

Maritime Limits and Boundaries Product Specification

Annex A: Data Classification and Encoding Guide

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4b quai Antoine 1^{er}
Principauté de Monaco
Tel: (377) 93.10.81.00
Fax: (377) 93.10.81.40
info@ihoin.org
www.ihoin.org

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Document Control

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Introduction

This document has been developed to provide consistent, standardized instructions for encoding S-121 data.

The conceptual model defines four generic feature types Location, Limit, Zone, or a Space. From these generic S-121 feature types any S-121 feature may be defined. This provides great flexibility, and allows any required feature to be developed by specializing the generic features.

When used in a data set an feature may be represented using a geometry type (Point, Curve/Line, Surface/Area). For a “Space” feature the geometric representation may be as a Surface/Area with an elevation attribute.

1 Overview

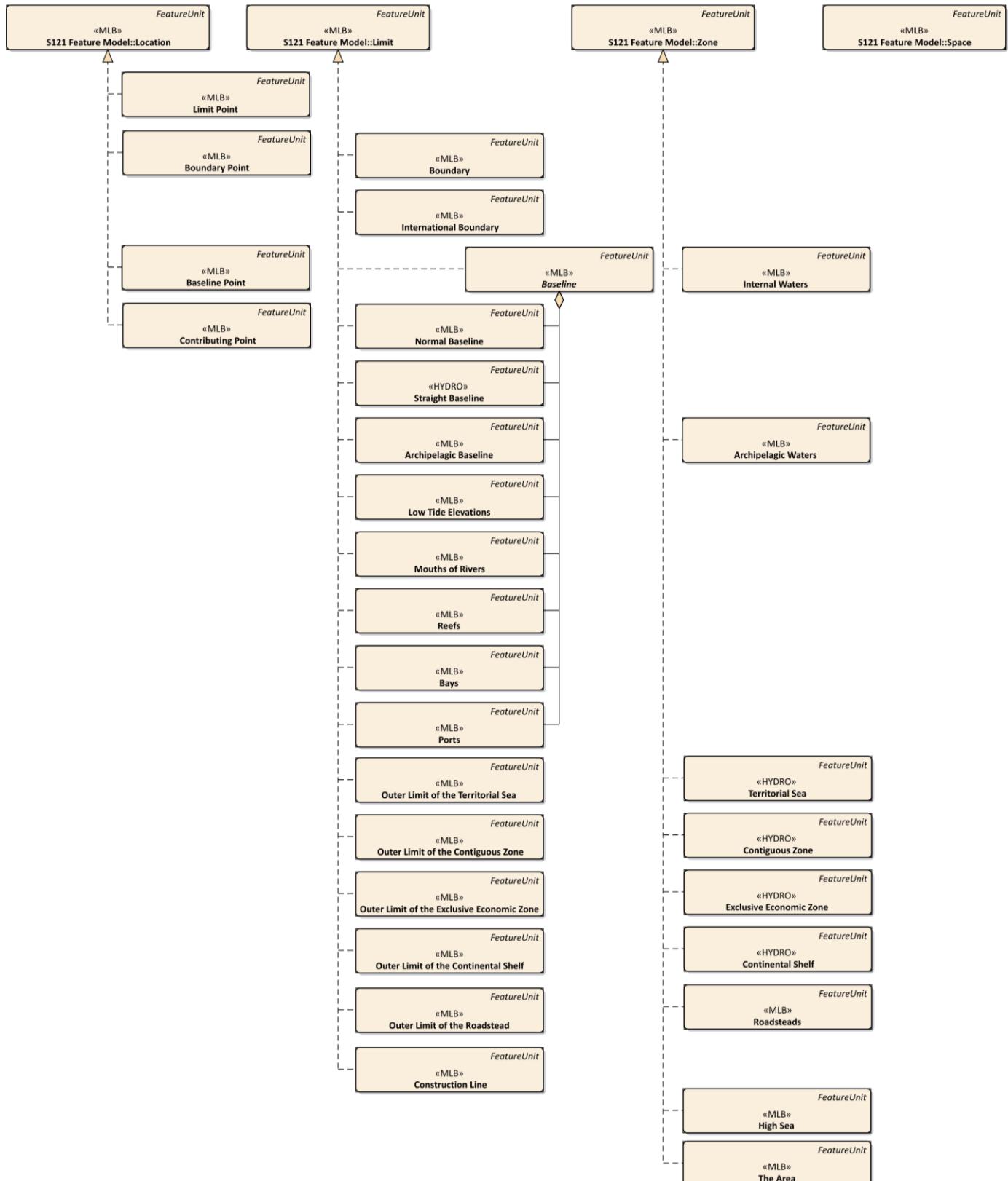
This document is part of the Product Specification for S-121. It is a description of all the features, attributes, enumerations and enumeration values that may be required to create an S-121 compliant dataset. This document describes the various feature types and their relations and provides extensive tables describing each feature, attribute, enumeration and enumeration value in detail. This document forms the formal Data Classification and Encoding Guide for Version 1.0.0 of the S-121 Product Specification. This document contains the information that will be imported into the IHO Registry. In the future a Feature Catalogue for the S-121 Product Specification will be generated from the information imported into the registry, which at that time will be represented as an XML file. The generation of a revised DCEG document will be a largely automated process based on the XML file representation of the information currently contained in this document. This process will ensure complete alignment between the next version of this document and the XML file and the registry entries.

Note: Since this document will be largely regenerated in its next version, detailed editing and formatting of this document is not important.

2 Feature Types

A set of predefined feature types have been established for Marine Limits and Boundaries. The stereotype <MLB> (Maritime Limits and Boundaries) is used to identify the MLB Feature Types and Defining Objects.

Figure 2-1 below illustrates the relationship of the feature types to the defining objects. The information contained in the defining features’ attributes is included in the Feature Catalogue.

**Figure 2-1 – MLB Features**

The “location” feature types are:

Limit Point - A limit point is a point on the outer limit of a maritime zone.

Baseline Point – A baseline point is a point on a baseline.

Boundary Point – A boundary point is a point on a boundary.

Contributing Point - A point, used for computation.

The “limit” feature types are:

Boundary - A delimitation line between two or more entities.

International Boundary - A delimitation between two or more States.

Baseline (Articles 5, 6, 7, 9, 10, 11, 13, 14 and 47 of UNCLOS) – A baseline is a line from which the breadth of the territorial sea, and other maritime zones is measured.

Normal Baseline (Article 5 of UNCLOS).

Straight Baselines (Articles 7 of UNCLOS).

Archipelagic Baseline (Article 47 of UNCLOS).

Low-Tide Elevations (Article 13 of UNCLOS).

Mouths of Rivers (Article 9 of UNCLOS).

Reefs (Article 6 of UNCLOS).

Bays (Article 10 of UNCLOS).

Ports (Article 11 of UNCLOS).

Outer Limit of the Territorial Sea (Articles 3, 4 and 15 of UNCLOS).

Outer Limit of the Contiguous Zone (Article 33 of UNCLOS).

Outer Limit of the Exclusive Economic Zone (Article 57 and 74 of UNCLOS).

Outer Limit of the Continental Shelf (Article 76 and 83 of UNCLOS).

Outer Limit of the Roadstead (Article 12 of UNCLOS) - The outer limit of a roadstead.

Construction Line – An arc used for constructing "Limit" or "Boundary" typically linking to a "Contributing Point".

The “zone” feature types are:

Internal Waters (Article 8 of UNCLOS).

Archipelagic Waters (Article 49 of UNCLOS) – Archipelagic waters are waters enclosed by the archipelagic baselines drawn in accordance with Article 47.

Territorial Sea (Part II, Sections 1-3, of UNCLOS).

Contiguous Zone (Part II, Section 4, of UNCLOS).

Exclusive Economic Zone (Part V of UNCLOS).

Continental Shelf (Part VI of UNCLOS).

Roadsteads (Article 12 of UNCLOS).

High Seas (Part VII of UNCLOS).

The Area (Part XI of UNCLOS).

3 Attribute Types

The Rights, Restrictions, Responsibility and Party structure effectively provides attributes to the S-121 feature types by reference.

The S121_FeatureUnit is a feature type and may take on any of the feature attributes described in the Feature Concept Dictionary Register. Specific attributes are bound to specific features in the Product Specification. Figure 3-1 shows S121_FeatureUnit and its attributes.

The S121_FeatureUnit also has five built-in attributes. These are:

fulD: The Feature Unit Identifier allows reference to information objects using the “Oid” (Object ID) attribute. The “Oid” comprises a unique character string and a namespace identifier which is also a unique character string. An example might be “Limit-1” where “Limit” is the namespace and “1” is the unique id within that namespace.

label: The attribute *label* provides a short textual identifier of the feature unit. For features registered in the Feature Context Dictionary this is the full textual Feature Type Name. This attribute is mandatory because it is used as part of the human readable textual encoding.

name: The name of the feature, that is the 6-character code or CamelCase code identifying the feature type (as defined in the Feature Concept Dictionary). The *definition*, and *isAbstract* of the feature are recorded in the Feature Concept Dictionary so do not need to be included in attributes.

context: This attribute describes the administrative aspects of the feature object.

releasabilityType: This attribute is optionally used to differentiate between releasability status for particular features.

In addition, there are three attributes inherited through the S121_VersionedObject structure. These are:

startLifespan: start time of a specific instance version.

endLifespan: optional end time of a specific instance version.

collection: the data set or series to which the data belongs.

Other thematic and spatial attributes are by reference.

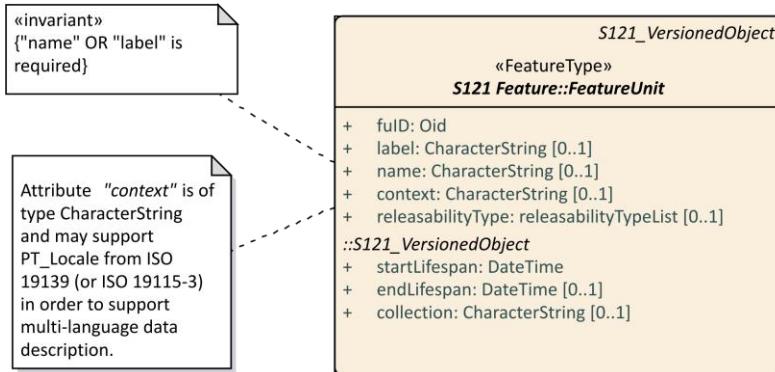


Figure 3-1 –Feature Unit Attributes for an S121_Feature

3.1 MLB Location Objects and Attributes

The S121 MLB Location Objects may take on any of the feature attributes described in the Feature Concept Dictionary Register. In addition, the S-121 MLB Location Objects inherit the attributes from S121_FeatureUnit: *fulD*, *label*, *name*, *context* and *releasabilityType* as well as the three versioning attributes, *beginLifespanVersion*, *endLifespanVersion* and *collection*.

The attribute *locationObjectType* from the codelist locationTypeList identifies which Feature Unit Limit Object type this object refers to based on the Feature Catalogue.

The attribute *interpolationType* from the codelist interpolationTypeList identifies the role of point in the structure of a "Straight" line or curve.

The attribute *pointType* from the codelist originTypeList identifies the type of the point.

Figure 3-2 below shows MLB Location Objects and attributes.

