

# National Underground Asset Register (NUAR)

# **NUAR Data Model Publication**

# **Presentation Specification for the NUAR Web Portal**

# **Publication History**

Date	Version	Description
12/08/2024 0.1 First publication of the NUAR Data Model		First publication of the NUAR Data Model

# Purpose of this document

This document describes how Feature Types and attribute values in the NUAR Harmonised Data Model are translated into cartographic elements and attribute display values in the NUAR Web Portal.

Information is correct at the time of writing. The NUAR platform is under development, so this information is still evolving and subject to change, particularly the order and content of attribute information.



# 1 Colours, Linestyles and Symbology

# 1.1 Combined Map

The table below gives the colours, linestyles and symbols used to present features in the data model on the combined map in the NUAR platform.

Sectors are listed in the same order as presented in the platform layer control, in terms of ascending nominal/standard depth (i.e. the order in which these assets would broadly be expected to be encountered during an excavation).

In the NUAR platform the sector to which a feature belongs is inferred from the table from which it is retrieved.

Sector	Colour (RGB)	Lines (Underground)	Lines (Above Ground)	Nodes (Underground)	Nodes (Above Ground)	Descriptions	Property Changes	Cross- Sections
Drainage	0, 213, 213			•				1 1
Telecoms	82, 82, 82					<b>A</b>	•	<b>↑</b>
Electricity	245, 37, 0					<u> </u>	•	1 1
Gas	255, 153, 0					<u> </u>		<b>↑</b> ↑
Thermal	59, 153, 80					<b>A</b>	•	<b>↑</b>
Water	2, 87, 222					<b>A</b>		11



Sector	Colour (RGB)	Lines (Underground)	Lines (Above Ground)	Nodes (Underground)	Nodes (Above Ground)	Descriptions	Property Changes	Cross- Sections
Sewer	155, 73, 0			•				11
Fuel & Chemicals	141, 0, 207						•	<b>↑</b> ↑
Transport	255, 114, 241			•				1 1
Non-utility objects	155, 155, 155					<b>^</b>		N/A
Planning Areas	131, 233, 21							N/A



# 1.2 Gas Sector Map

The "Isolated Views" feature in the NUAR platform allows data from individual organisations to be viewed in isolation, and in this view custom symbology reflecting existing standards for different sectors may be switched on. Initially, this custom symbology has been defined for the Gas sector given that the colours, linestyles and symbology for different pressure tiers and equipment types is long established and homogenous across the different gas networks.

#### 1.2.1 Line Features

The colour and linestyle of linear features is dictated by the Pressure Tier recorded in the database.

Description	Colour (RGB)	Style	Example
Low Pressure	255, 0, 0	Solid	
Medium Pressure	0, 197, 255	Line-Dash-Line	
Intermediate Pressure	85,255,0	Line-Dash-Dash-Line	
Local High Pressure	255,127,39	Line-Dash-Dash-Line	
National High Pressure	255,0,255	Line-Dash-Dash-Dash-Line	
Other/Unknown	255, 153, 0	Solid	



#### 1.2.2 Point Features

The colour of point features, like linear features is dictated by the pressure tier recorded against them, and the symbol used is dictated by the component type value.

Description	Symbol (no colour)
Cathodic Protection Node	
End Closure/Capped End	
Regulator (Governor)	8
Pressure Reduction	<u> </u>
Syphon	0
Tee	
Trap	
Valve	×
Other/Unknown	

#### 1.3 Other Sectors

Custom colours, linestyles and symbology for other sectors is TBC.



# 2 Attribute Display Values

#### 2.1 Sections

Feature attributes in the NUAR Web Portal are displayed in the Feature Panel and divided into sections as follows:

- Headline Asset Information. Most important information about the selected feature
- Headline Owner Information. Key contact information about the asset owner organisation.
- Observation Details. Information for Observation features only.
- **Ownership and Operation**. Details of any different organisations involved with the asset, its operation and data management.
- **Description**. Detailed description of the feature.
- Installation Details. Details of how and when the asset was installed.
- Status. The status of the asset.
- Data Currency. Information about the data currency.
- Location. Any description of the location of the feature.
- Measurement and Accuracy. Details about the measurement and capture of the feature.
- Contact Details. Full contact details for this asset.
- Associated Guidance. Textual guidance related to the asset.
- Linked Files. Links to any files associated with the feature.
- **Disclaimers**. Any disclaimers associated with the feature.

