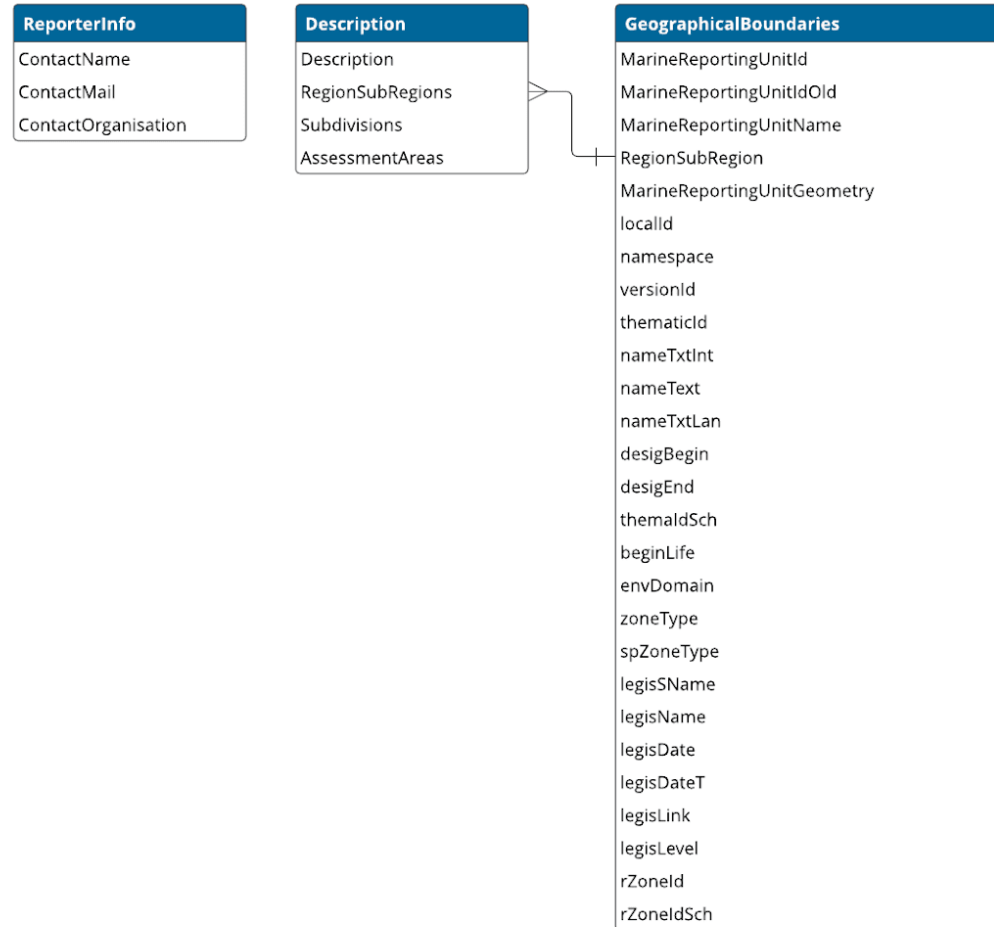


## MSFD Article 4 dataflow – MRUs data schema

Figure: Diagram of the schema 'MRU'.



Based on the schema, the table below provides the details of the schema fields. Note that table (schema class) “Description” is only mandatory for MRUs without geometry reported in table “GeographicalBoundaries”. If MRUs geometry has been reported there is no need to fill in table “Description”.

Table 1. Fields of the schema ‘MRU’.

Schema class	Schema field	Description	Property	Guidance
ReporterInfo	ContactName	Name of the reporter	Optional	Free text (max. 100 characters).
ReporterInfo	ContactMail	Email of the reporter or functional email of the organisation	Required	Email address (max. 100 characters).
ReporterInfo	ContactOrganisation	Name of the reporter’s organisation and address	Required	Free text (max. 500 characters).
Description	Description	Description of the MRU	Required (if no geometry has been reported)	Text (max. of 4000 characters)
Description	RegionSubRegions	MSFD region or subregion in which the MRU is placed	Required (if no geometry has been reported)	Text (max. of 4000 characters)
Description	Subdivisions	Subdivision(s) of the region or subregion in which the MRU is placed	Required (if no geometry has been reported)	Text (max. of 4000 characters)
Description	AssessmentAreas	Name of the assessment area / MRU	Required (if no geometry has been reported)	Text (max. of 4000 characters)
GeographicalBoundaries	RegionSubregion	MSFD region or subregion in which the MRU is placed	Required	Select one from List ‘RegionSubregion’. For North-East Atlantic Ocean and Mediterranean Sea regions, enter the information at subregion level only.

