

# National Underground Asset Register (NUAR)

#### **NUAR Data Model Publication**

## Item Descriptions for the MUDDI UK Excavation Profile

### **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

This document provides descriptions for the Feature Types, Data Types and Attributes in the UK: Excavation profile of the MUDDI Conceptual Model.



Feature Type	Description
BaseObject	BaseObject:
	< <featuretype>&gt;</featuretype>
	Parent Feature Type for all entities in an implementation of the UK Excavation profile of MUDDI. Establishes the key metadata attributes required for data inserts, updates and deletions.
dateLastUpdated	datelastUpdated:
	Mandatory
	The date upon which this data item was last updated at source. This may be specified at the feature level in some datasets (e.g. a LastModifiedDate field), otherwise this should reflect the date upon which this data item was last supplied to the NUAR submission process (i.e. it should have the same value as the dateOfSubmission for the submission event during which this data item was supplied).
	dateLastUpdated will be updated to the current date and time for an individual feature in the event that it is explicitly identified as being unchanged since the last update.
dateOfLastLifecycleStatusCha	dateOfLastLifecycleStatusChange:
nge	Optional
	The date upon which the current <i>lifecycleStatus</i> value was set
lifecycleStatus	lifecycleStatus:
	Mandatory
	Default = 'Submitted'
	A description of a feature's stage in the general feature lifecycle, through submission, publication, retirement, archive and deletion.
	Currently used mainly at the Submission level to dictate which data submissions are ready for publication to the live view.
systemLoadDate	systemLoadDate:
	Mandatory



I	<u>,                                      </u>
	Date at which the data record for this entity was last loaded into the datastore system. In the case of NUAR, this is the database which is the target of the Data Transformation and Ingestion process, populated after transformation to the target NUAR Data Model is completed.
systemID	systemID:
	Mandatory
	A mandatory, auto-generated identifier which is globally unique within the NUAR platform, and persistent for the lifespan of a data record representing a Feature Version (i.e. an instance of a feature distinguished from other instances of the same feature by distinct values of the System ID attribute and metadata values representing the date and time when the instance was created for use in the NUAR platform. A Feature Version is represented by a single Data Record.
Feature Type	Description
organisation	Organisation:
	< <featuretype>&gt;</featuretype>
	Feature Type representing the organisations or actors who interact with the data. This includes data providers, data owners and asset (object) owners and operators.
	All entities in the database should have a Foreign Key identifying a record in <b><organisation></organisation></b> which represents the Data Provider for that entity.
actorType	actorType:
	Optional
	The type of organisation represented in terms of its relationship to the data held in the database.
	Values for actorType are defined in the <b><actortypevalue></actortypevalue></b> codelist.
	codenst.
address	address:



	The address (e.g. head office or registered address of the legal entity) of the organisation.
	Represented by the <b><addresstype></addresstype></b> Data Type.
administeredByParent	administeredByParent:
	Optional
	Default=FALSE
	A flag indicating whether an organisation is administered from a parent organisation.
copyrightText	copyrightText:
	Optional
	Any copyright or legal text that applies to all data provided by this organisation, and which should be made available alongside that data
corporateEmailDomains	corporateEmailDomains:
	Optional
	Semi-colon delimited string of email domains associated with this organisation (e.g. "nuar.co.uk;nuar.com;nuar.uk").
disclaimerText	disclaimerText:
	Optional
	Any disclaimer text that applies to all data provided by this organisation, and which should be made available alongside that data
displayName	displayName:
	Optional
	The name that should be displayed for this organisation when presented to end users.
	Multiple subsidiary organisations may have the same display name if this is the name that has most meaning to end users.
name	name:



	Optional
	The full unique name of the legal entity represented by this record.
organisationType	organisationType:
	Optional
	The role that this organisation fulfils in the database.
	Values for organisationType are defined in the <pre><organisationtypevalue></organisationtypevalue></pre> codelist.
parentOrganisationID	parentOrganisationID:
	Optional
	The systemID of any parent organisation for this subsidiary organisation.
parentOrganisationName	parentOrganisationName:
	Optional
	The name of any parent organisation for this subsidiary organisation. Should match a <b>name</b> value in <b><organisation></organisation></b> .
reference	reference:
	Optional
	Representation of any reference assigned when the organisation is first included in an artefact tracking the organisation onboarding journey.
shortName	shortName:
	Optional
	A short or abbreviated name for the organisation which may be used for internal functions that, for example, do not allow spaces
standardGuidance	standardGuidance:
	Optional
	Some organisations may supply general safety guidance



	information to be displayed alongside organisation-level information, such as disclaimers and copyright information.
swaCode	swaCode:
	Optional
	The value in the Street Works Act (SWA) Code list associated with this organisation.
	See:
	https://www.geoplace.co.uk/local-authority-resources/street- works-managers/view-swa-codes
websiteURL	websiteURL:
	Optional
	The URL for this organisation's corporate website
Feature Type	Description
AddressType	AddressType:
	< <datatype>&gt;</datatype>
	A Data Type allowing addresses to be represented in the database
buildingName	buildingName:
	Optional
	A description applied to a single building or group of buildings (e.g. "Highfield House")
buildingNumber	buildingNumber:
	Optional
	A number given to a single building or group of buildings (e.g. "44")
locality	locality:
locality	locality: Optional



	hamlet
postcode	postcode:
	Optional
	The postcode of the address
singleLineAddress	singleLineAddress:
	Optional
	All elements of the address combined in a single human-readable string
streetName	streetName:
	Optional
	The street name of the address
subBuilding	subBuilding:
	Optional
	An identifier for a subdivision of a property (e.g. "Flat 3")
townName	townName:
	Optional
	The name of the town the address is within
uprn	uprn:
	Optional
	The Unique Property Reference Number associated with the address
Feature Type	Description
ActivityProximityRule	ActivityProximityRule:
	< <featuretype>&gt;</featuretype>
	A Feature Type allowing a rule to be specified which will be triggered by a given Activity Type being carried out in a given



	proximity to an asset or type of asset.
activityType	activityType:
	Mandatory
	The Activity Type which triggers the rule.
	Values for activityType are defined in the <b><activitytypevalue></activitytypevalue></b> codelist
proximity	proximity:
	Mandatory
	The proximity to an asset or type of asset for the Activity Type to trigger the rule.
Feature Type	Description
ContactDetails	ContactDetails:
	< <featuretype>&gt;</featuretype>
	Feature Type representing contact details which may be associated with organisations or features in the database
address	address:
	Optional
	The physical Address element of the contact details
contactDetailsType	contactDetailsType:
	Optional
	The type of Contact Details represented.
	Values for contactDetailsType are defined in the <contactdetailstypevalue> codelist</contactdetailstypevalue>
departmentName	departmentName:
	Optional
	The Department Name element of the contact details



emailAddress	emailAddress:
	Optional
	The Email Address element of the contact details
organisationName	organisationName:
	Optional
	The name of the organisation for which the Contact Details apply. Should match a <b>name</b> value in <b><organisation></organisation></b> .
telephoneNumber	telephoneNumber:
	Optional
	The Telephone Number element of the contact details
webForm	webForm:
	Optional
	A link to a web form which can be used as a means of contact.
Feature Type	Description
Feature Type  MUDDIObject	Description  MUDDIObject:
	MUDDIObject:
	MUDDIObject: < <featuretype>&gt;</featuretype>
	MUDDIObject:  < <featuretype>&gt;  Parent Feature Type for all entities in the MUDDI model.  Its attributes are inherited by all more specialised classes in the</featuretype>
	MUDDIObject: <featuretype>&gt;  Parent Feature Type for all entities in the MUDDI model.  Its attributes are inherited by all more specialised classes in the MUDDI model and derived profiles.</featuretype>
	MUDDIObject: <featuretype>&gt;  Parent Feature Type for all entities in the MUDDI model.  Its attributes are inherited by all more specialised classes in the MUDDI model and derived profiles.  Mandatory attributes (by convention):</featuretype>
	MUDDIObject: <featuretype>&gt;  Parent Feature Type for all entities in the MUDDI model.  Its attributes are inherited by all more specialised classes in the MUDDI model and derived profiles.  Mandatory attributes (by convention):  dataProviderAssignedUniqueID</featuretype>
	MUDDIObject:  < <featuretype>&gt;  Parent Feature Type for all entities in the MUDDI model.  Its attributes are inherited by all more specialised classes in the MUDDI model and derived profiles.  Mandatory attributes (by convention):  dataProviderAssignedUniqueID  dataProviderAssignedUniqueIDAutoAssigned</featuretype>
	MUDDIObject:  < <featuretype>&gt;  Parent Feature Type for all entities in the MUDDI model.  Its attributes are inherited by all more specialised classes in the MUDDI model and derived profiles.  Mandatory attributes (by convention):  dataProviderAssignedUniqueID  dataProviderAssignedUniqueIDAutoAssigned  geometry</featuretype>