Not all of these sections will be populated for all features.

#### 2.2 Display Values - all

Section	Sector	Display Value	Attribute Name
	All assets	Operational status  Depth  Material	operationalstatus depth_depth + depth_unitofmeasure material
Headline Asset	All network nodes and links	Asset type Owner	componenttype dataowner
Information	Access accessories	Asset type	accesstype
	Container accessories	Asset type	containertype
	Protection accessories	Asset type	protectiontype
	Support accessories	Asset type	supporttype



	All asset description	Item type	descriptiontype
	objects	Item text	associatedtext
	Sites	Asset type	sitetype
		Voltage level	conveyancemethod
	Electricity Features	Voltage	operatingvoltage_operatingvoltage + operatingvoltage_unitofmeasure
			conveyancemethod
		Pressure tier	insidewidth_width +
	Gas Features	Diameter	insidewidth_unitofmeasure
		Carrier material Carrier diameter	outermaterial
		Carrier diameter	outsidewidth_width + outsidewidth_unitofmeasure
	Sewer Features	Diameter/Width Height	insidewidth_width + insidewidth_unitofmeasure insideheight _height + insideheight_unitofmeasure
	Thermal Features	Diameter	insidewidth_width + insidewidth_unitofmeasure
		Commodity type	utilitytype
	Water Features	Diameter	insidewidth_width + insidewidth_unitofmeasure
		Data provider	nuaractor:displayname
	All Asset Features	Emergency contact details	[nuarcontactdetails: Compound Contact Details]
Headline Owner		Business contact details	[nuarcontactdetails: Compound Contact Details]
Information		Last reviewed in NUAR	datelastupdated
		Expected data refresh period	expectedrefreshperiod
		Observation type	observationtype
		Originating	nuaractor:displayname
		organisation	observationcategory
Observation	All Observation	Category	objectname
Details	Features	Title	notes
		Details	datelastupdated
		Created date	[nuarlinkedfile: Compound File
		Associated files	Details]



Ownership and Operation	All Assets  All Reference and non-utility features  SEE DEDICATED	Asset owner Data owner Operator Owner Operator SEE DEDICATED	objectowner dataowner operator objectowner operator
Installation Details	TABLE BELOW  All Assets	Position Depth Date of installation Installation method Installation method description	undergroundstatus depth_depth dateofinstallation installationmethod installationmethodsubtype
Status	All Assets	Additional requirements Operational status Date status changed	enhancedmeasures operationalstatus dateoflaststatuschange
Data Currency	All Assets	Date of last data collection Original date of data collection Last refreshed in NUAR Last reviewed in NUAR Expected data refresh period	datedatacollected originaldatedatacollected systemloaddate datelastupdated expectedrefreshperiod
Location	All Assets	Location reference Location reference type	localereference localereferencetype
Measurement and Accuracy	All Assets	Surveyed quality level Method of location capture Method of depth capture	qualitylevel horizontalmeasurementmethod depthmethod
Contact Details	Emergency	Department Telephone	departmentname telephonenumber



		Email	emailaddress
		Web form	webform
		Address	singlelineaddress
		Department	departmentname
		Telephone	telephonenumber
	Business	Email	emailaddress
		Web form	webform
		Address	singlelineaddress
Associated	All Assats	Туре	name
Guidance	All Assets	Description	description
Linked Files	All Assets	Associated files	[nuarlinkedfile: Compound File Details]
Disclaimers	All Assets	Disclaimer	disclaimertext

# 2.3 Display Values – Description section

Sector	Туре	Display Value	Attribute Name
		Asset ID	objectownerassigneduniqueid
		Asset name	objectname
		Asset description	description
		Asset type	componenttype
		Asset type description	componentsubtype
	Nodes	Material	material
	Nodes	Material description	materialsubtype
		Colour	colour
		Internal width	insidewidth_width
		Internal height	insideheight_height
Drainage		Internal length	insidelength_length
		Auxiliary Asset?	isauxiliary
		Asset ID	objectownerassigneduniqueid
		Asset name	objectname
		Asset description	description
	Links	Purpose	conveyancecategory
	Links	Commodity Type	utilitysubtype
		Asset type	componenttype
		Asset type description	componentsubtype
		Material	material