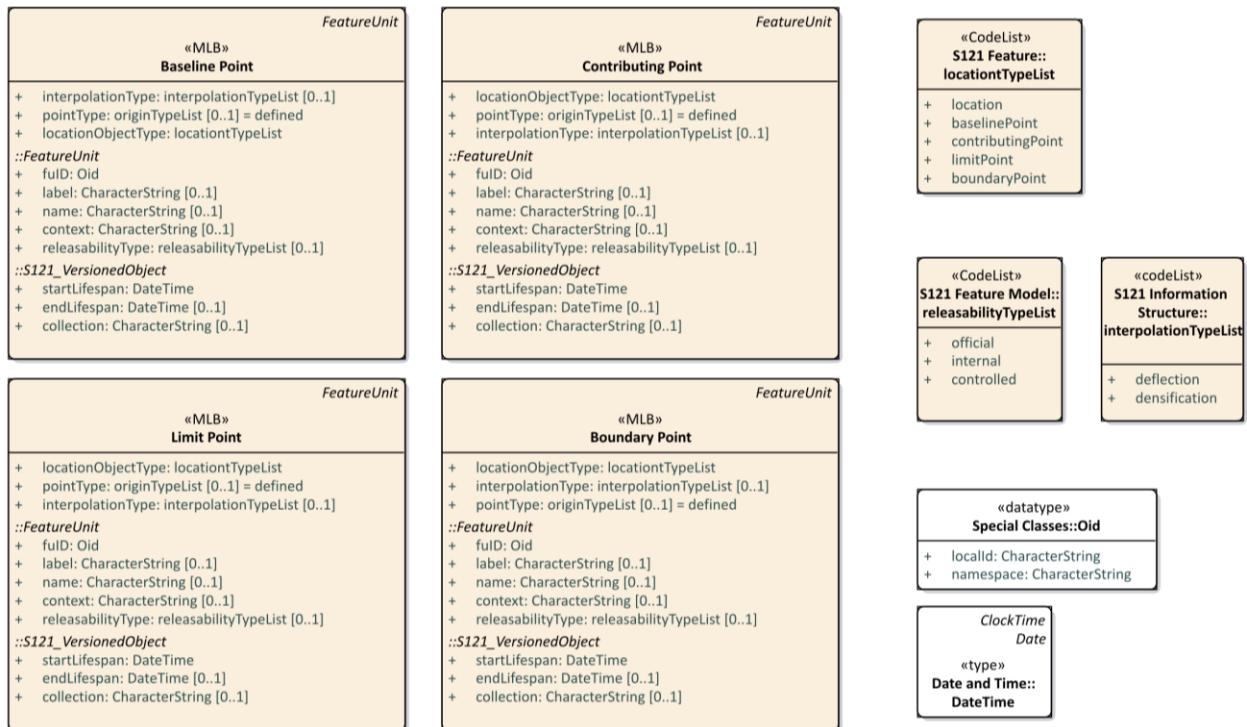


Figure 3-2 – MLB Location Objects and Attributes

3.2 MLB Limit Objects and Attributes

The S121 MLB Limit Objects may take on any of the feature attributes described in the Feature Concept Dictionary Register. In addition, the S-121 MLB Limit Objects inherit the attributes from S121_FeatureUnit: *fulD*, *label*, *name*, *context* and *releasabilityType* and the versioning attributes, *beginLifespanVersion*, *endLifespanVersion* and *collection*.

The feature objects Baseline, NormalBaseline, StraightBaseline, ArchipelagicBaseline, LowTideElevationBaseline, MouthOfRiverBaseline, BayBaseline, ReefBaseline, PortBaseline, Boundary, InternationalBoundary, OuterLimitOfTheTerritorialSea, OuterLimitOfTheContiguousZone, OuterLimitOfTheExclusiveEconomicZone, OuterLimitOfTheContinentalShelf, OuterLimitOfTheRoadstead, and ConstructionLine may optionally take on the attribute *arcGeometryType* from the codelist arcGeometryTypeList which identifies the type of computation used to define an arc (line).

With respect to the feature objects Boundary and International Boundary: In accordance with articles 74, 75, 83, and 84 of UNCLOS, information on maritime boundaries, such as information about the delimitation of exclusive economic zones and continental shelves between states, may be provided for S-121 only when an agreement is reached between relevant states.

The attribute *limitObjectType* from the codelist limitTypeList identifies which Feature Unit Limit Object type this object refers to based on the Feature Catalogue.

The Figure 3-3 below shows MLB Limit Objects and attributes.

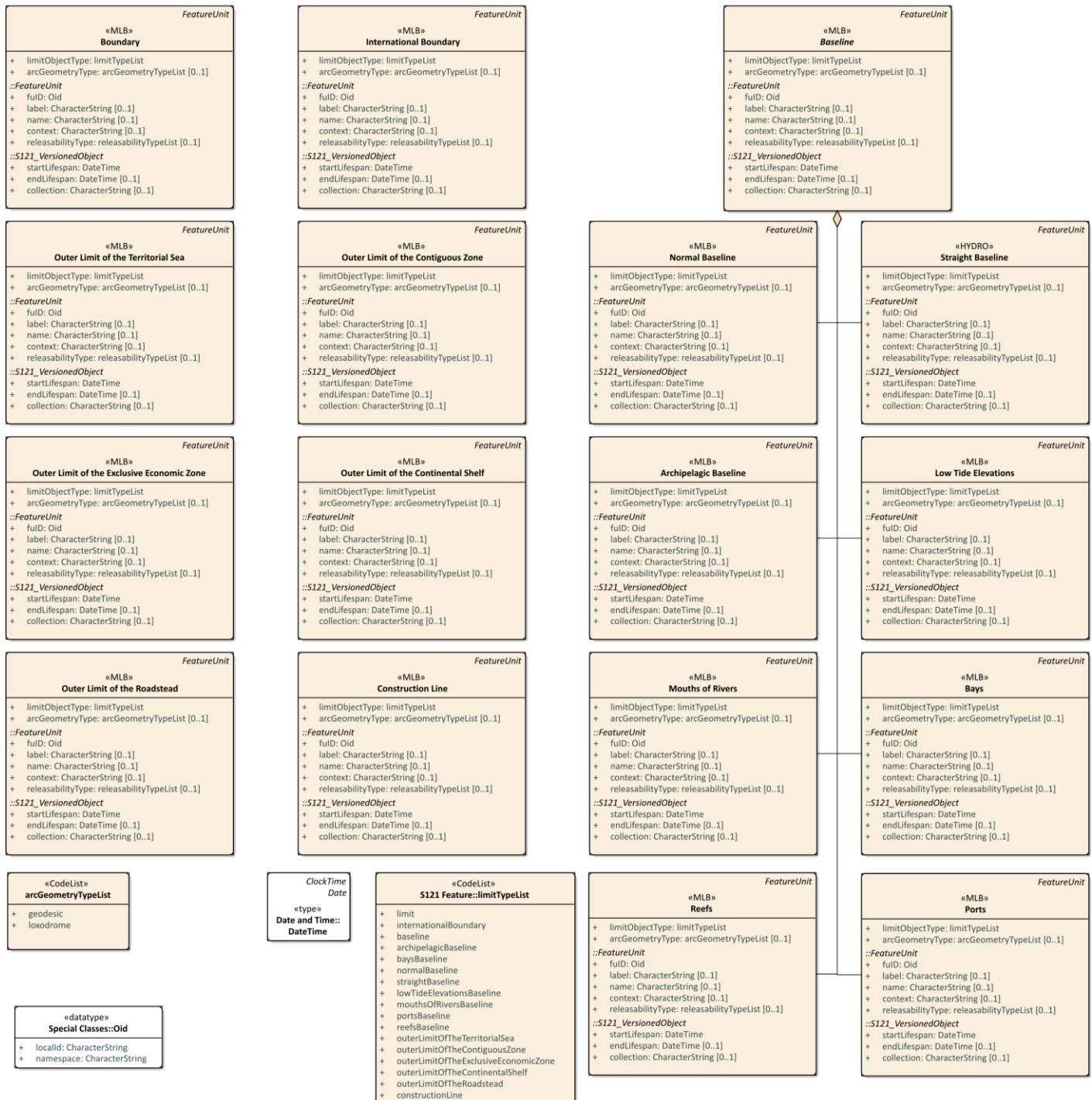


Figure 3-3 – MLB Limit Objects and Attributes

3.3 MLB Zone Objects and Attributes

The S121 MLB Zone Objects may take on any of the feature attributes described in the Feature Concept Dictionary Register. In addition the S121 MLB Zone Objects inherit the attributes from S121_FeatureUnit:

fullD, label, name, context and releasabilityType and the versioning attributes, *beginLifespanVersion, endLifespanVersion* and *collection*.

The attribute *zoneObjectType* from the codelist *zoneTypeList* which identifies which Feature Unit Zone Object type this object refers to, based on the Feature Catalogue.

The S121 MLB Zone Objects may optionally take on the attribute *jurisdictionDomain* from the codelist *jurisdictionDomainTypeList* which defines the vertical juridical domain of the object.

The Figure 3-4 below shows MLB Zone Objects and attributes.



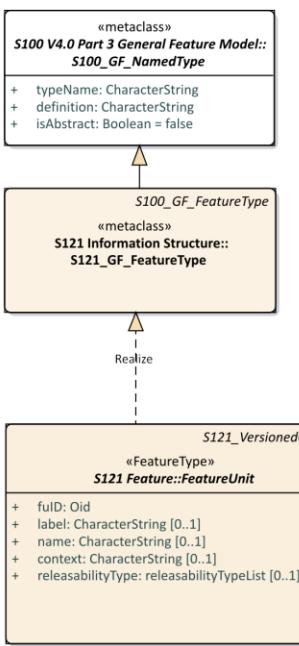
Figure 3-4 – MLB Zone Objects and Attributes

3.4 MLB Space Objects and Attributes

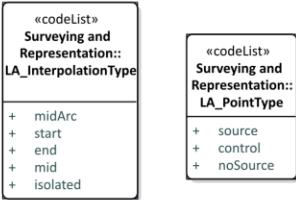
There no MLB Space objects defined. Any Space object will need to be generated from the generic object Space and registered in the Feature Catalogue for a particular product.

3.5 MLB Generic Feature Objects and Defining Attributes

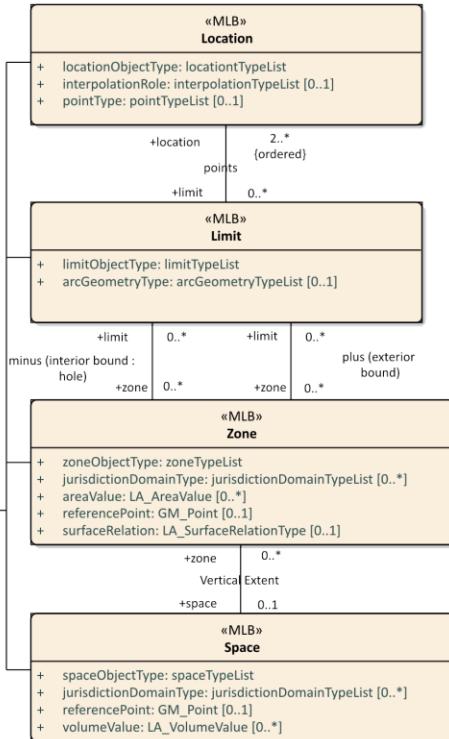
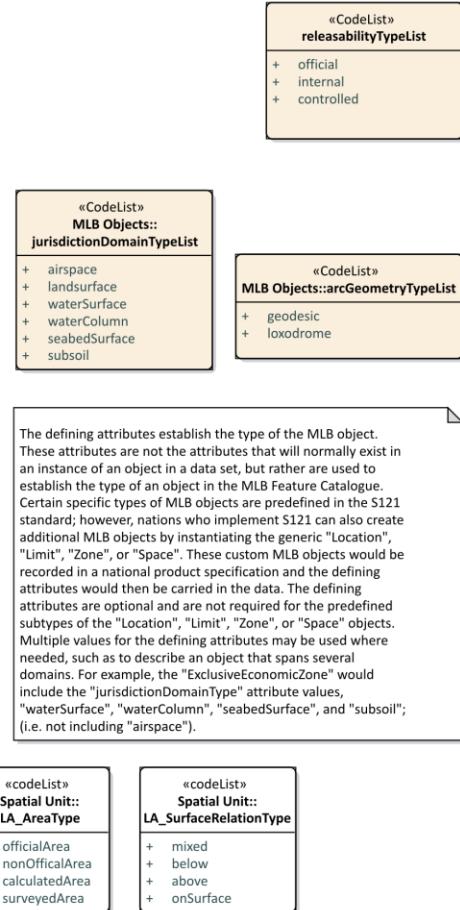
There are four generic feature object types, Location, Limit, Zone and Space. These objects serve as the root objects for all of the registered Feature Types. However these four objects may also be instantiated and specialized where there is a need to construct as special object type. Figure 3-5 below illustrates the relationship of the generic feature objects and defining attributes.

S121 Generic Feature Types

Code Lists inherited from ISO 19152 LADM



Feature Unit Object Type Code Lists

**S121 Generic Object Types with Defining Attributes****MLB Defining Attribute Code Lists****Figure 3-5 – MLB Generic Feature Objects and Defining Attributes**

4 Feature Catalogue Entries

The objects and attributes identified for use in the S-121 Product Specification are described in conformance with the IHO Geospatial Information (GI) Registry.

Note: In this version 1.0.0 of the S-121 Product Specification the following tables constitute the Feature Catalogue as a document. These tables will then be entered into the IHO GI Registry and a subsequent version of the Feature Catalogue will be generated from the Registry. These tables in a subsequent version of the S-121 Product Specification will also be generated from the Registry. This process ensures complete alignment between the Feature Catalogue, the Registry and this document.