	Optional
	Any additional information associated with the object.
certification	certification:
	Optional
	Name and credentials of the party (if any) that certified the data as meeting positional accuracy and attribute data requirements as agreed for data exchange purposes.
dataOwner	dataOwner:
	Optional
	Name of the data owner.
	Should match a <b>name</b> value of a record with <b>actorType = Data</b> Owner in <organisation>.</organisation>
	This should only be specified if the Data Owner is different from the Asset (Object) Owner.
dataOwnerAssignedUniqueID	dataOwnerAssignedUniqueID:
	l
	Optional
	An identifier assigned by the owner of a data record relating to an asset or object, as represented by a feature in the database.
	An identifier assigned by the owner of a data record relating to



dataProvenance	dataProvenance:
datai iovenance	Mandatory
	Default = "Asset Owner Records"
	An indication of where the data for this item originated.
	Values for this attribute are defined in the <pre><dataprovenancevalue> codelist.</dataprovenancevalue></pre>
dataProviderAssignedUniquel	dataProviderAssignedUniqueID:
D	Mandatory (by convention)
	A mandatory identifier for a feature which is persistent over the managed lifecycle of that feature.
	The Data Provider Assigned Unique ID may be assigned by the provider of that feature to the platform. It is the Data Providers's responsibility to manage the feature lifecycle.
	If the data provider is able to supply comprehensive, unique and persistent IDs within the scope of a source dataset, in the database Data Provider Assigned Unique ID will consist of a composite ID with the following elements:
	<ul> <li>Organisation:systemID - the ID of the organisation responsible for feature lifecycle management (typically the asset owner, but may be a third party service provider or a data custodian)</li> <li>The unique, persistent ID value as supplied</li> <li>MUDDIObject:sourceFeatureClass - the name of the source dataset</li> <li>Each element of the composite ID will be separated by a ":" character.</li> </ul>
	This composite ID will be globally unique within the database and will persist for the lifetime of the feature within the database. This composite ID may persist for the lifetime of the associated asset/object depending on the ID policy of the data provider.
dataProviderAssignedUniquel DAutoAssigned	dataProviderAssignedUniqueIDAutoAssigned: Mandatory (by convention)



ļ	
	Default = TRUE
	Boolean flag that will be set to "True" if the dataProviderAssignedUniqueID is automatically assigned by the platform on ingestion. If the Data Provider supplies a unique ID, this flag will be set to "False".
dataSensitivityLevel	dataSensitivityLevel:
	Optional
	Indicator of the sensitivity level of the data recorded for a feature.
dateDataCollected	dateDataCollected:
	Optional
	Date when a network asset was last surveyed in the field. If this survey was carried out according to the PAS128 standard, the Quality Level assigned to the feature should be recorded in the MUDDIAsset:qualityLevel field. If the survey on this date was not carried out according to PAS128, the MUDDIAsset:qualityLevel field must be left unpopulated.
dateOfExtract	dateOfExtract
	Optional
	The value for <b>dateOfExtract</b> should be derived, where available, from the extract date for the dataset, i.e. features belonging to a given dataset should have the same date of extract as that dataset as included in the relevant submission.
	In the absence of this information it should default to the same value as <b>datelastupdated</b> (representing the date of submission to the database).
dateOfLastStatusChange	dateOfLastStatusChange:
	Optional
	The data upon which the operational status of the feature was last changed. E.g. if a "Date Abandoned" attribute is provided for an abandoned asset, this value should be assigned.
description	description:



	Optional
	Descriptive text for the feature.
enhancedMeasures	enhancedMeasures:
	Optional
	Indicates any additional or enhanced measures a third party should undertake before commencing works in order that they should be carried out safely.
	Values for this attribute are defined in the <pre><enhancedmeasurestypevalue></enhancedmeasurestypevalue></pre> codelist.
enhancedMeasuresProximity	enhancedMeasuresProximity:
	Optional
	The proximity to the feature, in <b>unitofMeasure</b> , at which any enhanced measure specified in the <b>enhancedMeasures</b> attribute is activated.
expectedRefreshPeriod	expectedRefreshPeriod:
	Optional
	The time period within which a refresh of the feature data would be expected.
	Represented by the <b><timeperiodtype></timeperiodtype></b> Data Type.
featureType	featureType:
	Optional
	Category of feature based on feature function and configuration.
	Values for this attribute are defined in the <pre><featuretypevalue> codelist.</featuretypevalue></pre>
geometry	geometry:
	Mandatory (by convention)
	The geometry of the feature



horizontalCRS	horizontalCRS:
	Mandatory (by convention)
	Coordinate system, datum, and epoch date (if applicable) associated with the X and Y coordinates (e.g. "EPSG:27700" for British National Grid)
localeReference	localeReference:
	Optional
	An identifier for the general locale of the object. E.g. a street reference such as a USRN, or a land parcel id.
localeReferenceType	localeReferenceType:
	Optional
	The type of the reference specified in the <b>localeReference</b> attribute.
	Values for this attribute are defined in the <pre><localereferencetypevalue></localereferencetypevalue></pre> codelist.
objectName	objectName:
	Optional
	Any name assigned to the object by the asset owner
objectOwner	objectOwner:
	Optional
	Name of the owner of the physical object.
	Should match a <b>name</b> value of a record with <b>actorType</b> = <b>Object Owner</b> in <b><organisation></organisation></b> .
objectOwnerAssignedUniquel	objectOwnerAssignedUniqueID:
D	Optional
	An identifier assigned by the owner of an asset or object, as represented by a feature in the database.



	used to form part of the composite Data Provider Assigned Unique ID and provide persistence for the lifetime of the asset or object representation within the database. If this is not possible, this ID will be used simply as an attribute to be presented to end users.
operationalStatus	operationalStatus:
	Optional
	Operational status of the object or asset represented by the feature.
	Values for this attribute are defined in the <pre><operationalstatusvalue> codelist.</operationalstatusvalue></pre>
operator	operator:
	Optional
	Name of the object or asset operator.
	Should match a <b>name</b> value of a record with <b>actorType</b> = <b>Object Operator</b> in <b><organisation></organisation></b> .
	This should only be specified if the Operator is different from the Asset (Object) Owner.
operator Assigned UniqueID	operator Assigned UniqueID:
	Optional
	An identifier assigned by the operator of an asset or object to a feature in the database.
	If this is certified by the operator as unique and persistent for a single asset or object within a source dataset, this can be used to form part of the composite Data Provider Assigned Unique ID and provide persistence for the lifetime of the asset or object representation within the database. If this is not possible, this ID will be used simply as an attribute to be presented to end users.
	This should only be assigned if the operation of a physical asset or object is different from the ownership of that asset or object.



originalDateDataCollected	originalDateDataCollected:
	Optional
	The date upon which this feature was originally captured in the source asset owner system
sourceFeatureClass	sourceFeatureClass:
	Mandatory (by convention)
	The name of the source Feature Class or dataset containing this feature as supplied by the Data Provider
version	version:
	Optional
	The version specifier for the present data record as defined by the Data Provider
verticalCRS	verticalCRS:
	Optional
	Coordinate system, datum, and epoch date (if applicable) for the Z coordinate. This is the absolute Z coordinate, not the depth from grade.
	E.g. "EPSG:5101" for Ordnance Datum Newlyn.
Feature Type	Description
MUDDIAsset	MUDDIAsset:
	< <featuretype>&gt;</featuretype>
	Representation of a physical object
azimuth	azimuth:
	Optional
	Horizontal angle (measured clockwise) of the length dimension of a feature with respect to a north base line.
azimuthMeasurementUnits	azimuthMeasurementUnits:



	Optional
	The unit of measure for the value in the <b>azimuth</b> attribute.
	Values for this attribute are defined in the <measurementunitsvalue> codelist (typically Degrees or Radians)</measurementunitsvalue>
azimuthType	azimuthType:
	Optional
	Default = 'Geographic'
	Defines the correct interpretation of the angle specified in azimuth.
	<b>Geographic</b> means that the angle is the rotation from north in a clockwise direction.
	Arithmetic means that the angle is the rotation from east in a counter-clockwise direction.
	Values for this attribute are defined in the <pre><orientationtypevalue> codelist (Arithmetic or Geographic).</orientationtypevalue></pre>
centroidXYZ	centroidXYZ:
	Optional
	X-Y-Z coordinates representing the centre of the feature for data exchange purposes. For non-linear structures, XYZ represents an anchor point used for 3D representations, which may or not coincide with the feature's centroid. In many cases, XYZ coincides with the observed location in the field (e.g., centre of manhole lid). For proper orientation in a 3D space, the azimuth attribute is also necessary.
colour	colour:
	Optional
	A description of the colour of the object as supplied by the Data Provider
depth	depth:
	Optional



ti u:	Numerical value in <b>unitOfMeasure</b> of the depth from grade at ime of survey to the top of the asset. This attribute should be used for a single approximation of asset depth according to <b>depthMethod</b> .
	Absolute vertical positioning information should be epresented in the <b>geometry</b> attribute.
R	Represented by the <b><depthtype></depthtype></b> Data Type.
depthMethod <b>d</b>	depthMethod:
О	Optional
ТІ	The method by which the value for depth was determined.
	/alues for this attribute are defined in the  Codelist
horizontalAccuracy <b>h</b> o	norizontalAccuracy:
o	Optional
P. ac	f the last survey of the feature was carried out according to PAS128, this field should represent the horizontal 'Location accuracy' associated with the Quality Level assigned to this feature, expressed as a <b>LengthType</b> .
fic re ex	f the last survey was not carried out according to PAS128, this field should represent the worst-case 'margin of error' reported by the surveying equipment used at the time, expressed as a <b>LengthType</b> . This field should only be populated f objective data about horizontal accuracy is available.
	norizontal Measurement Method:
od	Optional
	The method by which the horizontal position of the feature was captured.
	/alues for this attribute are defined in the <b>HorizontalMeasurementMethodValue&gt;</b> codelist.
installation Method in	nstallationMethod:
o	Optional
Т	The method used to install the asset, knowledge of which can