		Material description	materialsubtype
		Colour	colour
		Diameter	insidewidth_width
		Auxiliary Asset?	isauxiliary
		Asset ID	objectownerassigneduniqueid
		Asset name	objectname
		Asset description	description
		Asset type	componenttype
		Asset type description	componentsubtype
	Nodes	Voltage tier	conveyancemethod
	Nodes	Voltage	operatingvoltage
		Cross-sectional area	insidewidth_width
		Material	material
		Material description	materialsubtype
		Colour	colour
Electricity		Auxiliary Asset?	isauxiliary
Electricity	Links	Asset ID	objectownerassigneduniqueid
		Asset name	objectname
		Asset description	description
		Asset type	componenttype
		Asset type description	componentsubtype
		Voltage tier	conveyancemethod
		Voltage	operatingvoltage
		Cross-sectional area	insidewidth_width
		Material	material
		Material description	materialsubtype
		Colour	colour
		Auxiliary Asset?	isauxiliary
		Asset ID	objectownerassigneduniqueid
		Asset name	objectname
Fuel & Chemicals		Commodity type	utilitytype
		Asset description	description
	Nodes	Asset type	componenttype
		Asset type description	componentsubtype
		Pressure tier	conveyancemethod
		Material	material
		Material description	materialsubtype



		Colour	colour
		Internal width	insidewidth_width
		Internal height	insideheight_height
		Internal length	insidelength_length
		Cathodic Protected?	iscathodicprotected
		Auxiliary Asset?	isauxiliary
		Asset ID	objectownerassigneduniqueid
		Asset name	objectname
		Commodity type	utilitytype
		Asset description	description
		Asset type	componenttype
		Major accident hazard pipeline?	mahp
		Asset type description	componentsubtype
		Pressure tier	conveyancemethod
		Material	material
	Links	Material description	materialsubtype
		Material grade	materialgrade
		Colour	colour
		Diameter	insidewidth_width
		Wall thickness	wallthickness
		Outer material	outermaterial
		Outer material description	outermaterialsubtype
		Outer diameter	outsidewidth_width
		Cathodic Protected?	iscathodicprotected
		Slabbing?	slabbing
		Tape?	tape
		Auxiliary Asset?	isauxiliary
		Asset ID	objectownerassigneduniqueid
		Asset name	objectname
		Asset description	description
Gas		Asset type	componenttype
		Asset type description	componentsubtype
	Nodes	Pressure tier	conveyancemethod
		Material	material
		Material description	materialsubtype
		Colour	colour
		Internal width	insidewidth_width



		Internal height	insideheight_height
		Internal length	insidelength_length
		Cathodic Protected?	iscathodicprotected
		Auxiliary Asset?	isauxiliary
		Asset ID	objectownerassigneduniqueid
		Asset name	objectownerassigneduniqueid
		Asset description	description
		Asset type	componenttype
		Major accident hazard	mahp
		pipeline?	componentsubtype
		Asset type description	conveyancemethod
		Pressure tier	material
	Links	Material	materialsubtype
	LIIIKS	Material description	insidewidth_width
		Diameter	wallthickness
		Wall thickness	outermaterial
		Carrier material	outermaterialsubtype
		Carrier material description	outsidewidth_width
		Carrier diameter	colour
		Colour	iscathodicprotected
		Cathodic Protected?	isauxiliary
		Auxiliary Asset?	isaaxiiai y
	Nodes	Asset ID	objectownerassigneduniqueid
		Asset name	objectname
		Asset description	description
		Asset type	componenttype
		Asset type description	componentsubtype
		Material	material
		Material description	materialsubtype
Sewer		Colour	colour
		Internal width	insidewidth_width
		Internal height	insideheight_height
		Internal length	insidelength_length
		Auxiliary Asset?	isauxiliary
	Links	Asset ID	objectownerassigneduniqueid
		Asset name	objectname
		Asset description	description
		Sewer type	utilitysubtype
			Dog 12 of 10



