Rail Delivery Group

National Rail

Coaches, Seats and Seat Properties Data Feed Specification

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Version: P-01-01

Rail Settlement Plan Limited Registered Office, First Floor North, 1 Puddle Dock, London, EC4V 3DS
www.raildeliverygroup.com 020 7841 8000 Registered in England and Wales No. 03069042

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Version Information

Version	Comments
01-01	Documentation Issued.

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Terms and Definitions

Term	Definition
CSV	Comma-separated values is a text file format that uses commas to separate values.
JPG	A common Image File format (JPEG).
RARS	Rail Availability and Reservation Service.
RDM	Rail Data Marketplace.
RSID	Retail Service Identifier.
URL	A Uniform Resource Locator, colloquially known as an ‘address’ on the Web.

1. Introduction

1.1 Overview

1.1.1 This documentation details the ‘Coaches, Seats and Seat Properties data feed’ which is available through the ‘Rail Data Marketplace’ (RDM).

1.1.2 The data contains a listing of all coaches along with their seats and the seat properties.

1.1.3 The data is sourced from the ‘Rail Availability and Reservation Service’ (RARS).

1.1.4 The data is provided in the RDM and is updated overnight, every night.

1.1.5 Each CSV file consists of a ‘header’ record, with information on the contents, followed by the data.

1.2 Related Subjects and references

RDG Ref	Title	Usage
RSPS5045	Fares and Associated Data Feed Interface Specification	Describes the Data Feed containing Fares information.

2. Data

2.1 Coach Type

2.1.1 Defines a unique Coach Type.

2.1.2 The term ‘template’ refers to a diagram showing a coach layout.

2.1.3 Filename

The file name is `CoachTypes.csv`

2.1.4 Data description

Key	Field	Field Name	Type	Max Length	Description
Y	1	coachType	String	50	Unique Coach Type code.
	2	floorplanHeight	Int	5	Height in pixels of the coach floorplan image. Units are in pixels.
	3	floorplanWidth	Int	5	Width in pixels of the coach floorplan image. Units are in pixels.
	4	seatHeight	Int	5	Height in pixels of a seat within a Coach Image Template. Units are in pixels.
	5	seatWidth	Int	5	Width in pixels of a seat within a Coach Image Template. Units are in pixels.
	6	carrierCode	String	2	The 2-character Carrier code from the published timetable data. Aligns with the TOC ID as defined in RSPS5045: ‘Fares and Associated Data Feed Interface Specification’. See TOCs | TOC record.

Key	Field	Field Name	Type	Max Length	Description
	7	templateFilename	String	100	Filename of the JPG file showing the Coach layout. To be used in conjunction with the base URL. This is the template root folder and is set per carrier. This information can be provided by the RDG Helpdesk on request. Email: Rarssupport@cloudbusiness.com Example: https://template.rdg-gn-acc.cloud.sqills.com/template/{code}
	8	rsid	String	10	An example Retail Service Identifier (RSID) using this Coach Type. The RSID identifies a service within the Passenger Schedules.
	9	latestServiceOriginDate	Date	10	Latest known date of departure at the origin station for the example Service. Date format YYYY-MM-DD.

2.1.5 Example data

```
"4501 GWR Sleeper E","235","1275","45","30","GW","GWR SLEEPER
E_200618155940632.jpg","GW127600","2023-12-10"
"1165 GWR 10 IET Coach D DOWN  FC NONRES SD","253","1246","30","30","GW","GWR 5
IET D_201006120618255.jpg","GW920300","2022-08-10"
```

2.2 Coach Name

2.2.1 Overview

2.2.1.1 This maps the individual and unique Coach Name to the Coach Type and the Carrier Code that it belongs to.

2.2.2 Filename

The filename is `CoachNames.csv`

2.2.3 Data description

Key	Field	Field Name	Type	Max Length	Description
Y	1	coachName	String	50	The unique Coach Name for this TOC.
Y	2	coachType	String	50	Coach Type identifier.
Y	3	carrierCode	String	2	The 2-character Carrier code from the published timetable data. Aligns with the TOC ID as defined in RSPS5045: 'Fares and Associated Data Feed Interface Specification'. See TOCs | TOC record.

