TITLE: **RJIS Datafeeds Interface Specification for Fares and Associated Data.**

STATUS: Approved for RJIS Release 4

ABSTRACT: **This document describes in details the Datafeed for the extraction of Fares information from the RJIS Data Factory**

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Andrew tolley	RSP	For approval	

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1. DOCUMENT CONTROL

1.1 Document Storage

Drafts (a, b, c, etc.) and the formally issued version (1) of this document will be kept electronically (Word6.0) and as a hard copy (formal issue only) in the RJIS project library.

The author of the document will keep an electronic version of their own.

The author's own path reference for this document is: c:\carol\rjis\docs\sp0035-2a.doc

1.2 Document History

Revision	Revision Date	Author	Summary of Changes
a	17th Sept 1998	John Pointon	First draft for comment
b	6th October 1998	Kevin Rutherford	Added file headers & footers
c	30th March 1999	Andy Burton	Some format changes
d	12th May 1999	Carol Oakden	New files added. File formats changed as required. Referential integrity files removed. Details added for individual fields within the files.
E	18th August 1999	Carol Oakden	New files added. File formats changed following comments from interested parties.
F	20th September 1999	Carol Oakden	Minor enhancements following RSP comments.
G	11th October 1999	Carol Oakden	Correction to specification of EC record in Restrictions file. Minor changes to contents of records.
H	5th January 2000	Carol Oakden	Changes to the specification of the Locations file. The unique 7 digit UIC code is now included in the key. Correction to specification of Quota Associations file. Update marker added to records.
I	14th January 2000	Carol Oakden	Changes to specification of NLC code in locations records.
1	15th February 2000	Carol Oakden	Formal Issue. Includes minor typographical corrections and also the splitting of the non-derivable fares into two separate files, with the override records held in a separate file.

1a	21st June 2000	Carol Oakden	Clarifications regarding the format of the compression of files delivered as part of this datafeed. Error in specification of quota associations file corrected. Clarification added to specification of print formats file.
2	14th July 2000	Carol Oakden	Formal issue for signature
2a	04th August 2000	Carol Oakden	Minor enhancements following RSP comments. Correction to specification for Restrictions RR type record.
3	22nd August 2000	Carol Oakden	Formal issue for signature.
4	21st March 2001	Dave Pearson	Re-issue for signature 1.4 References to documents that are not open standards removed
4a	2nd November 2001	Dave Pearson	Re-issue for CN295 1. Composite_indicator added to Non Derivable Fares file 2. Composite_indicator added to Non Derivable Fares Overrides file 3. LUL_93 added to Ticket Types file
5	14th December 2001	Dave Pearson	For issue for signature.
6	15th January 2002	Carol Oakden	Correction to description of Composite_indicator.
7	11th April 2002	Carol Oakden	Correction to key fields on Train Restriction quota exemption record in Restrictions file. All fields are now used as part of the unique key.
8	19th July 2002	Alan Mountford	Date capping rules , as finalised during a meeting with Schlumberger Sema on 10th July, for Non Derivable Fares now included.
9	01st August 2002	Alan Mountford	Clarification of date capping effects following version 8 review comments from Robert Hughes.
10	12th February 2003	Alan Mountford	Clarification of Date Capping following version 10 draft review by Paul Eastment.
10a	1st December 2003	Dave Pearson	Draft for RJIS Release 4 Quota Associations removed
11	11th February 2004	Dave Pearson	Formal issue for RJIS Release 4.

1.3 Changes Forecast

None at present.

1.4 Referenced Documents

None

1.5 Abbreviations

ATOC	Association of Train Operating Companies
NFM	National Fares Manual
RSP	Rail Settlement Plan Ltd.
RJIS	Rail Journey Information Service

2. SCOPE

Data feeds will allow all or selected parts of the static data held within the Data Factory to be made available to a file based system. It is intended that the Datafeeds will run nightly therefore static data is defined as data not required to be extracted more frequently than every 24 hours.

Dynamic extracts from RJIS are covered by API (Application Program Interface) specifications.

The data feed services will be available at each phase of the RJIS Development but will be limited to the data available in the data factory at each stage.

The RJIS System will be responsible for the delivering of the relevant files to an approved destination that meets the Fujitsu Services Ltd minimum specification, see section 5.

3. APPROACH

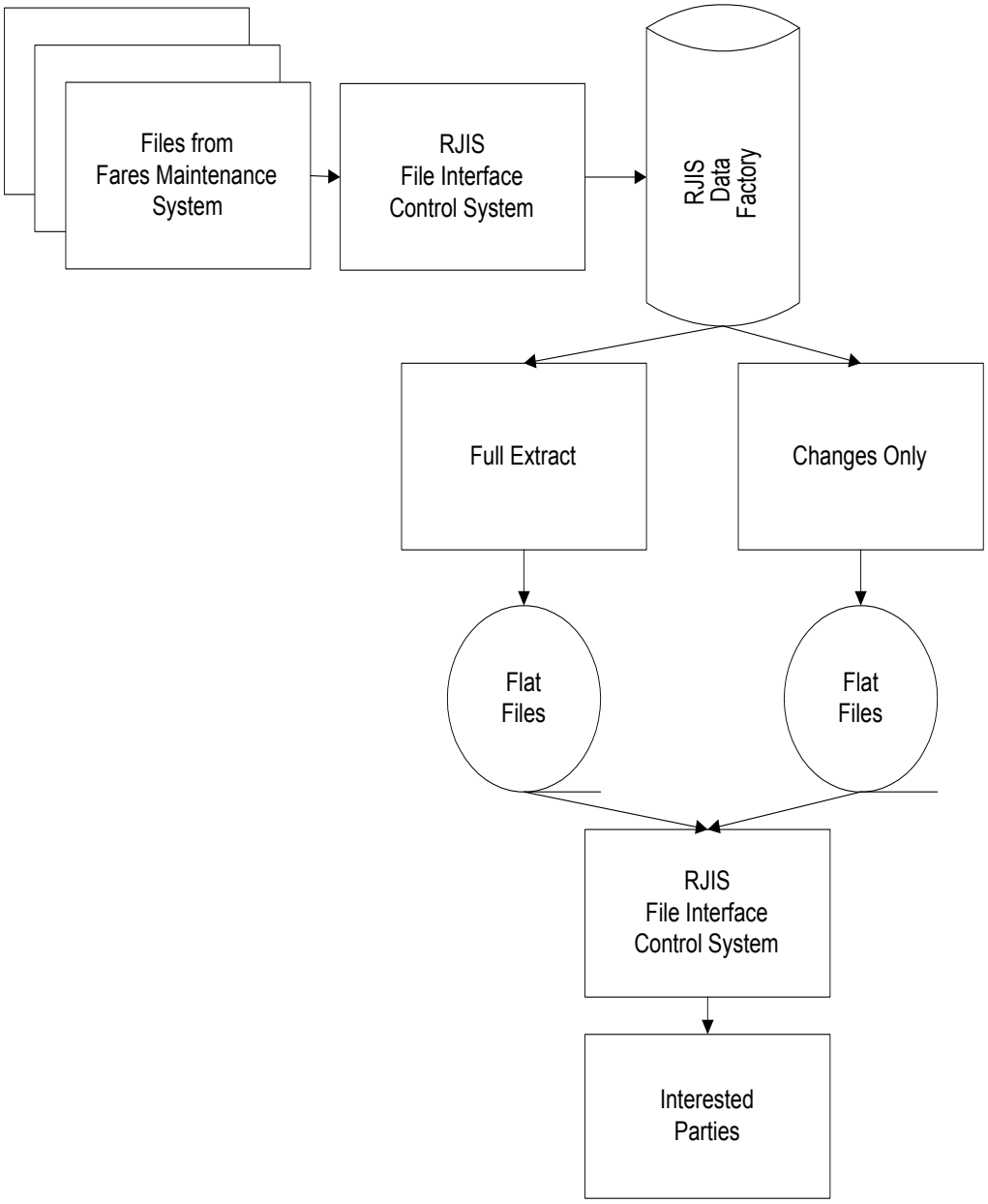
This document describes in detail the Datafeed for Fares Data extracted from the RJIS Data Factory.