4.1 S-121 Location Feature Objects

4.1.1 Limit Point

Item Type	Feature
Domain	MLB
AlphaCode	LIMPNT
Name	Limit Point
Alias	MA_LimitPoint
CamelCase	LimitPoint
Use Type	Geographic; Administrative
Definition	A limit point is a point on the outer limit of a maritime zone.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Recommended Attributes	locationObjectType, pointType, interpolationType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	"BaselinePoint", "BoundaryPoint", "ContributingPoint"
Remarks	A point typically associated with only one party.
Permitted Primitives	P

4.1.2 Baseline Point

Item Type	Feature
Domain	MLB
AlphaCode	BASEPT
Name	Baseline Point
Alias	MA_BaselinePoint
CamelCase	BaselinePoint
Use Type	Administrative
Definition	A baseline point is a point on a baseline.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Recommended Attributes	locationObjectType, pointType, interpolationType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	"LimitPoint", "BoundaryPoint", "ContributingPoint"
Remarks	Can be any point that makes up a "Baseline".
Permitted Primitives	P

4.1.3 Boundary Point

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	BDNPNT
Name	Boundary Point
Alias	MA_BoundaryPoint
CamelCase	BoundaryPoint
Use Type	Administrative
Definition	A point on a boundary.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Recommended Attributes	locationObjectType, pointType, interpolationType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	"BaselinePoint", "LimitPoint", "ContributingPoint"
Remarks	A point associated with more than one party.
Permitted Primitives	P

4.1.4 Contributing Point

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	CNTPNT
Name	Contributing Point
Alias	MA_ContributingPoint
CamelCase	ContributingPoint
Use Type	Administrative
Definition	A point used for computation.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Recommended Attributes	locationObjectType, pointType, interpolationType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	"BaselinePoint", "LimitPoint", "BoundaryPoint"
Remarks	
Permitted Primitives	P

4.2 S-121 Limit Feature Objects

4.2.1 Boundary

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	BNDARY
Name	Boundary
Alias	MA_Boundary
CamelCase	Boundary
Use Type	Administrative
Definition	A delimitation line between two or more entities.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	InternationalBoundary
Remarks	In accordance with articles 74, 75, 83, and 84 of UNCLOS, information on maritime boundaries, such as information about the delimitation of exclusive economic zones and continental shelves between states, may be provided for S-121 only when an agreement is reached between relevant states.
Permitted Primitives	L

4.2.2 International Boundary

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	INTBND
Name	International Boundary
Alias	MA_InternationalBoundary
CamelCase	InternationalBoundary
Use Type	Administrative
Definition	A delimitation between two or more States.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Boundary
Remarks	In accordance with articles 74, 75, 83, and 84 of UNCLOS, information on maritime boundaries, such as information about the delimitation of exclusive economic zones and continental shelves between states, may be provided for S-121 only when an agreement is reached between relevant states.
Permitted Primitives	L

4.2.3 Baseline

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	BASELN
Name	Baseline
Alias	MA_Baseline
CamelCase	Baseline
Use Type	Administrative
Definition	A baseline is a line from which the breadths of the territorial sea, and other maritime zones are measured.
Reference	UNCLOS: Articles 5, 6, 7, 9, 10, 11, 13, 14 and 47;
IHO-S32	390
Definition Source	UNCLOS "CI_Citation"; IHO S-32, 5th Ed. "CI_Citation
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	NormalBaseline, StraightBaseline, ArchipelagicBaseline, LowTideElevationsBaseline, MouthOfRiversBaseline, ReefsBaseline, BaysBaseline, PortsBaseline
Remarks	
Permitted Primitives	L

4.2.4 Normal Baseline

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	NORBLN
Name	Normal Baseline
Alias	MA_NormalBaseline
CamelCase	NormalBaseline
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Articles 5
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Baseline, StraightBaseline, ArchipelagicBaseline, LowTideElevationsBaseline, MouthOfRiversBaseline, ReefsBaseline, BaysBaseline, PortsBaseline
Remarks	
Permitted Primitives	L

4.2.5 Straight Baseline

Item Type	Feature
Proposal Type	Unspecified
Domain	HYDRO
AlphaCode	STSLNE
Name	Straight Baseline
Alias	MA_StraightBaseline
CamelCase	StraightBaseline
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 7
IHO-S32	393;
Definition Source	IHO S-32, 5th Ed. "CI_Citation
Similarity to Source	
Int1	N42
S-4	440.4
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Baseline, NormalBaseline, ArchipelagicBaseline, LowTideElevationsBaseline, MouthOfRiversBaseline, ReefsBaseline, BaysBaseline, PortsBaseline
Remarks	
Permitted Primitives	L

4.2.6 Archipelagic Baseline

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	ARCBLN
Name	Archipelagic Baseline
Alias	MA_ArchipelagicBaseline
CamelCase	ArchipelagicBaseline
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 47
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Baseline, NormalBaseline, StraightBaseline, LowTideElevationsBaseline, MouthOfRiversBaseline, ReefsBaseline, BaysBaseline, PortsBaseline
Remarks	
Permitted Primitives	L

4.2.7 Low Tide Elevations

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	LTEBLN
Name	Low Tide Elevations
Alias	MA_LowTideElevationsBaseline
CamelCase	LowTideElevationBaseline
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 13
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Baseline, NormalBaseline, StraightBaseline, ArchipelagicBaseline, MouthOfRiversBaseline, ReefsBaseline, BaysBaseline, PortsBaseline
Remarks	
Permitted Primitives	L

4.2.8 Mouths of Rivers

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	MRVBLN
Name	Mouths of Rivers
Alias	MA_MouthsOfRiversBaseline
CamelCase	MouthsOfRiversBaseline
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 9
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Baseline, NormalBaseline, StraightBaseline, ArchipelagicBaseline, LowTideElevationsBaseline, ReefsBaseline, BaysBaseline, PortsBaseline
Remarks	
Permitted Primitives	L

4.2.9 Reefs

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	REFBLN
Name	Reefs
Alias	MA_ReefsBaseline
CamelCase	ReefsBaseline
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 6
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Baseline, NormalBaseline, StraightBaseline, ArchipelagicBaseline, LowTideElevationsBaseline, MouthOfRiversBaseline, BaysBaseline, PortsBaseline
Remarks	
Permitted Primitives	L

4.2.10 Bays

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	BAYBLN
Name	Bays
Alias	MA_BaysBaseline
CamelCase	BaysBaseline
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 10
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Baseline, NormalBaseline, StraightBaseline, ArchipelagicBaseline, LowTideElevationsBaseline, MouthOfRiversBaseline, ReefsBaseline, PortsBaseline
Remarks	
Permitted Primitives	L

4.2.11 Ports

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	PRTBLN
Name	Ports Baseline
Alias	MA_PortsBaseline
CamelCase	PortsBaseline
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 11
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Baseline, NormalBaseline, StraightBaseline, ArchipelagicBaseline, LowTideElevationsBaseline, MouthOfRiversBaseline, ReefsBaseline, BaysBaseline
Remarks	
Permitted Primitives	L

4.2.12 Outer Limit of the Territorial Sea

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	TESLIM
Name	Outer Limit of the Territorial Sea
Alias	MA_OuterLimitOfTheTerritorialSea
CamelCase	OuterLimitOfTheTerritorialSea
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Articles 3, 4and 15
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	OuterLimitOfTheContiguousZone, OuterLimitOfTheExclusiveEconomicZone, OuterLimitOfTheContinentalShelf, OuterLimitOfTheRoadstead
Remarks	
Permitted Primitives	L

4.2.13 Outer Limit of the Contiguous Zone

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	CZOLIM
Name	Outer Limit of the Contiguous Zone
Alias	MA_OuterLimitOfTheContiguousZone
CamelCase	OuterLimitOfTheContiguousZone
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 33
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	OuterLimitOfTheTerritorialSea, OuterLimitOfTheExclusiveEconomicZone, OuterLimitOfTheContinentalShelf, OuterLimitOfTheRoadstead
Remarks	
Permitted Primitives	L

4.2.14 Outer Limit of the Exclusive Economic Zone

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	EEZLIM
Name	Outer Limit of the Exclusive Economic Zone
Alias	MA_OuterLimitOfTheExclusiveEconomicZone
CamelCase	OuterLimitOfTheExclusiveEconomicZone
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 57 and 74
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	OuterLimitOfTheTerritorialSea, OuterLimitOfTheContiguousZone, OuterLimitOfTheContinentalShelf, OuterLimitOfTheRoadstead
Remarks	
Permitted Primitives	L

4.2.15 Outer Limit of the Continental Shelf

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	CSOLIM
Name	Outer Limit of the Continental Shelf
Alias	MA_OuterLimitOfTheContinentalShelf
CamelCase	OuterLimitOfTheContinentalShelf
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 76 and 83
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	OuterLimitOfTheTerritorialSea, OuterLimitOfTheContiguousZone, OuterLimitOfTheExclusiveEconomicZone, OuterLimitOfTheRoadstead
Remarks	
Permitted Primitives	L

4.2.16 Outer Limit of the Roadstead

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	RDSLIM
Name	Outer Limit of the Roadstead
Alias	MA_OuterLimitOfTheRoadstead
CamelCase	OuterLimitOfTheRoadstead
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 12
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	OuterLimitOfTheTerritorialSea, OuterLimitOfTheContiguousZone, OuterLimitOfTheExclusiveEconomicZone, OuterLimitOfTheContinentalShelf.
Remarks	
Permitted Primitives	L

4.2.17 Construction Line

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	CONLIN
Name	Construction Line
Alias	MA_ConstructionLine
CamelCase	ConstructionLine
Use Type	Administrative
Definition	An arc used for constructing aLimit or Boundary typically linking to a ContributingPoint.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	
Remarks	
Permitted Primitives	L

4.3 S-121 Zone Feature Objects

4.3.1 Internal Waters

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	INTWTR
Name	Internal Waters
Alias	MA_InternalWaters
CamelCase	InternalWaters
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 8;
Definition Source	UNCLOS "CI_Citation"; IHO S-32, 5th Ed. "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	zoneObjectType, jurisdictionDomainType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	
Remarks	
Permitted Primitives	A

4.3.2 Archipelagic Waters

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	ARCWTR
Name	Archipelagic Waters
Alias	MA_ArchipelagicWaters
CamelCase	ArchipelagicWaters
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 49
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	zoneObjectType, jurisdictionDomainType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	TerritorialSea, ContiguousZone, ExclusiveEconomicZone, ContinentalShelf, Roadsteads, HighSeas, TheArea.
Remarks	Archipelagic waters are waters enclosed by the archipelagic baselines drawn in accordance with Article 47
Permitted Primitives	A

4.3.3 Territorial Sea

Item Type	Feature
Proposal Type	Unspecified
Domain	HYDRO
AlphaCode	TESARE
Name	Territorial Sea
Alias	MA_TerritorialSea
CamelCase	TerritorialSea
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Part II, Sections 1-3;
Definition Source	UNCLOS "CI_Citation"; IHO S-32, 5th Ed. "CI_Citation
Similarity to Source	by reference
Int1	N43
S-4	440.5
Recommended Attributes	zoneObjectType, jurisdictionDomainType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	ArchipelagicWaters, ContiguousZone, ExclusiveEconomicZone, ContinentalShelf, Roadsteads, HighSeas, TheArea.
Remarks	
Permitted Primitives	A

4.3.4 Contiguous Zone

Item Type	Feature
Proposal Type	Unspecified
Domain	HYDRO
AlphaCode	CONZNE
Name	Contiguous Zone
Alias	MA_ContiguousZone
CamelCase	ContiguousZone
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Part II, Section 4;
Definition Source	UNCLOS "CI_Citation"; IHO S-32, 5th Ed. "CI_Citation
Similarity to Source	by reference
Int1	N44
S-4	440.6
Recommended Attributes	zoneObjectType, jurisdictionDomainType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	ArchipelagicWaters, TerritorialSea, ExclusiveEconomicZone, ContinentalShelf, Roadsteads, HighSeas, TheArea.
Remarks	
Permitted Primitives	A

4.3.5 Exclusive Economic Zone

Item Type	Feature
Proposal Type	Unspecified
Domain	HYDRO
AlphaCode	EXEZNE
Name	Exclusive Economic Zone
Alias	MA_ExclusiveEconomicZone
CamelCase	ExclusiveEconomicZone
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Part V;
Definition Source	UNCLOS "CI_Citation"; IHO S-32, 5th Ed. "CI_Citation
Similarity to Source	by reference
Int1	N47
S-4	440.9
Recommended Attributes	zoneObjectType, jurisdictionDomainType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	ArchipelagicWaters, TerritorialSea, ContiguousZone, ContinentalShelf, Roadsteads, HighSeas, TheArea.
Remarks	
Permitted Primitives	A

4.3.6 Continental Shelf

Item Type	Feature
Proposal Type	Unspecified
Domain	HYDRO
AlphaCode	COSARE
Name	Continental Shelf
Alias	MA_ContinentalShelf
CamelCase	ContinentalShelf
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Part VI
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	N 46
S-4	440.8
Recommended Attributes	zoneObjectType, jurisdictionDomainType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	ArchipelagicWaters, TerritorialSea, ContiguousZone, ExclusiveEconomicZone, Roadsteads, HighSeas, TheArea.
Remarks	
Permitted Primitives	A

