ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L21392 – TRACK FRICTION MODIFIERS

Learning Legacy Document

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1 Introduction

1.1 Asset Details

Class Code:	L21392
Class Name:	Rail Friction Modifiers
Class Lineage:	Construction Products>Complete construction entities and components>Civil engineering works products>Railway products>Other railway components>Rail Friction Modifiers

1.2 Description

Rail Friction Modifiers are designed to automatically apply a substance to the top of the rail that enhances the wheel-rail interface at specific location by reducing noise, reducing the lateral forces and reducing rail wear.

1.3 Related Functions

All information on the configuration of asset classes (L-Class) to functions is contained within the latest revision of the Asset Data Dictionary Master Configuration document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

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2 Asset Tag Identification Rules

Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031) in the following format:

<LCS Code>-<Function Code>-<Incremental number to ensure uniqueness>

e.g. CR076-TRK-12345 for a plain line track asset located in the Kensal Green to Paddington Section

The Asset Name contains specific information relating to the asset as follows:

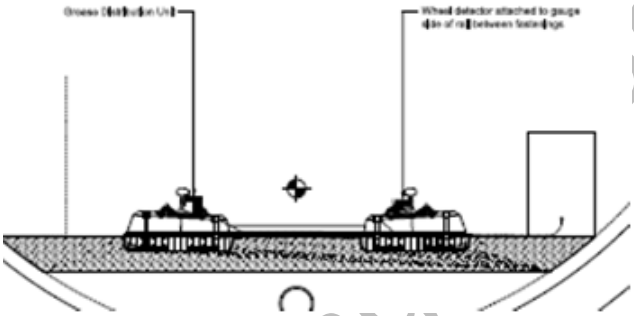
The Asset Name defines both the asset type and its instance (i.e. installed location). The information captured will depend on whether the asset is a linear or point asset.

To accommodate both linear and point assets the Asset Name for Track Assets will provide details for each asset class in the format:

<Function>, <Asset Classification name>, <LCS Code(s)>, <ELR>, <Tunnel (E/B or W/B)>, <Start metres> - <End metres >

As these are considered point asset the <Start metres> and <End metres> will be equal and will be defined by the east bound extent of the asset.

2.1 Example Images



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3 Attributes

3.1 Generic Attributes

All Classes of assets will have a set of Generic Attributes for which data is collected without exception. Full details relating to these assets can be found at:

AD4 – Generic Attributes CRL1-XRL-Z3-ADDSD-CR001-50069

3.2 Class Specific Attributes

Below is a table of the further specific attributes which are associated with this asset class.

Attribute Name	**Base Unit or Formula**	**Value Type** (See Below)	**Decimal Places** (nu Only)	**Defined Values List** (pd only)	**Description**
Capacity (Litres)	Litres	NU	1		Capacity of lubricant reservoir
Rail Type		PD		Running Rail Check Rail	What rail the lubricator is lubricating
Fluid Distribution Unit Type		PD		Electrical Mechanical	The type of distribution unit
Number of Distribution Units (#)	#	NU	0		Number of lubrication distributors
Distribution Unit Attachments		PD		Clamped Bolted	How the distribution units are attached to the rail
Lubrication Flow Rate (Metres Cubed per minute)	Metres Cubed per minute	NU	2		Flow rate of lubricant
Actuation Type		PD		Train Actuated Time Actuated	a description of How the distribution of the lubricant is initiated
Fluid Type		CH			The type of lubricant that the system will deliver
Input Voltage (Volts)	Volts	NU	2		Voltage requirements for pump (if not applicable enter 0)

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Attribute Name	**Base Unit or Formula**	**Value Type** (See Below)	**Decimal Places** (nu Only)	**Defined Values List** (pd only)	**Description**
Pipe Type		CH			Type of pipe connecting the lubricant reservoir to the distribution unit
Diameter (Millimetres)	Millimetres	NU	0		Diameter of pipe connecting the reservoir to the distribution unit
Rail Side		PD		L/H R/H	The side of rail the distribution unit is located based on the normal direction of traffic, e.g. left hand rail or right hand rail
LRS Code		PD		C.EB C.EB.CRW5 C.EB.CR1 C.EB.CR7 C.EB.TBC C.WB C.WB.CRW9 C.WB.CRW6 C.WB.CR2 C.WB.CR5 C.WB.TBA C.WB.TBB CNE.EB CNE.WB CSE.EB CSE.EB.CR11 CSE.WB CSE.EB.CR13 CSE.WB.CR15 Non Track	The Crossrail Linear Referencing Standard code (CRL1-XRL-O6-STD-CR001-00026) where the asset is located. When the asset is not located on track then non track should be selected. The LRS codes are as follows: C.EB - Central Section Eastbound C.EB.CRW5 - Crossover between W5 and W4 Points C.EB.CR1 - Crossover between C1 and C4 Points C.EB.CR7 - Crossover between C7 and C8 Points C.EB.TBC - Turnback C C.WB - Central Section Westbound C.WB.CRW9 - Crossover between W9 and W8 Points C.WB.CRW6 - Crossover between W6 and W3 Points C.WB.CR2 - Crossover between C2 and C3 Points C.WB.CR5 - Crossover between C5 and C6 Points C.WB.TBA - Turnback A C.WB.TBB - Turnback B CNE.EB - Central Section North East Spur Eastbound CNE.WB - Central Section North East Spur Westbound CSE.EB - Central Section South East Spur Eastbound CSE.EB.CR11 - Crossover between C11 and C12 Points CSE.WB - Central Section South East Spur Westbound CSE.EB.CR13 - Crossover between C13 and C14 Points CSE.WB.CR15 - Crossover between C15 and C16 Points Non Track - Non Track Assets
Meterage (Metres)	Metres	NU	0		The location of the start of the asset based on overall meterage.

pd = Predefined List (Listed Values Only)
nu = Numeric (dp and number format can be stipulated)

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ch = Free text (Max 255 Characters)
da = Date (dd-mm-yyyy)
me = Memo (Free text 1GB Limit)

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4 Performance Data

This section is to be used to specify the performance data gathered from this Class of asset when in operation. This section will be populated once performance measures have been agreed with Infrastructure Managers.

5 Labelling

Information and guidance on the standard labelling convention for all asset classes is contained within the latest revision of the Asset Naming and Labelling Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

6 Other Information

Not Applicable

7 Reference Material

- Asset Data Dictionary Master Configuration - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069

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8 Crossrail Technical Approvals

Name	Role	Date
Mark Maher	Track	19-Sep-2014

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