4 Note: Print Format data is deprecated in PMS and therefore its contents will not change. The file as supplied during the data migration will be produced for legacy compatibility purposes only. The file shall only be created when PMS distributes a 'Full Refresh' of the Data Feed.

4.10.2 Pointer record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'P'
Y	3	SUPPLEMENT_CODE	3	3-5	Supplement code. This code may represent a supplement code, ticket code, railcard code or a rail rover code.
Y	4	RAILCARD_CODE	3	6-8	This will be '***' if the format of the ticket does not vary with the railcard used, otherwise may contain a railcard code or spaces.
	5	REV_CODE	3	9-11	This is the key to be used to access the print formats file when in revenue mode.
	6	NON_REV_CODE	3	12-14	This is the key to be used to access the print format file when in non-revenue mode.
	7	TEXT_CODE_1	3	15-17	Contains a code which indicates a line of free text to be used when printing a supplementary coupon. The code refers to one of the text records included in the file. This field may contain spaces.
	8	TEXT_CODE_2	3	18-20	Contains a code which indicates a line of free text to be used when printing a supplementary coupon. The code refers to one of the text records included in the file. This field may contain spaces.
	9	TEXT_CODE_3	3	21-23	Contains a code which indicates a line of free text to be used when printing a supplementary coupon. The code refers to one of the text records included in the file. This field may contain spaces.
	10	TEXT_CODE_4	3	24-26	Contains a code which indicates a line of free text to be used when printing a supplementary coupon. The code refers to one of the text records included in the file. This field may contain spaces.
	11	TEXT_CODE_5	3	27-29	Contains a code which indicates a line of free text to be used when printing a supplementary coupon. The code refers to one of the text records included in the file. This field may contain spaces.

4.10.3 Text record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'T'.
Y	3	TEXT_CODE	3	3-5	A unique code to identify a particular line of text.
	4	FREE_TEXT	72	6-77	The free text line to print on a supplement voucher. Spaces are permitted.

4.11 File: CLASS LEGENDS

4.11.1 Description

4.11.1.1 This file contains Class text to be printed on tickets.

4.11.1.2 Rate of change: Infrequent.

4.11.2 Class Legends record

Key	Field	Field Name	Length	Position	Description
Y	1	CLASS	1	1-1	Class indicator
Y	2	END_DATE	8	2-9	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	3	START_DATE	8	10-17	The First date for which this record can be used. Format is ddmmyyyy.
	4	ATB_DESC	8	18-25	Class description to be printed on ATB (airline) size tickets.
	5	CC_DESC	3	26-28	Class description to be printed on credit card size tickets.

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4.12 File: RAIL ROVERS

4.12.1 Description

4.12.1.1 This file contains details of Rail Rovers and Rail Rover fares[2].

4.12.1.2 The file contains 2 record types; 'Rail Rover' records and 'Rover Price' records.

4.12.1.3 Rate of change: Approximately twice per month.

4.12.2 Rail Rover record

Key	Field	Field Name	Length	Position	Description
Y	1	RECORD_TYPE	1	1-1	Contains 'R'.
Y	2	ROVER_CODE	3	2-4	3-character rail rover code.
Y	3	END_DATE	8	5-12	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	4	START_DATE	8	13-20	First date for which this record can be used. Format is ddmmyyyy.
	5	QUOTE_DATE	8	21-28	First date on which this record can be queried. Format is ddmmyyyy.
	6	DESCRIPTION	30	29-58	Textual description of the rail rover.
	7	TICKET_DESC	15	59-73	Short description for rail rover.
	8	CAPRI_TICKET_CODE	3	74-76	Holds the Capri ticket type, may be spaces.
	9	ROVER_ACCOUNTING_CODE	4	77-80	Contains a code which identifies the rail rover to the accounting system.
	10	DAYS_TRAVEL	3	81-83	Holds the number of days travel allowed with the rail rover within its period of validity. A rail rover is a flexi-rover if DAYS_TRAVEL is less than MONTHS_VALID + DAYS_VALID. For the purposes of this comparison each MONTHS_VALID counts as 28 days.
	11	MONTHS_VALID	2	84-85	Holds the number of months the rail rover is valid for.
	12	DAYS_VALID	2	86-87	Holds the number of days the rail rover is valid for. MONTHS_VALID and DAYS_VALID combine to give the validity period of the rail rover.

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[2] Includes Rovers and Ranger data.

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4.12.3 Rover Price record

4.12.3.1 Rover Price records are linked to the associated Rail Rover record using the ROVER_CODE and END_DATE fields.

Key	Field	Field Name	Length	Position	Description
Y	1	RECORD_TYPE	1	1-1	Contains 'P'.
Y	2	ROVER_CODE	3	2-4	3-character rail rover code.
Y	3	END_DATE	8	5-12	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
Y	4	RAILCARD_CODE	3	13-15	Railcard code. The fare in this record is that which applies when this railcard is used. Spaces mean that no railcard is being used.
Y	5	ROVER_CLASS	1	16-16	The class of the rail rover ticket. Permitted values are '1', '2' or '9'.
	6	ADULT_FARE	8	17-24	The adult fare for the rail rover with the supplied railcard, in pence.
	7	CHILD_FARE	8	25-32	The child fare for the rail rover with the supplied railcard, in pence. A value of 99999999 means that there is no child fare for this rail rover/railcard combination.
	8	RESTRICTION_CODE	2	33-34	2-character restriction code. May be spaces.

4.13 File: PACKAGES

4.13.1 Description

4.13.1.1 This file contains details of Packages and inclusive supplements.

4.13.1.2 The file contains 2 record types; 'Package' records and 'Package Supplement' records.

4.13.1.3 Rate of change: Approximately 6-10 times per month.

4.13.2 Package record

Key	Field	Field Name	Length	Position	Description
Y	1	RECORD_TYPE	1	1-1	Contains 'P'.
Y	2	PACKAGE_CODE	3	2-4	3-character package code.
Y	3	END_DATE	8	5-12	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	4	START_DATE	8	13-20	First date for which this record can be used.
	5	QUOTE_DATE	8	21-28	First date on which this record can be queried.
	6	RESTRICTION_CODE	2	29-30	Note: with the introduction of PMS this field is deprecated. (2-character restriction code. May contain spaces if no restriction applies to this package.)
	7	ORIGIN_FACILITIES	26	31-56	Note: with the introduction of PMS this field is deprecated. (Up to 26 values, each of which may be space. Any which are not space are compared with the facilities at the journey origin. If the journey origin does not have this facility, then the package is not available. The journey origin is deemed to be the origin of the Outward or Return journey, as appropriate.)
	8	DESTINATION_FACILITIES	26	57-82	Note: with the introduction of PMS this field is deprecated. (Up to 26 values, each of which may be space. Any which are not space are compared with the facilities at the journey destination. If the journey destination does not have this facility, then the package is not available. The journey destination is deemed to be the destination of the Outward or Return journey, as appropriate.)

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4.13.3 Package Supplement record

4.13.3.1 Package Supplement records are linked to the associated Package record using the PACKAGE_CODE and END_DATE fields.

Key	Field	Field Name	Length	Position	Description
Y	1	RECORD_TYPE	1	1-1	Contains 'S'.
Y	2	PACKAGE_CODE	3	2-4	3-character package code.
Y	3	END_DATE	8	5-12	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
Y	4	SUPPLEMENT_CODE	3	13-15	Supplement code identifying a supplement contained in the package.
	5	DIRECTION	1	16-16	Valid values are 'O', 'R', 'B' or 'E' (Outward, Return, Both or Either) and denotes on which part of the journey the supplement is available.
	6	PACK_NUMBER	3	17-19	Indicates the number of supplements 'per package' (regardless of the number of passengers.
	7	ORIGIN_FACILITY	1	20-20	Note: with the introduction of PMS this field is deprecated. (A code to indicate a facility which must exist at the journey origin for the supplement to be available. The journey origin is deemed to be the origin of the Outward journey. May be space.)
	8	DEST_FACILITY	1	21-21	Note: with the introduction of PMS this field is deprecated. (A code to indicate a facility which must exist at the journey destination for the supplement to be available. The journey destination is deemed to be the destination of the Outward journey. May be space.)

4.14 File: SUPPLEMENTS

4.14.1 Description

4.14.1.1 This file contains details of Supplement Rules and Supplements.

4.14.1.2 The file contains 5 record types; 'Supplement Rule' records, 'Rule Applies' records, 'Rule Supplement' records, 'Supplement' records and 'Supplement overrides' records.