	be useful for reducing risk in some scenarios.
	Values for this attribute are defined in the
	<pre><installationmethodtypevalue> codelist.</installationmethodtypevalue></pre>
installationMethodSubType	installationMethodSubType:
	Optional
	Text string allowing data providers to add more detail than can be captured in <i>installationMethod</i> .
intendedPermanence	intendedPermanence:
	Optional
	Intended longevity of the object represented by the feature.
	Values for this attribute are defined in the <a href="IntendedPermanenceValue">IntendedPermanenceValue</a> codelist.
locationType	locationType:
	Optional
	An indication of the location of the object (e.g. carriageway, verge etc).
	Values for this attribute are defined in the <pre><locationtypevalue></locationtypevalue></pre> codelist.
material	material:
	Optional
	Predominant or conveying material of which the object is constructed. For features that transmit a signal or electrical power, material refers to the conductor material.
	Values for this attribute are defined in the <materialtypevalue> codelist.</materialtypevalue>
materialSubType	materialSubType:
	Optional
	A free-text equivalent of the <b>material</b> attribute value which may be used to reflect a source data value which is not precisely represented in the <b><materialtypevalue></materialtypevalue></b> codelist



qualityLevel	qualityLevel:
	Optional
	Quality level in accordance with PAS128:2022. This field should only be populated if the <b>MUDDIObject:dateDataCollected</b> attribute is populated with the date of a PAS128-compliant utility survey, and <b>qualityLevel</b> should reflect the Quality Level assigned during that survey.
	Values for this attribute are defined in the <qualitylevelvalue> codelist.</qualitylevelvalue>
undergroundStatus	undergroundStatus:
	Optional
	Indicator of whether the feature is partially or completely underground.
	The values for this attribute are defined in the <undergroundstatusvalue> codelist.</undergroundstatusvalue>
verticalAccuracy	verticalAccuracy:
	Optional
	If the last survey of the feature was carried out according to PAS128, this field should represent the vertical 'Location accuracy' associated with the Quality Level assigned to this feature, expressed as a <b>LengthType</b> .
	If the last survey was not carried out according to PAS128, this field should represent the worst-case 'margin of error' reported by the surveying equipment used at the time, expressed as a <b>LengthType</b> . This field should only be populated if objective data about vertical accuracy is available.
Feature Type	Description
NetworkAsset	NetworkAsset:
	< <featuretype>&gt;</featuretype>
	Asset that has a role in a utility network.
container	container:



	Optional
	The dataProviderAssignedUniqueID of any container object that directly encloses this Network Asset
dateOfInstallation	dateOfInstallation:
	Optional
	The date upon which the asset was installed, as specified by the Data Provider
insideHeight	insideHeight:
	Optional
	For circular shaped segments, not applicable.
	For non-circular shaped segments, the maximum inside height of the cross-sectional shape.
	For features other than segments, the maximum inside height of the feature.
	Units are always defined by unitOfMeasure.
insideLength	insideLength:
	Optional
	For segments, not applicable.
	For features other than segments, the maximum inside length of the feature (measured in the horizontal plane, perpendicular to the width).
	Units are always defined by unitOfMeasure.
insideWidth	insideWidth:
	Optional
	For circular shaped segments, if the Data Provider supplies a single diameter value, this value should be stored in <b>insideWidth</b> . If an inside and outside diameter are supplied, this attribute should represent the inside diameter.
	For non-circular shaped segments, the maximum inside width of the cross-sectional shape.



	For features other than segments, the maximum inside width of the feature.
	Units are always defined by unitOfMeasure.
isAuxiliary	isAuxiliary:
	Optional
	An indication that this asset is part of an auxiliary network providing supporting services for the main network
isCathodicProtected	isCathodicProtected:
	Optional
	Indicator of the presence of cathodic protection on the asset
isEncased	isEncased:
	Optional
	Indicator of the presence of encasement to insulate or protect the asset.
	Where the conveyance asset is contained within a "carrier" asset (e.g. as a result of replacement of metal with plastic pipes), and there is a requirement to represent the diameter of the carrier asset (see <b>outsideDiameter</b> below) this may be set to "True".
isNPS	isNPS:
	Optional
	Indicator that the provided outside Width is a "Nominal Pipe Size" rather than a true measure. This may correspond to known inside and outside dimensions for well-known types of pipes or other network elements.
	If isNPS is true and both outside and inside width are set to the same value, then it is not known to what dimension the value applies.
outsideHeight	outsideHeight:
	Optional



For circular shaped segments, not applicable. For non-circular shaped segments, the maximum outside height of the cross-sectional shape. For features other than segments, the maximum outside height of the feature. Units are always defined by unitOfMeasure.  outsideLength: Optional For segments, not applicable. For features other than segments, the maximum outside length of the feature (measured in the horizontal plane, perpendicular to the width). Units are always defined by unitOfMeasure.  outsideWidth: Optional  For circular shaped segments, if the Data Provider supplies an explicit outside diameter value, this value should be stored in outsideWidth. If a single diameter value is supplied, insidewidth should be used (see above).  Where the conveyance asset is contained within a "carrier" asset (e.g. as a result of replacement of metal with plastic pipes), and there is a requirement to represent the diameter of the carrier asset, outsideDiameter should represent the supplied diameter of the carrier asset, outsideDiameter should represent the supplied diameter of the carrier asset and isEncased be set to "True".  For non-circular shaped segments, the maximum outside width of the cross-sectional shape. For features other than segments, the maximum outside width of the feature. Units are always defined by unitOfMeasure.  protectiveMaterial: Optional	I	
height of the cross-sectional shape. For features other than segments, the maximum outside height of the feature. Units are always defined by unitOfMeasure.  outsideLength: Optional For segments, not applicable. For features other than segments, the maximum outside length of the feature (measured in the horizontal plane, perpendicular to the width). Units are always defined by unitOfMeasure.  outsideWidth: Optional For circular shaped segments, if the Data Provider supplies an explicit outside diameter value, this value should be stored in outsideWidth. If a single diameter value is supplied, insidewidth should be used (see above).  Where the conveyance asset is contained within a "carrier" asset (e.g. as a result of replacement of metal with plastic pipes), and there is a requirement to represent the diameter of the carrier asset, outsideDiameter should represent the supplied diameter of the carrier asset and isEncased be set to "True". For non-circular shaped segments, the maximum outside width of the cross-sectional shape. For features other than segments, the maximum outside width of the feature. Units are always defined by unitOfMeasure.		For circular shaped segments, not applicable.
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outsideLength:  Optional  For segments, not applicable.  For features other than segments, the maximum outside length of the feature (measured in the horizontal plane, perpendicular to the width).  Units are always defined by unitOfMeasure.  outsideWidth:  Optional  For circular shaped segments, if the Data Provider supplies an explicit outside diameter value, this value should be stored in outsideWidth. If a single diameter value is supplied, insidewidth should be used (see above).  Where the conveyance asset is contained within a "carrier" asset (e.g. as a result of replacement of metal with plastic pipes), and there is a requirement to represent the diameter of the carrier asset, outsideDiameter should represent the supplied diameter of the carrier asset and isEncased be set to "True".  For non-circular shaped segments, the maximum outside width of the cross-sectional shape.  For features other than segments, the maximum outside width of the feature.  Units are always defined by unitOfMeasure.		_
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explicit outside diameter value, this value should be stored in outsideWidth. If a single diameter value is supplied, insidewidth should be used (see above).  Where the conveyance asset is contained within a "carrier" asset (e.g. as a result of replacement of metal with plastic pipes), and there is a requirement to represent the diameter of the carrier asset, outsideDiameter should represent the supplied diameter of the carrier asset and isEncased be set to "True".  For non-circular shaped segments, the maximum outside width of the cross-sectional shape.  For features other than segments, the maximum outside width of the feature.  Units are always defined by unitOfMeasure.		Optional
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of the feature. Units are always defined by unitOfMeasure.  protectiveMaterial:		
protectiveMaterial: protectiveMaterial:		
		Units are always defined by unitOfMeasure.
Optional	protectiveMaterial	protectiveMaterial:
		Optional



<u> </u>	
	Material from which protective layers or elements of the object are constructed.
	Values for this attribute are defined in the <b><materialvalue></materialvalue></b> codelist.
protectiveMaterialSubType	protectiveMaterialSubType:
	Optional
	A free-text equivalent of the <b>protectiveMaterial</b> attribute value which may be useful to reflect a source data value which is not precisely represented in the <b><materialvalue></materialvalue></b> codelist.
utilitySubType	utilitySubType:
	Optional
	Type of utility service at a finer level of classification than utilityType.
	Values for this attribute are defined in the <u> <u> <u> <u> <u> <u> <u> <u></u></u></u></u></u></u></u></u>
utilityType	utilityType:
	Mandatory (by convention)
	Type of utility service that a utility feature carries.
	The values for this attribute are defined in the <pre><utilitytypevalue></utilitytypevalue></pre> codelist.
wallThickness	wallThickness:
	Optional
	Maximum wall thickness.
	Units are always defined by <b>unitOfMeasure</b> .
Feature Type	Description
NetworkConveyance	NetworkConveyance:
	< <featuretype>&gt;</featuretype>
	Asset that has a role in the conveyance of a commodity in a



	utility network.
conveyanceCategory	conveyanceCategory:
	Optional
	Primary category or purpose of service of the asset. Included in each category is the supporting infrastructure, such as alarm and ventilation, needed to provide the corresponding utility service.
	Values for this attribute are defined in the <pre><conveyancecategoryvalue> codelist.</conveyancecategoryvalue></pre>
conveyanceMethod	conveyanceMethod:
	Optional
	Method to move or convey matter (the utility commodity) through the asset (e.g. Pressure, Voltage, Gravity).
	Values for this attribute are defined in the <pre><conveyancemethodvalue></conveyancemethodvalue></pre> codelist.
fillMaterial	fillMaterial:
	Optional
	Material used to fill the space between a utility feature and its encasement or an out-of-service "carrier" feature.
	Values for this attribute are defined in the $MaterialTypeValue$ codelist.Codelist.
isFilled	isFilled:
	Optional
	Indicator of the presence of interstitial material being used to fill the space between a utility feature and its encasement or an out-of-service "carrier" feature.
operatingConveyanceLevel	operatingConveyanceLevel:
	Optional
	A specific value supplied by the Data Provider that represents the "level" at which the commodity is conveyed in this network object (e.g. if a specific voltage level is supplied for an



	electricity cable above and beyond the <b>conveyanceMethod</b> ).
operatingConveyanceLevelTy	operatingConveyanceLevelType:
pe	Optional
	The type of the conveyance level for this network object (e.g. pressure, voltage level).
	Values for this attribute are defined in the <pre><operatingconveyanceleveltypevalue></operatingconveyanceleveltypevalue></pre> codelist.
operatingConveyanceLevelUn	operatingConveyanceLevelUnits:
its	Optional
	The units associated with the operating conveyance level value.
	Values for this attribute are defined in the < MeasurementUnitsValue > codelist.
operatingTemperature	operatingTemperature:
	Optional
	A specific value supplied by the Data Provider that represents the temperature of the commodity conveyed by this network object
operatingTemperatureRange	operatingTemperatureRange:
	Optional
	An indication of the range of temperatures of the commodity conveyed by this network object if supplied by the Data Provider.
	Values for this attribute are defined in the <b>TemperatureRangeValue&gt;</b> codelist.
operatingTemperatureUnits	operatingTemperatureUnits:
	Optional
	The units associated with the operating temperature value.
	Values for this attribute are defined in the < MeasurementUnitsValue > codelist.



