ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L74614 - Automatic Transfer Switches (ATS)

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1 Introduction

1.1 Asset Details

Class Code:	L74614
Class Name:	Automatic Transfer Switches (ATS)
Class Lineage:	Construction Products>Services>Electric power and lighting services products>Distribution devices>Power supply control devices>Automatic Transfer Switches (ATS)

1.2 Description

The class ATS covers electrical switches that switch a load between two sources when they register that one of the sources has lost or gained power.

This is often used for switching between mains power and the back up when the mains power fails.

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**
Voltage (Volts)	Volts	NU	0		Operating voltage of the switch
Full Load Current (Amps)	Amps	NU	0		The rated amps of the switch
Number of Poles (#)	#	NU	0		Number of poles i.e. 3 pole or 4 pole
Time (Milliseconds)	Milliseconds	NU	0		The time to switch over to the secondary power source
Transition Mode		PD		Open Transition Closed Transition Delayed Transition	Transition Mode of the switch
Width (Millimetres)	Millimetres	NU	0		Width of the switch assembly

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Attribute Name	**Base Unit or Formula**	**Value Type** (See Below)	**Decimal Places** (nu Only)	**Defined Values List** (pd only)	**Description**
Height (Millimetres)	Millimetres	NU	0		Height of the switch assembly
Depth (Millimetres)	Millimetres	NU	0		Depth of the switch assembly

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 - 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]	Lead Mechanical & Electrical Plant (MEP) Engineer	19-Sep-2014

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