ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
Generic Attributes

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1 Introduction

The Crossrail Asset Data Dictionary (ADD) is hosted within eB and has the function of providing explicit definition of the relevant classes, functions and attributes

Contractors are responsible for collecting attribute data for assets as they are installed, and will be required to provide asset information using the agreed data transfer format.

The process of defining and managing the attributes associated with the asset classes in the Crossrail Asset Hierarchy is a vital activity to ensure that Contractors are aware of the attributes required for each asset class.

Each individual class of assets has class specific attributes that are associated to that individual class. These class specific assets are listed within each AD4 Class document as well as the Asset Data Dictionary Master Configuration document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

2 Roles and Responsibilities

The Asset Information and Configuration Manager acts as Data Steward for the Crossrail Asset Information System (AIMS) by taking an active role in the ownership, population, storage and utilisation of asset information.

Any queries regarding the asset attributes should be directed to the Asset Information Provisioning Manager.

3 Core Asset Tag Values

The following values are held or can be populated against every Asset Tag within the AIMS system. Most of these values are automatically populated by the AIMS system on the creation event of the Asset Tag but others are populated in the Asset Information Provision Procedure.

3.1 Asset Tag Identification Code

A unique id which is automatically generated by the Asset Information Management System (AIMS) and represents a functional requirement/configuration item

3.2 Revision

Revision of the Asset Tag which is managed by the AIMS system once Asset Tags are approved and placed under configuration/change control

3.3 Name

The name of the Asset Tag which is entered as part of the Asset data collection process; On creation of an Asset Tag this is populated with an '?' as a default value.

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Should an accountable user wish for a surplus Asset Tag to be deleted, the name should be populated with the value “Delete”.

3.4 Description

Optional text field to further describe an Asset where required which is populated within the Asset Information Provision Procedure.

This field should only be utilised where the information doesn’t relate to naming of the asset or if the information would be best stored within the memo filed (see attribute table) or other applicable attributes.

3.5 Class

This is populated on the creation of the Asset Tag by AIMS and defines which class of asset the Asset Tag is to represent. This defines which other attributes will be allocated to the Asset Tag as defined in the Asset Data Dictionary Master Configuration Document..

3.6 Approval Status

This value is managed by AIMS and is used by the system to stop any changes being made to that revision of the Asset Tag. This value will be set to ‘approved’ to place the Asset Tags under configuration/change control.

3.7 Operational Status

This value is managed by AIMS and will be set to add a high level summary of the operational status of the Asset Tag. Its value will be driven by the value of the Asset Status attribute which is updated during the lifecycle of the Asset Information Provision Procedure.

3.8 Function

This is populated on the creation of the Asset Tag and defines what the asset is designed to perform .

Each function has its own AD4 document which can be found in the Asset Data Dictionary (ADD), also defined in the ADD are which classes of Asset Tag can be created for which functions.

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4 Attributes

Attribute data is collected from all assets to assist in the Operational and Maintenance activates during the assets life.

All classes of assets have a set of Generic Attributes for which data is collected without exception. Details of those attributes are explained in the table below:

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places/Number Format (nu Only)	Defined Values List (pd only)	Description
Asset Status		PD		Design Construction Test & Commissioning Commissioned Operational Strategic Spare Temporary Decommissioned in-Situ Decommissioned Removed	The current status of the Asset: **Design** - Asset being designed, but not yet approved for construction. **Construction** - Asset being procured, built and installed but not yet under formal testing or commissioning. **Test & Commissioned** - Asset under formal test and commissioning programme, but not commissioned. **Operational** - Asset that has been commissioned and is under control of Infrastructure Manager. **Strategic Spare** - Equipment that is available for use, but is not installed. **Temporary** - Asset which supports a programme of works but will not be handed over to an Infrastructure Manager. **Decommissioned in-Situ** - Asset decommissioned, but remaining on site. **Decommissioned Removed** - Asset decommissioned and removed from site

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places/Number Format (nu Only)	Defined Values List (pd only)	Description
Asset Label Installed		PD		No Yes N/A	Indicates if the Asset Tag label has been installed This value should be set to N/A if the Asset Tag Label Required value is set to No
Asset Label Required		PD		No Yes	Indicates if the Asset will require an Asset Tag Label
Asset Tag Labels Quantity (#)	#	NU	0		Indicates the number of Asset Tag labels required for correct labelling of the Asset. This value should be set to 0 if the Asset Tag Label Required value is set to No
Criticality		PD		High Medium Low	The criticality of the asset to Crossrail
Date of Commissioning		DA			The Date the Asset was commissioned
Economic Life (Years)	Years	NU	0		Expected Economic life of the Asset
Expected Life Expiry Date		DA			Calculated value based on the Date of Commissioning value and the Economic Life (years) value
London Survey Grid X		NU	#####.#####		The London Survey Grid X coordinate of the asset. The collection of this attribute by the Contractor is not mandatory.

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Attribute Name	**Base Unit or Formula**	**Value Type** (See Below)	**Decimal Places/Number Format** (nu Only)	**Defined Values List** (pd only)	**Description**
London Survey Grid Y		NU	#####.####		The London Survey Grid Y coordinate of the asset. The collection of this attribute by the Contractor is not mandatory.
London Survey Grid Z		NU	#####.####		The London Survey Grid Z coordinate of the asset. The collection of this attribute by the Contractor is not mandatory.