It is based on the generic specification which defines the basic rules and procedures that will apply to the datafeeds.

Other documents in this phase are:

RJIS Datafeeds Interface Specification for National Routing Guide	- sp0037
RJIS Datafeeds Interface Specification for Timetable Data	- sp0036

The following diagram shows how the original data will be captured into the RJIS Data Factory and the subsequent extraction of the information to the Interested Parties.


Files from
Fares Maintenance
System
RJIS
File Interface
Control System
RJIS
Data
Factory
Full Extract
Changes Only
Flat
Files
Flat
Files
RJIS
File Interface
Control System
Interested
Parties

4. STRUCTURE

Datafeeds will be delivered in fixed format flat text files. Some files will contain several record types. These will have been extracted from various database tables as defined in the Detailed Design phase.

The following export file types are defined for the Fares export:

File type	Contents	Changes only updates?	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.	No	50Mb	RJFA*tnnn*.NDF
Non-derivable fare overrides file	Amendments to the records in the non-derivable fares file, including additions, deletions and replacements.	Yes	0-50Mb	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	1.2Mb	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.	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	Supplement rules and supplements.	Yes	115Kb	RJFA*tnnn*.SUP

file				
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
Rounding rules	Rounding rules to be used when fares in the flow file are subject to a discount, eg 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	475Kb	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

(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).

If the file is a full refresh, it will contain *all* appropriate records from the RJIS Fares database. For "updates only" files the file will normally contain the appropriate Insert/Amend/Delete records. Note that if a "updates only" file is requested, but the records in the file have been superseded (for example, when there is a fares setting round), then the "updates only" file may contain a full set of Refresh records.

Not all files are available as "changes only" updates. Those containing fewer than 250 records, or are updated very infrequently will be supplied as a replacement file when any of the related database tables are updated.

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.

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

5. KEY TECHNICAL DETAILS

Output from the Fares datafeed 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.

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: *RJIS_module version*

where *type* is one of a fixed list of strings naming the file types below.

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

Every file will terminate with a comment of the form:

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

thus providing some protection against inadvertent file truncation.

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 above table).

6. FILE TYPES

6.1 File :- FLOW

Description :-

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

Rate of change :-

Possibly daily.

Flow record

Key	Field Name	Length	Description
	UPDATE-MARKER	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	RECORD_TYPE	1	Contains "F".
Y	ORIGIN_CODE	4	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	DESTINATION_CODE	4	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	ROUTE_CODE	5	Route code.
Y	STATUS_CODE	3	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	USAGE_CODE	1	Permitted values are C, 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). C type records are summation records, used for creating G records and are not used for chargeable fares.
Y	DIRECTION	1	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	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	TOC	3	The Fare TOC code of the TOC setting the fares on the flow.
	CROSS_LONDON_IND	1	Values are 0 to indicate not via London, 1 to indicate via London including Underground, 2 to indicate via London excluding Underground, 3 = via Thameslink.
	NS_DISC_IND	1	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
	PUBLICATON_IND	1	Values Y or N to indicate whether or not the fares on this flow are published in the National Fares Manual.
	FLOW_ID	7	Uniquely identifies this flow.

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

Key	Field Name	Length	Description
	UPDATE-MARKER	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	RECORD_TYPE	1	Contains "T".
Y	FLOW_ID	7	Uniquely identifies the flow to which the fare pertains.
Y	TICKET_CODE	3	3 character ticket code for the fare.
	FARE	8	Fare in pence.
	RESTRICTION_CODE	2	Restriction code associated with this fare.

6.2 File :- STATION CLUSTERS

Description :-

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

Rate of change :-

Approximately 15 times per year.

Key	Field Name	Length	Description
	UPDATE-MARKER	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	CLUSTER_ID	4	4 character code (alphanumeric) representing the NLC code at which the cluster fares are set.
Y	CLUSTER_NLC	4	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	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.

6.3 File :- NON DERIVABLE FARES

Description :-

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

Rate of change : -

3-4 times per year.

Date Capping Rules
Capping rules are applied to fares to ensure that the effective dates for all fares, for an NFM, lie within the extent of that NFM.
For example, the 'end date' for each new NFM is usually open-ended. When a new NFM is created, the 'effective end dates' for fares belonging to the previous NFM may need adjusting as the 'start date' of the new NFM now defines the end of the previous NFM.
Although the effective dates of an NFM can be changed at any time, it normally only occurs at the creation of a new NFM.

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.

The following are the capping rules, as agreed with RSP:

- 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.

Success of the above rules is dependent upon the integrity of data supplied to Fujitsu.

Key	Field Name	Length	Description
	UPDATE_MARKER	1	This file is always supplied as a full file refresh. All update markers in the file will be set to R.
Y	ORIGIN_CODE	4	A code representing the flow origin, either NLC, Location Zone No or Location County.
Y	DESTINATION_CODE	4	A code representing the flow destination, either NLC or Location County. Does not include a Location Zone No.
Y	ROUTE_CODE	5	5 digit route code.

Y	RAILCARD_CODE	3	Railcard code. May be spaces if the non-derivable fare applies without a railcard discount.
Y	TICKET_CODE	3	Fare ticket code.
Y	ND_RECORD_TYPE	1	Value = N, to indicate a non-derivable fare record.
Y	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy. Subject to above Capping Rules.
	QUOTE_DATE	8	First date on which this record can be used for queries. Format is ddmmyyyy.
	SUPPRESS_MKR	1	Value = N. The suppress marker is only used in the non-derivable fare overrides file.
	ADULT_FARE	8	An 8 character numeric fare value, in pence. 99999999 indicates that no adult fare is available for the ticket/railcard combination.
	CHILD_FARE	8	An 8 character numeric fare value, in pence. 99999999 indicates that no child fare is available for the ticket/railcard combination.
	RESTRICTION_CODE	2	2 character restriction code; may be spaces.
	COMPOSITE_INDICATOR	1	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.
	CROSS_LONDON_IND	1	Indicates whether this is a cross London fare (Y or N).
	PS_IND	1	Indicates whether private settlement applies to this fare (Y or N).

6.4 File :- NON DERIVABLE FARE OVERRIDES

Description :-

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

a) replace records in the non-derivable fares file.

b) add to records in the non-derivable fares file.

c) delete records in the non-derivable fares file.

Rate of change : -

Possibly daily.

