ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
Crossrail Data Network (CDN)

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Learning Legacy Document

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1 Introduction

Not Applicable

1.1 PFU Details

Class Code:	PFU035
Class Name:	Crossrail Data Network (CDN)
Class Type:	Linear/Functional

1.2 Description

The Crossrail Digital Network (CDN) comprises of a Core Routing Layer to provide interconnectivity between Crossrail locations and an Access Layer of edge routers and switched Local Area Networks (LANs) and associated access equipment to provide network connectivity at stations, shafts, portals, tunnels, cross passages, niche, power substations, control centres, 3rd party locations and other Crossrail locations.

The CDN includes:

a All Items of network hardware including all, routers, switches, firewalls, passive cabling, cable management and cable termination points, (hereafter collectively referred to as the “CDN”)

b Copper (Cat6a) structured cabling requirements to support the CDN

c Fibre structured cabling to support the CDN but excluding the fibre connectivity provided by the OFN

d Network Management System (NMS) at the RCC

e Provision of a network master clock system and clock displays.

The CDN across the route will be linked to the Route Control Centre and will therefore the whole system is considered a single Primary Functional Unit (PFU).

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:

PFU-<PFU Type Code>-<Incremental number to ensure uniqueness>

e.g. PFU-1-01234e.g. PFU-1-12345

2.1 Example Images

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3 Related FUs

All information on the configuration of FUs to PFUs is contained within the latest revision of the Asset Data Dictionary Master Configuration Document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

4 Related L Classes

All information on the configuration of asset classes (L-Class) to PFUs is contained within the latest revision of the Asset Data Dictionary Master Configuration Document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

5 Alternative Identification

The following table identifies any alternative identification which can be applied to this class of PFU and the description/purpose of the identification

Alternative Identification Name	Alternative Identification Description	Alternative Identification Extended Description
Not Applicable		

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6 Attributes

6.1 Generic Attributes

All Classes of PFU will have a set of Generic Attributes for which data is collected without exception. Full details relating to these assets can be found at:

CRL1-XRL-Z3-ADDSD-CR001-50634 - AD4 – PFU – Generic Attributes

6.2 Class Specific Attributes

Below is a table of the further specific attributes which are associated with this PFU class.

Attribute Name	**Base Unit or Formula**	**Value Type** (See Below)	**Decimal Places** (nu Only)	**Defined Values List** (pd only)	**Description**
Not Applicable					

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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7 Labelling

Not Applicable

8 Other Information

Not Applicable

9 Reference Material

- Asset Data Dictionary Master Configuration document - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- Asset Information Provision Procedure - CRL1-XRL-Z3-GPD-CR001-50004
- Crossrail Asset Information Fundamentals - CRL1-XRL-Z3-GPD-CR001-50007
- Asset Information Glossary - CRL1-XRL-Z3-GUI-CR001-50012
- Asset Information Management Plan - CRL1-XRL-Z3-STP-CR001-50002
- C170-PBF-R3-RSP-CRG03-00024 - 2C Part 8 Communications and Control Systems Performance Specification Crossrail Data Network (CDN)
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