outerMaterial	outerMaterial:
	Optional
	Material from which the outer covering, carrier pipe, insulation, etc. is constructed.
	Values for this attribute are defined in the <materialtypevalue> codelist.</materialtypevalue>
outerMaterialSubType	outerMaterialSubType:
	Optional
	A free-text equivalent of the <b>outerMaterial</b> attribute value which may be useful to reflect a source data value which is not precisely represented in the <b><materialvalue></materialvalue></b> codelist.
Feature Type	Description
NetworkConveyanceLink	NetworkConveyanceLink:
	< <featuretype>&gt;</featuretype>
	Linear utility feature that serves as a link or edge in a network graph
componentType	componentType:
	Mandatory (by convention)
	A component is an element of a system which corresponds to the lowest level of detail or feature disaggregation for data exchange purposes.
	Values for this attribute are defined in the < NetworkLinkComponentValue > codelist.
componentSubType	componentSubType:
	Optional
	A free-text equivalent of the <b>componentType</b> attribute value which may be used to reflect a source data value which is not precisely represented in the <b><networklinkcomponentvalue></networklinkcomponentvalue></b> codelist



downstreamDepth	downstreamDepth:
	Optional
	Numerical value in <b>unitOfMeasure</b> of the depth from grade at time of survey or other determination method to the top of the downstream end of the asset.
	If this attribute is provided for a NetworkLink feature, then the <b>depth</b> attribute should be understood as upstreamDepth.
	This attribute should be used for a single approximation of asset depth according to <b>depthMethod</b> .
	Absolute vertical positioning information should be represented in the <b>geometry</b> attribute.
startNodeID	startNodeID:
	Optional
	Holds the <b>dataProviderAssignedUniqueID</b> of the start node of the link, allowing representation of a topological network
endNodeID	endNodeID:
	Optional
	Holds the dataProviderAssignedUniqueID of the end node of the link, allowing representation of a topological network
Feature Type	Description
NetworkConveyanceLinkZone	NetworkLinkZoneOfInterest:
OfInterest	< <featuretype>&gt;</featuretype>
	A zone of interest which emanates from a Network Link
parentFeatureID	parentFeatureID:
	Optional
	The dataProviderAssignedUniqueID value of the feature from which the Zone of Interest polygon is derived
Feature Type	Description



NetworkConveyanceNode	NetworkConveyanceNode:
·	< <featuretype>&gt;</featuretype>
	Discrete utility feature that is directly involved with the conveyance, control, or distribution of a particular utility service and serves as a node in a network graph
componentType	componentType:
	Mandatory (by convention)
	A component is an element of a system which corresponds to the lowest level of detail or feature disaggregation for data exchange purposes.
	Values for this attribute are defined in the < NetworkNodeComponentValue > codelist.
componentSubType	componentSubType:
	Optional
	A free-text equivalent of the <b>componentType</b> attribute value which may be used to reflect a source data value which is not precisely represented in the <b><networknodecomponentvalue></networknodecomponentvalue></b> codelist
Feature Type	Description
NetworkConveyanceNodeZo	NetworkNodeZoneOfInterest:
neOfInterest	< <featuretype>&gt;</featuretype>
	A zone of interest which emanates from a Network Node.
parentFeatureID	parentFeatureID:
	Optional
	The dataProviderAssignedUniqueID value of the feature from which the Zone of Interest polygon is derived
Feature Type	Description
NetworkAccessory	NetworkAccessory:



	< <featuretype>&gt;</featuretype>
	Asset that has a role in the support, containment, access or physical protection of a conveyance object in a utility network
accessoryType	accessoryType
	Mandatory (by convention)
	The type of the Network Accessory.
	The values for this attribute are defined in the <pre><networkaccessorytypevalue></networkaccessorytypevalue></pre> codelist.
Feature Type	Description
Access	Access:
	< <featuretype>&gt;</featuretype>
	Object that has a role in providing access to an asset in a utility network
accessType	accessType:
	Mandatory (by convention)
	The type of the access object.
	The values for this attribute are defined in the <a href="AccessTypeValue">AccessTypeValue</a> codelist.
accessSubType	accessSubType:
	Optional
	A free-text equivalent of the <b>accessType</b> attribute value which may be used to reflect a source data value which is not precisely represented in the <b><accesstypevalue></accesstypevalue></b> codelist
numberOfCovers	numberOfCovers:
	Optional
	The number of covers exposed by the access object
Feature Type	Description



Container	Container:
Container	
	< <featuretype>&gt;</featuretype>
	Object that serves primarily as a container for other assets in a network. E.g. a duct, conduit or vault.
containerType	containerType:
	Mandatory (by convention)
	The type of the container object.
	The values for this attribute are defined in the <pre><containertypevalue> codelist.</containertypevalue></pre>
containerSubType	containerSubType:
	Optional
	A free-text equivalent of the <b>containerType</b> attribute value which may be used to reflect a source data value which is not precisely represented in the <b><containertypevalue></containertypevalue></b> codelist
Feature Type	Description
PhysicalProtection	PhysicalProtection:
	< <featuretype>&gt;</featuretype>
	Object that has a role in the physical protection of an asset in a utility network.
physicalProtectionType	physicalProtectionType:
	Mandatory (by convention)
	The type of the protection object.
	The values for this attribute are defined in the <pre><physicalprotectiontypevalue></physicalprotectiontypevalue></pre> codelist.
physicalProtectionSubType	physicalProtectionSubType:
	Optional
	A free-text equivalent of the <b>physicalProtectionType</b> attribute value which may be used to reflect a source data value which is not precisely represented in the



	<pre><physicalprotectiontypevalue> codelist</physicalprotectiontypevalue></pre>
Feature Type	Description
Support	SupportObject:
	< <featuretype>&gt;</featuretype>
	Structure serving primarily as a support, platform or foundation for another infrastructure component
supportType	supportType:
	Mandatory (by convention)
	The type of the support object.
	The values for this attribute are defined in the <pre><supporttypevalue> codelist.</supporttypevalue></pre>
supportSubType	supportSubType:
	Optional
	A free-text equivalent of the <b>supportType</b> attribute value which may be used to reflect a source data value which is not precisely represented in the <b>SupportTypeValue</b> > codelist
Feature Type	Description
NetworkDescriptionObject	NetworkDescriptionObject:
	< <featuretype>&gt;</featuretype>
	An artefact that describes an element of a network and may be visualised as a descriptive element on a map
associatedAssets	associatedAssets:
	Optional
	dataProviderAssignedUniqueID values of any assets with which this description object is associated
associatedText	associatedText:
	Optional



	Any text associated with the description object. E.g. the depth value associated with a depth marker, the text of an annotation element or the reference number associated with a cross-section drawing.
descriptionType	descriptionType:
	Optional
	The type of the description object.
	The values for this attribute are defined in the <pre><networkdescriptiontypevalue></networkdescriptiontypevalue></pre> codelist.
isQueryable	isQueryable:
	Optional
	Default=FALSE
	Indication of whether the element is queryable on the map. E.g. a cross-section marker would be queryable, whereas an annotation element is unlikely to be.
orientation	orientation:
	Optional
	Default=0
	The rotation angle for the display of the symbol associated with description object
orientationMeasurementUnit	orientationMeasurementUnits:
S	Optional
	Default='Degrees'
	The unit of measure for the value in the <b>orientation</b> attribute.
	Values for this attribute are defined in the <measurementunitsvalue> codelist (typically Degrees or Radians)</measurementunitsvalue>
orientationType	orientationType:
	Optional



j	
	Default = 'Geographic'
	Defines the correct interpretation of the angle specified in <b>orientation</b> .
	<b>Geographic</b> means that the angle is the rotation from north in a clockwise direction.
	Arithmetic means that the angle is the rotation from east in a counter-clockwise direction.
	Values for this attribute are defined in the <pre><orientationtypevalue> codelist (Arithmetic or Geographic).</orientationtypevalue></pre>
referenceScale	referenceScale:
	Optional
	Default=800
	The scale in which an annotation appears on screen at its symbol size. At smaller scales it will be smaller than the onscreen symbol size, at larger scales it will be larger
textColour	textColour:
	Mandatory
	Default=#000000 (Black)
	A hex colour code giving the colour of the description text if displayed on a map.
textPlacementX	textPlacementX:
	Optional
	The x-coordinate of the anchor point indicating the text placement.
textPlacementY	textPlacementY:
	Optional
	The y-coordinate of the anchor point indicating the text placement.
utilitySubType	utilitySubType:
	Optional
	Type of utility service at a finer level of classification than



utilityType	utilityType.  Values for this attribute are defined in the <utilitysubtypevalue> codelist.  utilityType:</utilitysubtypevalue>
	Mandatory (by convention)
	Type of utility service that a utility feature carries.  The values for this attribute are defined in the <b>UtilityTypeValue&gt;</b> codelist.
Feature Type	Description
NetworkAnnotation	NetworkAnnotation:
	< <featuretype>&gt;</featuretype>
	A textual description of an element of a network
bold	bold:
	Optional
	Default=FALSE
	Is the text bold?
characterSpacing	characterSpacing:
	Optional
	Default=0
	The additional space that is added to each character beyond what is defined by its character box in its font. Character spacing is a percentage of the original character's length.
characterWidth	characterWidth:
	Optional
	Default=0
	The width that is added to each character beyond what is defined by its character box in its font. Character width is a percentage of the original character.