Key	Field Name	Length	Description
	UPDATE_MARKER	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	ORIGIN_CODE	4	A code representing the flow origin, either NLC, Location Zone No or Location County.
Y	DESTINATION_CODE	4	A code representing the flow destination, either NLC or Location County. Does not include a Location Zone No.
Y	ROUTE_CODE	5	5 digit route code.
Y	RAILCARD_CODE	3	Railcard code. May be spaces if the non-derivable fare applies without a railcard discount.
Y	TICKET_CODE	3	Fare ticket code.
Y	ND_RECORD_TYPE	1	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	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	QUOTE_DATE	8	First date on which this record can be used for queries. Format is ddmmyyyy.
	SUPPRESS_MKR	1	Values are Y or N. If the value is Y this indicates that the type N record in the non-

			derivable fares file with the same ORIGIN_CODE, DESTINATION_CODE, ROUTE_CODE, TICKET_CODE and RAILCARD_CODE should be suppressed (ie treated as if it does not exist) between the START_DATE and END_DATE on this record. Records with this field set to Y will contain spaces in all the fields following this one.
	ADULT_FARE	8	An 8 character numeric fare value, in pence. 99999999 indicates that no adult fare is available for the ticket/railcard combination.
	CHILD_FARE	8	An 8 character numeric fare value, in pence. 99999999 indicates that no child fare is available for the ticket/railcard combination.
	RESTRICTION_CODE	2	2 character restriction code; may be spaces.
	COMPOSITE_INDICATOR	1	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.
	CROSS_LONDON_IND	1	Indicates whether this is a cross London fare (Y or N).
	PS_IND	1	Indicates whether private settlement applies to this fare (Y or N).

6.5 File :- NON STANDARD DISCOUNTS

Description :-

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.

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 to 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.

Rate of change :-

Approximately 30 times per year.

Key	Field Name	Length	Description
	UPDATE_MARKER	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	ORIGIN_CODE	4	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	DESTINATION_CODE	4	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	ROUTE_CODE	5	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	RAILCARD_CODE	3	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 (eg when calculating a child fare).

Y	TICKET_CODE	3	Contains a ticket code, *** (3 asterisks). *** indicates that this record applies to all tickets, except where a record exists for an explicit ticket.
Y	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	QUOTE_DATE	8	First date on which this record is available for query. Format is ddmmyyyy.
	USE_NLC	4	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.
	ADULT_NODIS_FLAG	1	Indicates whether the adult add on should be applied. N indicates that the adult fare should be calculated as normal (ie 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.
	ADULT_ADD_ON_AMOUNT	8	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.
	ADULT_REBOOK_FLAG	1	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.
	CHILD_NODIS_FLAG	1	Indicates whether the child add on should be applied. N indicates that the child fare should be calculated as normal (ie 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.
	CHILD_ADD_ON_AMOUNT	8	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.
	CHILD_REBOOK_FLAG	1	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).

6.6 File :- TICKET TYPES

Description :-

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

Rate of change :-

Approximately 4 times per week.

Key	Field Name	Length	Description
	UPDATE_MARKER	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	TICKET_CODE	3	Alphanumeric ticket code.
Y	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	QUOTE_DATE	8	First date on which this record can be queried. Format is ddmmyyyy.
	DESCRIPTION	15	Ticket description.
	TKT_CLASS	1	Ticket class, currently 1, 2 or 9.
	TKT_TYPE	1	Ticket type; single, return or season (S, R or N).
	TKT_GROUP	1	Ticket group; First, Standard, Promotion or Euro (F, S, P or E).
	LAST_VALID_DAY	8	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.
	MAX_PASSENGERS	3	Defines the maximum number of passengers who can travel on one ticket.
	MIN_PASSENGERS	3	Defines the minimum number of passengers who can travel on one ticket.
	MAX_ADULTS	3	Defines the maximum number of adults who can travel on one ticket.

	MIN_ADULTS	3	Defines the minimum number of adults who can travel on one ticket.
	MAX_CHILDREN	3	Defines the maximum number of children who can travel on one ticket.
	MIN_CHILDREN	3	Defines the minimum number of children who can travel on one ticket.
	RESTRICTED_BY_DATE	1	Y or N to indicate whether the ticket is restricted to particular dates.
	RESTRICTED_BY_TRAIN	1	Y or N to indicate whether the ticket is restricted to particular trains.
	RESTRICTED_BY_AREA	1	Y or N to indicate whether the ticket is restricted to a particular area.
	VALIDITY_CODE	2	Validity code.
	ATB_DESCRIPTION	20	Description to be printed on ATB (airline) type tickets.
	LUL_XLONDON_ISSUE	1	Number of gate passes to issue. Permitted values are 0, 1 or 2.
	RESERVATION_REQUIRED	1	Indicates whether reservation is required when using this ticket. Values are Y (yes), 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). Y is synonymous with B.
	CAPRI_CODE	3	CAPRI code.
	LUL_93	1	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 RJIS.
	UTS_CODE	2	Used in LUL magnetic stripe encoding to indicate the ticket type (eg 98 = season). Permitted values are ‘ 0’, 00, 01, 04, 29 or 98.
	TIME_RESTRICTION	1	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.
	FREE_PASS_LUL	1	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.
	PACKAGE_MKR	1	Indicates whether this ticket is a package. N=Not a package, S = supplements package, F= Fares package, P = both fares and supplements package.
	FARE_MULTIPLIER	3	Multiplication factor used when calculating package fares.
	DISCOUNT_CATEGORY	2	Discount category. Used when a ticket is discounted to find the discount amount in the appropriate railcard's status discount record.

6.7 File :- TICKET VALIDITY

Description :-

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

Rate of change :-

Approximately once per month.

Key	Field Name	Length	Description
Y	VALIDITY_CODE	2	A 2 digit validity code.
Y	END_DATE	8	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.
	START_DATE	8	The First date for which this record can be used. Format is ddmmyyyy.
	DESCRIPTION	20	Textual description of the Validity.
	OUT_DAYS	2	Numeric value 0-30. Indicates the number of days outward validity, ie the ticket can be used for n days for outward travel.
	OUT_MONTHS	2	Numeric value 0-12. Indicates the number of months outward validity, ie the ticket can be used for n months for outward travel.
	RET_DAYS	2	Numeric value 0-30. Indicates the number of days return validity, ie the ticket can be used for n days for return travel.
	RET_MONTHS	2	Numeric value 0-12. Indicates the number of months return validity, ie the ticket can be used for n months for return travel.
	RET_AFTER_DAYS	2	Numeric value 0-30. Indicates the number of days which must elapse before a return journey is permitted, from the outward travel date.
	RET_AFTER_MONTHS	2	Numeric value 0-12. Indicates the number of months which must elapse before a return journey is permitted, from the outward travel date.
	RET_AFTER_DAY	2	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 indicates that this is not relevant.
	BREAK_OUT	1	Indicates whether a break of journey is permitted on the outward journey.

			Permitted values are Y or N.
	BREAK_RTN	1	Indicates whether a break of journey is permitted on the return journey. Permitted values are Y or N.
	OUT_DESCRIPTION	14	Short description of outward validity, printed on the ticket. Spaces permitted.
	RTN_DESCRIPTION	14	Short description of return validity, printed on the ticket. Spaces permitted.

6.8 File :- JOURNEY SEGMENTS

Description :-

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

Rate of change :-

Approximately 3 times per year.

Key	Field Name	Length	Description
Y	JS_CODE	3	Journey segment identifier.
Y	END_DATE	8	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.
	START_DATE	8	The first date on which this record can be used. Format is ddmmyyyy.
	LINE	3	Values 000 – 127 used in LUL magnetic stripe encoding.
	START	2	Values 00-31 used in LUL magnetic stripe encoding.
	END	2	Values 00-31 used in LUL magnetic stripe encoding.