4.14.1.3 Rate of change: Approximately 10 times per month.

4.14.2 Supplement Rule record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'R'.
Y	3	RULE_NUMBER	3	3-5	Rule number.
Y	4	END_DATE	8	6-13	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	5	START_DATE	8	14-21	First date for which this record can be used. Format is ddmmyyyy.
	6	QUOTE_DATE	8	22-29	First date on which this record can be queried. Format is ddmmyyyy.
	7	TRAIN_UID	7	30-36	Train identifier (actually 6 alphanumeric characters followed by a space). 7 spaces if not applicable.
	8	TRAIN_UID_DESC	39	37-75	Train description.
	9	FARE_CLASS	1	76-76	Single character class (values '1', '2', '9' or '*'). Asterisk means the class is not significant.
	10	QUOTA	1	77-77	Values 'Y', 'N' or '*' to indicate that the rule applies if the train is quota'd, does not apply if the train is quota'd or applies regardless of whether or not the train is quota'd.
	11	WEEKEND_FIRST	1	78-78	Values 'Y', 'N' or '*' to indicate that the rule applies if the train has Weekend First accommodation, does not apply if the train has Weekend First accommodation or applies regardless of whether or not train has Weekend First accommodation.
	12	SILVER_STANDARD	1	79-79	Values 'Y', 'N' or '*' to indicate that the rule applies if the train has Silver Standard accommodation, does not apply if the train has Silver Standard accommodation or applies regardless of whether or not the train has Silver Standard accommodation.
	13	RAILCARD	1	80-80	Values 'Y', 'N' or '*' to indicate that the rule applies if a railcard is used, does not apply if a railcard is used or applies regardless of whether or not a railcard is used.
	14	CATERING_CODE	1	81-81	Catering code, space or '*'. These values are used to compare with the catering available on the train.
	15	SLEEPER	1	82-82	Values 'F', 'S', 'B' or space or '*'. Indicates whether the rule applies if the train has first class, standard class or both first and standard class sleeper accommodation, or that the rule applies regardless of the sleeper accommodation available on the train.

Key	Field	Field Name	Length	Position	Description
	16	ACCOM_CLASS	1	83-83	Values 'F', 'S', 'B' or space or '*'. Indicates whether the rule applies if the train has first class, standard class or both first and standard class accommodation, or that the rule applies regardless of the accommodation available on the train.
	17	STATUS	1	84-84	Values 'A', 'C' or 'B'. Indicates whether the rule applies to Adults, Children or Both.
	18	RESERVATION_STATUS	3	85-87	Up to 3 reservation status codes, or spaces. Indicates which reservation statuses the rule applies to.
	19	SECTORS	3	88-90	Up to 3 train sector codes, or spaces. Indicates which sector codes the rule applies to.

4.14.3   Rule Applies record

4.14.3.1   Rule applies records are linked to the associated Rule record using the RULE_NUMBER and END_DATE fields. Records with duplicate keys are included.

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'A'.
Y	3	RULE_NUMBER	3	3-5	Rule number.
Y	4	END_DATE	8	6-13	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
Y	5	IE_MARKER	1	14-14	'I' to indicate "Includes", 'E' to indicate "Excludes".
Y	6	CONDITION_TYPE	1	15-15	Indicates what the Include/Exclude marker refers to. 'A' indicates that the Railcard in IE_CODE is included in/excluded from the rule. 'E' indicates that the Restriction in IE_CODE is included in/excluded from the rule. 'I' indicates that the Ticket in IE_CODE is included in/excluded from the rule. 'O' indicates that the TOC in IE_CODE is included in/excluded from the rule.
Y	7	IE_CODE	3	16-18	A ticket, railcard, restriction or TOC code, depending on the value of CONDITION_TYPE. Note that ticket codes can include '*' (e.g. 'SR*') to allow matching on several tickets.

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4.14.4 Rule Supplement record

4.14.4.1 Rule Supplement records are linked to the associated Rule record using the RULE_NUMBER and END_DATE fields.

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'M'.
Y	3	RULE_NUMBER	3	3-5	Rule number.
Y	4	END_DATE	8	6-13	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date. The key fields are used to match this record to the rule record to which it applies.
Y	5	SUPPLEMENT_CODE	3	14-16	The supplement code for the supplement included in the rule.
	6	OM_FLAG	1	17-17	Values are 'O' or 'M' to indicate whether the supplement is Optional or Mandatory in this rule.

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4.14.5 Supplement record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'S'.
Y	3	SUPPLEMENT_CODE	3	3-5	Supplement code.
Y	4	END_DATE	8	6-13	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	5	START_DATE	8	14-21	First date for which this record can be used. Format is ddmmyyyy.
	6	QUOTE_DATE	8	22-29	First date on which this record can be queried. Format is ddmmyyyy.
	7	DESCRIPTION	20	30-49	Supplement description. May include '#' (hash) or '$' (dollar) to denote currency (pounds).
	8	SHORT_DESC	12	50-61	Abbreviated description of supplement. May include '#' (hash) or '$' (dollar) to denote currency (pounds). This is the description printed on the ticket for this supplement.
	9	SUPPL_TYPE	3	62-64	3-character supplement type. Permitted values are 'SEA', 'QUO', 'SLQ', 'SLE', 'TSP', 'BIK', 'EXA'. Spaces are not permitted.
	10	PRICE	5	65-69	Supplement price in pence.
	11	CPF_TICKET_TYPE	5	70-74	Note: with the introduction of PMS this field is deprecated.

(This is the ticket code for this item in the Central Prices File.) |
	12	MIN_GROUP_SIZE	1	75-75	The minimum group size for this supplement.
	13	MAX_GROUP_SIZE	1	76-76	The maximum group size for this supplement.
	14	PER_LEG_OR_DIR	1	77-77	Values are 'L' or 'D'. If this supplement overrides the cost of another supplement this indicates whether the override applies to all legs in the journey direction ('D') or to supplements on the same leg only ('L').
	15	CLASS_TYPE	1	78-78	Supplement class.
	16	CAPRI_CODE	3	79-81	CAPRI code. Note that if sundry code is supplied then CAPRI code will be spaces.
	17	SEP_TKT_IND	1	82-82	Values 'Y' or 'N' to indicate whether a separate ticket must be issued for this supplement.
	18	RESVN_TYPE	2	83-84	Permitted values are '00' and '01', used when making reservations for this supplement.
	19	SUNDRY_CODE	5	85-89	Accounting code for supplement recognised by accounting system. Note that if CAPRI code is supplied then sundry code will be spaces.

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4.14.6 Supplement overrides record

4.14.6.1 Supplement override records are linked to the associated Supplement record using the SUPPLEMENT_CODE and END_DATE fields.

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'O'.
Y	3	SUPPLEMENT_CODE	3	3-5	A unique supplement code.
Y	4	END_DATE	8	6-13	Last date for which this record can be used. A high date (31122999) is used to indicate records which have no defined end date.
Y	5	OVERRIDDEN_SUPPLEMENT	3	14-16	Supplement code. A supplement whose cost is overridden by the supplement in SUPPLEMENT_CODE.