4.3.7 Roadsteads

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	RDSZNE
Name	Roadsteads
Alias	MA_Roadsteads
CamelCase	Roadsteads
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 12
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	zoneObjectType, jurisdictionDomainType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	ArchipelagicWaters, TerritorialSea, ContiguousZone, ExclusiveEconomicZone, ContinentalShelf, HighSeas, TheArea.
Remarks	
Permitted Primitives	A

4.3.8 High Seas

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	HIGHSE
Name	High Seas
Alias	MA_HighSeas
CamelCase	HighSeas
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Part VII
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	zoneObjectType, jurisdictionDomainType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	ArchipelagicWaters, TerritorialSea, ContiguousZone, ExclusiveEconomicZone, ContinentalShelf, Roadsteads, TheArea.
Remarks	
Permitted Primitives	A

4.3.9 The Area

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	SBAREA
Name	The Area
Alias	MA_TheArea
CamelCase	TheArea
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Part XI;
Definition Source	UNCLOS "CI_Citation"; IHO S-32, 5th Ed. "CI_Citation
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	zoneObjectType, jurisdictionDomainType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	ArchipelagicWaters, TerritorialSea, ContiguousZone, ExclusiveEconomicZone, ContinentalShelf, Roadsteads, HighSeas.
Remarks	
Permitted Primitives	A

4.4 S-121 MLB Generic Feature Objects

4.4.1 Location

Item Type	Feature
Domain	MLB
AlphaCode	MLOCTN
Name	Location
Alias	MA_Location
CamelCase	Location
Use Type	Geographic; Administrative
Definition	An object that defines and attributes a point in space.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Recommended Attributes	locationObjectType, interpolationRule, pointType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Limit, Zone, Space
Remarks	
Permitted Primitives	P

4.4.2 Limit

Item Type	Feature
Domain	MLB
AlphaCode	MLBLIM
Name	Limit
Alias	MA_Limit
CamelCase	Limit
Use Type	Geographic; Administrative
Definition	An object that defines any limit or boundary either relating to terrestrial, marine or both environments.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Location, Zone, Space
Remarks	
Permitted Primitives	P,L

4.4.3 Zone

Item Type	Feature
Domain	MLB
AlphaCode	MAZONE
Name	Zone
Alias	MA_Zone
CamelCase	Zone
Use Type	Geographic; Administrative
Definition	An object that defines an area which is logically delimited by instances of "Limit".
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Recommended Attributes	zoneObjectType, jurisdictionDomainType, referencePoint, areaValue, surfaceRelationType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Location, Limit, Space
Remarks	
Permitted Primitives	P,L,A

4.4.4 Space

Item Type:	Feature
Domain:	MLB
AlphaCode:	MSPACE
Name:	Space
Alias:	MA_Space
CamelCase:	Space
Use Type:	Geographic; Administrative
Definition:	An object that defines a volume which is logically delimited by instances of "Zone".
Reference:	
Definition Source:	
Similarity to Source:	
Int1:	
S-4:	
Recommended Attributes:	spaceObjectType, jurisdictionDomainType, referencePoint, volumeValue, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinguishing Features:	Location, Limit, Zone
Remarks:	A "Space" is an object of 2 dimensions with a height description located in 2 or 3 dimensional "Space". This is sometimes called 2 1/2 dimensions. A "Space" has the same geometry as a "Zone" with the attributes of vertical position. The vertical position may be explicit numerical attributes of height above a reference or a textual description.
Permitted Primitives:	P,L,A

4.5 S-121 Information Objects

4.5.1 Basic Administrative Unit

Item Type	Information
Domain	MLB
AlphaCode	BAUNIT
Name	Basic Administrative Unit
Alias	MA_BasicAdministrativeUnit
CamelCase	basicAdministrativeUnit
Definition	An information object to which (one or more) unique and homogeneous "Right", "Responsibility" or "Restriction" are associated. It is an information object since it does not directly take on spatial attributes.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 4.1.2
Similarity to Source	specialization
Int1	
S-4	
Remarks	

4.5.2 Right

Item Type	Information
Domain	MLB
AlphaCode	MARGHT
Name	Right
Alias	MA_Right
CamelCase	right
Definition	An action, activity or class of actions that a system participant may perform on or using an associated resource.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 4.1.2
Similarity to Source	specialization
Int1	
S-4	
Remarks	Realized from ISO 19152 LADM "LA_Right" which stereotypes this object as a "featureType". Since it is not a feature in the same sense as the term feature is used in IHO S-100, the stereotype has been removed. For the S-121 code lists have been specialized to the marine environment. They can be referenced as objects from the attributes associated with an S-100 Feature Object. Used in this way an information object such as a "Right" is a shared attribute by reference.

4.5.3 Responsibility

Item Type	Information
Domain	MLB
AlphaCode	MARSPN
Name	Responsibility
Alias	MA_Responsibility
CamelCase	responsibility
Definition	A formal or informal obligation to do something.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.5
Similarity to Source	specialization
Int1	
S-4	
Remarks	Realized from ISO 19152 LADM "LA_Responsibility" which stereotypes this object as a "featureType". Since it is not a feature in the same sense as the term feature is used in IHO S-100, the stereotype has been removed. For the S-121 code lists have been specialized to the marine environment. They can be referenced as objects from the attributes associated with an S-100 Feature Object. Used in this way an information object such as a "Responsibility" is a shared attribute by reference.

4.5.4 Restriction

Item Type	Information
Domain	MLB
AlphaCode	MARSTN
Name	Restriction
Alias	MA_Restriction
CamelCase	restriction
Definition	A formal or informal entitlement to refrain from doing something.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.4
Similarity to Source	specialization
Int1	
S-4	
Remarks	Realized from ISO 19152 LADM "LA_Restriction" which stereotypes this object as a "featureType". Since it is not a feature in the same sense as the term feature is used in IHO S-100, the stereotype has been removed. For the S-121 code lists have been specialized to the marine environment. They can be referenced as objects from the attributes associated with an S100 Feature Object. Used in this way an information object such as a "Restriction" is a shared attribute by reference. Out of the RRR objects, it is the only one that does not require a relation with Party, since restrictions can apply to all.

4.5.5 S121 Party

Item Type	Information
Domain	MLB
AlphaCode	MAPART
Name	Party
Alias	MA_Party
CamelCase	party
Definition	A person or organisation or group.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.3.1
Similarity to Source	specialization
Int1	
S-4	
Remarks	Realized from ISO 19152 LADM "LA_Party" which stereotypes this object as a "featureType". Since it is not a feature in the same sense as the term feature is used in IHO S-100, the stereotype has been removed. LA_GroupParty describes any number of parties, forming together a distinct entity, with each party registered. Since LA_GroupParty is a subtype of LA_Party this is described as a single class "Party" that includes a conditional attribute "partyGroupTypeList" that defines the type of a group party.

4.5.6 S121 Group Party

Item Type:	Information
Domain:	MLB
AlphaCode:	MAGPRT
Name:	Group Party
Alias:	MA_GroupParty
CamelCase:	groupParty
Definition:	A group of two or more parties .
Reference:	ISO 19152
Definition Source:	ISO 19152:2012 clause 6.3.2
Similarity to Source:	specialization
Int1:	
S-4:	
Remarks:	Realized from ISO 19152 LADM "LA_GroupParty" which stereotypes this object as a "featureType". Since it is not a feature in the same sense as the term feature is used in IHO S-100, the stereotype has been removed. LA_GroupParty describes any number of parties, forming together a distinct entity, with each party registered. Since LA_GroupParty is a subtype of LA_Party this is described as a single class "Party" that includes a conditional attribute "partyGroupTypeList" that defines the type of a group party.

4.5.7 Source

Item Type	Information
Domain	MLB
AlphaCode	
Name	Source
Alias	
CamelCase	Source
Definition	Descriptive documentation that supports, complements or describes the associated object.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 4.1.3.1 and 6.2.4
Similarity to Source	specialization
Int1	
S-4	
Remarks	Realized from ISO 19152 LADM "LA_Source" which stereotypes this object as a "featureType". Since it is not a feature in the same sense as the term feature is used in IHO S-100, the stereotype has been removed. The "Source" objects are shared attributes by reference.

4.5.8 Governance

Item Type	Information
Domain	MLB
AlphaCode	GOVERN
Name	Governance
Alias	MA_Goverance
CamelCase	Governance
Definition	A description of the context information from a proclamation, law or treaty document.
Reference	
Definition Source	
Similarity to Source	specialization
Int1	
S-4	
Remarks	Governance information defines title, reference number, date and other associated information linked to the particular proclamation, law and treaty documents to support the provision of specific description or interpretation that is applicable to the selected set of features.

4.6 S-121 Attributes

4.6.1 Label

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAFLAB
Name	Label
Alias	MA_Label
CamelCase	label
Data Type	CharacterString
Definition	A short textual identifier of the feature or information object.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	For features or information objects registered in the Feature Context Dictionary this is the full textual Feature / Information Object Type Name. This attribute is mandatory because it is used as part of the human readable textual encoding.
Quantity Specifications	

4.6.2 Name

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MANAME
Name	Name
Alias	MA_Name
CamelCase	name
Data Type	CharacterString
Definition	The name of the feature or information object.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.3 Context

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MACONT
Name	Context
Alias	MA_Context
CamelCase	context
Data Type	CharacterString
Definition	This attribute describes the administrative aspects of the feature object.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.4 Releasability Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MARELT
Name	Releasability Type
Alias	MA_ReleasabilityType
CamelCase	releasabilityType
Data Type	releasabilityTypeList
Definition	This attribute is used to differentiate between releasability status for particular features or information objects.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.5 Start Lifespan

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	STAVER
Name	Start Lifespan
Alias	MA_beginLifespanVersion
CamelCase	startLifespan
Data Type	DateTime
Definition	Start time of a specific instance version.
Reference	ISO 19152
Definition Source	ISO 19152:2012
Similarity to Source	specialization
Int1	
S-4	
Remarks	The start time/date is mandatory.
Quantity Specifications	

4.6.6 End Lifespan

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	ENDVER
Name	End Lifespan
Alias	MA_EndLifespanVersion
CamelCase	endLifespan
Data Type	DateTime
Definition	End time of a specific instance version.
Reference	ISO 19152
Definition Source	ISO 19152:2012
Similarity to Source	specialization
Int1	
S-4	
Remarks	The end time/date is optional and when missing indicates that the version is current.
Quantity Specifications	

4.6.7 Collection

Item Type	Simple Attribute
Domain	MLB
AlphaCode	
Name	Collection
Alias	MA_Collection
CamelCase	collection
Data Type	CharacterString
Definition	This attribute identifies the data set or series to which the data belongs.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	Each nation or organization creating data needs to identify the data. It is expected that the State name should be used when depositing.
Quantity Specifications	

4.6.8 Reference Number

Item Type	Simple Attribute
Domain	MLB
AlphaCode	GORFNB
Name	Reference Number
Alias	
Data Type	CharacterString
CamelCase	referenceNumber
Definition	An attribute describing the reference number of the source reference.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.6.9 Governance Title

Item Type	Simple Attribute
Domain	MLB
AlphaCode	GOVTIT
Name	Governance Title
Alias	
Data Type	CharacterString
CamelCase	governanceTitle
Definition	The title of the source reference.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.6.10 Governance Description

Item Type	Simple Attribute
Domain	MLB
AlphaCode	GOVDES
Name	Governance Description
Alias	
Data Type	CharacterString
CamelCase	governanceDescription
Definition	A character string attribute containing the description of the governance statement.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	This attribute contains the block or blocks of text that may act as a preamble to the source document.