6.9 File :- TICKET PUBLICATION

Description :-

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

Rate of change :-

Approximately once per month.

Key	Field Name	Length	Description
Y	TICKET_CODE	3	Ticket code.
	PUBLICATION_SEQUENCE	3	Numeric value to indicate the order in which this ticket is to be published in the National Fares Manual.

6.10 File :- PRINT FORMATS

Description :-

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

Rate of change :-

Approximately 5 times per month.

Pointer record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains "P"
Y	SUPPLEMENT_CODE	3	Supplement code. This code may represent a supplement code, ticket code, railcard code or a rail rover code.
Y	RAILCARD_CODE	3	This will be *** if the format of the ticket does not vary with the railcard used, otherwise may contain a railcard code or spaces.
	REV_CODE	3	This is the key to be used to access the print formats file when in revenue mode.
	NON_REV_CODE	3	This is the key to be used to access the print format file when in non-revenue mode.
	TEXT_CODE_1	3	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.
	TEXT_CODE_2	3	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.
	TEXT_CODE_3	3	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.
	TEXT_CODE_4	3	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.
	TEXT_CODE_5	3	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.

Text record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains "T".
Y	TEXT_CODE	3	A unique code to identify a particular line of text.
	FREE_TEXT	72	The free text line to print on a supplement voucher. Spaces are permitted.

6.11 File :- CLASS LEGENDS

Description :-

This file contains Class text to be printed on tickets.

Rate of change :-

Infrequent.

Key	Field Name	Length	Description
Y	CLASS	1	Class indicator
Y	END_DATE	8	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.
	START_DATE	8	The First date for which this record can be used. Format is ddmmyyyy.
	ATB_DESC	8	Class description to be printed on ATB (airline) size tickets.
	CC_DESC	3	Class description to be printed on credit card size tickets.

6.12 File :- RAIL ROVERS

Description :-

This file contains details of Rail Rovers and Rail Rover fares. The file contains 2 record types.

Rate of change :-

Approximately twice per month.

Rail Rover record

Key	Field Name	Length	Description
Y	RECORD_TYPE	1	Contains "R".
Y	ROVER_CODE	3	3 character rail rover code.
Y	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	QUOTE_DATE	8	First date on which this record can be queried. Format is ddmmyyyy.
	DESCRIPTION	30	Textual description of the rail rover.
	TICKET_DESC	15	Short description for rail rover.
	CAPRI_TICKET_CODE	3	Holds the Capri ticket type, may be spaces.
	ROVER_ACCOUNTING_CODE	4	Contains a code which identifies the rail rover to the accounting system.
	DAYS_TRAVEL	3	Holds the number of days travel allowed with the rail rover within its period of validity.
	MONTHS_VALID	2	Holds the number of months the rail rover is valid for.
	DAYS_VALID	2	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.

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

Key	Field Name	Length	Description
Y	RECORD_TYPE	1	Contains "P".
Y	ROVER_CODE	3	3 character rail rover code.
Y	END_DATE	8	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	RAILCARD_CODE	3	Railcard code. The fare in this record is that which applies when this railcard is used. Spaces means that no railcard is being used.
Y	ROVER_CLASS	1	The class of the rail rover ticket. Permitted values are 1, 2 or 9.
	ADULT_FARE	8	The adult fare for the rail rover with the supplied railcard, in pence.
	CHILD_FARE	8	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.
	RESTRICTION_CODE	2	2 character restriction code. May be spaces.

6.13 File :- PACKAGES

Description :-

This file contains details of Packages and inclusive supplements. The file contains 2 record types.

Rate of change :-

Approximately 6-10 times per month.

Package record

Key	Field Name	Length	Description
Y	RECORD_TYPE	1	Contains "P".
Y	PACKAGE_CODE	3	3 character package code.
Y	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used.
	QUOTE_DATE	8	First date on which this record can be queried.
	RESTRICTION_CODE	2	2 character restriction code. May contain spaces if no restriction applies to this package.
	ORIGIN_FACILITIES	26	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.
	DESTINATION_FACILITIES	26	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.

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

Key	Field Name	Length	Description
Y	RECORD_TYPE	1	Contains "S".
Y	PACKAGE_CODE	3	3 character package code.
Y	END_DATE	8	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	SUPPLEMENT_CODE	3	Supplement code identifying a supplement contained in the package.
	DIRECTION	1	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.
	PACK_NUMBER	3	Indicates the number of passengers entitled to supplements of this type in the package.
	ORIGIN_FACILITY	1	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.
	DEST_FACILITY	1	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.

6.14 File :- SUPPLEMENTS

Description :-

This file contains details of Supplement Rules and Supplements. The file contains 5 record types.

Rate of change :-

Approximately 10 times per month

Supplement Rule record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains "R".
Y	RULE_NUMBER	3	Rule number.
Y	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	QUOTE_DATE	8	First date on which this record can be queried. Format is ddmmyyyy.
	TRAIN_UID	7	Train identifier (actually 6 alphanumeric characters followed by a space). 7 spaces if not applicable.
	TRAIN_UID_DESC	39	Train description.
	FARE_CLASS	1	Single character class (values 1, 2, 9 or *). Asterisk means the class is not significant.
	QUOTA	1	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.
	WEEKEND_FIRST	1	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.
	SILVER_STANDARD	1	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.
	RAILCARD	1	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.
	CATERING_CODE	1	Catering code, space or *. These values are used to compare with the catering available on the train.
	SLEEPER	1	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.
	ACCOM_CLASS	1	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.
	STATUS	1	Values A, C or B. Indicates whether the rule applies to Adults, Children or Both.
	RESERVATION_STATUS	3	Up to 3 reservation status codes, or spaces. Indicates which reservation statuses the rule applies to.
	SECTORS	3	Up to 3 train sector codes, or spaces. Indicates which sector codes the rule applies to.

Rule applies record. 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 Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains "A".
Y	RULE_NUMBER	3	Rule number.
Y	END_DATE	8	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	IE_MARKER	1	I to indicate "Includes", E to indicate "Excludes".
Y	CONDITION_TYPE	1	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	IE_CODE	3	A ticket, railcard, restriction or TOC code, depending on the value of CONDITION_TYPE. Note that ticket codes can include * (eg SR*) to allow matching on several tickets.

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

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains "M".
Y	RULE_NUMBER	3	Rule number.
Y	END_DATE	8	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	SUPPLEMENT_CODE	3	The supplement code for the supplement included in the rule.
	OM_FLAG	1	Values are "O" or "M" to indicate whether the supplement in Optional or Mandatory in this rule.

Supplement record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains "S".
Y	SUPPLEMENT_CODE	3	Supplement code.
Y	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	QUOTE_DATE	8	First date on which this record can be queried. Format is ddmmyyyy.
	DESCRIPTION	20	Supplement description. May include # (hash) or $ (dollar) to denote currency (pounds).
	SHORT_DESC	12	Abbreviated description of supplement May include # (hash) or $ (dollar) to denote currency (pounds). This is the description printed on the ticket for this supplement.
	SUPPL_TYPE	3	3 character supplement type. Permitted values are SEA, QUO, SLQ, SLE, TSP, BIK, EXA. Spaces are not permitted.
	PRICE	5	Supplement price in pence.