4.15 File: RAILCARDS

4.15.1 Description

4.15.1.1 This file contains details of the railcards.

4.15.1.2 Rate of change: Approximately 3 times per month.

4.15.2 Railcards record

Key	Field	Field Name	Length	Position	Description
Y	1	RAILCARD_CODE	3	1-3	3-character railcard code. If the railcard code is 3 spaces, then this means 'no railcard', and the record is only used to obtain status values required to calculate child and AAA fares where no railcard has been supplied.
Y	2	END_DATE	8	4-11	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	3	START_DATE	8	12-19	First date for which this record can be used. Format is ddmmyyyy.
	4	QUOTE_DATE	8	20-27	First date on which this record can be quoted. Format is ddmmyyyy.
	5	HOLDER_TYPE	1	28-28	'A' for Adult, 'C' for Child.
	6	DESCRIPTION	20	29-48	Railcard description.
	7	RESTRICTED_BY_ISSUE	1	49-49	Value 'Y' or 'N'. Indicates whether the railcard is restricted issue.
	8	RESTRICTED_BY_AREA	1	50-50	Value 'Y' or 'N'. Indicates whether the railcard is restricted by area (i.e. it can only be used in areas denoted by the Railcard Geography held in the Locations file).
	9	RESTRICTED_BY_TRAIN	1	51-51	Value 'Y' or 'N'. Indicates whether the railcard is restricted to particular trains.
	10	RESTRICTED_BY_DATE	1	52-52	Value 'Y' or 'N'. Indicates whether the railcard is restricted by date.
	11	MASTER_CODE	3	53-55	The master railcard code, used when discounting fares using this railcard. With the introduction of PMS this is always the same code as the RAILCARD_CODE field.
	12	DISPLAY_FLAG	1	56-56	Indicates whether the railcard must be displayed when a ticket is purchased.
	13	MAX_PASSENGERS	3	57-59	0-999 – the maximum number of passengers whose fares may be discounted using 1 railcard.
	14	MIN_PASSENGERS	3	60-62	0-999 – the minimum number of passengers required for fares to be discounted using 1 railcard.
	15	MAX_HOLDERS	3	63-65	0-999 – the maximum number of railcard holders required to qualify for a discount with this railcard.
	16	MIN_HOLDERS	3	66-68	0-999 – the minimum number of railcard holders required to qualify for a discount with this railcard.
	17	MAX_ACC_ADULTS	3	69-71	0-999 – the maximum number of accompanied adults whose fares may be discounted using 1 railcard.
	18	MIN_ACC_ADULTS	3	72-74	0-999 – the maximum number of accompanied adults whose fares may be discounted using 1 railcard.
	19	MAX_ADULTS	3	75-77	0-999 – the maximum number of adults whose fares may be discounted using 1 railcard.
	20	MIN_ADULTS	3	78-80	0-999 – the maximum number of adults whose fares may be discounted using 1 railcard.

Key	Field	Field Name	Length	Position	Description
	21	MAX_CHILDREN	3	81-83	0-999 – the maximum number of accompanied children whose fares may be discounted using 1 railcard.
	22	MIN_CHILDREN	3	84-86	0-999 – the maximum number of accompanied children whose fares may be discounted using 1 railcard.
	23	PRICE	8	87-94	Railcard price in pence.
	24	DISCOUNT_PRICE	8	95-102	Discount price, in pence, to be charged to holders of other selected railcards.
	25	VALIDITY_PERIOD	4	103-106	The validity period of this railcard in the format mmdd (months/days). Will be spaces if the record contains a value for last valid date.
	26	LAST_VALID_DATE	8	107-114	The last date on which this railcard is valid. Format is ddmmyyyy. Will be spaces if the record contains a validity period.
	27	PHYSICAL_CARD	1	115-115	'Y' or 'N' to indicate whether the railcard is a physical document.
	28	CAPRI_TICKET_TYPE	3	116-118	CAPRI Ticket code.
	29	ADULT_STATUS	3	119-121	Status code to be used when calculating adult fares with this railcard.
	30	CHILD_STATUS	3	122-124	Status code to be used when calculating child fares with this railcard.
	31	AAA_STATUS	3	125-127	Status code to be used when calculating AAA fares with this railcard.

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4.16 File: RAILCARD MINIMUM FARES

4.16.1 Description

4.16.1.1 This file contains minimum fares which apply when railcards are used on certain trains (determined by the train restriction). Minimum fares apply to adult fares only.

4.16.1.2 Rate of change: Approximately 2/3 times per month.

4.16.2 Railcard Minimum Fares record

Key	Field	Field Name	Length	Position	Description
Y	1	RAILCARD_CODE	3	1-3	Railcard code.
Y	2	TICKET_CODE	3	4-6	Ticket code. The minimum fare applies the railcard/ticket combination.
Y	3	END_DATE	8	7-14	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	4	START_DATE	8	15-22	First date for which this record can be used. Format is ddmmyyyy.
	5	MINIMUM_FARE	8	23-30	The minimum fare, in pence, to be charged for this ticket/railcard combination when minimum fares apply.

4.17 File: STATUS DISCOUNTS

4.17.1 Description

4.17.1.1 This file contains the discount information required for applying railcard, child and AAA discounts to the fares in the flow file.

4.17.1.2 The file contains 2 record types – the 'Status' records, and the 'Status Discount' records.

4.17.1.3 Rate of change: Approximately once per month.

4.17.2 Status record

Key	Field	Field Name	Length	Position	Description
Y	1	RECORD_TYPE	1	1-1	Contains 'S'.
Y	2	STATUS_CODE	3	2-4	3-character status code.
Y	3	END_DATE	8	5-12	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	4	START_DATE	8	13-20	First date for which this record can be used. Format is ddmmyyyy.
	5	ATB_DESC	5	21-25	Description to be printed on ATB size (airline) tickets. Spaces are permitted.
	6	CC_DESC	5	26-30	Description to be printed on credit card size tickets. Spaces are permitted.
	7	UTS_CODE	1	31-31	UTS code, used in LUL magnetic stripe encoding.
	8	FIRST_SINGLE_MAX_FLAT	8	32-39	Contains either the maximum fare to be charged following discount for a first-class single ticket, or a first-class single flat fare, depending on how the discount is applied, in pence. Contains zero if neither of the above is applicable. Field 16, FS_MKR, presently does not contain valid data; therefore, value 99999999 indicates that a first-class discount is not applicable.
	9	FIRST_RETURN_MAX_FLAT	8	40-47	Contains either the maximum fare to be charged following discount for a first class return ticket, or a first class return flat fare, depending on how the discount is applied, in pence. Contains zero if neither of the above is applicable. Field 17, FR_MKR, presently does not contain valid data; therefore, value 99999999 indicates that a first-class discount is not applicable.
	10	STD_SINGLE_MAX_FLAT	8	48-55	Contains either the maximum fare to be charged following discount for a standard class single ticket, or a standard class single flat fare, depending on how the discount is applied, in pence. Contains zero if neither of the above is applicable. Field 18, SS_MKR, presently does not contain valid data; therefore, value 99999999 indicates that a std class discount is not applicable.

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Key	Field	Field Name	Length	Position	Description
	11	STD_RETURN_MAX_FLAT	8	56-63	Contains either the maximum fare to be charged following discount for a standard class return ticket, or a standard class return flat fare, depending on how the discount is applied, in pence. Contains zero if neither of the above is applicable. Field 19, SR_MKR, presently does not contain valid data; therefore, value 99999999 indicates that a std class discount is not applicable.
	12	FIRST_LOWER_MIN	8	64-71	Contains the lower minimum fare, in pence, for a first-class ticket.
	13	FIRST_HIGHER_MIN	8	72-79	Contains the higher minimum fare, in pence, for a first-class ticket.
	14	STD_LOWER_MIN	8	80-87	Contains the lower minimum fare, in pence, for a standard class ticket.
	15	STD_HIGHER_MIN	8	88-95	Contains the higher minimum fare, in pence, for a standard class ticket.
	16	FS_MKR	1	96-96	'Y' or 'N' to indicate whether this railcard may be used with First class single tickets. PMS Note: Until a change within PMS is implemented the field value shall always be 'Y'. Suppliers shall be advised when the change has been implemented. Until such time see Field 8, FIRST_SINGLE_MAX_FLAT.
	17	FR_MKR	1	97-97	'Y' or 'N' to indicate whether this railcard may be used with First class return tickets. PMS Note: Until a change within PMS is implemented the field value shall always be 'Y'. Suppliers shall be advised when the change has been implemented. Until such time see Field 9, FIRST_RETURN_MAX_FLAT.
	18	SS_MKR	1	98-98	'Y' or 'N' to indicate whether this railcard may be used with Standard class single tickets. PMS Note: Until a change within PMS is implemented the field value shall always be 'Y'. Suppliers shall be advised when the change has been implemented. Until such time see Field 10, STD_SINGLE_MAX_FLAT.
	19	SR_MKR	1	99-99	'Y' or 'N' to indicate whether this railcard may be used with Standard class return tickets. PMS Note: Until a change within PMS is implemented the field value shall always be 'Y'. Suppliers shall be advised when the change has been implemented. Until such time see Field 11, STD_RETURN_MAX_FLAT.