4.6.11 Date Approved

Item Type	Simple Attribute
Domain	MLB
AlphaCode	
Name	Date Approved
Alias	
CamelCase	dateApproved
Data Type	Date
Definition	The date at which the source statement or document was approved by the appropriate governing body.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.12 Date Considered

Item Type	Simple Attribute
Domain	MLB
AlphaCode	
Name	Date Considered
Alias	
CamelCase	dateConsidered
Data Type	Date
Definition	The date at which the source statement or document was considered by the appropriate governing body.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.13 Date Introduced

Item Type	Simple Attribute
Domain	MLB
AlphaCode	
Name	Date Introduced
Alias	
CamelCase	dateIntroduced
Data Type	Date
Definition	The date at which the source statement or document was introduced.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.14 Basic Administrative Unit Name

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MABAUN
Name	Basic Administrative Unit Name
Alias	MA_BAUnitName
CamelCase	basicAdministrativeUnitName
Data Type	CharacterString
Definition	Optional name for an instance of a "BasicAdministrativeUnit".
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.1
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.15 Basic Administrative Unit Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MABAUT
Name	Basic Administrative Unit Type
Alias	MA_BAUnitType
CamelCase	basicAdministrativeUnitType
Data Type	CharacterString
Definition	The use type of a "BasicAdministrativeUnit".
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.1
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.16 Basic Administrative Unit Context

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MABAUC
Name	Basic Administrative Unit Context
Alias	MA_BAUnitContext
CamelCase	basicAdministrativeUnitContext
Data Type	CharacterString
Definition	Description of the context for an instance of a "BasicAdministrativeUnit".
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.17 Right Restriction Responsibility Description

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARRRD
Name	Right Restriction Responsibility Description
Alias	MA_RRRDescription
CamelCase	rightRestrictionResponsibilitiesDescription
Data Type	CharacterString
Definition	Description regarding the "Right", "Restriction" or "Responsibility".
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.2
Similarity to Source	restyled
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.18 Right Restriction Responsibility Share

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARSHR
Name	Right Restriction Responsibility Share
Alias	MA_RRRShare
CamelCase	rightRestrictionResponsibilitiesShare
Data Type	CharacterString
Definition	A share in an instance of a subclass of a Right, Restriction or Responsibility.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.2
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.19 Right Restriction Responsibility Share Check

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARSHC
Name	Right Restriction Responsibility Share Check
Alias	MA_RRRShareCheck
CamelCase	rightRestrictionResponsibilitiesShareCheck
Data Type	Boolean
Definition	Boolean indicating whether the constraint is applicable.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.2
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.20 Right Restriction Responsibility Time Specification

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARRRT
Name	Right Restriction Responsibility Time Specification
Alias	MA_RRRtimeSpec
CamelCase	rightRestrictionResponsibilitiesTimeSpec
Data Type	CharacterString
Definition	Operational use of a right in time sharing.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.2
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.21 Right Type

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARIGT
Name	Right Type
Alias	MA_RightType
CamelCase	rightType
Data Type	Enumeration
Definition	The type of the right.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.3
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.22 Responsibility Type

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MAREST
Name	Responsibility Type
Alias	MA_ResponsibilityType
CamelCase	responsibilityType
Data Type	Enumeration
Definition	The type of the responsibility.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.5
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.23 Restriction Type

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARSTT
Name	Restriction Type
Alias	MA_RestrictionType
CamelCase	restrictionType
Data Type	Enumeration
Definition	The type of the restriction.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.9
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.24 Party Required

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MAPREQ
Name	Party Required
Alias	MA_PartyRequired
CamelCase	partyRequired
Data Type	Boolean
Definition	Indicates whether a party is required for the registration of the restriction.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.4
Similarity to Source	specilization
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.25 Party Name

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAPNAM
Name	Party Name
Alias	MA_PartyName
CamelCase	partyName
Data Type	CharacterString
Definition	The name of the party.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.3.1
Similarity to Source	identical
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.26 Party Role

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAPROL
Name	Party Role
Alias	MA_PartyRole
CamelCase	partyRole
Data Type	CharacterString
Definition	The role of the party.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.3.1
Similarity to Source	identical
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.27 Party Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAPTYP
Name	Party Type
Alias	MA_PartyType
CamelCase	partyType
Data Type	Party Type List
Definition	The type of party
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.3.1
Similarity to Source	identical
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.28 Party Group Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	
Name	Party Group Type
Alias	MA_PartyGroupType
CamelCase	partyGroupType
Data Type	Enumeration
Definition	The type of "partyGroup".
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.3.2
Similarity to Source	identical
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.29 Party Share

Item Type	Simple Attribute
Domain	MLB
AlphaCode	
Name	Party Share
Alias	MA_PartyShare
CamelCase	partyShare
Data Type	Real
Definition	The fraction of the whole.
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.30 Original Location

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAORGL
Name	Original Location
Alias	MA_OriginalLocation
CamelCase	originalLocation
Data Type	CharacterString
Definition	Reference location of a point when it was first established.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	This includes a description of the point as a textual string, so that the exact representation of the point may be maintained in terms of degrees and decimal degrees, or degrees, minutes and seconds, or other description. In the case of the original location this may be a description of meets and bounds or whatever is included in the treaty or other original document. A reference system (CRS) shall be included where available. Often a CRS is not available for original locations derived from very old treaties.
Quantity Specifications	

4.6.31 Official Location

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAOFFL
Name	Official Location
Alias	MA_OfficialLocation
CamelCase	officialLocation
Data Type	CharacterString
Definition	Official reference of the point.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	This is the official description of the point in a textual form, so that the exact representation of the point may be maintained in terms of degrees and decimal degrees, or degrees, minutes and seconds, or other description. A reference system (CRS) shall be included where available. A CRS is required, but it may only be included in the base text and therefore only included by reference through a Source object.
Quantity Specifications	

4.6.32 Common Location

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MACOML
Name	Common Location
Alias	MA_CommonLocation
CamelCase	commonLocation
Data Type	CharacterString
Definition	Common reference location of point in a datum that is defaulted to the other points in the dataset.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.33 Global Location

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAGLOL
Name	Global Location
Alias	MA_GlobalLocation
CamelCase	globalLocation
Data Type	CharacterString
Definition	Global reference to a point in a world global datum such ITRF2000.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.34 WGS84 Location

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAW GSL
Name	WGS84 Location
Alias	MA_wgs84Location
CamelCase	wgs84Location
Data Type	CharacterString
Definition	Reference to a point in global datum WGS84.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	This attribute is optional but it is requested for data deposited with DOALOS.
Quantity Specifications	

4.6.35 Volume Vertical Position

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAV POS
Name	Volume Vertical Position
Alias	MA_VerticalPosition
CamelCase	volumeVerticalPosition
Data Type	CharacterString
Definition	A reference point used to establish a bound for the vertical extent of a volume.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	GM_Point geometry as per IHO S100 Part 7 Spatial Schema, defining a reference from which to measure vertical extent.
Quantity Specifications	

4.6.36 Volume Vertical Extent

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAVEXT
Name	Volume Vertical Extent
Alias	MA_verticalExtent
CamelCase	volumeVerticalExtent
Data Type	Real
Definition	The vertical extent of a volume established as a distance measured against a vertical position reference point.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	Vertical extent is given in the units established through units of measure.
Quantity Specifications	

4.6.37 Textual Position

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MATXTP
Name	Textual Position
Alias	MA_TextualPosition
CamelCase	textualPosition
Data Type	CharacterString
Definition	A point coordinate values in a textual form.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.38 Reference System

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MALCRS
Name	Reference System
Alias	MA_ReferenceSystem
CamelCase	referenceSystem
Data Type	CharacterString
Definition	The attribute "ReferenceSystem" allows a CoordinateReferencingSystem (CRS) to optionally be specified at the "spatialAttributeTypeList" level.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	In many other S-100 based products the CRS is only defined at the metadata level and applies for the whole data set; however, in S-121 it is necessary to detail it right down to the specific instances of geometry since treaty points and lines may come from different sources such as different treaties that may use different CRS.
Quantity Specifications	

4.6.39 Interpolation Role

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAINTP
Name	Interpolation Role
Alias	MA_Interpolation Role
CamelCase	interpolationRole
Data Type	interpolationTypeList
Definition	The role of point in the structure of a "Straight" line or curve.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.6.1
Similarity to Source	identical
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.40 Location Object Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MALOBT
Name	Location Object Type
Alias	MA_LocationObjectType
CamelCase	locationObjectType
Data Type	locationTypeList
Definition	This attribute identifies which Feature Unit Location Object type this object refers to based on the feature catalogue.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.41 Point Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAPNTT
Name	Point Type
Alias	MA_PointType
CamelCase	pointType
Data Type	pointTypeList
Definition	The type of point.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.6.1
Similarity to Source	identical
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.42 Limit Object Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MALIMT
Name	Limit Object Type
Alias	MA_Limit Object Type
CamelCase	limitObjectType
Data Type	limitTypeList
Definition	This attribute identifies which Feature Unit LimitObject type this object refers to based on the feature catalogue.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.43 Arc Geometry Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAARTP
Name	Arc Geometry Type
Alias	MA_ArcGeometryType
CamelCase	arcGeometryType
Data Type	arcGeometryTypeList
Definition	Type of computation used to define an arc (line).
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.44 Zone Object Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAZONT
Name	Zone Object Type
Alias	MA_ZoneObjectType
CamelCase	zoneObjectType
Data Type	zoneTypeList
Definition	This attribute identifies which Feature Unit Zone Object type this object refers to based on the feature catalogue.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.45 Jurisdiction Domain Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAJDOM
Name	Jurisdiction Domain Type
Alias	MA_JurisdictionDomainType
CamelCase	jurisdictionDomainType
Data Type	jurisdictionDomainTypeList
Definition	Defines the vertical jurisdictional domain of the object delimited.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.46 Area Value

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAAREA
Name	Area Value
Alias	MA_AreaValue
CamelCase	areaValue
Data Type	LA_AreaValue
Definition	The area value.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.5.1
Similarity to Source	identical
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.47 Reference Point

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAREFP
Name	Reference Point
Alias	MA_ReferencePoint
CamelCase	referencePoint
Data Type	GM_Point
Definition	The coordinates of a point inside the spatial unit
Reference	ISO 19107 and S-100
Definition Source	ISO 19152:2012 clause 6.5.1
Similarity to Source	identical
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.48 Surface Relation

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASURR
Name	Surface Relation
Alias	MA_SurfaceRelation
CamelCase	surfaceRelation
Data Type	LA_SurfaceRelationType
Definition	Relationship to surface.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.5.1
Similarity to Source	generalization
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.49 Space Object Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASPOT
Name	Space Object Type
Alias	MA_SpaceObjectType
CamelCase	spaceObjectType
Data Type	spaceTypeList
Definition	This attribute identifies which Feature Unit Space Object type this object refers to based on the feature catalogue.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.50 Volume Value

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASUUR
Name	Volume Value
Alias	MA_VolumeValue
CamelCase	volumeValue
Data Type	LA_VolumeValue
Definition	The volume of the 3D spatial unit.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.5.1
Similarity to Source	identical
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.51 Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MATYPE
Name	Type
Alias	MA_Type
CamelCase	type
Data Type	LA_VolumeType or LA_AreaType
Definition	Indicates the type of area or volume provided.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.5.7
Similarity to Source	generalization
Int1	
S-4	
Remarks	This attribute is derived directly from ISO 19152 and is used in classes derived from ISO 19152. In S-121 this attribute is used in the two classes LA_VolumeValue and LA_AreaValue and relates to the two attribute data types LA_VolumeType and LA_AreaType respectively. Since the term "type" is such a generic word, the meaning of this attribute must be constrained to only the S-121 MLB namespace.
Quantity Specifications	

4.6.52 Volume Size

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAVSIZ
Name	Volume Size
Alias	MA_VolumeSize
CamelCase	volumeSize
Data Type	Real
Definition	Indicates the value of the volume.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.5.7
Similarity to Source	generalization
Int1	
S-4	
Remarks	This attribute is derived directly from ISO 19152 and is used in classes derived from ISO 19152.
Quantity Specifications	

4.6.53 Area Size

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAASIZ
Name	Area Size
Alias	MA_AreaSize
CamelCase	areaSize
Data Type	Real
Definition	Indicates the value of the area.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.5.7
Similarity to Source	generalization
Int1	
S-4	
Remarks	This attribute is derived directly from ISO 19152 and is used in classes derived from ISO 19152.
Quantity Specifications	

4.6.54 Source Administrative Date Stamp

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASASD
Name	Source Administrative Date Stamp
Alias	MA_SourceAdministrativeDateStamp
CamelCase	sourceAdministrativeDateStamp
Data Type	DateTime
Definition	The moment that the event represented by the instance of "Source" is further processed.
Reference	ISO 19152
Definition Source	ISO 19152:2014 clause 6.2.4
Similarity to Source	specialization
Int1	
S-4	
Remarks	This is the moment of "endLifespan" of old instances, and the moment of "startLifespan" of new instances.
Quantity Specifications	

4.6.55 Source Authoritative Date

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAACPT
Name	Source Authoritative Date
Alias	MA_SourceAuthoritiveDate
CamelCase	sourceAuthoritiveDate
Data Type	DateTime
Definition	The date of force of law of the "Source" by an authority.
Reference	ISO 19152
Definition Source	ISO 19152:2014 clause 6.2.4
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.56 Source Document Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASODT
Name	Source Document Type
Alias	MA_SourceDocumentType
CamelCase	sourceDocumentType
Data Type	CharacterString
Definition	The type of document.
Reference	ISO 19152; ISO 19115
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	In ISO 19152 the equivalent attribute takes its value from ISO 19115 metadata from the class CI_PresentationFormCode. This part of the ISO metadata standard is not included in S-100 Part 4 - Metadata. Therefore a free form character string is provided as the data type.
Quantity Specifications	