	CPF_TICKET_TYPE	5	This is the ticket code for this item in the Central Prices File.
	MIN_GROUP_SIZE	1	The minimum group size for this supplement.
	MAX_GROUP_SIZE	1	The maximum group size for this supplement.
	PER_LEG_OR_DIR	1	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").
	CLASS_TYPE	1	Supplement class.
	CAPRI_CODE	3	CAPRI code. Note that if sundry code is supplied then CAPRI code will be spaces.
	SEP_TKT_IND	1	Values Y or N to indicate whether a separate ticket must be issued for this supplement.
	RESVN_TYPE	2	Permitted values are 00 and 01, used when making reservations for this supplement.
	SUNDRY_CODE	5	Accounting code for supplement recognised by accounting system. Note that if CAPRI code is supplied then sundry code will be spaces.

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

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains "O".
Y	SUPPLEMENT_CODE	3	A unique supplement code.
Y	END_DATE	8	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	OVERRIDDEN_SUPPLEMENT	3	Supplement code. A supplement whose cost is overridden by the supplement in SUPPLEMENT_CODE.

6.15 File :- RAILCARDS

Description :-

This file contains details of the railcards.

Rate of change :-

Approximately 3 times per month.

Key	Field Name	Length	Description
Y	RAILCARD_CODE	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	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	QUOTE_DATE	8	First date on which this record can be quoted. Format is ddmmyyyy.
	HOLDER_TYPE	1	A for Adult, C for Child.
	DESCRIPTION	20	Railcard description.
	RESTRICTED_BY_ISSUE	1	Value Y or N. Indicates whether the railcard is restricted issue.
	RESTRICTED_BY_AREA	1	Value Y or N. Indicates whether the railcard is restricted by area (ie it can only be used in areas denoted by the Railcard Geography held in the Locations file).
	RESTRICTED_BY_TRAIN	1	Value Y or N. Indicates whether the railcard is restricted to particular trains.
	RESTRICTED_BY_DATE	1	Value Y or N. Indicates whether the railcard is restricted by date.
	MASTER_CODE	3	The master railcard code, used when discounting fares using this railcard. This may contain the same code as the RAILCARD_CODE field.
	DISPLAY_FLAG	1	Indicates whether the railcard must be displayed when a ticket is purchased.
	MAX_PASSENGERS	3	0-999 – the maximum number of passengers whose fares may be discounted using 1 railcard.
	MIN_PASSENGERS	3	0-999 – the minimum number of passengers required for fares to be

			discounted using 1 railcard.
	MAX_HOLDERS	3	0-999 – the maximum number of railcard holders required to qualify for a discount with this railcard.
	MIN_HOLDERS	3	0-999 – the minimum number of railcard holders required to qualify for a discount with this railcard.
	MAX_ACC_ADULTS	3	0-999 – the maximum number of accompanied adults whose fares may be discounted using 1 railcard.
	MIN_ACC_ADULTS	3	0-999 – the maximum number of accompanied adults whose fares may be discounted using 1 railcard.
	MAX_ADULTS	3	0-999 – the maximum number of adults whose fares may be discounted using 1 railcard.
	MIN_ADULTS	3	0-999 – the maximum number of adults whose fares may be discounted using 1 railcard.
	MAX_CHILDREN	3	0-999 – the maximum number of accompanied adults whose fares may be discounted using 1 railcard.
	MIN_CHILDREN	3	0-999 – the maximum number of accompanied adults whose fares may be discounted using 1 railcard.
	PRICE	8	Railcard price in pence.
	DISCOUNT_PRICE	8	Discount price, in pence, to be charged to holders of other selected railcards.
	VALIDITY_PERIOD	4	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.
	LAST_VALID_DATE	8	The last date on which this railcard is valid. Format is ddmmyyyy. Will be spaces if the record contains a validity period.
	PHYSICAL_CARD	1	Y or N to indicate whether the railcard is a physical document.
	CAPRI_TICKET_TYPE	3	CAPRI Ticket code.
	ADULT_STATUS	3	Status code to be used when calculating adult fares with this railcard.
	CHILD_STATUS	3	Status code to be used when calculating child fares with this railcard.
	AAA_STATUS	3	Status code to be used when calculating AAA fares with this railcard.

6.16 File :- RAILCARD MINIMUM FARES

Description :-

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.

Rate of change :-

Approximately 2/3 times per month.

Key	Field Name	Length	Description
Y	RAILCARD_CODE	3	Railcard code.
Y	TICKET_CODE	3	Ticket code. The minimum fare applies the railcard/ticket combination.
Y	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	MINIMUM_FARE	8	The minimum fare, in pence, to be charged for this ticket/railcard combination when minimum fares apply.

6.17 File :- STATUS DISCOUNTS

Description :-

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

The file contains 2 record types – the status record, and the status discount record.

Rate of change :-

Approximately once per month.

Status record

Key	Field Name	Length	Description
Y	RECORD_TYPE	1	Contains "S".
Y	STATUS_CODE	3	3 character status code.
Y	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	ATB_DESC	5	Description to be printed on ATB size (airline) tickets. Spaces are permitted.
	CC_DESC	5	Description to be printed on credit card size tickets. Spaces are permitted.
	UTS_CODE	1	UTS code, used in LUL magnetic stripe encoding.
	FIRST_SINGLE_MAX_FLAT	8	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.
	FIRST_RETURN_MAX_FLAT	8	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.
	STD_SINGLE_MAX_FLAT	8	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.
	STD_RETURN_MAX_FLAT	8	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.
	FIRST_LOWER_MIN	8	Contains the lower minimum fare, in pence, for a first class ticket.
	FIRST_HIGHER_MIN	8	Contains the higher minimum fare, in pence, for a first class ticket.
	STD_LOWER_MIN	8	Contains the lower minimum fare, in pence, for a standard class ticket.
	STD_HIGHER_MIN	8	Contains the higher minimum fare, in pence, for a standard class ticket.
	FS_MKR	1	Y or N to indicate whether this railcard may be used with First class single tickets.
	FR_MKR	1	Y or N to indicate whether this railcard may be used with First class return tickets.
	SS_MKR	1	Y or N to indicate whether this railcard may be used with Standard class single tickets.
	SR_MKR	1	Y or N to indicate whether this railcard may be used with Standard class return tickets.

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

Key	Field Name	Length	Description
	RECORD_TYPE	1	Contains “D”.
Y	STATUS_CODE	3	3 character status code.
Y	END_DATE	8	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	DISCOUNT_CATEGORY	2	A value from 1 to 20 to indicate the discount category for which the following fields apply.
	DISCOUNT_INDICATOR	1	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.
	DISCOUNT_PERCENTAGE	3	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%.

6.18 File :- ROUNDING RULES

Description :-

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.

Rate of change :-

Approximately once or twice per year.

Status record

Key	Field Name	Length	Description
Y	RULE_NO	2	Rounding rule number. Values are alphanumeric.
Y	END_DATE	8	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	RULE_INDEX	2	Sequence number within the rounding rule of the max/round amounts.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	MAX_AMOUNT	8	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.
	ROUND_AMOUNT	8	The amount, in pence, by which the fare is to be rounded, for fares up the value in MAX_AMOUNT.

6.19 File :- RESTRICTIONS

Description :-

This file contains the restriction information. The file includes several record types, including those for the ticket/supplement calendars (ie those things restricted by date).

Rate of change :-

Approximately three times per week.

RD – Restriction dates record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "RD".
Y	CF_MKR	1	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.
	START_DATE	8	First date for which records with the matching CF_MKR can be used. Format is ddmmyyyy.
	END_DATE	8	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.