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4.17.3   Status discount record

4.17.3.1   Status discount records are linked to the associated Status record using the STATUS_CODE and END_DATE fields.

Key	Field	Field Name	Length	Position	Description
	1	RECORD_TYPE	1	1-1	Contains 'D'.
Y	2	STATUS_CODE	3	2-4	3-character status code.
Y	3	END_DATE	8	5-12	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
Y	4	DISCOUNT_CATEGORY	2	13-14	A value from 1 to 20 to indicate the discount category for which the following fields apply.
	5	DISCOUNT_INDICATOR	1	15-15	Indicates whether a discount applies for this discount category. Permitted values are: '0' – Discount the fare by the amount in DISCOUNT_PERCENTAGE. 'F' – Use the appropriate flat fare for the status from FIRST_SINGLE_MAX_FLAT/ FIRST_RETURN_MAX_FLAT/ STD_SINGLE_MAX_FLAT/ STD_RETURN_MAX_FLAT (depending on whether the ticket is standard or first, single or return). 'M' – Discount the fare by the amount in discount percentage. If the fare after discount is higher than the amount in FIRST_SINGLE_MAX_FLAT/ FIRST_RETURN_MAX_FLAT/ STD_SINGLE_MAX_FLAT/ STD_RETURN_MAX_FLAT (depending on whether the ticket is standard or first, single or return) then the appropriate MAX/FLAT value should be charged. 'H' – Discount the fare by the amount in discount percentage. If the fare after discount is lower than the FIRST/STD_HIGHER_MIN (depending on the ticket class) fare in FIRST/STD_HIGHER_MIN should be charged. 'L' – Discount the fare by the amount in discount percentage. If the fare after discount is lower than the FIRST/STD_LOWER_MIN (depending on the ticket class) fare in FIRST/STD_LOWER_MIN should be charged. 'X' or 'N' – Do not apply any discount.
	6	DISCOUNT_PERCENTAGE	3	16-18	The percentage discount which applies when this discount category is used. This is the discount percentage to one decimal place. A value of 300 in this field indicates that the discount percentage is 30.0%.

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4.18 File: ROUNDING RULES

4.18.1 Description

4.18.1.1 This file contains the rounding rules used when performing fare calculation. The appropriate maximum amount is found in the required rounding rule and the discounted fare is rounded up to the rounding amount.

4.18.1.2 Rate of change: Approximately once or twice per year.

4.18.2 Status record

Key	Field	Field Name	Length	Position	Description
Y	1	RULE_NO	2	1-2	Rounding rule number. Values are alphanumeric.
Y	2	END_DATE	8	3-10	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
Y	3	RULE_INDEX	2	11-12	Sequence number within the rounding rule of the max/round amounts.
	4	START_DATE	8	13-20	First date for which this record can be used. Format is ddmmyyyy.
	5	MAX_AMOUNT	8	21-28	The maximum fare in pence to which the round amount applies. A value of 99999999 indicates a 'high value' and applies to all fares which are higher than the next lowest maximum amount in this rule.
	6	ROUND_AMOUNT	8	29-36	The amount, in pence, by which the fare is to be rounded, for fares up the value in MAX_AMOUNT.

4.19 File: RESTRICTIONS

4.19.1 Description

4.19.1.1 This file contains the restriction information.

4.19.1.2 The file includes 19 record types, including those for the ticket/supplement calendars (i.e. those things restricted by date).

4.19.1.3 Rate of change: Approximately three times per week.

4.19.2 RD – Restriction Dates record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'RD'.
Y	3	CF_MKR	1	4-4	Value = 'C' or 'F' indicating Current or Future. All other restriction records in this file have a CF_MKR field set to 'C' or 'F'. This indicates that the start and end date of the records correspond to the start date and end date held in this record.
	4	START_DATE	8	5-12	First date for which records with the matching CF_MKR can be used. Format is ddmmyyyy.
	5	END_DATE	8	13-20	Last date for which records with the matching CF_MKR can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.

4.19.3 RH – Restriction Header record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'RH'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
	5	DESCRIPTION	30	7-36	Restriction description.
	6	DESC_OUT	50	37-86	Description text for the restriction for an outward journey. Spaces are permitted.
	7	DESC_RTN	50	87-136	Description text for the restriction for a return journey. Spaces are permitted.
	8	TYPE_OUT	1	137-137	'P' or 'N'. Indicates how the train restrictions associated with this restriction are to be applied to an outward journey – 'P' = positive restriction, 'N' = negative restriction.
	9	TYPE_RTN	1	138-138	'P' or 'N'. Indicates how the train restrictions associated with this restriction are to be applied to a return journey – 'P' = positive restriction, 'N' = negative restriction.
	10	CHANGE_IND	1	139-139	'Y' or 'N'. Indicates whether a change of trains is allowed.

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4.19.4 HD – Restriction Header Date Bands record

4.19.4.1 These records are linked to the associated Restriction header record using the CF_MKR and RESTRICTION_CODE fields.

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'HD'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	DATE_FROM	4	7-10	Date band start date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
Y	6	DATE_TO	4	11-14	Date band end date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
	7	DAYS	7	15-21	A set of 7 markers each set to Y or N, representing the days of the week. The first character represents Monday. If the marker = Y, then the restriction applies on this day of the week, between the dates in DATE_FROM/DATE_TO. If the marker is N, then the restriction does not apply on this day of the week, between the dates in DATE_FROM/DATE_TO.

4.19.5 HL – Restriction Header Route Locations record

4.19.5.1 These records are linked to the associated Restriction header record using the CF_MKR and RESTRICTION_CODE fields.

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'HL'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	LOCATION_CRS_CODE	3	7-9	CRS code of location. The restriction applies to journeys to/from/changing at this location.

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4.19.6 HC – Restriction Header Allowed Changes record

4.19.6.1 These records are linked to the associated Restriction header record using the CF_MKR and RESTRICTION_CODE fields.

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'HC'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	ALLOWED_CHANGE	3	7-9	CRS code of location at which the passenger is allowed to change if this restriction applies.

4.19.7 HA – Restriction Header Additional Restriction record

4.19.7.1 These records are linked to the associated Restriction header record using the CF_MKR and RESTRICTION_CODE fields.

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'HA'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	ADDITIONAL_RESTRICTION	2	7-8	An additional restriction code which may also apply if the ORIGIN and DESTINATION matches the journey.
Y	6	ORIGIN	3	9-11	CRS code of journey origin to be matched to determine whether the additional restriction should be used.
Y	7	DESTINATION	3	12-14	CRS code of journey destination to be matched to determine whether the additional restriction should be used.

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4.19.8   TR – Time Restriction record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'TR'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	SEQUENCE_NO	4	7-10	Numeric sequence number. Several time restrictions may apply with the same restriction code; this field is used to uniquely identify them.
Y	6	OUT_RET	1	11-11	'O' or 'R', to indicate whether the restriction applies to outward journeys or return journeys.
	7	TIME_FROM	4	12-15	4 numeric characters in the format HHMM. Gives the start time at which this time restriction applies.
	8	TIME_TO	4	16-19	4 numeric characters in the format HHMM. Gives the end time until which this time restriction applies.
	9	ARR_DEP_VIA	1	20-20	'A', 'D' or 'V'. Indicates whether the time restriction applies to arrivals at, departures from or changing at the location in LOCATION.
	10	LOCATION	3	21-23	CRS code of a location denoting a journey origin/destination or via location at which the restriction may apply. Three spaces in this field means that restriction is not station specific
	11	RSTR_TYPE	1	24-24	'T' or 'A'. Indicates whether the time restriction relates to the timetable or actual running time of the train.
	12	TRAIN_TYPE	1	25-25	Contains a sector code which is used to indicate that the restriction applies to particular train types.
	13	MIN_FARE_FLAG	1	26-26	'Y' or 'N'. 'Y' indicates that if the restriction applies then the fare is valid but a minimum fare must be used. 'N' indicates that if restriction applies then fare is not valid.

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4.19.9 TD – Time Restriction Date Bands record

4.19.9.1 These records are linked to the associated Time Restriction record using the CF_MKR, RESTRICTION_CODE and SEQUENCE_NO fields.

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'TD'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	SEQUENCE_NO	4	7-10	Numeric sequence number. Several time restrictions may apply with the same restriction code; this field is used to uniquely identify them.
Y	6	OUT_RET	1	11-11	'O' or 'R', to indicate whether the restriction applies to outward journeys or return journeys.
Y	7	DATE_FROM	4	12-15	Date band start date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
Y	8	DATE_TO	4	16-19	Date band end date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
	9	DAYS	7	20-26	A set of 7 markers each set to 'Y' or 'N', representing the days of the week. The first character represents Monday. If the marker = 'Y', then the restriction applies on this day of the week, between the dates in DATE_FROM/DATE_TO. If the marker is 'N', then the restriction does not apply on this day of the week, between the dates in DATE_FROM/DATE_TO.

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4.19.10 TT – Time Restriction TOC record

4.19.10.1 These records are linked to the associated Time Restriction record using the CF_MKR, RESTRICTION_CODE and SEQUENCE_NO fields.

