



Infraestructura de Datos Espaciales de España

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SGT Metadatos

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- ❑ Documentos para Comentarios:
 - ❑ CD 19115-2, Geographic information-Metadata - Part 2: Metadata for imagery and gridded data
 - ❑ Documento Guía NEM.
- ❑ Documento “*Technical Corrigendum 1*” para texto ISO 19115:2003.
- ❑ Otros temas sobre metadatos.



Documentos para Comentarios

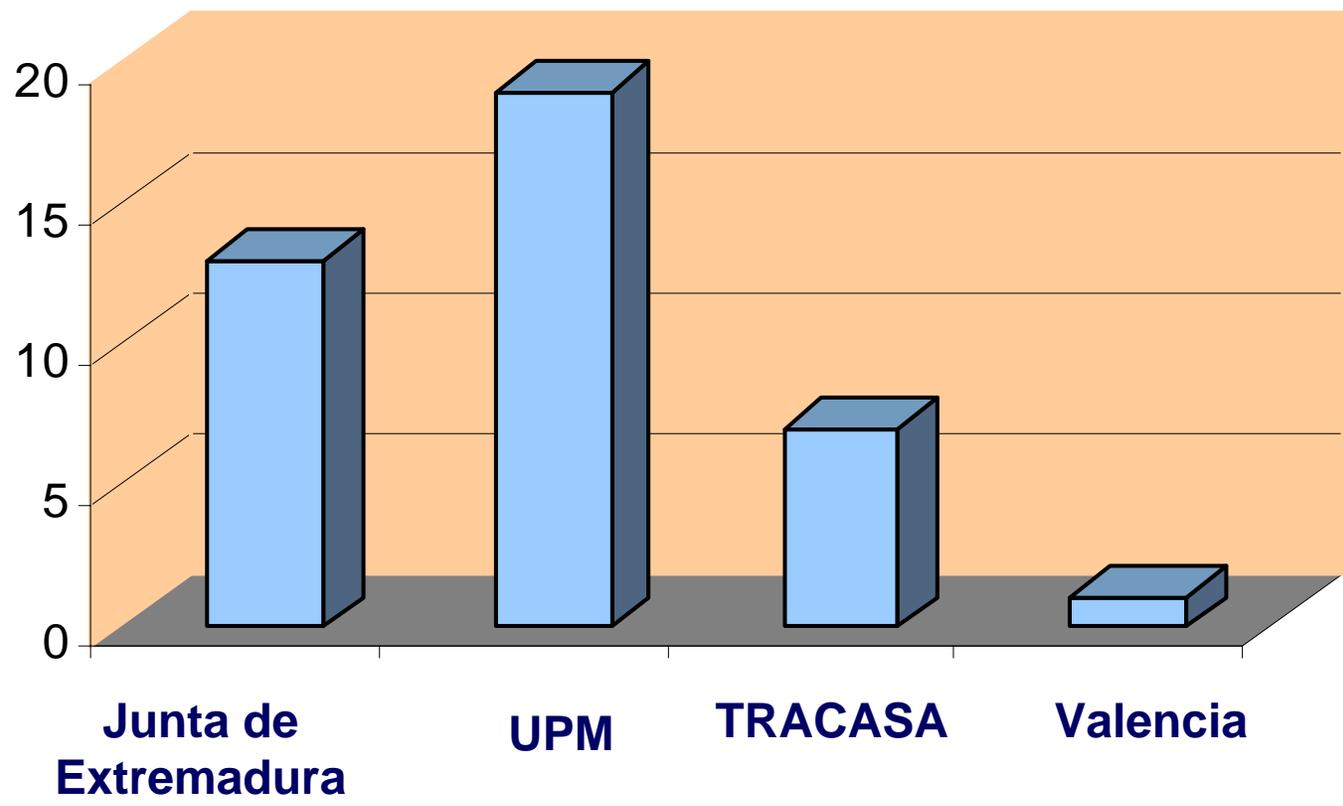


- **Comentarios recibidos:**
 - **Total : 112**
 - **Organizaciones :**
 - **INTA (Ministerio de Defensa): 12**
 - **UPM: 17**
 - **IGN: 82**
 - **ICC: 1**
 - **Tipo: editorial, técnicos y general**
 - **Enviados a Secretaría Técnica de ISO para su consideración**



Comentarios recibidos:

Número total : 40



- ❑ Erratas en el documento.
- ❑ Propuestas de modificación de redacción de algunos textos.
- ❑ Explicar mejor algunos conceptos:
 - ❑ Autor/Creador (Elementos de la lista controlada. *Ci_RoleCode*)
 - ❑ Añadir más tipos de palabras clave (disciplina, estrato)
 - ❑ Tipo de Asociación
- ❑ Mostrar con tablas Códigos EPSG de sistema de referencia más usados en España.
- ❑ Añadir ejemplos:
 - ❑ Información de agregación



Documento:

"Technical Corrigendum 1"



ISO/TC 211 N 1979

2006-04-11

Number of pages: 41

ISO/TC 211
Geographic information/Geomatics

ISO reference number: 19115 Cor 1

Title: Text of ISO 19115:2003 Cor. 1, Geographic information – Metadata – Technical Corrigendum 1, as sent to ISO for publishing

Source: ISO/TC 211 Secretariat

Expected action: For information

Type of document: Text for corrigendum

Hyperlink: <http://www.iso/211.org/prod/211n1979/>

Reference: ISO 19115:2003

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- ❑ El Comité Técnico ISO/TC211 de ISO ha revisado la Norma ISO 19115:2003.
- ❑ Ha encontrado errores:
 - ❑ Se ha redactado “Technical Corrigendum 1”:
 - Documento de 41 páginas.
 - Fecha: 11 de Abril de 2006
- ❑ Corrige erratas y realiza alguna modificación a la Norma Internacional ISO 19115:2003.