RH – Restriction header record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "RH".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.

Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
	DESCRIPTION	30	Restriction description.
	DESC_OUT	50	Description text for the restriction for an outward journey. Spaces are permitted.
	DESC_RTN	50	Description text for the restriction for a return journey. Spaces are permitted.
	TYPE_OUT	1	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.
	TYPE_RTN	1	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.
	CHANGE_IND	1	Y or N. Indicates whether a change of trains is allowed.

HD – Restriction header date bands record. These records are linked to the associated Restriction header record using the CF_MKR and RESTRICTION_CODE fields.

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "HD".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	DATE_FROM	4	Date band start date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
Y	DATE_TO	4	Date band end date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
	DAYS	7	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.

HL – Restriction header route locations record. . These records are linked to the associated Restriction header record using the CF_MKR and RESTRICTION_CODE fields.

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "HL".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	LOCATION_CRS_CODE	3	CRS code of location. The restriction applies to journeys to/from/changing at this location.

HC – Restriction header allowed changes record. . These records are linked to the associated Restriction header record using the CF_MKR and RESTRICTION_CODE fields.

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "HC".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	ALLOWED_CHANGE	3	CRS code of location at which the passenger is allowed to change if this restriction applies.

HA – Restriction header additional restriction record. These records are linked to the associated Restriction header record using the CF_MKR and RESTRICTION_CODE fields.

Key	Field Name	Length	Description

	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "HA".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	ADDITIONAL_RESTRICTION	2	An additional restriction code which may also apply if the ORIGIN and DESTINATION matches the journey.
Y	ORIGIN	3	CRS code of journey origin to be matched to determine whether the additional restriction should be used.
Y	DESTINATION	3	CRS code of journey destination to be matched to determine whether the additional restriction should be used.

TR – Time restriction record.

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "TR".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	SEQUENCE_NO	4	Numeric sequence number. Several time restrictions may apply with the same restriction code; this field is used to uniquely identify them.
Y	OUT_RET	1	O or R, to indicate whether the restriction applies to outward journeys or return journeys.
	TIME_FROM	4	4 numeric characters in the format HHMM. Gives the start time at which this time restriction applies.
	TIME_TO	4	4 numeric characters in the format HHMM. Gives the end time until which this time

			restriction applies.
	ARR_DEP_VIA	1	A, D or V. Indicates whether the time restriction applies to arrivals at, departures from or changing at the location in LOCATION.
	LOCATION	3	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
	RSTR_TYPE	1	T or A. Indicates whether the time restriction relates to the timetable or actual running time of the train.
	TRAIN_TYPE	1	Contains a sector code which is used to indicate that the restriction applies to particular train types.
	MIN_FARE_FLAG	1	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.

TD – Time Restriction date bands record. These records are linked to the associated Time Restriction record using the CF_MKR, RESTRICTION_CODE and SEQUENCE_NO fields.

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "TD".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	SEQUENCE_NO	4	Numeric sequence number. Several time restrictions may apply with the same restriction code; this field is used to uniquely identify them.
Y	OUT_RET	1	O or R, to indicate whether the restriction applies to outward journeys or return journeys.
Y	DATE_FROM	4	Date band start date (within the start date/end date of the restriction, indicated by

			Current or Future) in the form MMDD.
Y	DATE_TO	4	Date band end date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
	DAYS	7	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.

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

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "TT".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	SEQUENCE_NO	4	Numeric sequence number. Several time restrictions may apply with the same restriction code; this field is used to uniquely identify them.
Y	OUT_RET	1	O or R, to indicate whether the restriction applies to outward journeys or return journeys.
Y	TOC_CODE	2	TOC code. The time restriction only applies to trains provided by this TOC.

TP – Time Restriction privilege data record. These records are linked to the associated Time Restriction record using the CF_MKR, RESTRICTION_CODE and SEQUENCE_NO fields

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "TP".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	SEQUENCE_NO	4	Numeric sequence number. Several time restrictions may apply with the same restriction code; this field is used to uniquely identify them.
Y	OUT_RET	1	O or R, to indicate whether the restriction applies to outward journeys or return journeys.
Y	BARRED_CLASS	1	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	BARRED_TICKETS	1	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	BARRED_SEASONS	1	Indicates whether season tickets are barred to users of privilege railcards, if this restriction applies Values are Y or N.
Y	BARRED_FIRST	1	Indicates whether First can travel as standard when using a privilege railcard, if this restriction applies Values are Y or N.
Y	FROM_LOCATION	3	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	TO_LOCATION	3	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.

TE – Time Restriction privilege pass exceptions record. These records are linked to the associated Time Restriction record using the CF_MKR, RESTRICTION_CODE and SEQUENCE_NO fields

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "TE".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	SEQUENCE_NO	4	Numeric sequence number. Several time restrictions may apply with the same restriction code; this field is used to uniquely identify them.
Y	OUT_RET	1	O or R, to indicate whether the restriction applies to outward journeys or return journeys.
Y	PASS_EXCEPTION	1	Exception code.

SR – Train Restriction record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "SR".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	TRAIN_NO	6	Train UID
Y	OUT_RET	1	O or R, to indicate whether the restriction applies to outward journeys or return journeys.
	QUOTA_IND	1	Y or N. Used with Train Restriction quota data records to determine whether the fare is restricted or quota controlled.
	SLEEPER_IND	1	Y or N to indicate whether the restriction

			applies to sleeper only trains.

SD – Train Restriction date bands record. These records are linked to the associated Train Restriction record using the CF_MKR, RESTRICTION_CODE, TRAIN_NO and OUT_RET fields

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "SD".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	TRAIN_NO	6	Train UID.
Y	OUT_RET	1	O or R, to indicate whether the restriction applies to outward journeys or return journeys.
Y	DATE_FROM	4	Date band start date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
Y	DATE_TO	4	Date band end date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
	DAYS	7	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.

SQ – Train Restriction quota exemption record. These records are linked to the associated Train Restriction record using the CF_MKR, RESTRICTION_CODE, TRAIN_NO and OUT_RET fields

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "SQ".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	TRAIN_NO	6	Train UID.
Y	OUT_RET	1	O or R, to indicate whether the restriction applies to outward journeys or return journeys.
Y	LOCATION	3	CRS code indicating a location at which the fare is restricted or quota controlled if this train restriction applies.
Y	QUOTA_IND	1	Q, R or space. Q indicates quota controlled, R indicates restricted.
Y	ARR_DEP	1	A, D or B to indicate whether the restriction applies to arrivals at this location, departures from this location, or both.

SP – Train Restriction privilege data record. These records are linked to the associated Train Restriction record using the CF_MKR, RESTRICTION_CODE, TRAIN_NO and OUT_RET fields

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "SP".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	TRAIN_NO	6	Train UID.
Y	OUT_RET	1	O or R, to indicate whether the restriction applies to outward journeys or return journeys.
Y	BARRED_CLASS	1	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	BARRED_TICKETS	1	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	BARRED_SEASONS	1	Indicates whether season tickets are barred to users of privilege railcards, if this restriction applies Values are Y or N.
Y	BARRED_FIRST	1	Indicates whether First can travel as standard when using a privilege railcard, if this restriction applies Values are Y or N.
	FROM_LOCATION	3	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.
	TO_LOCATION	3	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.

SE – Train Restriction privilege pass exceptions record. These records are linked to the associated Train Restriction record using the CF_MKR, RESTRICTION_CODE, TRAIN_NO and OUT_RET fields.

