ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L21394 - TRAIN ARRESTORS

Learning Legacy Document

Document Number: **CRL1-XRL-Z3-ADDSD-CR001-50235**

Document Revision: **9.0**

Document History:

Revision:	Date:	Prepared by:	Checked by:	Authorised by:	Reason for Issue:
1.0	03-Mar-2014	Mark Sexton	[redacted]	[redacted]	First Issue
2.0	03-Jun-2014	[redacted]	[redacted]	[redacted]	Corrected Attribute Name Asset Tag Identification Section Updated
3.0	24-Jun-2014	[redacted]	[redacted]	[redacted]	Added Attributes
4.0	19-Sep-2014	[redacted]	[redacted]	[redacted]	Approvals Added Consultations Removed
5.0	21-Aug-2015	[redacted]	[redacted]	[redacted]	Attribute Changes
6.0	27-Aug-2015	[redacted]	[redacted]	[redacted]	Labelling Section Updated
7.0	30-Aug-2016	[redacted]	[redacted]	[redacted]	Attribute Added
8.0	20-Apr-2017	[redacted]	[redacted]	[redacted]	Attribute Replaced
9.0	25-Apr-2017	[redacted]	[redacted]	[redacted]	LRS Codes Updated

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1 Introduction

1.1 Asset Details

Class Code:	L21394
Class Name:	Train Arrestors
Class Lineage:	Construction Products>Complete construction entities and components>Civil engineering works products>Railway products>Other railway components>Train Arrestors

1.2 Description

Train arrestors or buffer stops prevent a rail vehicle from passing beyond a section of track. Typically they are located at the end of a siding or at the end of a terminating platform. They function by absorbing the kinetic energy of the rail vehicle using either hydraulic or friction devices.

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-BAF-12345

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

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
Train Arrestor Type		PD		Friction Hydraulic	The type of train arrestor
Height (Metres)	Metres	NU	2		Height to centre of buffer contact area
Width (Metres)	Metres	NU	2		Width between centre of buffer contact area
Length (Metres)	Metres	NU	2		Length of train arrestor
Maximum Vehicle Tonnage (Tonnes)	Tonnes	NU	1		Maximum tonnage of the rail vehicle the buffers stops can arrest traveling at the maximum speed.
Maximum Vehicle Speed (Miles per hour)	Miles per hour	NU	0		The maximum speed the rail vehicle for safe vehicle arresting operation
NR Track ID		CH			The Network Rail Track ID number
Meterage (Metres)	Metres	NU	0		The location of the start of the asset based on overall meterage.
Number of friction braking elements (#)	#	NU	0		Number of friction braking elements on one rail.
Distance between buffer and first braking element (Metres)	Metres	NU	2		Distance between the buffer and the first braking element (friction clamp) on the rail.
Distance between braking elements (Metres)	Metres	NU	2		Distance between adjacent braking elements (friction clamps)

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
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

pd = Predefined List (Listed Values Only)
nu = Numeric (dp and number format can be stipulated)
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
- Asset Naming Convention Document - CRL1-XR1-Z3-ADDSD-CR001-50413

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8 Crossrail Technical Approvals

Name	Role	Date
Mark Maher	Track	19-Sep-2014

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