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places/Number Format (nu Only)	Defined Values List (pd only)	Description
LU LCS1		PD		B071 - Paddington Station C101 - Liverpool Street Station C125 - Bond Street Station C175 - Ealing Broadway Station CR021 - Reading Station CR022 - Reading to Twyford CR023 - Twyford Station CR024 - Twyford to Maidenhead CR031 - Maidenhead Station CR032 - Maidenhead to Taplow CR033 - Taplow Station CR034 - Taplow to Burnham CR035 - Burnham Station CR036 - Burnham to Slough CR037 - Slough Station CR038 - Slough to Langley CR039 - Langley Station CR042 - Langley to Iver CR043 - Iver Station CR044 - Iver to West Drayton CR045 - West Drayton Station CR046 - West Drayton to Hayes and Harlington CR052 - Heathrow Terminal 5 to Heathrow Central CR054 - Heathrow Terminal 4 to Heathrow Central CR056 - Heathrow Central to Hayes and Harlington Station CR061 - Hayes and Harlington Station CR062 - Hayes and Harlington to Southall CR063 - Southall Station CR064 - Southall to Hanwell CR065 - Hanwell Station CR066 - Hanwell to West Ealing CR067 - West Ealing Station CR068 - West Ealing to Ealing Broadway CR072 - Ealing Broadway to Acton Main Line CR073 - Acton Main Line Station CR074 - Acton Main Line to Kensal Town CR075 - Kensal Town Station CR076 - Kensall Town to Paddington Section CR081 - Paddington Station (Crossrail) CR082 - Paddington to Bond Street Section CR084 - Bond Street to TCR Section CR086 - TCR to Farringdon Section	London Underground Location Coding System used to code and identify individual buildings

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places/Number Format (nu Only)	Defined Values List (pd only)	Description
				CR088 - Farringdon to Liverpool Street CR092 - Liverpool Street to Whitechapel CR094 - Stepney Green Shaft to Stratford Station CR094 - Whitechapel Station to Stepney Green Shaft CR102 - Stratford to Maryland CR103 - Maryland Station CR104 - Maryland to Forest Gate CR105 - Forest Gate Station CR106 - Forest Gate to Manor Park CR107 - Manor Park Station CR108 - Manor Park to Ilford CR109 - Ilford Station CR112 - Ilford to Seven Kings CR113 - Seven Kings Station CR114 - Seven Kings to Goodmayes CR115 - Goodmayes Station CR116 - Goodmayes to Chadwell Heath CR117 - Chadwell Heath Station CR118 - Chadwell Heath to Romford CR119 - Romford Station CR122 - Romford to Gidea Park CR123 - Gidea Park Station CR124 - Gidea Park to Harold Wood CR125 - Harold Wood Station CR126 - Harold Wood to Brentwood CR127 - Brentwood Station CR128 - Brentwood to Shenfield CR129 - Shenfield Station CR142 - Stepney Green Shaft to Canary Wharf Station CR143 - Canary Wharf Station CR144 - Canary Wharf Station to Custom House Station CR145 - Custom House Station CR146 - Connaught Tunnel CR146 - Custom House Station to Woolwich Station CR147 - Woolwich Station CR148 - Woolwich Station to Abbey Wood Station CR149 - Abbey Wood Station CR501 - Royal Oak Portal CR502 - Pudding Mill Lane Portal CR503 - Victoria Dock Portal CR504 - North Woolwich Portal CR505 - Plumstead Portal CR511 - Fisher Street Shaft	

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places/Number Format (nu Only)	Defined Values List (pd only)	Description
				CR512 - Stepney Green Shaft CR513 - Mile End Park Shaft CR514 - Eleanor Street Shaft CR515 - Limmo Peninsular Shaft CR516 - Plumstead Shaft CR521 - Route Control Centre CR522 - Kensall Green Bulk Supply CR523 - Old Oak Common Depot CR524 - Pudding Mill Lane Bulk Supply CR525 - Westbourne Park Turnback Facility CR526 – Plumsted Depot & Sidings CR527 - Ilford Depot Back Up Control Facility D061 - Whitechapel Station D233 - Heathrow Central D235 - Heathrow Terminal 4 D237 - Heathrow Terminal 5 M123 - Farringdon Station M135 - Moorgate Station Mobile Asset N105 - Tottenham Court Road Station	
Memo		ME			Space to add any further notes in relation to the Asset as required. This is free text storage and does not form part of the core asset data collection. This attribute can be used for any purpose and no quality/validation checks will be performed on the information.

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places/Number Format (nu Only)	Defined Values List (pd only)	Description
Label Text Line Two		CH			Used to collect the second line of information which is to be output onto the Asset Tag labels; The information populated should be done in accordance with the requirements stated Asset Tag naming and labelling document. (Line one label information is always the Asset Tag ID)
Label Text Line Three		CH			Used to collect the third line of information which is to be output onto the Asset Tag labels; The information populated should be done in accordance with the requirements stated Asset Tag naming and labelling document. (Line one label information is always the Asset Tag ID)
Label Text Line Four		CH			Used to collect the fourth line of information which is to be output onto the Asset Tag labels; The information populated should be done in accordance with the requirements stated Asset Tag naming and labelling document. (Line one label information is always the Asset Tag ID)

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places/Number Format (nu Only)	Defined Values List (pd only)	Description
Design Alternative Asset ID		CH			Used to collect an alternative ID number for the asset which is generated and maintained by the design/construction contractor. This alternative ID may appear on Drawing/Schematics or within other project documentation in place of the official CRL Asset Tag ID or may be used within contractors own systems to identify Assets. This identification will not be used by CRL as a primary mechanism for identifying assets but will act as a mapping between AIMS and other numbers which have potentially been utilised
Recommended Life Expectancy (Years)		NU	0		This attribute represents the current recommended life expectancy in years based on available RAM requirements and specification information.

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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5 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 Glossary CRL1-XRL-Z3-GUI-CR001-50012
- Asset Naming and Labelling Convention Document CRL1-XRL-ADDSD-CR001-50413

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