ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L74223 - AUTOTRANSFORMER

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2.0	03-Jun-2014	[redacted]	[redacted]	[redacted]	Corrected Attribute Names Asset Tag Identification Section Updated
3.0	19-Sep-2014	[redacted]	[redacted]	[redacted]	Updated Description Updated Attributes Updated Images Approvals Added Consultations Removed
4.0	27-Aug-2015	[redacted]	[redacted]	[redacted]	Labelling Section Updated

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1 Introduction

1.1 Asset Details

Class Code:	L74223
Class Name:	Autotransformer
Class Lineage:	Construction Products>Services>Electric power and lighting services products>Transformation devices>Transformers/converters>Autotransformer

1.2 Description

An autotransformer is an electrical transformer with one winding used to increase or decrease a supply voltage. It is part of the traction supply power system and OHLE system. Located at regular intervals alongside rail tracks, their primary function is to feed electric power to the trains via the overhead wire.

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**
Height (Metres)	Metres	NU	2		The height of the autotransformer enclosure
Input Current (Amps)	Amps	NU	0		The input circuit current
Input Voltage (Volts)	Volts	NU	0		The input circuit voltage
MVA Rating (MVA)	MVA	NU	2		The MVA (Mega Volt Amp) rating of the autotransformer
Length (Metres)	Metres	NU	2		The length of the autotransformer enclosure
Neutral Current (Amps)	Amps	NU	0		Autotransformer neutral current rating
Neutral Current Continuous (Amps)	Amps	NU	0		Autotransformer continuous neutral current rating

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Attribute Name	**Base Unit or Formula**	**Value Type** (See Below)	**Decimal Places** (nu Only)	**Defined Values List** (pd only)	**Description**
Output Current (Amps)	Amps	NU	0		The output circuit current after being stepped up or down
Output Voltage (Volts)	Volts	NU	0		The output circuit voltage after being stepped up or down
Transformer Operation Type		PD		Manual Motor	The operation type of the autotransformer
Weight (Kilograms)	Kilograms	NU	2		The weight of the complete autotransformer unit
Width (Metres)	Metres	NU	2		The width of the autotransformer enclosure

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 to be gathered from this Class of asset when in operation. To be populated once the performance measures have been agreed with the 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 document - 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
[redacted]	Traction Power	19-Sep-2014

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