ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
Tunnel System

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1 Introduction

Not Applicable

1.1 PFU Details

Class Code:	PFU015
Class Name:	Tunnel System
Class Type:	Linear/Functional

1.2 Description

A Tunnel System Primary Functional Unit (PFU) is a length of tunnel making up a linear section of the Crossrail route. A Tube Tunnel System PFU is continuous from the start/end of the tunnel section to the next spur (e.g. Stepney Green Junction) and is not broken due to a station, portal, shaft, etc. facility within it. The route sections are defined in Sections 5 & 6 of the Crossrail Alignment Standard (CRL1-XRL-O6-STD-CR001-00026). Eastbound and Westbound route sections, where in separated tunnels, are separate PFU's; Connaught Tunnel is a separate PFU as this is a single tunnel system without physical separation for Eastbound and Westbound.

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-2-01234e.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
LU Asset Number	Used to identify the asset by its LU Asset ID	The LU Asset ID is made up of the LCS1 code as well as the LU Asset Instance number.

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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
Route Reference		PD		C.EB C.WB C.NEB C.NWB C.SEB C.SWB	Route reference as found in the linear reference standard, as broken down by the following: Central Section East Bound (C.EB) Central Section West Bound (C.WB) Central Section North Spur East Bound (C.NEB) Central Section North Spur West Bound (C.NWB) Central Section South Spur East Bound (C.SEB) Central Section South Spur West Bound (C.SWB)

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

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