flipAngle  flipAngle: Optional Default=0 The angle (in orientationMeasurementUnits from the vertical) at which point rotated text is flipped (mirrored) in place.  fontLeading: Optional Default=0 The adjustment to regular spacing between lines. 0 units means no adjustment to regular line spacing. Generally equal to or greater than the text size.  fontName  fontName: Optional Default='Arial' The name of the font, e.g. "Arial"  fontSize: Optional Default=8 The size of the font in points (approximately 1/72 inch)  fontStyle Optional Default='Regular' The name of the font style, e.g. "Regular"  geometryVisible geometryVisible: Optional Default=FALSE Should the geometry associated with the annotation object be		
Default=0 The angle (in orientationMeasurementUnits from the vertical) at which point rotated text is flipped (mirrored) in place.  fontLeading: Optional Default=0 The adjustment to regular spacing between lines. 0 units means no adjustment to regular line spacing. Generally equal to or greater than the text size.  fontName  fontName: Optional Default='Arial' The name of the font, e.g. "Arial"  fontSize: Optional Default=8 The size of the font in points (approximately 1/72 inch)  fontStyle: Optional Default='Regular' The name of the font style, e.g. "Regular"  geometryVisible geometryVisible: Optional Default=FALSE	flipAngle	flipAngle:
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fontStyle  fontStyle: Optional Default='Regular' The name of the font style, e.g. "Regular"  geometryVisible geometryVisible: Optional Default=FALSE		Default=8
Optional Default='Regular' The name of the font style, e.g. "Regular"  geometryVisible: Optional Default=FALSE		The size of the font in points (approximately 1/72 inch)
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The name of the font style, e.g. "Regular"  geometryVisible: Optional Default=FALSE		Optional
geometryVisible: Optional Default=FALSE		Default='Regular'
Optional  Default=FALSE		The name of the font style, e.g. "Regular"
Default=FALSE	geometryVisible	geometryVisible:
		Optional
Should the geometry associated with the annotation object be		Default=FALSE
		Should the geometry associated with the annotation object be



	visualised?
horizontalAlignment	horizontalAlignment:
	Optional
	Default='Left'
	The horizontal alignment that will be applied to text that contains multiple lines.
	The values for this attribute are defined in the <a href="AnnotationHorizontalAlignmentValue">AnnotationHorizontalAlignmentValue</a> codelist.
italic	italic:
	Optional
	Default=FALSE
	Is the text italic?
underline	underline:
	Optional
	Default=FALSE
	Is the text underlined?
verticalAlignment	verticalAlignment:
	Optional
	Default='Bottom'
	Defines how text is vertically aligned.
	The values for this attribute are defined in the <a href="AnnotationVerticalAlignmentValue">AnnotationVerticalAlignmentValue</a> codelist.
wordSpacing	wordSpacing:
	Optional
	Default=0
	The additional space that is added between words of the text string. Word spacing is a percentage of the original.



xOffset	xOffset:
	Optional
	Default=0
	Shifts the text position right or left
yOffset	yOffset:
	Optional
	Default=0
	Shifts the text position up or down
Feature Type	Description
NetworkDimension	NetworkDimension:
	< <featuretype>&gt;</featuretype>
	A descriptive element that describes a measurement of a network, or its position relative to another feature.
	For information on Dimension elements, see ISO 129-1:2018.
dimensionLine	dimensionLine:
	Optional
	Straight or curved line with terminators at each end or origin and terminator at each end, indicating the size of a feature or the extent of a feature or between two features, or between a feature and an extension line, or between two extension lines
dimensionValue	dimension Value:
	Optional
	Nominal numerical value expressed in a specific unit relevant to a linear or angular dimension
endDimensionLineExtension	endDimensionLineExtension:
	Optional
	Dimension line extension at the end dimension point.
	Where space is limited, dimension lines may be extended past



	the extension lines and the arrowheads placed outside of the extension lines and reversed
endDimensionPoint	endDimensionPoint:
	Optional
	Last point of the dimension line
endExtensionLine	endExtensionLine:
	Optional
	Extension line at the end dimension point
fontName	fontName:  Mandatory  Default='Arial'  The name of the font to be used for displaying the text element of the dimension.
fontSize	fontSize: Mandatory Default=8 The font point size to be used for displaying the text element of the dimension.
propertyIndicator	propertyIndicator:
	Optional
	Symbol or character used to define the shape of a feature or property of an entity composed of several features. Prepended to the dimensionValue.
startDimensionLineExtention	startDimensionLineExtention:
	Optional
	Dimension line extension at the start dimension point.
	Where space is limited, dimension lines may be extended past the extension lines and the arrowheads placed outside of the extension lines and reversed.



startDimensionPoint	startDimensionPoint:
	Optional
	First point of the dimension line
startExtensionLine	startExtensionLine:
	Optional
	Extension line at the start dimension point
Feature Type	Description
ServiceArea	ServiceArea:
	< <featuretype>&gt;</featuretype>
	Representation of the geographical coverage of a whole or partial infrastructure network
buffered	buffered:
	Optional
	Default=FALSE
	Indication of whether this service area geometry has been generated by buffering a source geometry
bufferSize	bufferSize:
	Optional
	If <b>buffered = TRUE</b> , a value indicating the size of the buffer applied (with units)
nationalOrRegionalCoverage	nationalOrRegionalCoverage:
	Mandatory
	Default = "N/A"
	If the geometry of this service area is represented by one of the standard regional or national boundary geometries, this field contains the name of this boundary.
	The values for this attribute are defined in the <a href="NationalOrRegionalCoverageValue">NationalOrRegionalCoverageValue</a> codelist.



original Convice Area ID	originalSorviceArealD:
originalServiceArealD	originalServiceArealD:
	Optional
	For a Service Area whose geometry or extent has been derived from another Service Area geometry (e.g. via buffering), this attribute represents the dataProviderAssignedUniqueID of the original Service Area feature.
serviceAreaSubType	serviceAreaSubType:
	Optional
	A free-text equivalent of the <b>serviceAreaType</b> attribute value which may be used to reflect a source data value which is not precisely represented in the <b><serviceareatypevalue></serviceareatypevalue></b> codelist
serviceAreaType	serviceAreaType:
	Mandatory (by convention)
	The type of the Service Area.
	The values for this attribute are defined in the <pre><serviceareatypevalue></serviceareatypevalue></pre> codelist.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Feature Type	Description
Feature Type Site	
	Description
	Description Site:
	Description  Site:  < <featuretype>&gt;</featuretype>
Site	Description  Site: <featuretype>&gt;  Representation of a specific site within a utility network</featuretype>
Site	Description  Site:  < <featuretype>&gt; Representation of a specific site within a utility network  SiteType:</featuretype>
Site	Description  Site:  < <featuretype>&gt; Representation of a specific site within a utility network  SiteType: Optional</featuretype>
Site	Description  Site: <featuretype>&gt; Representation of a specific site within a utility network  SiteType: Optional The type of the Site. The values for this attribute are defined in the</featuretype>
Site	Description  Site:  < <featuretype>&gt; Representation of a specific site within a utility network  SiteType: Optional The type of the Site. The values for this attribute are defined in the <sitetypevalue> codelist.</sitetypevalue></featuretype>



	precisely represented in the <b><sitetypevalue></sitetypevalue></b> codelist
Feature Type	Description
SiteZoneOfInterest	SiteZoneOfInterest:
	< <featuretype>&gt;</featuretype>
	A zone of interest which emanates from a Site.
parentFeatureID	parentFeatureID:
	Optional
	The dataProviderAssignedUniqueID value of the feature from which the Zone of Interest polygon is derived
Feature Type	Description
SupplementalDataCoverage	SupplementalDataCoverage:
	< <featuretype>&gt;</featuretype>
	Representation of the geographical coverage of information linked to an area which is not defined by a Service Area or a Site. E.g. the coverage of custom backdrop data or supplemental information such as area-linked enlargement maps.
coverageDataServiceType	coverageDataServiceType:
	Optional
	If a data service is associated with this coverage, this value specifies the type of the service.
	The values for this attribute are defined in the <pre><dataservicetypevalue></dataservicetypevalue></pre> codelist.
coverageDataServiceURI	coverageDataServiceURI:
	Optional
	If a data service is associated with this coverage, this value specifies the URI used to access the service.