4.6.57 Source Availability Status

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASLSS
Name	Source Availability Status
Alias	MA_SourceAvailabilityStatus
CamelCase	sourceAvailabilityStatus
Data Type	LA_AvailableStatusType
Definition	The availability status of source document.
Reference	ISO 19152
Definition Source	ISO 19152 clause 6.2.4
Similarity to Source	restyled
Int1	
S-4	
Remarks	The code list is taken directly for ISO 19152.
Quantity Specifications	

4.6.58 Administrative Source Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAASTY
Name	Administrative Source Type
Alias	MA_AdministrativeSourceType
CamelCase	administrativeSourceType
Data Type	administrativeSourceTypeList
Definition	The type of administrative "Source" document.
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.59 Spatial Source Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASSTY
Name	Spatial Source Type
Alias	MA_SpatialSourceType
CamelCase	spatialSourceType
Data Type	spatialSourceTypeList
Definition	The type of spatial "Source" document.
Reference:	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.60 Source Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASTYP
Name	Source Type
Alias	MA_SourceType
CamelCase	sourceType
Data Type	CharacterString
Definition	The type of "Source" document.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	Allows for generic sources other than "spatialSourceType" or "administrativeSourceType".
Quantity Specifications	

4.6.61 Source Reference

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASOUR
Name	Source Reference
Alias	MA_SourceReference
CamelCase	sourceReference
Data Type	S121_ResponsibleParty
Definition	The responsible party of the "Source".
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.2.4
Similarity to Source	restyled
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.62 Source Quality

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASODQ
Name	Source Quality
Alias	MA_SourceQuality
CamelCase	sourceQuality
Data Type	DQ_Element
Definition	The quality of the "Source".
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.2.4
Similarity to Source	restyled
Int1	
S-4	
Remarks	This attribute value type is inherited directly from ISO 19115 Metadata and the code list values are described in the ISO document. S-100 also used DQ_Element directly from ISO 19115.
The DQ_Element attributes are	"nameOfMeasure", "measureIdentification", "measureDescription", "evaluationMethodType", "evaluationMethodDescription", "evaluationProcedure", "dateTime", "result".
Quantity Specifications	

4.6.63 Source Submission Date

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASOSU
Name	Source Submission Date
Alias	MA_SourceSubmissionDate
CamelCase	sourceSubmissionDate
Data Type	DateTime
Definition	The date of submission of the "Source" by a party.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.2.4
Similarity to Source	restyled
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.64 Source External Archive Identifier

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MAEXAI
Name	Source External Archive Identifier
Alias	MA_ExternalArchiveID
CamelCase	sourceExternalArchivIdentifier
Data Type	ExtArchive
Definition	The identifier of a "Source" in an external registration.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.2.4
Similarity to Source	restyled
Int1	
S-4	
Remarks	The code list is taken directly for ISO 19152.
Quantity Specifications	

4.6.65 Source Registration Date

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASORC
Name	Source Registration Date
Alias	MA_SourceRecordation
CamelCase	sourceRecordation
Data Type	DateTime
Definition	The date of registration (recordation) of the "Source" by registering authority.
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.66 Source Document Name

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MASODN
Name	Source Document Name
Alias	MA_SourceDocumentName
CamelCase	sourceDocumentName
Data Type	CharacterString
Definition	Name of the document that defines the object - for example the document (legislation, treaty, title).
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.67 Source Online Resource

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASURL
Name	Source Online Resource
Alias	MA_SourceOnlineResource
CamelCase	sourceOnlineResource
Data Type	onlineResource
Definition	URL - this is official the URL (or equivalent online resource) where the document is distributed.
Reference	ISO 19115
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.68 Source Registry Number

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MASORN
Name	Source Registry Number
Alias	MA_SourceRegistryNumber
CamelCase	sourceRegistryNumber
Data Type	CharacterString
Definition	Unique official identifier of the record in a registry.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	For example, in states with registers of legislative instruments, versioning is controlled by the registry ID.
Quantity Specifications	

4.6.69 Acceptance

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MAACCPT
Name	Acceptance
Alias	MA_Acceptance
CamelCase	acceptance
Data Type	DateTime
Definition	The date of force of law of the source by the authority.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause Annex K.10
Similarity to Source	identical
Int1	
S-4	
Remarks	This attribute is derived directly from the ExArchive class of ISO 19152. Since the term is so generic it should be restricted to the meaning within the MLB context.
Quantity Specifications	

4.6.70 Data

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MADATA
Name	Data
Alias	MA_ExternalArchiveData
CamelCase	data
Data Type	CharacterString
Definition	The content of the source.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause Annex K.10
Similarity to Source	identical
Int1	
S-4	
Remarks	This attribute is derived directly from the ExArchive class of ISO 19152. Since the term is so generic it should be restricted to the meaning within the MLB context. The data may include multilingual text per ISO 19115 Annex J (Localization).
Quantity Specifications	

4.6.71 Extraction

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MAEXTR
Name	Extraction
Alias	MA_ExternalArchiveExtraction
CamelCase	extraction
Data Type	DateTime
Definition	The date the source was consulted.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause Annex K.10
Similarity to Source	identical
Int1	
S-4	
Remarks	This attribute is derived directly from the ExArchive class of ISO 19152. Since the term is so generic it should be restricted to the meaning within the MLB context.
Quantity Specifications	

4.6.72 Recordation

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARECR
Name	Recordation
Alias	MA_ExternalArchiveRecordation
CamelCase	recordation
Data Type	DateTime
Definition	The date of registration (recordation) of the source by registering authority.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause Annex K.10
Similarity to Source	identical
Int1	
S-4	
Remarks	This attribute is derived directly from the ExArchive class of ISO 19152. Since the term is so generic it should be restricted to the meaning within the MLB context.
Quantity Specifications:	

4.6.73 Submission

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MASUBM
Name	Submission
Alias	MA_ExternalArchiveSubmission
CamelCase	submission
Data Type	DateTime
Definition	The date of submission of the source by a party.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause Annex K.10
Similarity to Source	identical
Int1	
S-4	
Remarks	This attribute is derived directly from the ExArchive class of ISO 19152. Since the term is so generic it should be restricted to the meaning within the MLB context.
Quantity Specifications	

4.6.74 Online Resource Linkage URL

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARURL
Name	Online Resource Linkage URL
Alias	MA_OnlineResourceLinkageURL
CamelCase	onlineResourceLinkageURL
Data Type	CharacterString
Definition	Universal Resource Locator (URL) of the online resource.
Reference	ISO 19115
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.75 Online Resource Protocol

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARPRO
Name	Online Resource Protocol
Alias	MA_Online Resource Protocol
CamelCase	onlineResourceProtocol
Data Type	CharacterString
Definition	Protocol used by the online resource.
Reference	ISO 19115
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.76 Online Resource Application Profile

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MAAPPR
Name	Online Resource Application Profile
Alias	MA_OnlineResourceApplicationProfile
CamelCase	onlineResourceApplicationProfile
Data Type	CharacterString
Definition	Application Profile of the online resource.
Reference	ISO 19115
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.77 Online Resource Name

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MAOLNM
Name	Online Resource Name
Alias	MA_OnlineResourceName
CamelCase	onlineResourceName
Data Type	CharacterString
Definition	Name of the online resource.
Reference	ISO 19115
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.78 Online Resource Description

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MAORDS
Name	Online Resource Description
Alias	MA_OnlineResourceDescription
CamelCase	onlineResourceDescription
Data Type	CharacterString
Definition	Universal Resource Locator (URL) of the online resource.
Reference	ISO 19115
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.79 Online Resource Function

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MAORFN
Name	Online Resource Function
Alias	MA_OnlineResourceFunction
CamelCase	onlineResourceFunction
Data Type	CI_OnlineFunctionCode
Definition	Function of the online resource.
Reference	ISO 19115
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	The code list CI_OnlineFunctionCode is derived from ISO 19115 metadata.

4.7 S-121 Data Types

4.7.1 Area Value

Item Type	Data Type
Domain	MLB
AlphaCode	LAARAV
Name	LA_AreaValue
Alias	Area Value
CamelCase	areaValue
Data Type	
Definition	Area of the 2D object.
Reference	ISO19152:2012
Definition Source	ISO19152:2012 clause 6.5.7
Similarity to Source	specialization
Int1	
S-4	
Remarks	Derived directly from ISO 19152
Quantity Specifications	

4.7.2 Volume Value

Item Type	Data Type
Domain	MLB
AlphaCode	LAVOLV
Name	LA_VolumeValue
Alias	Volume Value
CamelCase	volumeValue
Data Type	
Definition	Volume of the 3D object.
Reference	ISO19152:2012
Definition Source	ISO19152:2012 clause 6.5.7
Similarity to Source	Specialization
Int1	
S-4	
Remarks	Derived directly from ISO 19152
Quantity Specifications	

4.7.3 Location Reference

Item Type	Data Type
Domain	MLB
AlphaCode	MALORE
Name	Location Reference
Alias	
CamelCase	locationReference
Data Type	
Definition	This data type provides information about a point location.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.7.4 Online Resource

Item Type	Data Type
Domain	MLB
AlphaCode	MAOLRS
Name	Online Resource
Alias	MA_OnlineResource
CamelCase	onlineResource
Data Type	
Definition	This data type provides describes an online resource.
Reference	ISO_19115
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	Online Resource derives from the ISO 19115 metadata standard.
Quantity Specifications	

4.8 S-121 Type Lists

4.8.1 Location Type List

Item Type	Code List
Proposal Type	Addition
Domain	MLB
Name	Location Type List
Alias	MA_LocationTypeList
CamelCase	locationTypeList
Code List Type	open enumeration
URI	
Encoding	
Definition	This code list describes categories of "LocationType" that have a common characteristic related to the administrative aspects of the marine environment. In effect this list consist of all S-121 features under the location type classes.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	The code list is registered in the IHO GI Registry as listed values and can be extended as needed.

4.8.2 Limit Type List

Item Type	Code List
Proposal Type	Addition
Domain	MLB
Name	Limit Type List
Alias	MA_LimitTypeList
CamelCase	limitTypeList
Code List Type	open enumeration
URI	
Encoding	
Definition	This code list describes categories of "LimitType" that have a common characteristic related to the administrative aspects of the marine environment. In effect this list consist of all S-121 feature unit limit type classes.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	The code list is registered in the IHO GI Registry as listed values and can be extended as needed.

4.8.3 Zone Type List

Item Type	Code List
Proposal Type	Addition
Domain	MLB
Name	Feature Unit Type List
Alias	MA_featureUnitTypeList
CamelCase	featureUnitTypeList
Code List Type	open enumeration
URI	
Encoding	
Definition	This code list describes categories of "ZoneType" that have a common characteristic related to the administrative aspects of the marine environment. In effect this list consist of all S-121 feature unit zone type classes.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	The code list is registered in the IHO GI Registry as listed values and can be extended as needed.

4.8.4 Space Type List

Item Type	Code List
Proposal Type	Addition
Domain	MLB
Name	Space Type List
Alias	MA_SpaceTypeList
CamelCase	spaceTypeList
Code List Type	open enumeration
URI	
Encoding	
Definition	This code list describes categories of "SpaceType" that have a common characteristic related to the administrative aspects of the marine environment. In effect this list consist of all S-121 feature unit space type classes.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	The code list is registered in the IHO GI Registry as listed values and can be extended as needed.

4.8.5 Jurisdiction Domain Type List

Item Type	Code List
Domain	MLB
Associated Attribute	jurisdictionDomainType
Name	Jurisdiction Domain Type List
Alias	MA_JurisdictionDomainTypeList
CamelCase	jurisdictionDomainTypeList
Code List Type	open enumeration
URI	
Encoding	
Definition	Defines the vertical juridical domain of the object delimited, based on a breakdown of vertical jurisdictions used in UNCLOS.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	Any particular object may span more than one jurisdiction domain.

4.8.6 Releasability Type List

Item Type	Code List
Domain	MLB
Associated Attribute	releasabilityType
Name	Releasability Type List
Alias	MA_ReleasabilityTypeList
CamelCase	releasabilityTypeList
Code List Type	Open Enumeration
URI	
Encoding	
Definition	A list of value providing a releasability status for the "FeatureUnit" described.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.8.7 Arc Geometry Type List

Item Type	Code List
Domain	MLB
Associated Attribute	arcGeometryType
Name	Arc Geometry Type List
Alias	MA_ArcGeometryTypeList
CamelCase	arcGeometryTypeList
Code List Type	open enumeration
URI	
Encoding	
Definition	This code list describes the category of lines or arcs that can be represented on the surface of the ellipsoid.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.8.8 Spatial Source Type List

Item Type	Code List
Domain	MLB
Name	Spatial Source Type List
Alias	MA_SpatialSourceTypeList
CamelCase	spatialSourceTypeList
Code List Type	open enumeration
URI	
Encoding	
Definition	Category of "spatialSourceType".
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.6.6
Similarity to Source	
Int1	
S-4	
Remarks	

4.8.9 Administrative Source Type List

Item Type	Code List
Domain	MLB
Associated Attribute	administrativeSourceType
Name	Administrative Source Type List
Alias	MA_AdministrativeSourceTypeList
CamelCase	administrativeSourceTypeList
Code List Type	open enumeration
URI	
Encoding	
Definition	Category of "administrativeSourceType".
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	The code list includes: "internationalAgreement", "domesticLegislativeInstrument", "domesticAdministration".