		Flow type	conveyancemethod
		Asset type	componenttype
		Asset type description	componentsubtype
		Material	material
		Material description	materialsubtype
		Colour	colour
		Diameter/Width	insidewidth_width
		Height	insideheight_height
		Auxiliary Asset?	isauxiliary
		Asset ID	objectownerassigneduniqueid
		Asset name	objectname
		Asset description	description
		Asset type	componenttype
	Nodes	Asset type description	componentsubtype
		Material	material
		Material description	materialsubtype
		Colour	colour
Telecoms		Auxiliary Asset?	isauxiliary
relecoms		Asset ID	objectownerassigneduniqueid
		Asset name	objectname
		Asset description	description
	Links	Asset type	componenttype
		Asset type description	componentsubtype
		Material	material
		Material description	materialsubtype
		Colour	colour
		Auxiliary Asset?	isauxiliary
		Asset ID	objectownerassigneduniqueid
	Nodes	Asset name	objectname
Thermal		Asset description	description
		Asset type	componenttype
		Asset type description	componentsubtype
		Operating temperature	operatingtemperature
		Operating temperature range	operatingtemperaturerange
		Material	material
		Material description	materialsubtype
		Colour	colour



		Internal width	insidewidth_width
		Internal height	insideheight_height
		Internal length	insidelength_length
		Auxiliary Asset?	isauxiliary
		Asset ID	objectownerassigneduniqueid
		Asset name	objectname
		Asset description	description
		Commodity type	utilitysubtype
		Purpose	conveyancecategory
		Asset type	componenttype
		Asset type description	componentsubtype
		Operating temperature	operatingtemperature
	Links	Operating temperature range	operatingtemperaturerange
	LIIKS	Material	material
		Material description	materialsubtype
		Colour	colour
		Diameter	insidewidth_width
		Wall thickness	wallthickness
		Outer material	outermaterial
		Outer material description	outermaterialsubtype
		Outer diameter	outsidewidth_width
		Auxiliary Asset?	isauxiliary
		Asset ID	objectownerassigneduniqueid
	Nodes	Asset name	objectname
		Asset description	description
		Asset type	componenttype
		Asset type description	componentsubtype
		Material	material
		Material description	materialsubtype
Transport		Colour	colour
		Auxiliary Asset?	isauxiliary
	Links	Asset ID	objectownerassigneduniqueid
		Asset name	objectname
		Asset description	description
		Asset type	componenttype
		Asset type description	componentsubtype
		Material	material



Colour   Auxiliary Asset?   Colour			Material description	materialsubtype
Water  Water  Links  Asset type  Colour  Internal width Internal length Auxiliary Asset?  Componentsubtype  colour  insidewidth_width insidelength_length insidelength insidelength_length insidelength_length insidelength_length insidelength_length insidelength_length insidelength_length insidelength_length insidelength_length insidelength_length insidelength insidelength_length insidelength_length insidelength_length insidelength_length insidelength_length insidelength_length insidelength_length insidelength_length insidelength_length insidelength insidelength insidelength_length insidelength_length insidele			Colour	colour
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Nodes  No			Asset name	objectname
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Links  Material  Material description  Colour  Diameter  Wall thickness  Outer material  Outer material description  Outer diameter  Auxiliary Asset ID  Asset ID  Asset type			Asset type	componenttype
Links  Material description  Colour  Diameter  Wall thickness  Outer material  Outer material description  Outer diameter  Cathodic protected?  Auxiliary Asset?  Asset ID  Asset ID  Asset description  Asset type  Asset type  Asset type  Asset type  Asset type  Asset type description  Colour  insidewidth_width  wallthickness  Outermaterial  outermaterialsubtype  outsidewidth_width  iscathodicprotected  isauxiliary  objectownerassigneduniqueid  description  description  accesstype  accesstype			Asset type description	componentsubtype
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Outer material description Outer diameter Outsidewidth_width Cathodic protected? Auxiliary Asset? isauxiliary  Asset ID Asset description Asset description Asset type Asset type Asset type description Outermaterialsubtype Outsidewidth_width iscathodicprotected isauxiliary Objectownerassigneduniqueid Asset description accesstype Asset type description accesssubtype			Wall thickness	wallthickness
Outer diameter outsidewidth_width Cathodic protected? iscathodicprotected Auxiliary Asset? isauxiliary  Asset ID objectownerassigneduniqueid Asset description description Asset type accesstype Asset type description accesssubtype			Outer material	outermaterial
Cathodic protected? iscathodic protected Auxiliary Asset? isauxiliary  Asset ID object owner assigned unique id Asset description description Asset type Asset type Asset type description access subtype			Outer material description	outermaterialsubtype
Auxiliary Asset? isauxiliary  Asset ID objectownerassigneduniqueid Asset description description Asset type accesstype Asset type description accesssubtype			Outer diameter	outsidewidth_width
Asset ID objectownerassigneduniqueid Asset description description Asset type accesstype Asset type description accesssubtype			Cathodic protected?	iscathodicprotected
All Accessories  Access  Asset description  Asset type  Asset type  Asset type description  accesssubtype			Auxiliary Asset?	isauxiliary
All Accessories Access Asset type Asset type description accesssubtype	All Accessories	Access	Asset ID	objectownerassigneduniqueid
Asset type description accesssubtype			Asset description	description
			Asset type	accesstype
Number of covers numberofcovers			Asset type description	accesssubtype
			Number of covers	numberofcovers