2.2.4 Example data

```
"AH/WC P COACH A STD /Q /C 2741","2741 AH/WC P COACH A STD /Q /C","VT"
"AG/WC P COACH B STD /W 2854","2854 AG/WC P COACH B STD /W","VT"
```

2.3 Seat

2.3.1 Overview

2.3.1.1 Child entity of a Coach Type.

2.3.1.2 Contains data detailing a Seat.

2.3.1.3 Seat data also includes information for rooms, bicycle bays, etc.

2.3.2 Filename

The file name is `Seats.csv`

2.3.3 Data description

Key	Field	Field Name	Type	Max Length	Description
Y	1	coachType	String	50	Coach Type identifier which the Seat is associated with.
Y	2	seatId	String	5	Unique identifier of the Seat within a Coach. The Seat ID is generally 2 to 3 characters long, mixed case.
	3	sequence	Int	2	Sequence number of the Seat in relation to other Seats within the Coach.
	4	inventoryClass	String	5	Inventory Class Code. See the 'Inventory Class Description' section.
	5	row	Int	5	The seat row.
	6	rowPosition	Int	5	The seat position in the row
	7	xPos	Int	5	X Position of the seat. Units are in pixels.
	8	yPos	Int	5	Y Position of the seat. Units are in pixels.

2.3.4 Example data

```
"9102 GWR 9 IET C SD","40","136","2S","8","5","530","184"
"9102 GWR 9 IET C SD","39","137","2S","8","4","533","152"
"9102 GWR 9 IET C SD","43","138","2S","9","4","568","153"
"9102 GWR 9 IET C SD","44","139","2S","9","5","561","187"
```

2.4 Seat Property

2.4.1 Overview

2.4.1.1 Child entity of the Seat entity

2.4.1.2 Contains data detailing the Properties of a Seat.

2.4.1.3 A Seat can have multiple Properties.

2.4.2 Filename

The file name is `SeatProperties.csv`

2.4.3 Data description

Key	Field	Field Name	Type	Max Length	Description
Y	1	coachType	String	50	Coach Type identifier which the Seat is associated with.
Y	2	seatId	String	5	Seat identifier which the property is associated with.
Y	3	propertyCode	String	4	Property code associated with the Seat.
Y	4	carrierCode	String	2	The 2-character Carrier code from the published timetable data. Aligns with the TOC ID as defined in RSPS5045: 'Fares and Associated Data Feed Interface Specification'. See TOCs | TOC record

2.4.4 Example data

```
"4501 GWR Sleeper E","1L","COND","GR"
"4501 GWR Sleeper E","1L","LOWR","GR"
"4501 GWR Sleeper E","2U","COND","GR"
"4501 GWR Sleeper E","2U","UPPR","GR"
```

2.5 Inventory Class Description

2.5.1 Overview

Lookup data for the Inventory Class field on the Seat entity

2.5.2 Filename

The filename is `InventoryClassDescriptions.csv`

2.5.3 Data description

Key	Field	Field Name	Type	Max Length	Description
Y	1	carrierCode	String	2	The 2-character Carrier code from the published timetable data. Aligns with the TOC ID as defined in RSPS5045: 'Fares and Associated Data Feed Interface Specification'. See TOCs | TOC record.
Y	2	inventoryClass	String	5	Inventory Class Code.
	3	description	String	50	Description of the Inventory Class.
	4	inventoryType	String	11	Type: 'seat', 'bike' or 'unallocated'.
	5	sequence	Int	2	The sequence of inventory classes shown in lists

2.5.4 Example data

```
"GC","1C","First Class","seat","1"
"GW","9B","Bike","bike","2"
```

2.6 Seat Property Description

2.6.1 Overview

2.6.1.1 This is the lookup entity which gives a description of the Property code on the Seat Property entity.

2.6.1.2 Each TOC uses a limited set of these property codes, but the code and description is the same for each TOC.

2.6.2 Filename

The filename is `SeatPropertyDescriptions.csv`

2.6.3 Data description

Key	Field	Field Name	Type	Max Length	Description
Y	1	propertyCode	String	4	Property code associated with the Seat.
	2	description	String	50	Seat Property Description.

2.6.4 Example data

```
"AISL","SEAT POSITION AISLE"
"LEGM","MORE LEG ROOM"
```

End.