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "SE".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RESTRICTION_CODE	2	Alphanumeric restriction code.
Y	TRAIN_NO	6	Train UID.
Y	OUT_RET	1	O or R, to indicate whether the restriction applies to outward journeys or return journeys.

Y	PASS_EXCEPTION	1	Exception code.

RR – Railcard Restriction record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "RR".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	RAILCARD_CODE	3	Railcard code.
Y	SEQUENCE_NO	4	Numeric sequence number. Several railcard restrictions may apply with the same railcard code; this field is used to uniquely identify them.
	TICKET_CODE	3	Ticket code. The railcard restriction applies to this ticket code. If spaces, then the railcard restriction applies to all ticket types.
	ROUTE_CODE	5	Route code. The railcard restriction applies to this route code. If spaces, then the railcard restriction applies to all routes.
	LOCATION	3	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.
	RESTRICTION_CODE	2	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.
	TOTAL_BAN	1	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.

EC – Exception Codes record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "EC".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	EXCEPTION_CODE	1	Exception code.
	DESCRIPTION	50	Exception description.

CA – Ticket Calendar record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	2	Contains "CA".
Y	CF_MKR	1	Either C or F. Used to determine the start and end dates for this record.
Y	TICKET_CODE	3	Ticket or supplement code.
Y	CAL_TYPE	1	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	ROUTE_CODE	5	Route code. The calendar applies only to this route. If spaces, the calendar applies to all routes. Always spaces for Supplement calendars.
Y	COUNTRY_CODE	1	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	DATE_FROM	4	Date band start date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
Y	DATE_TO	4	Date band end date (within the start date/end date of the restriction, indicated by Current or Future) in the form MMDD.
	DAYS	7	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.

6.20 File :- LOCATIONS

Description :-

This file holds details of locations. It contains multiple record types.

Rate of change :-

Approximately 12 times per month.

Location record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains "L".
Y	UIC_CODE	7	A unique code which identifies this location.
Y	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	QUOTE_DATE	8	First date on which this record can be queried. Format is ddmmyyyy.
	ADMIN_AREA_CODE	3	Administrative area code (e.g. "70 " = Britain).
	NLC_CODE	4	National location code, for British locations only. No value is output in this field for non-GB locations.
	DESCRIPTION	16	Location description.
	CRS_CODE	3	Where present, gives the location code as used by Central reservations system. Contains spaces for locations with no CRS code.
	RESV_CODE	5	The international reservation code, effectively the NLC part.
	ERS_COUNTRY	2	Along with the ERSCode this forms a reference to the location for use by Eurostar Reservation System.
	ERS_CODE	3	Along with the ERSCountry this forms a reference to the location for use by Eurostar

			Reservation System.
	FARE_GROUP	6	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, eg 1072 = London.
	COUNTY	2	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).
	PTE_CODE	2	Code for the transport authority associated with the location (e.g. GM = Greater Manchester).
	ZONE_NO	4	NLC code that matches a Zone location where the ZONE-IND = 1 to 6. Other values are not used. Spaces are permitted.
	ZONE_IND	2	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.
	REGION	1	Identifies the region using a code 0 = non-BR or LUL, 1 = ER, 2 = LMR, 3 = SCR, 4 = SR, 5 = WR and 6 = LUL.
	HIERARCHY	1	Where the location fits in the hierarchy of location types (e.g. major station, minor station).
	CC_DESC_OUT	41	Location description for credit card size tickets for the outward journey from this location.
	CC_DESC_RTN	16	Location description for credit card size tickets for the return journey to this location.
	ATB_DESC_OUT	60	Location description for ATB (airline) size tickets for the outward journey from this location.
	ATB_DESC_RTN	30	Location description for ATB (airline) size tickets for the return journey to this location.
	SPECIAL_FACILITIES	26	Indicates the facilities available at the location, each character represents a special facility.
	LUL_DIRECTION_IND	1	Values 0, 1, 2, 3 or space. Used for LUL magnetic stripe encoding.
	LUL_UTS_MODE	1	Used to indicate which transport modes are encoded in the ticket (LUL magnetic stripe encoding).

	LUL_ZONE_1	1	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 RJIS.
	LUL_ZONE_2	1	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 RJIS.
	LUL_ZONE_3	1	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 RJIS.
	LUL_ZONE_4	1	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 RJIS.
	LUL_ZONE_5	1	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 RJIS.
	LUL_ZONE_6	1	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 RJIS.
	LUL_UTS_LONDON_STN	1	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 RJIS.
	UTS_CODE	3	Location code for UTS. Only applies to locations which are Underground stations. Used for LUL magnetic stripe encoding.
	UTS_A_CODE	3	Alternative UTS code. Used for LUL magnetic stripe encoding.
	UTS_PTR_BIAS	1	Used for LUL magnetic stripe encoding.
	UTS_OFFSET	1	Used for LUL magnetic stripe encoding.
	UTS_NORTH	3	Used for LUL magnetic stripe encoding.
	UTS_EAST	3	Used for LUL magnetic stripe encoding.
	UTS_SOUTH	3	Used for LUL magnetic stripe encoding.
	UTS_WEST	3	Used for LUL magnetic stripe encoding.

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

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains "A".
Y	UIC_CODE	7	UIC code of station location
Y	END_DATE	8	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	ASSOC_UIC_CODE	7	UIC Code of associated station.
	ASSOC_CRS_CODE	3	CRS code of associated station.

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

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains "R".
Y	UIC_CODE	7	UIC Code of location.
Y	RAILCARD_CODE	3	Railcard code, to indicate a railcard which is valid at this location.
Y	END_DATE	8	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.

TT Group Location record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains "G".

Y	GROUP_UIC_CODE	7	UIC Code of group location.
Y	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	QUOTE_DATE	8	First date on which this record can be queried. Format is ddmmyyyy.
	DESCRIPTION	16	Description of group location.
	ERS_COUNTRY	2	Along with the ERSCode this forms a reference to the location for use by Eurostar Reservation System.
	ERS_CODE	3	Along with the ERSCountry this forms a reference to the location for use by Eurostar Reservation System.

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

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains “M”.
Y	GROUP_UIC_CODE	7	UIC code of group location.
Y	END_DATE	8	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	MEMBER_UIC_CODE	7	UIC code of group member.
	MEMBER_CRS_CODE	3	CRS code of group member.

Synonym record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains “S”.
Y	UIC_CODE	7	UIC code of location.
Y	END_DATE	8	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	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
Y	DESCRIPTION	16	Synonym name.

6.21 File :- ROUTES

Description :-

This file contains the fare route details. The file contains 2 record types.

Rate of change :-

Approximately 6 times per month.