		Material	material
		Material description	materialsubtype
		Colour	colour
		Asset ID	objectownerassigneduniqueid
	Container	Asset description	description
		Asset type	containertype
		Asset type description	containersubtype
		Material	material
		Material description	materialsubtype
		Colour	colour
		Asset ID	objectownerassigneduniqueid
		Asset description	description
	Dharing	Protection type	physicalprotectiontype
	Physical Protection	Protection type description	physicalprotectionsubtype
	rioteetion	Material	material
		Material description	materialsubtype
		Colour	colour
	Support	Asset ID	objectownerassigneduniqueid
		Asset description	description
		Asset type	supporttype
		Asset type description	supportsubtype
		Material	material
		Material description	materialsubtype
		Colour	colour
			objectownerassigneduniqueid
	All	Site ID	objectname
		Site name	description
All Sites		Site description	sitetype
		Site type	sitesubtype
		Site type description	materialsubtype
			colour
Description Objects	All	Item ID	objectownerassigneduniqueid
		Item name	objectname
		Item description	description
		Item type	descriptiontype
		Item text	associatedtext



		Object type	type
Non-utility		ID	objectownerassigneduniqueid
		Name	objectname
	All	Description	description
Objects		Date of installation	dateofinstallation
		Width	insidewidth_width
		Height	insideheight _height
		Length	insidelength_length
		Area type	planningareatype
		ID	objectownerassigneduniqueid
	Archaeological	Name	objectname
	Site	Description	description
		Additional Information	additionalinformation
		Grade	grade
		Area type	planningareatype
	0	ID	objectownerassigneduniqueid
	Conservation Area	Name	objectname
	Aica	Description	description
		Additional Information	additionalinformation
		Area type	planningareatype
	SSSI England	ID	objectownerassigneduniqueid
		Name	objectname
Planning		Description	description
		Additional Information	additionalinformation
	SSSI Wales	Area type	planningareatype
		ID	objectownerassigneduniqueid
		Name	objectname
		Description	description
		Additional Information	additionalinformation
	ASSI NI	Area type	planningareatype
		ID	objectownerassigneduniqueid
		Name	objectname
		Description	description
		Additional Information	additionalinformation
	Tree Location	Area type	planningareatype
		ID	objectownerassigneduniqueid
		TPO?	treepreservationorder



	Species	species
	Species	species
	Description	description
	Additional Information	additionalinformation
	Area type	planningareatype
	ID	objectownerassigneduniqueid
Site of Previous	Previous use	previoususe
Industrial Use	End date	enddate
	Description	description
	Additional Information	additionalinformation
	Area type	planningareatype
General Planning	ID	objectownerassigneduniqueid
Area	Description	description
	Additional Information	additionalinformation
	Area type	planningareatype
Restricted	ID	objectownerassigneduniqueid
Planning Area	Description	description
	Additional Information	additionalinformation