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'TT'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	SEQUENCE_NO	4	7-10	Numeric sequence number. Several time restrictions may apply with the same restriction code; this field is used to uniquely identify them.
Y	6	OUT_RET	1	11-11	'O' or 'R', to indicate whether the restriction applies to outward journeys or return journeys.
Y	7	TOC_CODE	2	12-13	TOC code. The time restriction only applies to trains provided by this TOC.

4.19.11   TP – Time Restriction Privilege Data record

4.19.11.1   With the introduction of PMS these records are not maintained but records will exist in the feed and contain data but should be ignored.

4.19.11.2   These records are linked to the associated Time Restriction record using the CF_MKR, RESTRICTION_CODE and SEQUENCE_NO fields

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'TP'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	SEQUENCE_NO	4	7-10	Numeric sequence number. Several time restrictions may apply with the same restriction code; this field is used to uniquely identify them.
Y	6	OUT_RET	1	11-11	'O' or 'R', to indicate whether the restriction applies to outward journeys or return journeys.
Y	7	BARRED_CLASS	1	12-12	Indicates which classes are barred to users of privilege railcards, if this restriction applies. Values are '1', 'S' or 'B'. Indicates that the first class, standard class or both are barred.
Y	8	BARRED_TICKETS	1	13-13	Indicates which tickets are barred to users of privilege railcards, if this restriction applies. Values are 'P', 'F' or 'B'. Indicates that Privilege, Free or Both privilege and free tickets are barred.
Y	9	BARRED_SEASONS	1	14-14	Indicates whether season tickets are barred to users of privilege railcards, if this restriction applies Values are 'Y' or 'N'.
Y	10	BARRED_FIRST	1	15-15	Indicates whether First can travel as standard when using a privilege railcard, if this restriction applies Values are 'Y' or 'N'.
Y	11	FROM_LOCATION	3	16-18	CRS code of the location from which the privilege categories are barred if this restriction applies. If no location is supplied, then the categories are barred from all locations if this restriction applies.
Y	12	TO_LOCATION	3	19-21	CRS code of the location to which the privilege categories are barred if this restriction applies. If no location is supplied, then the categories are barred to all locations if this restriction applies.

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4.19.12 TE – Time Restriction Privilege Pass Exceptions record

4.19.12.1 With the introduction of PMS these records are not maintained but records will exist in the feed and contain data but should be ignored.

4.19.12.2 These records are linked to the associated Time Restriction record using the CF_MKR, RESTRICTION_CODE and SEQUENCE_NO fields

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'TE'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	SEQUENCE_NO	4	7-10	Numeric sequence number. Several time restrictions may apply with the same restriction code; this field is used to uniquely identify them.
Y	6	OUT_RET	1	11-11	'O' or 'R', to indicate whether the restriction applies to outward journeys or return journeys.
Y	7	PASS_EXCEPTION	1	12-12	Exception code.

4.19.13 SR – Train Restriction record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'SR'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	TRAIN_NO	6	7-12	Train UID
Y	6	OUT_RET	1	13-13	'O' or 'R', to indicate whether the restriction applies to outward journeys or return journeys.
	7	QUOTA_IND	1	14-14	'Y' or 'N'. Used with Train Restriction quota data records to determine whether the fare is restricted or quota controlled. Note – this field is obsolete and will be set to 'N' for all new restrictions.
	8	SLEEPER_IND	1	15-15	'Y' or 'N' to indicate whether the restriction applies to sleeper only trains.

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4.19.14   SD – Train Restriction Date Bands record

4.19.14.1   These records are linked to the associated Train Restriction record using the CF_MKR, RESTRICTION_CODE, TRAIN_NO and OUT_RET fields

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'SD'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	TRAIN_NO	6	7-12	Train UID.
Y	6	OUT_RET	1	13-13	'O' or 'R', to indicate whether the restriction applies to outward journeys or return journeys.
Y	7	DATE_FROM	4	14-17	Date band start date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
Y	8	DATE_TO	4	18-21	Date band end date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
	9	DAYS	7	22-28	A set of 7 markers each set to 'Y' or 'N', representing the days of the week. The first character represents Monday. If the marker = 'Y', then the restriction applies on this day of the week, between the dates in DATE_FROM/DATE_TO. If the marker is 'N', then the restriction does not apply on this day of the week, between the dates in DATE_FROM/DATE_TO.

4.19.15   SQ – Train Restriction Quota Exemption record

4.19.15.1   These records are linked to the associated Train Restriction record using the CF_MKR, RESTRICTION_CODE, TRAIN_NO and OUT_RET fields

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'SQ'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	TRAIN_NO	6	7-12	Train UID.
Y	6	OUT_RET	1	13-13	'O' or 'R', to indicate whether the restriction applies to outward journeys or return journeys.
Y	7	LOCATION	3	14-16	CRS code indicating a location at which the fare is restricted or quota controlled if this train restriction applies.
Y	8	QUOTA_IND	1	17-17	Note: this field is obsolete and will be set to a space for all new restrictions. 'Q', 'R' or space. 'Q' indicates quota controlled, 'R' indicates restricted.
Y	9	ARR_DEP	1	18-18	'A', 'D' or 'B' to indicate whether the restriction applies to arrivals at this location, departures from this location, or both.

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4.19.16 SP – Train Restriction Privilege Data record

4.19.16.1 With the introduction of PMS these records are not maintained but records will exist in the feed and contain data but should be ignored.

4.19.16.2 These records are linked to the associated Train Restriction record using the CF_MKR, RESTRICTION_CODE, TRAIN_NO and OUT_RET fields

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'SP'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	TRAIN_NO	6	7-12	Train UID.
Y	6	OUT_RET	1	13-13	'O' or 'R', to indicate whether the restriction applies to outward journeys or return journeys.
Y	7	BARRED_CLASS	1	14-14	Indicates which classes are barred to users of privilege railcards, if this restriction applies. Values are '1', 'S' or 'B'. Indicates that the first class, standard class or both are barred.
Y	8	BARRED_TICKETS	1	15-15	Indicates which tickets are barred to users of privilege railcards, if this restriction applies. Values are 'P', 'F' or 'B'. Indicates that Privilege, Free or Both privilege and free tickets are barred.
Y	9	BARRED_SEASONS	1	16-16	Indicates whether season tickets are barred to users of privilege railcards, if this restriction applies Values are 'Y' or 'N'.
Y	10	BARRED_FIRST	1	17-17	Indicates whether First can travel as standard when using a privilege railcard, if this restriction applies Values are 'Y' or 'N'.
	11	FROM_LOCATION	3	18-20	CRS code of the location from which the privilege categories are barred if this restriction applies. If no location is supplied, then the categories are barred from all locations if this restriction applies.
	12	TO_LOCATION	3	21-23	CRS code of the location to which the privilege categories are barred if this restriction applies. If no location is supplied, then the categories are barred to all locations if this restriction applies.

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4.19.17   SE – Train Restriction Privilege Pass Exceptions record

4.19.17.1   With the introduction of PMS these records are not maintained but records will exist in the feed and contain data but should be ignored.

4.19.17.2   These records are linked to the associated Train Restriction record using the CF_MKR, RESTRICTION_CODE, TRAIN_NO and OUT_RET fields.

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'SE'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RESTRICTION_CODE	2	5-6	Alphanumeric restriction code.
Y	5	TRAIN_NO	6	7-12	Train UID.
Y	6	OUT_RET	1	13-13	'O' or 'R', to indicate whether the restriction applies to outward journeys or return journeys.
Y	7	PASS_EXCEPTION	1	14-14	Exception code.

4.19.18   RR – Railcard Restriction record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'RR'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	RAILCARD_CODE	3	5-7	Railcard code.
Y	5	SEQUENCE_NO	4	8-11	Numeric sequence number. Several railcard restrictions may apply with the same railcard code; this field is used to uniquely identify them.
	6	TICKET_CODE	3	12-14	Ticket code. The railcard restriction applies to this ticket code. If spaces, then the railcard restriction applies to all ticket types.
	7	ROUTE_CODE	5	15-19	Route code. The railcard restriction applies to this route code. If spaces, then the railcard restriction applies to all routes.
	8	LOCATION	3	20-22	CRS code of a location. The railcard restriction applies if the journey originates at this location. If spaces, then the railcard restriction applies to all locations.
	9	RESTRICTION_CODE	2	23-24	Restriction which may apply if TOTAL_BAN is not set to 'Y'. If TOTAL_BAN is set to 'Y', then this field will contain spaces.
	10	TOTAL_BAN	1	25-25	'Y' or space. 'Y' indicates that the railcard cannot be used. Space indicates that the restriction code must be checked when this railcard is used.

