ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L7411 - BATTERIES

Learning Legacy Document

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7.0	14-Apr-2016	[redacted]	[redacted]	[redacted]	Attribute added

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Contents

1 Introduction 3
1.1 Asset Details 3
1.2 Description 3
1.3 Related Functions 3
2 Asset Tag Identification Rules 4
2.1 Example Images 4
3 Attributes 5
3.1 Generic Attributes 5
3.2 Class Specific Attributes 5
4 Performance Data 7
5 Labelling 7
6 Other Information 7
7 Reference Material 7
8 Crossrail Technical Approvals 8

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1 Introduction

1.1 Asset Details

Class Code:	L7411
Class Name:	Batteries
Class Lineage:	Construction Products>Services>Electric power and lighting services products>Power storage devices>Batteries

1.2 Description

A battery is a device consisting of one or more electrochemical cells that convert stored chemical energy into electrical energy. These batteries form part of the UPS System.

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
Backup Time (Minutes)	Minutes	NU	2		The time the batteries will provide back-up power for
Height (Millimetres)	Millimetres	NU	0		The height of the batteries
Length (Millimetres)	Millimetres	NU	0		The length of the batteries
Operating Temperature Maximum (Degrees Celsius)	Degrees Celsius	NU	2		The maximum operating temperature of the battery
Operating Temperature Minimum (Degrees Celsius)	Degrees Celsius	NU	2		The minimum operating temperature of the battery
Output Voltage (Volts)	Volts	NU	0		Nominal Output Voltage
Overload Capacity (%sec)	%sec	NU	2		e.g. 150% for 5 sec / 125% for 1 min (online), 110% for 10 min (Normal Operation)
Power Rating (kW)	kW	NU	2		Output power capacity

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Attribute Name	**Base Unit or Formula**	**Value Type** (See Below)	**Decimal Places** (nu Only)	**Defined Values List** (pd only)	**Description**
Weight (Kilograms)	Kilograms	NU	2		The weight of the batteries
Width (Millimetres)	Millimetres	NU	0		The width of the batteries
Battery Type		PD		VRLA BS62910-4	Type of batteries
Battery Terminal Type		CH			Type of terminal for example Faston Tab, Internal Thread (Screw), Bolt, etc.

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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