ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4) L767 – DALI

Learning Legacy Document

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1 Introduction

1.1 Asset Details

Class Code:	L767
Class Name:	DALI (**D**igital **A**ddressable **L**ighting **I**nterface)
Class Lineage:	Construction Products>Services>Information/communication services products>DALI

1.2 Description

DALI (Digital Addressable Lighting Interface) is a networked, processor-based system that controls lighting in buildings. DALI systems can accept remote control commands so that the lighting can be controlled from the Head located in the Station SOR.

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
Data Transfer Rate (Bits per Second)	Bits per Second	NU	0		The rate at which data is transferred to enable interference-free operation of the system (Min 50,000bps)
Input Voltage (Volts)	Volts	NU	0		In general the interface voltage is 1 volt to 10 volt
Number of Interfaces (#)	#	NU	0		DALI systems have the capability to assign an individual address to each unit (e.g. sensor or controller) within the lighting system; typically, this is constrained to a maximum of 64 units.
Stand Alone		PD		Yes No	DALI installed as a system which interfaces with the Building Management System (BMS)

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Current Rating (Amps)	Amps	NU	0		Rating of current measured in Amps
IP Rating		CH			The IP Code, International Protection Marking given to the equipment in compliance with IEC standard 60529 or the equivalent British standard EN 60529.
Number of Outgoing Ways (#)	#	NU	0		The number of outgoing ways
Power Rating (Watts)	Watts	NU	0		The rating of power usage expressed in watts

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

- Digital Addressable Lighting Interface **(DALI)** standard IEC 60929
- 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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