4.19.19 EC – Exception Codes record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'EC'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	EXCEPTION_CODE	1	5-5	Exception code.
	5	DESCRIPTION	50	6-55	Exception description.

4.19.20 CA – Ticket Calendar record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	2	2-3	Contains 'CA'.
Y	3	CF_MKR	1	4-4	Either 'C' or 'F'. Used to determine the start and end dates for this record.
Y	4	TICKET_CODE	3	5-7	Ticket or supplement code.
Y	5	CAL_TYPE	1	8-8	Calendar type. 'I' type calendars indicate days on which a ticket is not available, 'D' indicates that the ticket is restricted on those dates, 'S' is used for supplement calendars.
Y	6	ROUTE_CODE	5	9-13	Route code. The calendar applies only to this route. If spaces, the calendar applies to all routes. Always spaces for Supplement calendars.
Y	7	COUNTRY_CODE	1	14-14	Country code, 'E' for England, 'S' for Scotland or space. The calendar applies to locations in Scotland or England or all locations. Always space for Supplement calendars.
Y	8	DATE_FROM	4	15-18	Date band start date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
Y	9	DATE_TO	4	19-22	Date band end date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
	10	DAYS	7	23-29	A set of 7 markers each set to 'Y' or 'N', representing the days of the week. The first character represents Monday. If the marker = 'Y', then the restriction applies on this day of the week, between the dates in DATE_FROM/DATE_TO. If the marker is 'N', then the restriction does not apply on this day of the week, between the dates in DATE_FROM/DATE_TO.

4.20 File: LOCATIONS

4.20.1 Description

4.20.1.1 This file holds details of locations.

4.20.1.2 It contains 6 record types; 'Location' records, 'Associated Stations' records, 'Railcard Geography' records, 'TT Group Location' records, 'Group Members' records and 'Synonym' records.

4.20.1.3 Rate of change: Approximately 12 times per month.

4.20.2 Location record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'L'.
Y	3	UIC_CODE	7	3-9	A unique code which identifies this location.
Y	4	END_DATE	8	10-17	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	5	START_DATE	8	18-25	First date for which this record can be used. Format is ddmmyyyy.
	6	QUOTE_DATE	8	26-33	First date on which this record can be queried. Format is ddmmyyyy.
	7	ADMIN_AREA_CODE	3	34-36	Administrative area code (e.g. '70 ' = Britain).
	8	NLC_CODE	4	37-40	National location code, for British locations only. No value is output in this field for non-GB locations.
	9	DESCRIPTION	16	41-56	Location description.
	10	CRS_CODE	3	57-59	Where present, gives the location code as used by the Central Reservations System (superseded by NRS). Contains spaces for locations with no CRS code.
	11	RESV_CODE	5	60-64	The international reservation code.
	12	ERS_COUNTRY	2	65-66	Along with the ERS Code this forms a reference to the location for use by Eurostar Reservation System.
	13	ERS_CODE	3	67-69	Along with the ERS Country this forms a reference to the location for use by Eurostar Reservation System.
	14	FARE_GROUP	6	70-75	LOC-FARE-GROUP is always populated for BR locations. It is the same as LOC-NLC for locations which are not a member of a fare group, otherwise it contains a group NLC code, e.g. '1072' = London.
	15	COUNTY	2	76-77	Used to decide if a location is in Scotland, England & Wales or elsewhere. County codes on the mainland are all numeric values. Other values are 'NI' (Northern Ireland), 'IR' (Ireland), 'CI' (Channel Islands).
	16	PTE_CODE	2	78-79	Code for the transport authority associated with the location (e.g. 'GM' = Greater Manchester). Note: this field is obsolete and will be set to space for all new locations.
	17	ZONE_NO	4	80-83	NLC code that matches a Zone location where the ZONE-IND = 1 to 6. Other values are not used. Spaces are permitted.
	18	ZONE_IND	2	84-85	The Zone number. Permitted values are 1, 2, 3, 4, 5, 6, R, U and space. Where ZONE-IND is not space, then ZONE-NO is an NLC code, representing a travelcard location.

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Key	Field	Field Name	Length	Position	Description
	19	REGION	1	86-86	Identifies the region using a code '0' = non-BR or LUL, '1' = ER, '2' = LMR, '3' = SCR, '4' = SR, '5' = WR and '6' = LUL.
	20	HIERARCHY	1	87-87	Where the location fits in the hierarchy of location types (e.g. major station, minor station). Note – this field is obsolete and will set to space for all new locations.
	21	CC_DESC_OUT	41	88-128	Location description for credit card size tickets for the outward journey from this location.
	22	CC_DESC_RTN	16	129-144	Location description for credit card size tickets for the return journey to this location.
	23	ATB_DESC_OUT	60	145-204	Location description for ATB (airline) size tickets for the outward journey from this location.
	24	ATB_DESC_RTN	30	205-234	Location description for ATB (airline) size tickets for the return journey to this location.
	25	SPECIAL_FACILITIES	26	235-260	Indicates the facilities available at the location, each character represents a special facility.
	26	LUL_DIRECTION_IND	1	261-261	Values '0', '1', '2', '3' or space. Used for LUL magnetic stripe encoding.
	27	LUL_UTS_MODE	1	262-262	Used to indicate which transport modes are encoded in the ticket (LUL magnetic stripe encoding).
	28	LUL_ZONE_1	1	263-263	Value = 'Y' or 'N', used for LUL magnetic stripe encoding. Please note that this information is supplied from the source system, and is not validated by DTD.
	29	LUL_ZONE_2	1	264-264	Value = 'Y' or 'N', used for LUL magnetic stripe encoding. Please note that this information is supplied from the source system, and is not validated by DTD.
	30	LUL_ZONE_3	1	265-265	Value = 'Y' or 'N', used for LUL magnetic stripe encoding. Please note that this information is supplied from the source system, and is not validated by DTD.
	31	LUL_ZONE_4	1	266-266	Value = 'Y' or 'N', used for LUL magnetic stripe encoding. Please note that this information is supplied from the source system, and is not validated by DTD.
	32	LUL_ZONE_5	1	267-267	Value = 'Y' or 'N', used for LUL magnetic stripe encoding. Please note that this information is supplied from the source system, and is not validated by DTD.
	33	LUL_ZONE_6	1	268-268	Value = 'Y' or 'N', used for LUL magnetic stripe encoding. Please note that this information is supplied from the source system, and is not validated by DTD.
	34	LUL_UTS_LONDON_STN	1	269-269	Values are '0' or '1'. Indicates whether the station is a London station. Used for LUL magnetic stripe encoding. Please note that this information is supplied from the source system, and is not validated by DTD.
	35	UTS_CODE	3	270-272	Location code for UTS. Used for LUL magnetic stripe encoding.
	36	UTS_A_CODE	3	273-275	Alternative UTS code. Used for LUL magnetic stripe encoding.
	37	UTS_PTR_BIAS	1	276-276	Used for LUL magnetic stripe encoding.
	38	UTS_OFFSET	1	277-277	Used for LUL magnetic stripe encoding.
	39	UTS_NORTH	3	278-280	Used for LUL magnetic stripe encoding.

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Key	Field	Field Name	Length	Position	Description
	40	UTS_EAST	3	281-283	Used for LUL magnetic stripe encoding.
	41	UTS_SOUTH	3	284-286	Used for LUL magnetic stripe encoding.
	42	UTS_WEST	3	287-289	Used for LUL magnetic stripe encoding.

4.20.3 Associated Stations record.

4.20.3.1 These records are linked to the associated Location record using the UIC_CODE and END_DATE fields.

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to R.
Y	2	RECORD_TYPE	1	2-2	Contains 'A'.
Y	3	UIC_CODE	7	3-9	UIC code of station location
Y	4	END_DATE	8	10-17	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
Y	5	ASSOC_UIC_CODE	7	18-24	UIC Code of associated station.
	6	ASSOC_CRS_CODE	3	25-27	CRS code of associated station.

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4.20.4 Railcard Geography record.

4.20.4.1 These records are linked to the associated Location record using the UIC_CODE and END_DATE fields.

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'R'.
Y	3	UIC_CODE	7	3-9	UIC Code of location.
Y	4	RAILCARD_CODE	3	10-12	Railcard code, to indicate a railcard which is valid at this location.
Y	5	END_DATE	8	13-20	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.

