

National Underground Asset Register (NUAR)

NUAR Data Model Publication

Mandatory Data Conventions: Base Compliance

Publication History

Date	Version	Description
12/08/2024	0.1	First publication of the NUAR Data Model
10/03/2025	1.0	Publication of the NUAR Data Model – V2.1.3

Purpose of this document

The mandatory nature of some attributes in the data model are not enforced by database constraints in the physical model in order to simplify data maintenance and management.

There is therefore a requirement to define and document conventions and rules around mandatory fields and default values to allow these to be implemented fully in the validation stage of data ingestion.

As a general rule, relationship tables with mandatory fields for relating objects in two tables are not explicitly listed in this document.

Mandatory Data Conventions

Feature Type	Attribute Name	Enforced?	Default Value if not available
NUARObject	systemID	Y	N/A
NUARObject	dateLastUpdated	Y	N/A
NUARObject	lifecycleStatus	Y	Default value of "Submitted"
NUARObject	systemLoadDate	Y	N/A
NUARActor	actorType	N	N/A - required
NUARActor	address	N	The officially registered address of the organisation is required
NUARActor	administeredByParent	N	FALSE
NUARActor	corporateEmailDomains	N	A semi-colon separated list of corporate email domains for the organisation is required (e.g. utility.co.uk;utility.com)
NUARActor	displayName	N	The displayName is used in the platform UI so should be populated. This is automatically set to be the same as the "name" value during data publication if empty or NULL



Feature Type	Attribute Name	Enforced?	Default Value if not available
NUARActor	name	N	N/A - required
NUARActor	parentOrganisationID	N	If the organisation has a known parent organisation, the systemID of the parent NUARActor record must be recorded here
Relationship_ActorToContactDetails	linkedActorID	Y	systemID of the NUARActor record for which contact details are recorded. Each NUARActor record must at least be related to contact details of type "Business" (see below)
Relationship_ActorToContactDetails	linkedContactDetailsID	Y	systemID of the NUARContactDetails record for which contact details are recorded. Each NUARActor record must at least be related to contact details of type "Business" (see below)



Feature Type	Attribute Name	Enforced?	Default Value if not available
NUARContactDetails	contactDetailsType	N	N/A - required. Each NUARActor record must at least be related to contact details of type "Business"
Relationship_ActorToServiceArea	serviceAreaPurpose	Y	N/A
NUARSubmissionObject	dateLastUpdated	Y	N/A
NUARSubmissionObject	systemLoadDate	Y	N/A
NUARSubmissionEvent	dateOfSubmission	N	N/A - required
NUARSubmissionEvent	eventName	N	N/A - required. No constraints on form or uniqueness - a human-readable name for the submission event
NUARSubmissionEvent	noChange	N	FALSE
NUARSubmissionEvent	noChangeToSubmission ID	N	Must be specified if "noChange" is set to TRUE
NUARSubmissionEvent	submissionID	N	N/A - required
NUARRule	name	Y	N/A
NUARActivityTypeProximityRule	activityType	Y	N/A



Feature Type	Attribute Name	Enforced?	Default Value if not available
MUDDIObject	dataProviderAssignedUniqueID	N	<p>Only assigned from source if the identifier string is guaranteed unique when combined with NUARActor::systemID and MUDDIObject::sourceFeatureClass.</p> <p>Composite of the form:</p> <p><NUARActor::systemID>:<Supplied ID String>:MUDDIObject::sourceFeatureClass</p> <p>Otherwise</p> <p>Auto-generated UUID</p>
MUDDIObject	dataProviderAssignedUniqueIDAutoAssigned	Y	Default value of "True"
MUDDIObject	dataProvenance	Y	Default value of "Asset Owner Records"
MUDDIObject	dataSensitivityLevel	N	
MUDDIObject	expectedRefreshPeriod	N	N/A - required
MUDDIObject	geometry	N	N/A - required
MUDDIObject	horizontalCRS	N	N/A - required



Feature Type	Attribute Name	Enforced?	Default Value if not available
MUDDIObject	sourceFeatureClass	N	Same as Data Provider Name (in NUARActor)
MUDDIAsset	undergroundStatus	N	N/A - required
NUARLinkedFile	scanStatus	N	"Pending"
Relationship_ObjectToContactDetails	linkedObjectID	Y	<p>dataProviderAssignedUniqueID of the object record for which contact details are recorded (the name of the table representing the object type is given in the linkedObjectTable below).</p> <p>Contact details linked to specific features should only be populated if they differ from those stored for the NUARActor associated with the feature.</p>