coverageType	coverageType:
CoverageType	Optional
	The type of the coverage.
	The values for this attribute are defined in the
	CoverageTypeValue> codelist.
drawingPriority	drawingPriority:
	Optional
	Default=0
	An indication of the z-order used to display coverage geometries.
Feature Type	Description
Network	Network:
	< <featuretype>&gt;</featuretype>
	Representation of an infrastructure network.
	This may be a conceptual (non-spatial) representation of a full network or a network "tier" containing entities linked by common attribution and not primarily spatially (a "Subordinate Network").
	A Network feature may also represent a geographical subnetwork of the main network.
	The "parent" network for a given asset owner is related to Service Areas, Subnetworks and Subordinate Networks via relationship tables.
Feature Type	Description
SubordinateNetworkDefinitio n	SubordinateNetworkDefinition:
	< <featuretype>&gt;</featuretype>
	Defined area with characteristics or constraints relevant to excavation planning
linkedNetworkID	linkedNetworkID:



	Mandatory dataproviderassigneduniqueid in the specified network table of the record representing the subordinate network.
linkedNetworkTable	linkedNetworkTable:  Mandatory  The name of the table - qualified by a schema name - containing the subordinate network record.
memberFeaturesTable	memberFeaturesTable: Mandatory The name of the table - qualified by a schema name - containing features which may be members of the subordinate network, depending on the membership criteria.
membershipCriteria	membershipCriteria: Optional The criteria which dictate which records in the specified table are members of the subordinate network. The string should equate to a SQL WHERE clause (not including the WHERE command) that causes features that belong to the subordinate network to be returned by a suitable SELECT query.
Feature Type	Description
PlanningArea	PlanningArea:  < <featuretype>&gt;  Defined area with characteristics or constraints relevant to excavation planning</featuretype>
directive	directive: Optional The name of the Directive or Legislation which defines the status of the Planning Area
planningAreaType	planningAreaType: Optional



	<u> </u>
	The type of the Planning Area.
	The values for this attribute are defined in the <planningareatypevalue> codelist.</planningareatypevalue>
policyDocumentation	policyDocumentation:
	Optional
	A link to a file or website, or a copy of the text, which provides details of the policy documentation or guidance relating to this Planning Area
policyName	policyName:
	Optional
	The name of the policy with which this Planning Area is associated, e.g. "Wildlife and Countryside Act 1981"
Feature Type	Description
Relationship_OrganisationTo	Relationship_OrganisationToContactDetails:
ContactDetails	< <featuretype>&gt;</featuretype>
	Representation of the relationship between an organisation and contact details for the organisation.
linkedOrganisationID	linkedOrganisationID:
	Mandatory
	The systemID of the <b><organisation></organisation></b> record in the relationship
linkedContactDetailsID	linkedContactDetailsID:
	Mandatory
	The systemID of the <b><contactdetails></contactdetails></b> record in the relationship.
Feature Type	Description
Relationship_OrganisationTo	Relationship_OrganisationToServiceArea:
ServiceArea	< <featuretype>&gt;</featuretype>



	Representation of the relationship between an organisation and a Service Area, and the purpose that the Service Area serves for that organisation
organisationID	organisationID:
	Mandatory
	The systemID of the <b><organisation></organisation></b> record in the relationship
serviceArealD	serviceAreaID:
	Mandatory
	The dataProviderAssignedUniqueID of the <b><servicearea></servicearea></b> record in the relationship
serviceAreaName	serviceAreaName:
	Optional
	The name of the Service Area in the as used by the related organisation
serviceAreaPurpose	serviceAreaPurpose:
	Mandatory
	The purpose for which this service area is used by the related organisation.
	The values for this attribute are defined in the <pre><serviceareapurposevalue> codelist.</serviceareapurposevalue></pre>
utilityType	utilityType:
	Optional
	Type of utility service associated with the related Service Area.
Feature Type	Description
Relationship_ServiceProvider	Relationship_ServiceProviderToOrganisation:
ToOrganisation	< <featuretype>&gt;</featuretype>
	Representation of the relationship between a Service Provider organisation and an organisation to which those services are



	provided (e.g. a provider of data transformation services being related to an Asset Owner organisation whose data it transforms).
linkedOrganisationID	linkedOrganisationID:
	Mandatory
	The systemID of the <b><organisation></organisation></b> record for the Organisation on whose behalf the service is being provided.
linkedServiceProviderOrganis	linkedServiceProviderOrganisationID:
ationID	Mandatory
	The systemID of the <b><organisation></organisation></b> record for the Service Provider organisation.
serviceType	serviceType:
	Optional
	The type of service provided by the Service Provider to the Organisation.
	The values for this attribute are defined in the <pre><serviceprovidertypevalue></serviceprovidertypevalue></pre> codelist.
Feature Type	Description
Relationship_ObjectToEnclosi	Relationship_ObjectToEnclosingObject
ngObject	< <featuretype>&gt;</featuretype>
	Table of relationships between objects which respectively enclose and are enclosed by each other.
linkedEnclosedObjectID	linkedEnclosedObjectID:
	Mandatory
	The dataProviderAssignedUniqueID of the object which is enclosed.
linkedEnclosedObjectTable	linkedEnclosedObjectTable:
	Mandatory



	The name of the FeatureType (or table in a physical implementation) containing the enclosed object.
linkedEnclosingObjectID	linkedEnclosingObjectID:
	Mandatory
	The dataProviderAssignedUniqueID of the object which is enclosing another object.
linkedEnclosingObjectTable	linkedEnclosingObjectTable:
	Mandatory
	The name of the FeatureType (or table in a physical implementation) containing the enclosing object.
Feature Type	Description
Observation	Observation:
	< <featuretype>&gt;</featuretype>
	An Observation recorded by a user related to the data, or more generally to the location at which they are located
dateOfLastVisibilityScopeCha	dateOfLastVisibilityScopeChange:
nge	Optional
	The date upon which the visibility scope of the Observation was last changed
estimatedBackfillDate	estimatedBackfillDate:
	Optional
	If available, an estimate of the date upon which any excavation exposing assets to which the Observation relates will be backfilled
expiryDate	expiryDate:
	Optional
	A date beyond which the observation should no longer be displayed. E.g. for reporting temporary conditions.



impactOnWorks	impactOnWorks:
	Optional
	An indication of the impact of the conditions observed upon the works being undertaken.
	The values for this attribute are defined in the <pre><observationimpactvalue></observationimpactvalue></pre> codelist.
notes	notes:
	Optional
	Any additional notes or commentary pertaining to the Observation. May include links to external files and resources as required.
observationCategory	observationCategory:
	Optional
	The category to which the Observation belongs.
	The values for this attribute are defined in the <pre><observationcategoryvalue></observationcategoryvalue></pre> codelist.
onBehalfOfOrganisationID	originatingOrganisationID:
	Mandatory
	The systemID in <b>Organisation&gt;</b> of the organisation the raising user is acting on behalf of. For non-supply chain organisations this will be the same as <b>originatingOrganisationID</b> .
originatingOrganisationID	originatingOrganisationID:
	Mandatory  The systemID in <b>Organisation&gt;</b> of the organisation the raising user is directly associated with.
originatingOrganisationName	originatingOrganisationName:
	Optional
	The name of the organisation the raising user is directly associated with.
potentialSensitivity	potentialSensitivity:



	Mandatory
	Default=FALSE
scopeOfSharing	scopeOfSharing:
	Mandatory
	Defines the extent to which an Observation is shared (visible) across the user base and organisation hierarchies.
	The values for this attribute are defined in the <pre><observationsharingscopeprimaryvalue></observationsharingscopeprimaryvalue></pre> codelist.
status	status:
	Optional
	The current status of the Observation.
	The values for this attribute are defined in the <pre><observationstatusvalue></observationstatusvalue></pre> codelist.
title	title:
	Optional
	The Title of the Observation.
userID	userID:
	Mandatory
	The identifier of the user that created the Observation.
userReference	userReference:
	Optional
	A reference for the Observation, e.g. a scheme or job name.
visibilityStatus	visibilityStatus:
	Mandatory
	Defines the overall state of visibility of the Observation, independently of the sharing scope.
	The values for this attribute are defined in the



	<observationvisibilitystatusvalue> codelist.</observationvisibilitystatusvalue>
Feature Type	Description
ObservationFeedback	ObservationFeedback:
	< <featuretype>&gt;</featuretype>
	Feedback provided by users on the nature or usefulness of an Observation.
feedbackPercentage	feedbackPercentage:
	Mandatory
	An indication of the usefulness of the Observation as a percentage.
feedbackRating	feedbackrating:
	Optional
	A general rating for the Observation.
	The values for this attribute are defined in the <pre><observationfeedbackratingvalue></observationfeedbackratingvalue></pre> codelist.
feedbackUserID	feedbackUserID:
	Mandatory
	The User ID of the user leaving the feedback.
notes	notes:
	Mandatory
	Free text feedback on the Observation.
observationID	observationID:
	Mandatory
	The system ID of the Observation for which feedback is being provided.
observationReported	observationReported:



	Mandatory
	Default=FALSE
	An indication as to whether the Observation has been reported for inappropriate content.
Feature Type	Description
ObservationOrganisationVisib	ObservationFeedback:
ilityScope	< <featuretype>&gt;</featuretype>
	Representation of the Visibility Scope of an Observation for a specified Organisation.
observationID	observationID:
	Mandatory
	The system ID of the <b><observation></observation></b> record whose visibility scope is being specified for the Organisation.
potentialSensitivity	potentialSensitivity:
	Mandatory
	Default=FALSE
scopeOfSharing	scopeOfSharing:
	Mandatory
	Defines the extent to which an Observation is shared (visible) for the Organisation in question.
	The values for this attribute are defined in the <pre><observationsharingscopesecondaryvalue></observationsharingscopesecondaryvalue></pre> codelist.
Feature Type	Description
WronglyRecordedObject	WronglyRecordedObject:
	< <featuretype>&gt;</featuretype>
	From PAS256:2017:
	"[An] object recorded in the plans supplied by the asset owner



	that does not match the location or description of the asset.
	NOTE WROs could be, for example, pipes or cables for which the depth, location or materials differ from the information provided in the supplied plans."
Feature Type	Description
UnidentifiedBuriedObject	UnidentifiedBuriedObject:
	< <featuretype>&gt;</featuretype>
	From PAS256:2017:
	"[A] buried asset at a given location, which is not recorded on any plans supplied by undertaker, local highway or roads authority or any other asset owner".
	A discovered object whose function, nature and/or ownership is unknown at the time of discovery.
colourDescription	colourDescription:
	Optional
	A description of the colour of, and any markings on, the object
componentTypeDescription	componentTypeDescription:
	Optional
	A description of the discovered object.
estimatedDepth	estimatedDepth:
	Optional
	An estimate of the depth below the surface of the discovered object in <b>unitOfMeasure</b> .
estimatedUtilityType	estimatedUtilityType:
	Optional
	An estimate of the utility type of the discovered object if applicable.
	The values for this attribute are defined in the