Schema class	Schema field	Description	Property	Guidance
GeographicalBoundaries	MarineReportingUnitId	Unique code for the Marine Reporting Unit	Required	<p>Unique EU code for the marine reporting area.</p> <p>To be constructed as follows:            Region/subregion code-MS ISO code-AreaTypecode-Sequential number or alphanumeric            Eg., ANS-NL-AA-001; MWE-ES-SD-Alboran</p> <p>Note – AreaTypecode (two-character code) select one from following: RG (Region); SR (Subregion); MS (MS part of a Region or Subregion); SD (Subdivision); AA (Assessment Area).</p> <p>For country code use ISO 3166-1 alpha-2 country code, except for Greece ('EL').</p> <p>Each MRU must sit within a region/subregion and not extend beyond its boundary.</p> <p>Each MRU must:</p> <ol style="list-style-type: none"> <li>either equate to the Member State marine waters' part of a marine region/subregion or sit within the borders of the Member State's marine waters</li> <li>not extend beyond the border of the marine waters or the boundary of the marine region/subregion</li> </ol>
GeographicalBoundaries	MarineReportingUnitIdOld	Previous code(s) for the Marine Reporting Unit	Optional	Enter the old (2018) MRU code(s) corresponding to the single 2024 code given in field 'MarineReportingUnitId'.
GeographicalBoundaries	MarineReportingUnitName	Name of the Marine Reporting Unit	Required	Free text (max. 4000 characters)
GeographicalBoundaries	MarineReportingUnitGeometry	Spatial data that delimitates the MRU	Required	Spatial data that delimitates the MRU
GeographicalBoundaries	localId	INSPIRE metadata field A local identifier, assigned by the data provider.	Optional	<p>Maximum of 4000 characters</p> <p>The local identifier is unique within the namespace, that is no other spatial object carries the same unique identifier.</p> <p>It is recommended that Data Providers reporting under MSFD use a localId value identical to the thematicIdIdentifier value.</p>
GeographicalBoundaries	namespace	INSPIRE metadata field Namespace uniquely identifying the data source of the spatial object.	Optional	<p>Maximum of 4000 characters</p> <p>Data Providers must report the namespace of the data source of the spatial object, if an INSPIRE data set was used for reporting.</p>

Schema class	Schema field	Description	Property	Guidance
				For Data Providers in countries not implementing the INSPIRE Directive, the country code (ISO 3166-1 alpha-2) can be used as placeholder.
GeographicalBoundaries	versionId	INSPIRE metadata field The identifier of the particular version of the spatial object. If the specification of a spatial object type with an external object identifier includes life-cycle information, the version identifier is used to distinguish between the different versions of a spatial object.	Optional	Maximum of 4000 characters This element is reported when changes to the object are applied (e.g. minor changes in the geometry, or corrections/updates to other information that does not change the identity of the object itself).
GeographicalBoundaries	thematicId	INSPIRE metadata field Unique identifier used to identify the spatial object within the specified identification scheme.	Optional	Maximum of 4000 characters
GeographicalBoundaries	nameTxtInt	INSPIRE metadata field Name, in English. English exonym, or understandable English version of the name of the geographical feature or spatial object.	Optional	Maximum of 4000 characters English exonym or an understandable English version of the MRU name. The nameTextInternationalvalue can only contain letters of the basic Latin character set (A-Z), digits (0-9) spaces or hyphens. Diacritics, special characters, accents, etc., are not allowed. Note: If an English version does not exist, report a transliteration of the national name to the ISO basic Latin alphabet (which uses the same 26 letters that comprise the English alphabet).
GeographicalBoundaries	nameText	INSPIRE metadata field Name, in the national language. National language endonym, or national language version of the name of the geographical feature or spatial object.	Optional	Maximum of 4000 characters Name of the MRU in a national language.
GeographicalBoundaries	nameTxtLan	INSPIRE metadata field	Optional	Maximum of 4000 characters Use the ISO 639-2/B code of the national language used for the object's geographical name.

Schema class	Schema field	Description	Property	Guidance
		Language code of the language used in the nameText attribute value.		Note: ISO 639-3 is a code that aims to define three-letter identifiers for all known human languages. See <a href="http://dd.eionet.europa.eu/vocabulary/common/iso639-3/">http://dd.eionet.europa.eu/vocabulary/common/iso639-3/</a>
GeographicalBoundaries	desigBegin	INSPIRE metadata field Beginning of the time period defining when the MRU was legally designated or became effective in the real world.	Optional	Date (YYYY-MM-DD)
GeographicalBoundaries	desigEnd	INSPIRE metadata field End of the time period defining when the MRU stopped being valid in the real world	Optional	If a given MRU is no longer designated for reporting purposes, please provide the date when it ceased to be in use (because it was deprecated or replaced by a different reporting unit). This value is required, if the end of the validity period is known or has already occurred. Date (YYYY-MM-DD)
GeographicalBoundaries	themaldSch	INSPIRE metadata field Identifier defining the scheme used to assign the identifier.	Optional	For MSFD, the value of the thematicIdIdentifierScheme element is always 'euMarineReportingUnitCode'.
GeographicalBoundaries	beginLife	INSPIRE metadata field Date and time at which this version of the spatial object was inserted or changed in the spatial data set.	Optional	Data Providers should report this information, if available. The beginLifespanVersion value must be reported if the endLifespanVersion value is reported. Date(YYYY-MM-DD)
GeographicalBoundaries	envDomain	INSPIRE metadata field (environmental domain)	Optional	Maximum of 4000 characters
GeographicalBoundaries	zoneType	INSPIRE metadata field High-level classification defining the type of Management, Restriction or Regulation Zone.	Optional	For MSFD (art.4), the value of the zoneType element is always 'marineRegion'.
GeographicalBoundaries	spZoneType	INSPIRE metadata field Additional classification value which further specialises the	Optional	For MSFD (art.4), the value of the specialisedZoneType element is one of the following: 'marineSubdivision', 'fishingArea', 'marineSubregion'.