Route record

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains "R".
Y	ROUTE_CODE	5	5 digit route code.
Y	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	QUOTE_DATE	8	First date on which this record can be queried. Format is ddmmyyyy.
	DESCRIPTION	16	Route description.
	ATB_DESC_1	35	First line of route description to be printed on ATB tickets.
	ATB_DESC_2	35	Second line of route description to be printed on ATB tickets.
	ATB_DESC_3	35	Third line of route description to be printed on ATB tickets.
	ATB_DESC_4	35	Fourth line of route description to be printed on ATB tickets.
	CC_DESC	16	Route description to be printed on credit card size tickets.
	AAA-DESC	41	Alternative Availability description for season tickets (those which allow travel from more than one station). Spaces are permitted.
	UTS_MODE	1	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 RJIS).
	UTS_ZONE_1	1	Values Y or N to indicates 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 RJIS.
	UTS_ZONE_2	1	Values Y or N to indicates 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 RJIS.
	UTS_ZONE_3	1	Values Y or N to indicates 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 RJIS.
	UTS_ZONE_4	1	Values Y or N to indicates 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 RJIS.
	UTS_ZONE_5	1	Values Y or N to indicates 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 RJIS.
	UTS_ZONE_6	1	Values Y or N to indicates 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 RJIS.
	UTS_NORTH	3	Contains a code used in LUL magnetic stripe encoding.
	UTS_EAST	3	Contains a code used in LUL magnetic stripe encoding.
	UTS_SOUTH	3	Contains a code used in LUL magnetic stripe encoding.
	UTS_WEST	3	Contains a code used in LUL magnetic stripe encoding.

Route include/exclude locations record. These records are linked to the associated Route record using the ROUTE_CODE and END_DATE fields

Key	Field Name	Length	Description
	UPDATE_MARKER	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	RECORD_TYPE	1	Contains "L".
Y	ROUTE_CODE	5	5 digit route code.
Y	END_DATE	8	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	ADMIN_AREA_CODE	3	Area Admin Code of location which is included in/excluded from this route.
Y	NLC_CODE	4	NLC code of location which is included in/excluded from this route.
	CRS_CODE	3	CRS code of location which is included in/excluded from this route.
	INCL_EXCL	1	Values are I or E, to indicate whether the location is included in or excluded from the route.

6.22 File :- TOCS

Description :-

This file contains TOC details

Rate of change :-

Infrequent.

TOC record

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

Fare TOC record

Key	Field Name	Length	Description
Y	RECORD_TYPE	1	Contains "F".
Y	FARE_TOC_ID	3	TOC identifier. Used in Flow file to identify which TOC is responsible for the fares on this flow.
Y	TOC_ID	2	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 (eg Mersey PTE).
	FARE_TOC_NAME	30	TOC name.

6.23 File :- ADVANCE PURCHASE TICKETS

Description :-

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

Rate of change :-

Once per month (estimate)

Key	Field Name	Length	Description
Y	TICKET_CODE	3	Ticket Code
Y	RESTRICTION_CODE	2	Restriction code or spaces.
Y	RESTRICTION_FLAG	1	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	TOC_ID	2	TOC code or spaces. If a TOC code is supplied then Advance Purchase details apply only to the specified TOC, otherwise the Advance Purchase details apply to this ticket, regardless of which TOC's trains it is used on.
Y	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.
	CHECK_TYPE	1	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.
	AP_DATA	8	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.
	BOOKING_TIME	4	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.

6.24 File :- TOC SPECIFIC TICKETS

Description :-

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

Rate of change :-

Once per month (estimate)

Key	Field Name	Length	Description
Y	TICKET_CODE	3	Ticket Code
Y	RESTRICTION_CODE	2	Restriction code or spaces.
Y	RESTRICTION_FLAG	1	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	DIRECTION	1	O, R or B, to indicate that the TOC Specific Ticket details apply to Outward journeys, Return journeys or Both.
Y	TOC_ID	2	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	TOC_TYPE	1	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	END_DATE	8	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.
	START_DATE	8	First date for which this record can be used. Format is ddmmyyyy.

	SLEEPER_MKR	1	Y or N. Indicates whether sleeper accommodation is required on the leg provided by this TOC.
	INC_EXC_STOCK	1	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".
	STOCK_LIST	40	A comma separated list of stock types. Valid stock types are currently DMU,HST,DME,DMS,DMA,D,E,ED,DEM,EMU,EML

6.25 File :- FARES DATA FEED

Description :-

This file contains the list of files delivered in the fares data feed extract. There will be one record per extract file.

Key	Field Name	Length	Description
Y	FILE_NAME	12	Fares data feed file name, as shown in Section 4.

7. DATAFEED SERVICE

7.1 File Types

The Fares Datafeed service will be provided as follows

- The Datafeed will be to a single site.
- The Datafeed will contain an agreed set of files. The customer may select from those available in section 4.
- The Datafeed will be transferred by electronic transfer or on an agreed magnetic media by post or other delivery service. These can include cartridge tape and CD.
- The transfers will be a combination of full file data sets and incremental updates. Full file data sets will be provided at the start of the service or whenever the number of changes necessitates a new version. Incremental changes will be transmitted on a daily frequency to the customer.
- Backup copies of the files may be kept by the users who have been issued a backup licence. These will be issued automatically and free of charge.

7.2 Transfer Mechanism

The datafeeds will be scheduled on the Data Factory to run at a specific time during the evening/night.

FTP (File Transfer Protocol) will automatically transmit the agreed customers files to their server. For each file transferred it will create a temporary filename that is different from those defined in the above section. After the file has been transmitted successfully the file will be renamed to the expected file. This way the customer will know when the transfer is complete.

These temporary files may be monitored by the customer, if desired, to show progress of the transfer.

It will be the Customers responsibility to ensure update files are applied to their system in strict sequence. This information will be shown in the operating documentation.

It will be the Customers responsibility to inform Fujitsu Services Ltd of any errors that may have occurred. FTP will re-send packets of information where there is an error across the network.

It will be the Customer's responsibility to ensure necessary space and transfer mechanisms are in place. Sizing information for this datafeed is provided in section 4.

Each daily update file will be available on the RJIS server for one month, after which they will be deleted. There will be one full file copy retained on the server.

To reduce the file sizes and speed up the exporting process, the datafeed set will be available as a zipped file, and will be readable using WINZIP.

Users of UNIX systems will be supplied with UNZIP software and instructions on how to unpack the datafeed files (with particular references to parameters for new lines).

Each delivery will include one additional file listing the files comprising the set to be delivered.

7.3 Data Integrity

When data for the Fares is being loaded into the Data Factory from its source, there will be validation of this data.

This validation will take the form of consistency checking. As the Data Factory is a Relational Database when data is loaded into the tables any key field that corresponds to data in other tables must be valid. This will ensure key data is consistent throughout the database.

7.4 Security

Each customer wishing to receive electronic copies will need to supply an IP address for RJIS to communicate with.

Fujitsu Services Ltd recommends that a separate user is set up for the sole use of receiving datafeeds. This user should have a password associated with it.

Customers who feel that security is a particular issue may receive specially encrypted datafeed files. This will be a separate service type.

7.5 Communications

7.5.1 Network

The network for the RJIS system is described in detail in document sp0007-RJIS Network Design Specification and in sp0008-RJIS Implementation Specification.

All files sent via the network will use FTP connected via TCP/IP. This requires that each external system that wants to receive files from RJIS must provide an IP address and directory name into which files are going to be placed.

Communication lines used for ‘full file’ transfer should be high speed links, 2mb per second. If ‘update only’ files are distributed then this line speed could be reduced to as low as 64kb per second. Advice will be given by Fujitsu Services Ltd on communications equipment to individual customers taking up this service.

7.6 Documentation

Operating documentation will be issued to customers taking this service. This will include:

- Operating Instructions
- List of agreed files
- File sizes
- File load sequence
- Estimated transfer time

- Fault check list

8. REGISTERING FOR THE SERVICE

If this datafeed meets your requirements, you agree with the customers responsibilities and would like to obtain this service, then initial contact should be made to :-

RSP
3rd Floor
40 Bernard Street
London
WC1N 1BY

Tel: 0207 863 0814