	<ul><li><utilitytypevalue> codelist.</utilitytypevalue></li></ul>
materialDescription	materialDescription:
	Optional
	A description of the material of which the discovered object is primarily constructed.
Feature Type	Description
Structure	Structure:
	< <featuretype>&gt;</featuretype>
	Representation of a structure that has a role in a utility network.
container	container:
	Optional
	The dataProviderAssignedUniqueID of any container object that directly encloses this Network Asset
dateOfInstallation	dateOfInstallation:
	Optional
	The date upon which the asset was installed, as specified by the Data Provider
insideHeight	insideHeight:
	Optional
	For circular shaped segments, not applicable.
	For non-circular shaped segments, the maximum inside height of the cross-sectional shape.
	For features other than segments, the maximum inside height of the feature.
	Units are always defined by unitOfMeasure.
insideLength	insideLength:



	Optional
	For segments, not applicable.
	For features other than segments, the maximum inside length of the feature (measured in the horizontal plane, perpendicular to the width).
	Units are always defined by <b>unitOfMeasure</b> .
inside Width	insideWidth:
	Optional
	For circular shaped segments, if the Data Provider supplies a single diameter value, this value should be stored in <b>insideWidth</b> . If an inside and outside diameter are supplied, this attribute should represent the inside diameter.
	For non-circular shaped segments, the maximum inside width of the cross-sectional shape.
	For features other than segments, the maximum inside width of the feature.
	Units are always defined by unitOfMeasure.
isEncased	isEncased:
	Optional
	Indicator of the presence of encasement to insulate or protect the asset.
	Where the conveyance asset is contained within a "carrier" asset (e.g. as a result of replacement of metal with plastic pipes), and there is a requirement to represent the diameter of the carrier asset (see <b>outsideDiameter</b> below) this may be set to "True".
outsideHeight	outsideHeight:
	Optional
	For circular shaped segments, not applicable.
	For non-circular shaped segments, the maximum outside height of the cross-sectional shape.
	For features other than segments, the maximum outside



	height of the feature.
	Units are always defined by unitOfMeasure.
outsideLength	outsideLength:
	Optional
	For segments, not applicable.
	For features other than segments, the maximum outside length of the feature (measured in the horizontal plane, perpendicular to the width).
	Units are always defined by unitOfMeasure.
outsideWidth	outsideWidth:
	Optional
	For circular shaped segments, if the Data Provider supplies an explicit outside diameter value, this value should be stored in <b>outsideWidth</b> . If a single diameter value is supplied, <b>insidewidth</b> should be used (see above).
	Where the conveyance asset is contained within a "carrier" asset (e.g. as a result of replacement of metal with plastic pipes), and there is a requirement to represent the diameter of the carrier asset, <b>outsideDiameter</b> should represent the supplied diameter of the carrier asset and <b>isEncased</b> be set to "True".
	For non-circular shaped segments, the maximum outside width of the cross-sectional shape.
	For features other than segments, the maximum outside width of the feature.
	Units are always defined by <b>unitOfMeasure</b> .
Feature Type	Description
NonUtilityObject	NonUtilityObject:
	< <featuretype>&gt;</featuretype>
	An underground object which is not part of a utility network, but which may have an impact on planning or excavation



	activities.
type	type:
	Optional
	The type of the non-utility object.
	The values for this attribute are defined in the <pre><nonutilityobjecttypevalue></nonutilityobjecttypevalue></pre> codelist.
subType	subType:
	Optional
	A free-text equivalent of the <b>type</b> attribute value which may be useful to reflect a source data value which is not precisely represented in the <b><nonutilityobjecttypevalue></nonutilityobjecttypevalue></b> codelist.
Feature Type	Description
LinkedFile	LinkedFile:
	< <featuretype>&gt;</featuretype>
	Representation of a file linked to another entity in the database.
	Features contain links to files held externally to the database (although possibly within the environment more broadly).
checksum	checksum:
	Optional
	Checksum for the file to allow data integrity to be maintained across environments.
fullPath	fullPath:
	Optional
	The URI of the file, qualified sufficiently to allow it to be accessed.
	For external resources, a full path will be required.
	For internal resources a partial path may be sufficient, with further qualification provided in platform configuration (for



	example).
lastScanDate	lastScanDate: Optional The date and time at which the last malware scan was carried out on the file associated with the record.
mimeType	mimeType:  Optional  The type of the file according to the MIME standard used for various communication protocols (e.g. "application/pdf")
name	name: Optional A name for the file which may be displayed to users.
scanStatus	scanStatus:  Mandatory  Default='Pending'  The current status of the file associated with the record with regards to malware scanning.  Values for this attribute are defined in the <filescanstatusvalue> codelist.</filescanstatusvalue>
typeDescription	typeDescription: Optional A meaningful description of the file type (e.g. "PDF")
Guidance	Guidance:  < <featuretype>&gt;  A representation of a guidance or process document, which may have a file associated with it.</featuretype>



name	name:
	Optional
	A name for the guidance which may be displayed to users.
Feature Type	Description
VariableObjectValue	VariableObjectValue:
	< <featuretype>&gt;</featuretype>
	A means of specifying a point or segment on a linear feature for which a distinct value may be specified
dateOfCapture	dateOfCapture:
	Optional
	Date upon which the value was observed or captured
fromMeasure	fromMeasure:
	Optional
	A value specifying a point on the related linear feature in terms of a measure from the start of that feature.
	If this feature represents a segment, this value represents the "from" point of the segment.
	If this feature represents a point, this value represents that point.
toMeasure	toMeasure:
	Optional
	A value specifying a point on the related linear feature in terms of a measure from the start of that feature.
	If this feature represents a segment, this value represents the "to" point of the segment.
	If this feature represents a point, this value should be NULL.
Feature Type	Description



Depth	Depth:
	< <featuretype>&gt;</featuretype>
	An indication of the depth and the method of measuring it for a point or segment of a linear feature.
depth	depth:
	Optional
	Numerical value in <b>measurementUnits</b> of the depth from grade at time of survey to the top of the associated linear feature as measured for this point or segment.
depthMethod	depthMethod:
	Optional
	The method by which the value for depth was determined for this point or segment.
	Values for this attribute are defined in the <pre><depthmethodvalue></depthmethodvalue></pre> codelist
Feature Type	Description
HorizontalMeasurementMet	Description  HorizontalMeasurementMethod:
HorizontalMeasurementMet	Horizontal Measurement Method:
HorizontalMeasurementMet hod horizontalMeasurementMeth	HorizontalMeasurementMethod:  < <featuretype>&gt;  An indication of the method of measuring the horizontal</featuretype>
HorizontalMeasurementMet hod	HorizontalMeasurementMethod:  < <featuretype>&gt;  An indication of the method of measuring the horizontal position of a point or segment of a linear feature.</featuretype>
HorizontalMeasurementMet hod horizontalMeasurementMeth	HorizontalMeasurementMethod: <featuretype>&gt;  An indication of the method of measuring the horizontal position of a point or segment of a linear feature.  horizontalMeasurementMethod:</featuretype>
HorizontalMeasurementMet hod horizontalMeasurementMeth	HorizontalMeasurementMethod:  < <featuretype>&gt; An indication of the method of measuring the horizontal position of a point or segment of a linear feature.  horizontalMeasurementMethod: Optional The method by which the horizontal position of the point or</featuretype>
HorizontalMeasurementMet hod horizontalMeasurementMeth	HorizontalMeasurementMethod: <featuretype>&gt;  An indication of the method of measuring the horizontal position of a point or segment of a linear feature.  horizontalMeasurementMethod:  Optional  The method by which the horizontal position of the point or segment was captured.  Values for this attribute are defined in the</featuretype>



	< <featuretype>&gt;</featuretype>
	An indication of the Quality Level recorded for a point or segment of a linear feature.
qualityLevel	qualityLevel:
	Optional
	Quality level recorded for the point or segment in accordance with PAS128:2022. This field should only be populated if the dateOfCapture attribute is populated with the date of a PAS128-compliant utility survey, and qualityLevel should reflect the Quality Level assigned to the point or segment during that survey.
	Values for this attribute are defined in the <qualitylevelvalue> codelist.</qualitylevelvalue>
Feature Type	Description
DepthType	DepthType:
	< <datatype>&gt;</datatype>
	A complex type for representing Depth
depth	depth:
	Optional
	The depth value
unitOfMeasure	unitOfMeasure:
	Optional
	The unit of measure for the <b>depth</b> value.
	Values for this attribute are defined in the < MeasurementUnitsValue > codelist.
Feature Type	Description
HeightType	HeightType:
	< <datatype>&gt;</datatype>