4.20.5 TT Group Location record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'G'.
Y	3	GROUP_UIC_CODE	7	3-9	UIC Code of group location.
Y	4	END_DATE	8	10-17	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	5	START_DATE	8	18-25	First date for which this record can be used. Format is ddmmyyyy.
	6	QUOTE_DATE	8	26-33	First date on which this record can be queried. Format is ddmmyyyy.
	7	DESCRIPTION	16	34-49	Description of group location.
	8	ERS_COUNTRY	2	50-51	Along with the ERS Code this forms a reference to the location for use by Eurostar Reservation System.
	9	ERS_CODE	3	52-54	Along with the ERS Country this forms a reference to the location for use by Eurostar Reservation System.

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4.20.6 Group Members record.

4.20.6.1 These records are linked to the associated Group Location record using the GROUP_UIC_CODE and END_DATE fields

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'M'.
Y	3	GROUP_UIC_CODE	7	3-9	UIC code of group location.
Y	4	END_DATE	8	10-17	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
Y	5	MEMBER_UIC_CODE	7	18-24	UIC code of group member.
	6	MEMBER_CRS_CODE	3	25-27	CRS code of group member.

4.20.7 Synonym record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'S'.
Y	3	UIC_CODE	7	3-9	UIC code of location.
Y	4	END_DATE	8	10-17	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
Y	5	START_DATE	8	18-25	First date for which this record can be used. Format is ddmmyyyy.
Y	6	DESCRIPTION	16	26-41	Synonym name.

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4.21 File: ROUTES

4.21.1 Description

4.21.1.1 This file contains the fare route details.

4.21.1.2 The file contains 2 record types- 'Route' records and 'Route Include/Exclude Locations' records.

4.21.1.3 Rate of change: Approximately 6 times per month.

4.21.2 Route record

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'R'.
Y	3	ROUTE_CODE	5	3-7	5 digit route code.
Y	4	END_DATE	8	8-15	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	5	START_DATE	8	16-23	First date for which this record can be used. Format is ddmmyyyy.
	6	QUOTE_DATE	8	24-31	First date on which this record can be queried. Format is ddmmyyyy.
	7	DESCRIPTION	16	32-47	Route description.
	8	ATB_DESC_1	35	48-82	First line of route description to be printed on ATB tickets.
	9	ATB_DESC_2	35	83-117	Second line of route description to be printed on ATB tickets.
	10	ATB_DESC_3	35	118-152	Third line of route description to be printed on ATB tickets.
	11	ATB_DESC_4	35	153-187	Fourth line of route description to be printed on ATB tickets.
	12	CC_DESC	16	188-203	Route description to be printed on credit card size tickets.
	13	AAA-DESC	41	204-244	Alternative Availability description for season tickets (those which allow travel from more than one station). Spaces are permitted.
	14	UTS_MODE	1	245-245	Used for magnetic stripe encoding. Values are 'U' (underground only), 'R' (rail, underground and bus, 'B' (bus only) or space where none of the above apply. Any other values in this field should be treated as space (this information is supplied from the source system, and is not validated by DTD).
	15	UTS_ZONE_1	1	246-246	Values 'Y' or 'N' to indicate whether a fare with this route includes travel in this zone. Values used in magnetic stripe encoding. Please note that this information is supplied from the source system, and is not validated by DTD.
	16	UTS_ZONE_2	1	247-247	Values 'Y' or 'N' to indicate whether a fare with this route includes travel in this zone. Values used in magnetic stripe encoding. Please note that this information is supplied from the source system, and is not validated by DTD.

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Key	Field	Field Name	Length	Position	Description
	17	UTS_ZONE_3	1	248-248	Values 'Y' or 'N' to indicate whether a fare with this route includes travel in this zone. Values used in magnetic stripe encoding. Please note that this information is supplied from the source system, and is not validated by DTD.
	18	UTS_ZONE_4	1	249-249	Values 'Y' or 'N' to indicate whether a fare with this route includes travel in this zone. Values used in magnetic stripe encoding. Please note that this information is supplied from the source system, and is not validated by DTD.
	19	UTS_ZONE_5	1	250-250	Values 'Y' or 'N' to indicate whether a fare with this route includes travel in this zone. Values used in magnetic stripe encoding. Please note that this information is supplied from the source system, and is not validated by DTD.
	20	UTS_ZONE_6	1	251-251	Values 'Y' or 'N' to indicate whether a fare with this route includes travel in this zone. Values used in magnetic stripe encoding. Please note that this information is supplied from the source system, and is not validated by DTD.
	21	UTS_NORTH	3	252-254	Contains a code used in LUL magnetic stripe encoding.
	22	UTS_EAST	3	255-257	Contains a code used in LUL magnetic stripe encoding.
	23	UTS_SOUTH	3	258-260	Contains a code used in LUL magnetic stripe encoding.
	24	UTS_WEST	3	261-263	Contains a code used in LUL magnetic stripe encoding.

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4.21.3 Route Include/Exclude Locations record

4.21.3.1 These records are linked to the associated Route record using the ROUTE_CODE and END_DATE fields

Key	Field	Field Name	Length	Position	Description
	1	UPDATE_MARKER	1	1-1	In a 'changes only' update file, indicates whether the record is to be inserted, amended or deleted ('I'/'A'/'D'). For a full file refresh all update markers in the file will be set to 'R'.
Y	2	RECORD_TYPE	1	2-2	Contains 'L'.
Y	3	ROUTE_CODE	5	3-7	5 digit route code.
Y	4	END_DATE	8	8-15	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
Y	5	ADMIN_AREA_CODE	3	16-18	Area Admin Code of location which is included in/excluded from this route.
Y	6	NLC_CODE	4	19-22	NLC code of location which is included in/excluded from this route.
	7	CRS_CODE	3	23-25	CRS code of location which is included in/excluded from this route.
	8	INCL_EXCL	1	26-26	Values are 'I' or 'E', to indicate whether the location is included in or excluded from the route.

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4.22 File: TOCS

4.22.1 Description

4.22.1.1 This file contains TOC details.

4.22.1.2 The file contains 2 record types- 'TOC' records and 'Fare TOC' records.

4.22.1.3 Rate of change: Infrequent.

4.22.2 TOC record

Key	Field	Field Name	Length	Position	Description
Y	1	RECORD_TYPE	1	1-1	Contains 'T'.
Y	2	TOC_ID	2	2-3	TOC identifier. Used in CIF to identify the trains of a particular TOC.
	3	TOC_NAME	30	4-33	TOC name.
	4	RESERVATION_SYSTEM	8	34-41	Not used at present. Allows a reservation system to be supplied for a particular TOC.
	5	ACTIVE_INDICATOR	1	42-42	Indicates whether this is an active entry ('Y' or 'N').

4.22.3 Fare TOC record

Key	Field	Field Name	Length	Position	Description
Y	1	RECORD_TYPE	1	1-1	Contains 'F'.
Y	2	FARE_TOC_ID	3	2-4	TOC identifier. Used in Flow file to identify which TOC is responsible for the fares on this flow.
Y	3	TOC_ID	2	5-6	TOC identifier. Used in CIF to identify the trains of a particular TOC. This field may be blank if the Fare TOC id does not relate to a specific carrier.
	4	FARE_TOC_NAME	30	7-36	TOC name.

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4.23   File: ADVANCE PURCHASE TICKETS

4.23.1   Description

4.23.1.1   This file contains details of tickets which require advance purchase, and the details of the advance purchase horizon.