4.8.10 Party Type List

Item Type	Code List
Domain	MLB
Name	Party Type List
Alias	MA_PartyTypeList
CamelCase	partyTypeList
Code List Type	open enumeration
URI	
Encoding	
Definition	This code list describes categories of "partyType".
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.3.1
Similarity to Source	specialization
Int1	
S-4	
Remarks	The code list is registered in the IHO GI Registry as listed values and as such can be expanded to include all party types.

4.8.11 Party Group Type List

Item Type	Code List
Domain	MLB
Name	Party Group Type List
Alias	MA_PartyGroupTypeList
CamelCase	partyGroupTypeList
Code List Type	open enumeration
URI	
Encoding	
Definition	This code list describes categories of "partyGroupType".
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.3.2
Similarity to Source	specialization
Int1	
S-4	
Remarks	The code list is registered in the IHO GI Registry as listed values and as such can be expanded to include all administrative types.

4.8.12 Basic Administrative Unit Type List

Item Type	Code List
Domain	MLB
Name	Basic Administrative Unit Type List
Alias	MA_basicAdministrativeUnitTypeList
CamelCase	basicAdministrativeUnitTypeList
Code List Type	open enumeration
URI	
Encoding	
Definition	Categories of "basicAdministrativeUnitType".
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	The code list includes: "maritimeLimitsAndBoundaries".

4.8.13 LA Availability Status Type

Item Type	Code List
Domain	MLB
Associated Attribute	sourceAvailabilityStatus
Name	LA Availability Status Type
Alias	MAAVST
CamelCase	LA_AvailabilityStatusType
Code List Type	open enumeration
URI	
Encoding	
Definition	Category of " sourceAvailabilityStatus ".
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.9
Similarity to Source	specialization
Int1	
S-4	
Remarks	Derived directly from the ISO 19152 standard. Values are "archiveConverted", "archiveDestroyed", "archiveIncomplete", "archiveUnknown", "docAvailable".

4.8.14 LA Surface Relation Type

Item Type	Code List
Domain	MLB
Associated Attribute	MASURT
Name	LA Surface Relation Type
Alias	MA_surfaceRelationType
CamelCase	surfaceRelationType
Code List Type	open enumeration
URI	
Encoding	
Definition	This data type provides information about the relationship to the surface.
Reference	ISO 19152
Definition Source	ISO 19152 clause 6.5.8
Similarity to Source	identical
Int1	
S-4	
Remarks	This code list is taken directly from ISO 19152.

4.8.15 LA Volume Type

Item Type	Code List
Domain	MLB
Associated Attribute	MAVOLT
Name	LA Volume Type
Alias	MA_volumeType
CamelCase	volumeType
Code List Type	open enumeration
URI	
Encoding	
Definition	Description of the type of volume.
Reference	ISO 19152
Definition Source	ISO 19152 clause 6.5.8
Similarity to Source	generalization
Int1	
S-4	
Remarks	This code list is taken directly from ISO 19152.

4.8.16 LA Area Type

Item Type	Code List
Domain	MLB
Associated Attribute	MAARTY
Name	LA Area Type
Alias	MA_areaType
CamelCase	areaType
Code List Type	open enumeration
URI	
Encoding	
Definition	Description of the type of volume.
Reference	ISO 19152
Definition Source	ISO 19152 clause 6.5.8
Similarity to Source	generalization
Int1	
S-4	
Remarks	This code list is taken directly from ISO 19152.

4.8.17 LA Interpolation Type

Item Type	Code List
Domain	ISO 19152
Associated Attribute	arcGeometry
Name	Arc Interpolation Type
Alias	MA_InterpolationTypeList
CamelCase	LA_InterpolationType
Code List Type	open enumeration
URI	
Encoding	
Definition	Interpolation Types.
Reference	ISO 19152
Definition Source	ISO 19152 clause 6.5.8
Similarity to Source	generalization
Int1	
S-4	
Remarks	This code list derives directly from ISO 19152.

4.8.18 LA Point Type

Item Type	Code List
Domain	ISO 19152
Associated Attribute	pointType
Name	Point Type
Alias	MA_PointType
CamelCase	LA_PointType
Code List Type	closed enumeration (source, control, noSource)
URI	
Encoding	
Definition	Point Types.
Reference	ISO 19152
Definition Source	ISO 19152 clause 6.5.8
Similarity to Source	generalization
Int1	
S-4	
Remarks	This code list derives directly from ISO 19152.

4.8.19 CI_OnlineFunctionCode

Item Type	Code List
Domain	MLB
Associated Attribute	ronlineResourceFunction
Name	CI_OnlineFunctionCode
Alias	MA_CI_OnlineFunctionCode
CamelCase	onlineFunctionCode
Code List Type	open enumeration
URI	
Encoding	
Definition	Function performed by the resource.
Reference	ISO 19115
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks:	Derived directly from the ISO 19115 standard. Values are "download", "information", offlineAccess", "order", "search".

4.9 S-121 Listed Values

4.9.1 -- Releasability Type List

4.9.1.1 Official

Item Type	Code List Value
Domain	MLB
Associated Attribute	releasabilityTypeList
Name	Official
Alias	
CamelCase	official
Definition	Describes a "FeatureUnit" that can be officially released.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.1.2 Internal

Item Type	Code List Value
Domain	MLB
Associated Attribute	releasabilityTypeList
Name	Internal
Alias	
CamelCase	internal
Definition	Describes a "FeatureUnit" that can only be released internally.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.1.3 Controlled

Item Type	Code List Value
Domain	MLB
Associated Attribute	releasabilityTypeList
Name	Controlled
Alias	
CamelCase	controlled
Definition	Describes a "FeatureUnit" that bears security restrictions.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.2 -- LA_SurfaceRelationType

4.9.2.1 Mixed

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_surfaceRelationType
Name	Mixed
Alias	
CamelCase	mixed
Definition	Relationship of spatial unit to surface. Mixed relationship.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.2.2 Below

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_surfaceRelationType
Name	Below
Alias	
CamelCase	below
Definition	Relationship of spatial unit to surface. Below Surface.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.2.3 Above

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_surfaceRelationType
Name	Above
Alias	
CamelCase	above
Definition	Relationship of spatial unit to surface. Above surface.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.2.4 On Surface

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_surfaceRelationType
Name	On Surface
Alias	
CamelCase	onSurface
Definition	Relationship of spatial unit to surface. On surface.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.3 -- Basic Administrative Unit Type List

4.9.3.1 Maritime Limits and Boundaries

Item Type	Code List Value
Domain	MLB
Associated Attribute	basicAdministrativeUnitTypeList
Name	Maritime Limits and Boundaries
Alias	
CamelCase	maritimeLimitsAndBoundaries
Definition	Administrative Unit relates to "Maritime Limits and Boundaries".
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.4 -- Location Type List

4.9.4.1 Location

Item Type	Code List Value
Domain	MLB
Associated Attribute	locationTypeList
Name	Location
Alias	
CamelCase	location
Definition	Identifier that a Feature Unit is of type generic Location.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.4.2 Baseline Point

Item Type	Code List Value
Domain	MLB
Associated Attribute	locationTypeList
Name	Baseline Point
Alias	
CamelCase	baselinePoint
Definition	Identifier that a Feature Unit is of type Baseline Point.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.4.3 Contributing Point

Item Type	Code List Value
Domain	MLB
Associated Attribute	locationTypeList
Name	Contributing Point
Alias	
CamelCase	contributingPoint
Definition	Identifier that a Feature Unit is of type Contributing Point
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.4.4 Limit Point

Item Type	Code List Value
Domain	MLB
Associated Attribute	locationTypeList
Name	Limit Point
Alias	
CamelCase	limitPoint
Definition	Identifier that a Feature Unit is of type Limit Point.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.4.5 Boundary Point

Item Type	Code List Value
Domain	MLB
Associated Attribute	locationTypeList
Name	Boundary Point
Alias	
CamelCase	boundaryPoint
Definition	Identifier that a Feature Unit is of type Boundary Point.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5 -- Limit Type List

4.9.5.1 Limit

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Limit
Alias	
CamelCase	limit
Definition	Identifier that a Feature Unit is of type generic Limit.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.2 International Boundary

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	International Boundary
Alias	
CamelCase	internationalBoundary
Definition	Identifier that a Feature Unit is of type International Boundary.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.3 Baseline

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Baseline
Alias	
CamelCase	baseline
Definition	Identifier that a Feature Unit is of type Baseline.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.4 Archipelagic Baseline

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Archipelagic Baseline
Alias	
CamelCase	archipelagicBaseline
Definition	Identifier that a Feature Unit is of type Archipelagic Baseline.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.5 Bays

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Bays
Alias	
CamelCase	baysBaseline
Definition	Identifier that a Feature Unit is of type Bays baseline.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.6 Normal Baseline

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Normal Baseline
Alias	
CamelCase	normalBaseline
Definition	Identifier that a Feature Unit is of type Normal Baseline.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.7 Straight Baselines

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Straight Baselines
Alias	
CamelCase	straightBaselines
Definition	Identifier that a Feature Unit is of type Straight Baselines.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.8 Low-Tide Elevations

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Low-Tide Elevations
Alias	
CamelCase	lowTideElevationsBaseline
Definition	Identifier that a Feature Unit is of type Low-Tide Elevations baseline.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.9 Mouths of Rivers

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Mouths of Rivers
Alias	
CamelCase	mouthsOfRiversBaseline
Definition	Identifier that a Feature Unit is of type Mouths of Rivers baseline.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.10 Ports

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Ports
Alias	
CamelCase	portsBaseline
Definition	Identifier that a Feature Unit is of type Ports baseline.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.11 Reefs

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Reefs
Alias	
CamelCase	reefsBaseline
Definition	Identifier that a Feature Unit is of type Reefs baseline.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.12 Outer Limit of the Territorial Sea

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Outer Limit of the Territorial Sea
Alias	
CamelCase	outerLimitOfTheTerritorialSea
Definition	Identifier that a Feature Unit is of type Outer Limit of the Territorial Sea.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.13 Outer Limit of the Contiguous Zone

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Outer Limit of the Contiguous Zone
Alias	
CamelCase	outerLimitOfTheContiguousZone
Definition	Identifier that a Feature Unit is of type Outer Limit of the Contiguous Zone.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.14 Outer Limit of the Exclusive Economic Zone

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Outer Limit of the Exclusive Economic Zone
Alias	
CamelCase	outerLimitOfTheExclusiveEconomicZone
Definition	Identifier that a Feature Unit is of type Outer Limit of the Exclusive Economic Zone.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.15 Outer Limit of the Continental Shelf

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Outer Limit of the Continental Shelf
Alias	
CamelCase	outerLimitOfTheContinentalShelf
Definition	Identifier that a Feature Unit is of type Outer Limit of the Continental Shelf.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.16 Outer Limit of the Roadstead

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Outer Limit of the Roadstead
Alias	
CamelCase	outerLimitOfTheRoadstead
Definition	Identifier that a Feature Unit is of type Outer Limit of the Roadstead.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.5.17 Construction Line

Item Type	Code List Value
Domain	MLB
Associated Attribute	limitTypeList
Name	Construction Line
Alias	
CamelCase	constructionLine
Definition	Identifier that a Feature Unit is of type Construction Line.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.6 -- Zone Type List

4.9.6.1 Zone

Item Type	Code List Value
Domain	MLB
Associated Attribute	zoneTypeList
Name	Zone
Alias	
CamelCase	zone
Definition	Identifier that a Feature Unit is of type generic Zone.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.6.2 Internal Waters

Item Type	Code List Value
Domain	MLB
Associated Attribute	zoneTypeList
Name	Internal Waters
Alias	
CamelCase	internalWaters
Definition	Identifier that a Feature Unit is of type Internal Waters.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.6.3 Archipelagic Waters

Item Type	Code List Value
Domain	MLB
Associated Attribute	zoneTypeList
Name	Archipelagic Waters
Alias	
CamelCase	archipelagicWaters
Definition	Identifier that a Feature Unit is of type Archipelagic Waters.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.6.4 Territorial Sea

Item Type	Code List Value
Domain	MLB
Associated Attribute	zoneTypeList
Name	Territorial Sea
Alias	
CamelCase	territorialSea
Definition	Identifier that a Feature Unit is of type Territorial Sea.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.6.5 Roadsteads