Schema class	Schema field	Description	Property	Guidance
		type of management, regulation or restriction zone relevant to the domain.		
GeographicalBoundaries	legisSName	INSPIRE metadata field Short legislation name.	Optional	For example: 'MSFD', 'OSPAR', 'HELCOM', 'ICES'.
GeographicalBoundaries	legisName	INSPIRE metadata field Name of the legal document.	Optional	<p>Maximum of 4000 characters</p> <p>For legal documents, this should be the official name assigned to the legislative instrument. For MRU, the value of the legalBasisName element is one of the following:</p> <ul style="list-style-type: none"> <li>• 'Directive 2008/56/EC of the European Parliament and of the Council of 17 June 2008 establishing a framework for community action in the field of marine environmental policy (Marine Strategy Framework Directive)'</li> <li>• 'Convention for The International Council for the Exploration of the Sea',</li> <li>• 'Convention for the Protection of the marine environment of the North-East Atlantic',</li> <li>• 'Convention on the Protection of the Marine Environment of the Baltic Sea Area, 1992'.</li> </ul>
GeographicalBoundaries	legisDate	INSPIRE metadata field	Optional	<p>Date (YYYY-MM-DD)</p> <p>For example:</p> <ul style="list-style-type: none"> <li>• 1964-09-12 (for ICES MRUs)</li> <li>• 1994-03-16 (for HELCOM MRUs)</li> <li>• 1998-04-03 (to OSPAR MRUs)</li> <li>• 2008-06-25 (to MSFD MRUs)</li> </ul>
GeographicalBoundaries	legisDateT	INSPIRE metadata field	Optional	<p>Maximum of 4000 characters</p> <p>For example: 'publication' or 'not reported'.</p>
GeographicalBoundaries	legisLink	INSPIRE metadata field Link to the legal basis.	Optional	<p>Maximum of 4000 characters</p> <p>Link to an online version of the legal document. For MRU, the value of the legalBasisName element is, for example:</p> <ul style="list-style-type: none"> <li>• <a href="http://data.europa.eu/eli/dir/2008/56/oj">http://data.europa.eu/eli/dir/2008/56/oj</a> (MSFD)</li> <li>• <a href="http://ices.dk/explore-us/who-we-are/Documents/ICES_Convention_1964.pdf">http://ices.dk/explore-us/who-we-are/Documents/ICES_Convention_1964.pdf</a> (ICES)</li> </ul>

Schema class	Schema field	Description	Property	Guidance
				<ul style="list-style-type: none"> <li>• <a href="http://data.europa.eu/eli/convention/1998/249/oj">http://data.europa.eu/eli/convention/1998/249/oj</a> (OSPAR)</li> <li>• <a href="http://data.europa.eu/eli/convention/1994/157/oj">http://data.europa.eu/eli/convention/1994/157/oj</a> (HELCOM)</li> </ul>
GeographicalBoundaries	legisLevel	INSPIRE metadata field The level at which a legal act or convention has been adopted.	Optional	For MRUs reported under MSFD use code 'european'. For MRUs reported under OSPAR, HELCOM or ICES, use code 'international'.
GeographicalBoundaries	rZoneld	INSPIRE metadata field Reference to a related management zone.	Optional	<p>For MRUs, the relatedZoneldentifier (rZoneld) should contain the identifier of the marine subregion/region where the MRU water is located. Following codes are applicable:</p> <ul style="list-style-type: none"> <li>• 'ABI' (for Bay of Biscay and the Iberian Coast)</li> <li>• 'ACS' (for Celtic Seas)</li> <li>• 'AMA' (for Macaronesia)</li> <li>• 'ANS' (for Greater North Sea, incl. the Kattegat and the English Channel)</li> <li>• 'BAL' (for Baltic Sea)</li> <li>• 'BLK' (for Black Sea)</li> <li>• 'MAD' (for Adriatic Sea)</li> <li>• 'MAL' (for Aegean-Levantine Sea)</li> <li>• 'MIC' (for Ionian Sea and the Central Mediterranean Sea)</li> <li>• 'MWE' ( for Western Mediterranean Sea)</li> </ul>
GeographicalBoundaries	rZoneldSch	INSPIRE metadata field Identifier defining the scheme used to assign the identifier value in the relatedZoneldentifier (rZoneld) element.	Optional	For MSFD (art.4), the value of the zoneType element is always 'euMarineRegionCode'.