Feature Type	Attribute Name	Enforced?	Default Value if not available
Relationship_ObjectToContactDetails	linkedObjectTable	Y	<p>The name of the table used to represent the object identified in the linkedObjectID field above.</p> <p>This would usually be a table derived from NetworkLink, NetworkNode or Site, but could also be a Network Feature Type for instance.</p>
Relationship_ObjectToContactDetails	linkedContactDetailsID	Y	systemID of the NUARContactDetails record for which contact details are recorded.
NetworkAsset	utilityType	N	"Other"
NetworkDescriptionObject	textColour	N	"#000000"
NetworkDescriptionObject	utilityType	N	"Other"
NetworkDimension	fontName	N	"Arial"
NetworkDimension	fontSize	N	8
NetworkConveyanceLink	componentType	N	"Other"
NetworkConveyanceNode	componentType	N	"Other"

Feature Type	Attribute Name	Enforced?	Default Value if not available
NetworkLinkZoneOfInterest	parentFeatureID	N	The dataproviderassigne duniqueID of the parent feature attached to this Zone Of Interest must be specified
NetworkNodeZoneOfInterest	parentFeatureID	N	The dataproviderassigne duniqueID of the parent feature attached to this Zone Of Interest must be specified
NetworkAnnotation	bold	N	FALSE
NetworkAnnotation	geometryVisible	N	FALSE
NetworkAnnotation	italic	N	FALSE
NetworkAnnotation	underline	N	FALSE
NetworkAnnotation	xOffset	N	0
NetworkAnnotation	yOffset	N	0
NetworkAccessory	accessoryType	N	"Other"
Access	accessType	N	"Other"
Container	containerType	N	"Other"
PhysicalProtection	physicalProtectionType	N	"Other"
Support	supportType	N	"Other"



Feature Type	Attribute Name	Enforced?	Default Value if not available
PlanningArea	planningAreaType	N	"Other"
ServiceArea	serviceAreaType	N	"Other"
ServiceArea	nationalOrRegionalCoverage	Y	"N/A" if the asset owner has a specified service area boundary, otherwise select the appropriate Regional/National value to indicate their coverage
ServiceArea	buffered	Y	FALSE
ServiceArea	bufferSize	N	N/A. If buffered = TRUE, a bufferSize value must be provided
Site	siteType	N	"Other"
TreeLocation	treePreservationOrder	Y	TRUE
AreaOfSpecialScientificInterestNorthernIreland	name	Y	N/A
SitesOfSpecialScientificInterestEngland	ensid	Y	N/A
SitesOfSpecialScientificInterestEngland	gid	Y	N/A
SitesOfSpecialScientificInterestEngland	sssi_name	Y	N/A



Feature Type	Attribute Name	Enforced?	Default Value if not available
SitesOfSpecialScientificInterestScotland	name	Y	N/A
SitesOfSpecialScientificInterestWales	sssi_name	Y	N/A
SupplementalDataCoverage	coverageType	Y	"Other"
SupplementalDataCoverage	drawingPriority	N	0
GasNetworkLink	slabbing	N	FALSE
GasNetworkLink	tape	N	FALSE
GasNetworkLink	mahp	N	TRUE Should only be kept as true if explicitly identified as a Major Accident Hazard Pipeline
FuelAndChemicalsNetworkLink	slabbing	N	FALSE
FuelAndChemicalsNetworkLink	tape	N	FALSE
FuelAndChemicalsNetworkLink	mahp	N	TRUE Should only be kept as true if explicitly identified as a Major Accident Hazard Pipeline
Observation	userID	Y	N/A
Observation	scopeOfSharing	Y	N/A



Feature Type	Attribute Name	Enforced?	Default Value if not available
ObservationOrganisationShare	observationID	Y	N/A
ObservationOrganisationShare	nuarActorID	Y	N/A
ObservationFeedback	observationID	Y	N/A
ObservationFeedback	feedbackUserID	Y	N/A
ObservationFeedback	notes	Y	N/A
ALL	dataproviderid_fk	Y	N/A
ALL	submissioneventid_fk	Y	N/A