Item Type	Code List Value
Domain	MLB
Associated Attribute	zoneTypeList
Name	Roadsteads
Alias	
CamelCase	roadsteads
Definition	Identifier that a Feature Unit is of type Roadstead.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.6.6 Contiguous Zone

Item Type	Code List Value
Domain	MLB
Associated Attribute	zoneTypeList
Name	Contiguous Zone
Alias	
CamelCase	contiguousZone
Definition	Identifier that a Feature Unit is of type Contiguous Zone.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.6.7 Exclusive Economic Zone

Item Type	Code List Value
Domain	MLB
Associated Attribute	zoneTypeList
Name	Exclusive Economic Zone
Alias	
CamelCase	exclusiveEconomicZone
Definition	Identifier that a Feature Unit is of type Exclusive Economic Zone.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.6.8 Continental Shelf

Item Type	Code List Value
Domain	MLB
Associated Attribute	zoneTypeList
Name	Continental Shelf
Alias	
CamelCase	continentalShelf
Definition	Identifier that a Feature Unit is of type Continental Shelf.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.6.9 High Seas

Item Type	Code List Value
Domain	MLB
Associated Attribute	zoneTypeList
Name	High Seas
Alias	
CamelCase	highSeas
Definition	Identifier that a Feature Unit is of type High Seas.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.6.10 The Area

Item Type	Code List Value
Domain	MLB
Associated Attribute	zoneTypeList
Name	The Area
Alias	
CamelCase	theArea
Definition	Identifier that a Feature Unit is of type The Area.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.7 -- Space Type List

4.9.7.1 Space

Item Type	Code List Value
Domain	MLB
Associated Attribute	spaceTypeList
Name	Space
Alias	
CamelCase	space
Definition	Identifier that a Feature Unit is of type generic Space.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.8 -- Interpolation Type List

4.9.8.1 Deflection

Item Type	Code List Value
Domain	MLB
Associated Attribute	interpolationTypeList
Name	Deflection
Alias	
CamelCase	deflection
Definition	A turning point along a line.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.8.2 Densification

Item Type	Code List Value
Domain	MLB
Associated Attribute	interpolationTypeList
Name	Densification
Alias	
CamelCase	Densification
Definition	Describes a location that densifies a line to ensure the geometry of a feature is correctly represented.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.9 -- Point Type List

4.9.9.1 Defined

Item Type	Code List Value
Domain	MLB
Associated Attribute	pointTypeList
Name	Defined
Alias	
CamelCase	defined
Definition	Describes a "Location" that is derived from a legislative document or other definitive sources.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.9.2 Computed

Item Type	Code List Value
Domain	MLB
Associated Attribute	pointTypeList
Name	Computed
Alias	
CamelCase	computed
Definition	Describes a location that is computed in accordance with the definition described in the source through proper geodetic calculations; for example, the intersection of two arcs over an ellipsoidal surface. A point may be established to support construction computations.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.10 -- Arc Geometry Type List

4.9.10.1 Geodesic

Item Type	Code List Value
Domain	MLB
Associated Attribute	arcGeometryTypeList
Name	Geodesic
Alias	
CamelCase	geodesic
Definition	Describes a path of shortest distance along the surface of an ellipsoid.
Reference	
Definition Source	
Similarity to Source	
Int1	
S4	
Remarks	

4.9.10.2 Loxodrome

Item Type	Code List Value
Domain	MLB
Associated Attribute	arcGeometryTypeList
Name	Loxodrome
Alias	
CamelCase	loxodrome
Definition	Describes an arc crossing all meridians of longitude at the same angle; a path with constant bearing.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.11 -- Jurisdiction Domain Type List

4.9.11.1 Airspace

Item Type	Code List Value
Domain	MLB
Associated Attribute	jurisdictionDomainTypeList
Name	Airspace
Alias	
CamelCase	airspace
Definition	Describes a space in the air above the "landSurface" or "waterSurface".
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.11.2 Land Surface

Item Type	Code List Value
Domain	MLB
Associated Attribute	jurisdictionDomainTypeList
Name	Land Surface
Alias	
CamelCase	landSurface
Definition	Describe the interface between "subsoil" and "airspace".
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.11.3 Water Surface

Item Type	Code List Value
Domain	MLB
Associated Attribute	jurisdictionDomainTypeList
Name	Water Surface
Alias	
CamelCase	waterSurface
Definition	Describe the interface between the "airspace" and "waterColumn".
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.11.4 Water Column

Item Type	Code List Value
Domain	MLB
Associated Attribute	jurisdictionDomainTypeList
Name	Water Column
Alias	
CamelCase	waterColumn
Definition	Describes a space from the "seabedSurface" up to the "waterSurface".
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.11.5 Seabed Surface

Item Type	Code List Value
Domain	MLB
Associated Attribute	jurisdictionDomainTypeList
Name	Seabed Surface
Alias	
CamelCase	seabedSurface
Definition	Describes the interface between the "waterColumn" and the "subsoil", submerged land surface found under the oceans.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.11.6 Subsoil

Item Type	Code List Value
Domain	MLB
Associated Attribute	jurisdictionDomainTypeList
Name	Subsoil
Alias	
CamelCase	subsoil
Definition	Describes a space below the "landSurface" and the "seabedSurface".
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.12 -- Administrative Source Type List

4.9.12.1 International Agreement

Item Type	Code List Value
Domain	MLB
Associated Attribute	administrativeSourceTypeList
Name	International Agreement
Alias	
CamelCase	internationalAgreement
Definition	Describes an international agreement for example: Treaty, Agreement, MOU (Memorandum of Understanding), Exchange of letters.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.12.2 Domestic Legislative Instrument

Item Type	Code List Value
Domain	MLB
Associated Attribute	administrativeSourceTypeList
Name	Domestic Legislative Instrument
Alias	
CamelCase	domesticLegislativeInstrument
Definition	Defines a source describing a primary and secondary legislative processes and domestic implementations of treaties.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.12.3 Domestic Administrative

Item Type	Code List Value
Domain	MLB
Associated Attribute	administrativeSourceTypeList
Name	Domestic Administrative
Alias	
CamelCase	domesticAdministrative
Definition	Defines a source that is based under a legislative framework by the authority given under domestic legislation; for example, petroleum permits.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.13 -- Spatial Source Type List

4.9.13.1 Field Sketch

Item Type	Code List Value
Domain	MLB
Associated Attribute	spatialSourceTypeList
Name	Field Sketch
Alias	
CamelCase	fieldSketch
Definition	Source data collected from hydrographer's or mapper's field sketch.
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.13.2 GNSS Survey

Item Type	Code List Value
Domain	MLB
Associated Attribute	SpatialSourceTypeList
Name	GNSS Survey
Alias	
CamelCase	gnssSurvey
Definition	Source data collected from GNSS satellite positioning.
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.13.3 Relative Measurement

Item Type	Code List Value
Domain	MLB
Associated Attribute	SpatialSourceTypeList
Name	Relative Measurement
Alias	
CamelCase	relativeMeasurement
Definition	Source data collected based on relative measurement.
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.13.4 Orthographic Photo

Item Type	Code List Value
Domain	MLB
Associated Attribute	SpatialSourceTypeList
Name	Orthographic Photo
Alias	
CamelCase	orthoPhoto
Definition	Source data collected base on "Orthographic Photo".
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.13.5 Satellite Imagery

Item Type	Code List Value
Domain	MLB
Associated Attribute	SpatialSourceTypeList
Name	Satellite Imagery
camelCaseCode	satelliteImagery
Definition	Source data collected base on "Satellite Imagery".
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.13.6 Topographic Map

Item Type	Code List Value
Domain	MLB
Associated Attribute	SpatialSourceTypeList
Name	Topographic Map
Alias	
CamelCase	topographicMap
Definition	Source data collected base on "Topographic Map" data.
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.13.7 LiDAR Survey

Item Type	Code List Value
Domain	MLB
Associated Attribute	SpatialSourceTypeList
Name	LiDAR Survey
Alias	
CamelCase	lidarSurvey
Definition	Source data collected from a "LiDAR Survey".
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.13.8 Video

Item Type	Code List Value
Domain	MLB
Associated Attribute	SpatialSourceTypeList
Name	Video
Alias	
CamelCase	video
Definition	Source data collected base on "Video" information.
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.13.9 Hydrographic Chart

Item Type	Code List Value
Domain	MLB
Associated Attribute	SpatialSourceTypeList
Name	Hydrographic Chart
Alias	
CamelCase	hydrographicChart
Definition	Source data collected base on "Hydrographic Chart" data.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.14 -- Party Type List

4.9.14.1 International Organisation

Item Type	Code List Value
Domain	MLB
Associated Attribute	partyTypeList
Name	International Organisation
Alias	
CamelCase	internationalOrganisation
Definition	Identifies party as being an International Organization.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.14.2 State Country

Item Type	Code List Value
Domain	MLB
Associated Attribute	partyTypeList
Name	StateCountry
Alias	
CamelCase	stateCountry
Definition	Identifies party as being a State or Country.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.14.3 Province State

Item Type	Code List Value
Proposal Type	
Domain	MLB
Associated Attribute	partyTypeList
Name	Province State
Alias	
CamelCase	provinceState
Definition	Identifies party as being a province or state.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.14.4 Non Natural Person

Item Type	Code List Value
Domain	MLB
Associated Attribute	partyTypeList
Name	Non Natural Person
Alias	
CamelCase	nonNaturalPerson
Definition	Identifies party as being a non-natural person such as a corporation.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.14.5 Natural Person

Item Type	Code List Value
Proposal Type	
Domain	MLB
Associated Attribute	partyTypeList
Name	Natural Person
Alias	
CamelCase	naturalPerson
Definition	Defines a natural person.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.15 -- Party Group Type List

4.9.15.1 Agreement

Item Type	Code List Value
Proposal Type	
Domain	MLB
Associated Attribute	groupPartyTypeList
Name	Agreement
Alias	
CamelCase	agreement
Definition	The resulting group consists of parties related to an agreement.
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.15.2 Association

Item Type	Code List Value
Domain	MLB
Associated Attribute	partyGroupTypeList
Name	Association
Alias	
CamelCase	association
Definition	The resulting group is an association.
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.15.3 Condominium

Item Type	Code List Value
Domain	MLB
Associated Attribute	partyGroupTypeList
Name	Condominium
Alias	
CamelCase	condominium
Definition	The resulting group is a condominium.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks:	

4.9.16 -- LA Availability Status Type

4.9.16.1 Archive Converted

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_AvailabilityStatusType
Name	Archive Converted
Alias	
CamelCase	archiveConverted
Definition	Source archive has been converted.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks:	

4.9.16.2 Archive Destroyed

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_AvailabilityStatusType
Name	Archive Destroyed
Alias	
CamelCase	archiveDestroyed
Definition	Source archive has been destroyed.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.16.3 Archive Incomplete

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_AvailabilityStatusType
Name	Archive Incomplete
Alias	
CamelCase	archiveIncomplete
Definition	Source archive I incomplete.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.16.4 Archive Unknown

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_AvailabilityStatusType
Name	Archive Unknown
Alias	
CamelCase	archiveUnknown
Definition	Source archive is unknown.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.16.5 Document Available

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_AvailabilityStatusType
Name	Document Available
Alias	
CamelCase	docAvailable
Definition	Source document is available.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.17 -- LA Area Type

4.9.17.1 Official Area

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_AreaType
Name	Official Area
Alias	
CamelCase	officialArea
Definition	Area has been officially established.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.17.2 Non Official Area

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_AreaType
Name	Non-official Area
Alias	
CamelCase	nonOfficialArea
Definition	Area has not been officially established.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.17.3 Calculated Area

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_AreaType
Name	Calculated Area
Alias	
CamelCase	calculatedArea
Definition	Area has been established through a calculation.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.17.4 Surveyed Area

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_AreaType
Name	Surveyed Area
Alias	
CamelCase	surveyedArea
Definition	Area has been established through use of a survey technique.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.18 -- LA Volume Type

4.9.18.1 Official Volume

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_VolumeType
Name	Official Volume
Alias	
CamelCase	officialVolume
Definition	Volume has been officially established.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.18.2 Non Official Volume

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_VolumeType
Name	Non-official Volume
Alias	
CamelCase	nonOfficialVolume
Definition	Volume has not been officially established.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.18.3 Calculated Volume

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_VolumeType
Name	Calculated Volume
Alias	
CamelCase	calculatedVolume
Definition	Volume has been established through a calculation.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	

4.9.18.4 Surveyed Volume

Item Type	Code List Value
Domain	MLB
Associated Attribute	LA_VolumeType
Name	Surveyed Volume
Alias	
CamelCase	surveyedVolume
Definition	Volume has been established through use of a survey technique.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	