4.23.1.2   Rate of change: Once per month (estimate)

4.23.2   Advance Purchase Tickets record

Key	Field	Field Name	Length	Position	Description
Y	1	TICKET_CODE	3	1-3	Ticket Code
Y	2	RESTRICTION_CODE	2	4-5	Restriction code or spaces.
Y	3	RESTRICTION_FLAG	1	6-6	Values are '0', '1' or '2'. '0' indicates that the Advance Purchase details apply to this ticket/restriction code (above). '1' indicates that the Advance Purchase details apply to this ticket when it is not restricted. '2' indicates that Advance Purchase details apply to this ticket regardless of restriction.
Y	4	TOC_ID	2	7-8	TOC code or spaces. If a TOC code is supplied then Advance Purchase details apply only to the specified TOC which operates the service, otherwise the Advance Purchase details apply to this ticket, regardless of which TOC's trains it is used on.
Y	5	END_DATE	8	9-16	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	6	START_DATE	8	17-24	First date for which this record can be used. Format is ddmmyyyy.
	7	CHECK_TYPE	1	25-25	Indicates which of the following fields should be checked for this ticket/restriction/TOC. '0' indicates that AP_DATA contains a BOOKING DATE. '1' indicates that AP_DATA contains ADVANCE HOURS. '2' indicates that AP_DATA contains ADVANCE DAYS.
	8	AP_DATA	8	26-33	The value of this field depends on the value of CHECK_TYPE. If CHECK_TYPE='0' then it contains the date by which this ticket must be booked. Format is ddmmyyyy. If CHECK_TYPE='1' then it contains the number of required advance hours for this ticket. For example, a value of '24' indicates that the ticket must be booked at least 24 hours in advance of travel. If CHECK_TYPE='2' then it contains the number of required advance days for this ticket. For example, a value of '1' indicates that the ticket must be booked the day before travel at the latest.
	9	BOOKING_TIME	4	34-37	The time by which the ticket must be booked, in the format "hhmm". If this field is blank, then this indicates that the ticket is available for booking up to the time that bookings close on the day indicated by the AP_DATA field. This field will be set to spaces if CHECK_TYPE = '1'.

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4.24 File: TOC SPECIFIC TICKETS

4.24.1 Description

4.24.1.1 This file contains details of tickets which may only be used on the trains of specific TOCs.

4.24.1.2 Rate of change: Once per month (estimate)

4.24.2 TOC Specific Tickets record

Key	Field	Field Name	Length	Position	Description
Y	1	TICKET_CODE	3	1-3	Ticket Code
Y	2	RESTRICTION_CODE	2	4-5	Restriction code or spaces.
Y	3	RESTRICTION_FLAG	1	6-6	Values are '0', '1' or '2'. '0' indicates that the TOC Specific Ticket details apply to this ticket/restriction code (above). '1' indicates that the TOC Specific Ticket details apply to this ticket when it is not restricted. '2' indicates that the TOC Specific Ticket details apply to this ticket regardless of restriction.
Y	4	DIRECTION	1	7-7	'O', 'R' or 'B', to indicate that the TOC Specific Ticket details apply to Outward journeys, Return journeys or Both.
Y	5	TOC_ID	2	8-9	TOC code or spaces. Spaces indicate that the TOC Specific Ticket details in this record apply to all (connecting) TOCs. This field will not be spaces if the TOC_TYPE is set to 'M'.
Y	6	TOC_TYPE	1	10-10	'M' indicates a Main TOC. This ticket can be used only where the trains used on the journey include a Main TOC. 'C' indicates a Connecting TOC. This ticket can be used on the trains of a connecting TOC, provided that the journey includes a train of one of the main TOCs.
Y	7	END_DATE	8	11-18	Last date for which this record can be used. Format is ddmmyyyy. A high date (31122999) is used to indicate records which have no defined end date.
	8	START_DATE	8	19-26	First date for which this record can be used. Format is ddmmyyyy.
	9	SLEEPER_MKR	1	27-27	'Y' or 'N'. Indicates whether sleeper accommodation is required on the leg provided by this TOC.
	10	INC_EXC_STOCK	1	28-28	'I' or 'E'. 'I' indicates that the TOC Specific Ticket details apply only to the stock types in the STOCK_LIST. If the STOCK_LIST field is empty, then the TOC Specific Ticket details apply to all stock types. 'E' indicates that the TOC Specific Ticket details apply to all stock types except those in the STOCK_LIST. A value will be supplied for STOCK_LIST whenever this field is set to 'E'.
	11	STOCK_LIST	40	29-68	A comma separated list of stock types. Valid stock types are currently 'DMU','HST','DME','DMS','DMA','D','E','ED','DEM','EMU','EML'

4.25 File: FARES DATA FEED

4.25.1 Description

4.25.1.1 This file contains the list of files delivered in the Fares Data feed extract. There will be one record per extract file.

4.25.2 Fares Data Feed record

Key	Field	Field Name	Length	Position	Description
Y	1	FILE_NAME	12	1-12	Fares Data feed file name, as shown in Section 4.

5.   Data Feed Distribution Service

5.1   Fares Data Feeds are distributed to registered data recipients by the Data Transformation and Distribution Service (DTD). The DTD is a service owned by RDG. The service is built and supported by iBlocks.

5.2   The DTD provides the following delivery methods for Registered Data Feed Users to receive their feeds:

- SFTP Pull over the Internet from a publicly addressable and accessible iBlocks provided SFTP server with the domain dtd.atocrsp.org.
- SFTP Push over the Internet from the DTD's SFTP Client to the Data Recipient's SFTP Server
- FTP Push over the internet from the DTD's FTP Client to the Data Recipients FTP Server

5.3   Feed File

5.3.1   The fares feed is provided as a compressed zip file in version 2.0 of the zip file format and is readable using common zip applications such as WINZIP and UNZIP.

5.3.2   The following sizes of Feed Files can be used as a guide for Data Recipients to plan their connectivity resources:

File type	Typical size	Expected Maximum Size
Daily File	1 – 2 MB	60 MB
Weekly / Monthly File	30 – 70 MB	100 MB
Fares Setting Round File	90 -120 MB	150 MB

5.3.3   The Fares Data Feed file (RJFAFnnn.DAT) is a manifest file for the feed and the Data Recipient should ensure that all files in the manifest file are present in the zip. The order of the files in the manifest file and in the zip file has no meaning and it is the Data Recipients' responsibility to process the files according to their requirements.

5.4   Scheduling

5.4.1   In normal operation of DTD, daily fares and timetable feed will be distributed at around 10.30pm to 1am. Data recipients should schedule checks and processing of the data accordingly. Please note however that the DTD Service does not guarantee to keep within this schedule, as it may not receive its inwards data from other providers until a later time.

5.4.2   The latest time that DTD will distribute feeds is 4pm. This will only happen where a failure has occurred in DTD processing or in upstream systems that provide inwards data to DTD. Where DTD cannot deliver feeds by 4pm, an 'Empty' feed for that day will be provided. This empty feed comprises the Full Refresh files (from the most recent feed) and empty Changes Only Files.

5.5   Resumption of feed delivery after a distribution of 'Empty' feeds

5.5.1   In circumstances where one or more 'Empty' feeds have been distributed, DTD may need to provide more than one feed in a 24-hour period. This will not be done without contacting Data Recipients to arrange the scheduling of feeds in accordance with their

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systems requirements. Data Recipients that are unable to process more than one feed in a 24-hour period would resume with a Full Refresh Feed and the sequence number of this Full Refresh will not necessarily be contiguous from the last feed sequence.

5.6 Distribution Configuration

5.6.1 Data Recipients can manage their FTP Server configuration details using the DTD Web Portal at dtdportal.atocrsp.org or by contacting the support email address: dtd.support@iblocks.co.uk.

5.6.2 Data Recipients that require a resilient service can set up two SFTP or FTP servers and the DTD will distribute Fares Data to both servers.

5.6.3 The DTD SFTP service is a resilient service. If the infrastructure on which the service fails, the DTD will automatically start up another SFTP server instance on an alternative server at the same domain and IP address.

5.6.4 Data Recipients should contact dtd.support@iblocks.co.uk for the IP address of the DTD SFTP Server, FTP Client or SFTP Client if firewall configuration is required.

5.7 Daily Feed Distribution

5.7.1 Data Recipients that choose to receive daily fares feeds will receive a full refresh of Fares Data at each fares setting round. This full refresh of Fares Data will include the Non Derivable Fares Overrides file. Fares setting rounds occur three times a year and in between each round, Fares Data is supplied on a daily schedule as incremental updates.

5.7.2 New Daily Recipients that begin the service will be provided with a full refresh of Fares Data and the Non Derivable Fares Overrides file from the most recent fares setting round.

5.8 Weekly and Monthly Feed Distribution

5.8.1 Data Recipients that choose to receive weekly fares feeds will receive a full refresh of Fares Data on Wednesday night each week. This weekly feed includes the Non Derivable Fares Overrides File.

5.8.2 Data Recipients that choose to receive monthly fares feeds will receive a full refresh of Fares Data on the last Wednesday of each period. This monthly feed includes the Non Derivable Fares Overrides File.

5.9 Help and Support

5.9.1 Help and Support including how to register for data feeds and to log any issues with the data feeds can be found on the DTD Portal - https://dtdportal.atocrsp.org/

End.