	A complex type for representing Height
height	height:
	Optional
	The height value
unitOfMeasure	unitOfMeasure:
	Optional
	The unit of measure for the <b>height</b> value.
	Values for this attribute are defined in the <measurementunitsvalue> codelist.</measurementunitsvalue>
Feature Type	Description
LengthType	LengthType:
	< <datatype>&gt;</datatype>
	A complex type for representing Length
length	length:
	Optional
	The length value
unitOfMeasure	unitOfMeasure:
	Optional
	The unit of measure for the <b>length</b> value.
	Values for this attribute are defined in the < MeasurementUnitsValue > codelist.
Feature Type	Description
TimePeriodType	TimePeriodType:
	< <datatype>&gt;</datatype>
	A complex type for representing a Time Period



period	period:
	Optional
	The time period value
unitOfTime	unitOfTime:
	Optional
	The unit of time for the <b>period</b> value.
	Values for this attribute are defined in the <b><unitoftimevalue></unitoftimevalue></b> codelist.
Feature Type	Description
WidthType	WidthType:
	< <datatype>&gt;</datatype>
	A complex type for representing Width
width	width:
	Optional
	The width value
unitOfMeasure	unitOfMeasure:
	Optional
	The unit of measure for the <b>width</b> value.
	Values for this attribute are defined in the < MeasurementUnitsValue > codelist.
Feature Type	Description
ElectricityNetworkLink	ElectricityNetworkLink:
	< <featuretype>&gt;</featuretype>
	Type of Network Node that conveys electrical power
operatingVoltage	operatingVoltage:



	Optional Standard voltage measure conveyed by this electrical utility
Feature Type	Description Description
ElectricityNetworkNode	ElectricityNetworkNode:  < <featuretype>&gt;  Type of Network Node that conveys electrical power</featuretype>
operatingVoltage	operatingVoltage: Optional Standard voltage measure conveyed by this electrical utility asset
Feature Type	Description
FuelAndChemicalsNetworkLi nk	FuelAndChemicalsNetworkLink:  < <featuretype>&gt;  Pipeline network link for the conveyance of fuel or chemicals.</featuretype>
mahp	mahp: Optional Is this asset classified as a Major Accident Hazard Pipeline?
materialGrade	materialGrade: Optional What is the material grade for this asset? Values for this attribute are defined in the <materialgradevalue> codelist.</materialgradevalue>
slabbing	slabbing: Optional



tape	tape: Optional
	Is tape present above this asset?
Feature Type	Description
GasNetworkLink	GasNetworkLink:
	< <featuretype>&gt;</featuretype>
	Gas network link that may consist of a liner "conveying" pipe running within an older, now "carrier" pipe. The network asset dimensions pertain to whichever pipe directly conveys gas.
mahp	mahp:
	Optional
	Is this asset classified as a Major Accident Hazard Pipeline?
materialGrade	materialGrade:
	Optional
	What is the material grade for this asset?
	Values for this attribute are defined in the <pre><materialgradevalue></materialgradevalue></pre> codelist.
slabbing	slabbing:
	Optional
	Is this asset protected by slabbing?
tape	tape:
	Optional
	Is tape present above this asset?
Feature Type	Description
SewerNetworkLink	SewerNetworkLink:
	< <featuretype>&gt;</featuretype>



Sewer network links conveying sewage between nodes.
backdrop:
Optional
Indicates whether the start of the pipe is lower than the end.
endingDepthType:
Optional
Indicates whether the ending pipe depth refers to the invert rather than the top-of-asset depth.
startingDepthType:
Optional
Indicates whether the starting pipe depth refers to the invert rather than the top-of-asset depth.
Description
GeneralPlanningArea:
< <featuretype>&gt;</featuretype>
Defined area with characteristics relevant to excavation
planning
planning
Description Description
Description SiteOfPreviousIndustrialUse:
Description  SiteOfPreviousIndustrialUse:  < <featuretype>&gt; Planning Area with a history and possible artefacts or effects of</featuretype>
Description  SiteOfPreviousIndustrialUse: <featuretype>&gt; Planning Area with a history and possible artefacts or effects of industrial use</featuretype>
Description  SiteOfPreviousIndustrialUse:  < <featuretype>&gt; Planning Area with a history and possible artefacts or effects of industrial use  endDate:</featuretype>



	Optional
	Description of the previous use of the site
	Description of the previous use of the site
Feature Type	Description
ArchaeologicalSite	Archaeological Site:
	< <featuretype>&gt;</featuretype>
	Planning Area with defined archaeological value or sensitivity
grade	grade:
	Optional
	Tier number of Archaeological Priority Areas
Feature Type	Description
ConservationArea	ConservationArea:
	< <featuretype>&gt;</featuretype>
	Planning Area with a designated conservation purpose and sensitivity
designationPurpose	designationPurpose:
	Optional
	Purpose of the designation.
	Values for this attribute are defined in the
	<designationpurposevalue> codelist</designationpurposevalue>
Feature Type	Description
TreeLocation	TreeLocation:
	< <featuretype>&gt;</featuretype>
	Planning Area designated to indicate the presence of a tree that would be of interest for the planning of excavation works.
species	species:



Optional
The species of the tree.
treePreservationOrder:
Mandatory
Default=TRUE
A flag indicating whether this feature represents a Tree Preservation Order.
Description
RestrictedPlanningArea:
< <featuretype>&gt;</featuretype>
Representation of an area of zone within which various levels of restriction may be applied to proposed works for reasons of security, disruption etc.
Description
BackdropObject:
< <featuretype>&gt;</featuretype>
Parent Feature Type for all tables in the <b><custombackdrop></custombackdrop></b> schema.
description:
Optional
Description of the feature.
name:
Optional
Name of the feature.
Description
BackdropArea:



	< <featuretype>&gt; Representation of area (polygon) custom backdrop features.</featuretype>
Feature Type	Description
BackdropLine	BackdropLine: <featuretype>&gt;  Representation of line custom backdrop features.</featuretype>
Feature Type	Description
BackdropPoint	BackdropPoint:  < <featuretype>&gt;  Representation of point custom backdrop features.</featuretype>
Feature Type	Description
BackdropText	BackdropText:  < <featuretype>&gt;  Representation of text/annotation custom backdrop features.</featuretype>
orientation	orientation:  Mandatory  Default=0  The rotation angle for the display of the text.
orientationMeasurementUnit s	orientationMeasurementUnits:  Mandatory  Default='Degrees'  The unit of measure for the value in the orientation attribute.  Values for this attribute are defined in the <measurementunitsvalue> codelist (typically Degrees or Radians).</measurementunitsvalue>



orientationType	orientationType:
	Optional
	Default = 'Geographic'
	Defines the correct interpretation of the angle specified in <b>orientation</b> .
	<b>Geographic</b> means that the angle is the rotation from north in a clockwise direction.
	Arithmetic means that the angle is the rotation from east in a counter-clockwise direction.
	Values for this attribute are defined in the <pre><orientationtypevalue></orientationtypevalue></pre> codelist (Arithmetic or Geographic).
textString	textString:
	Mandatory
	The text to be displayed.
Feature Type	Description
BackdropRaster	BackdropRaster:
	< <featuretype>&gt;</featuretype>
	Representation of raster custom backdrop features.
extent	extent:
	Mandatory
	The real-world extent of the raster.
fullPath	fullPath:
	Mandatory
	The full path to the raster file.
mimeType	mimeType:
	Mandatory
	The MIME Type of the raster file.



Feature Type	Description
DataModelVersion	DataModelVersion:
	< <featuretype>&gt;</featuretype>
	Version information about the overall Data Model.
versionDate	versionDate:
	Mandatory
	The date of the Data Model version.
versionNumber	versionNumber:
	Mandatory
	The version number of the Data Model version.
Feature Type	Description
SchemaVersion	SchemaVersion:
	< <featuretype>&gt;</featuretype>
	Version information about a specific schema in the Data Model.
schemaName	schemaName:
	Mandatory
	The name of the schema in the Data Model.
versionDate	versionDate:
	Mandatory
	The date of the schema version.
versionNumber	versionNumber:
	Mandatory
	The version number of the schema version.



Feature Type	Description
DataModelSchemaVersions	DataModelSchemaVersions:
	< <featuretype>&gt;</featuretype>
	Relationship between individual schema versions and the version of the overall Data Model.
dataModelVersion	dataModelVersion:
	Mandatory
	The version number of the overall Data Model version.
schemaName	schemaName:
	Mandatory
	The name of the schema in the Data Model.
schemaVersion	schemaVersion:
	Mandatory
	The version number of the schema version.
Feature Type	Description
DataModelChangelog	DataModelChangelog:
	< <featuretype>&gt;</featuretype>
	A record of changes that are part of the specified Data Model version
changeDescription	changeDescription:
	Mandatory
	A textual description of a change which has contributed to this version of the Data Model.
proposalReference	proposalReference:
	Mandatory
	The reference of the Data Model Proposal which describes the



	change.
schemaName	schemaName:
	Mandatory
	The name of the schema in the Data Model to which the change applies.
schemaVersion	schemaVersion:
	Mandatory
	The version of the schema in the Data Model to which the change applies.
versionNumber	versionNumber:
	Mandatory
	The version number of the Data Model version.
Feature Type	Description
DataModelMigrationHistory	DataModelMigrationHistory:
	< <featuretype>&gt;</featuretype>
	A record of migrations of a given encoding of the Data Model from one version to another.
appliedBy	appliedBy:
	Optional
	Name of the person who performed the migration.
dateOfMigration	dateOfMigration:
	Mandatory
	The date and time at which the migration was completed.
from Version Number	fromVersionNumber:
	Mandatory
	The version number of the Data Model which was migrated



	from.
toVersionNumber	toVersionNumber:
	Mandatory
	The version number of the Data Model which was migrated to.