Reemplazar listado de abreviaturas

CC	Changing Coordinates (ISO 19111)
CI	Citation (ISO 19115)
CV	Coverages (ISO 19123)
DQ	Data quality (ISO 19115)
DS	Dataset (ISO 19115)
EX	Extent (ISO 19115)
FC	Feature Catalogue (ISO 19110)
FE	Feature (ISO 19109)
FT	Feature Topology (ISO 19107)
GF	General Feature (ISO 19109)
GM	Geometry (ISO 19107)
GR	Graph (ISO 19107)
LI	Lineage (ISO 19115)
MD	Metadata (ISO 19115)
PF	Feature Portrayal (ISO 19117)
PS	Positioning Services (ISO 19118)
RS	Reference System (ISO 19115)
SC	Spatial Coordinates (ISO 19111)
SI	Spatial Identification (ISO 19112)
SV	Services (ISO 19119)
TM	Temporal (ISO 19108)
TP	Topology (ISO 19107)
TS	Simple Topology (ISO 19107)



CI	Citation (ISO 19115)
DQ	Data quality (ISO 19115)
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EX	Extent (ISO 19115)
GF	General Feature (ISO 19109)
GM	Geometry (ISO 19107)
LI	Lineage (ISO 19115)
MD	Metadata (ISO 19115)
RS	Reference System (ISO 19115)
SC	Spatial Coordinates (ISO 19111)
SV	Services (ISO 19119)
TM	Temporal (ISO 19108)

Modificado algún párrafo

6.2 Metadata application information

Figure 3 is a UML class diagram defining the classes of geographic information to which metadata applies. It specifies that a dataset (DS_DataSet) must have one or more related Metadata entity sets (MD_Metadata). Metadata may optionally relate to a Feature, Feature Attribute, Feature Type, Feature Property Type (a Metaclass instantiated by Feature association role, Feature attribute type, and Feature operation), and aggregations of datasets (DS_Aggregate). Dataset aggregations may be specified (subclassed) as a general association (DS_OtherAggregate), a dataset series (DS_Series), or a special activity (DS_Initiative). MD_Metadata also applies to other classes of information and services not shown in this diagram (see MD_ScopeCode, B.5.25).

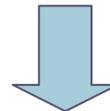


Figure 3 is a UML class diagram defining the classes of geographic information to which metadata applies. It specifies that a dataset (DS_DataSet) and aggregations of datasets (DS_Aggregate) must have one or more related Metadata entity sets (MD_Metadata). Metadata may optionally relate to a Feature, Feature Attribute, Feature Type, Feature Property Type (a Metaclass instantiated by Feature association role, Feature attribute type, and Feature operation). The method for relating metadata to feature and attribute instances is defined in ISO 19109. Dataset aggregations may be specified (subclassed) as a general association (DS_OtherAggregate), a dataset series (DS_Series), or a special activity (DS_Initiative). MD_Metadata also applies to other classes of information and services not shown in this diagram (see MD_ScopeCode, B.5.25).

Variación en los atributos de alguna clase y las constricciones asociadas

MD_Metadata

- + fileIdentifier [0..1] : CharacterString
- + language [0..1] : CharacterString
- + characterSet [0..1] : MD_CharacterSetCode = "utf8"
- + parentIdentifier [0..1] : CharacterString
- + hierarchyLevel [0..*] : MD_ScopeCode = "dataset"
- + hierarchyLevelName [0..*] : CharacterString
- + contact [1..*] : CI_ResponsibleParty
- + dateStamp : Date
- + metadataStandardName [0..1] : CharacterString
- + metadataStandardVersion [0..1] : CharacterString
- + dataSetURI [0..1] : CharacterString
- + locale(0..*): PT_Locale

Conditional statements:

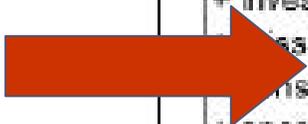
- language: documented if not defined by the encoding standard
- characterSet: documented if ISO 10646-1 not used and not defined by the encoding standard
- hierarchyLevel: documented if hierarchyLevel not = "dataset"
- hierarchyLevelName: documented if hierarchyLevel not = "dataset"
- parentIdentifier: documented if the hierarchy of a higher level exists

Ejemplos de modificaciones

Cambio de nombres de algunas clases, CodeList, etc

```

<<CodeList>>
MD_InitiativeTypeCode
+ campaign
+ collection
+ exercise
+ experiment
+ investigation
+ mission
+ sensor
+ operation
+ platform
+ process
+ program
+ project
+ study
+ task
+ trial
    
```



```

<<CodeList>>
DS_InitiativeTypeCode
+ campaign
+ collection
+ exercise
+ experiment
+ investigation
+ mission
+ sensor
+ operation
+ platform
+ process
+ program
+ project
+ study
+ task
+ trial
    
```

```

<<CodeList>>
MD_DimensionTypeCode
+ row
+ column
+ vertical
+ track
+ crossTrack
+ line
+ sample
+ time
    
```



```

<<CodeList>>
MD_DimensionNameTypeCode
+ row
+ column
+ vertical
+ track
+ crossTrack
+ line
+ sample
+ time
    
```

```

MD_ServiceIdentification
    
```



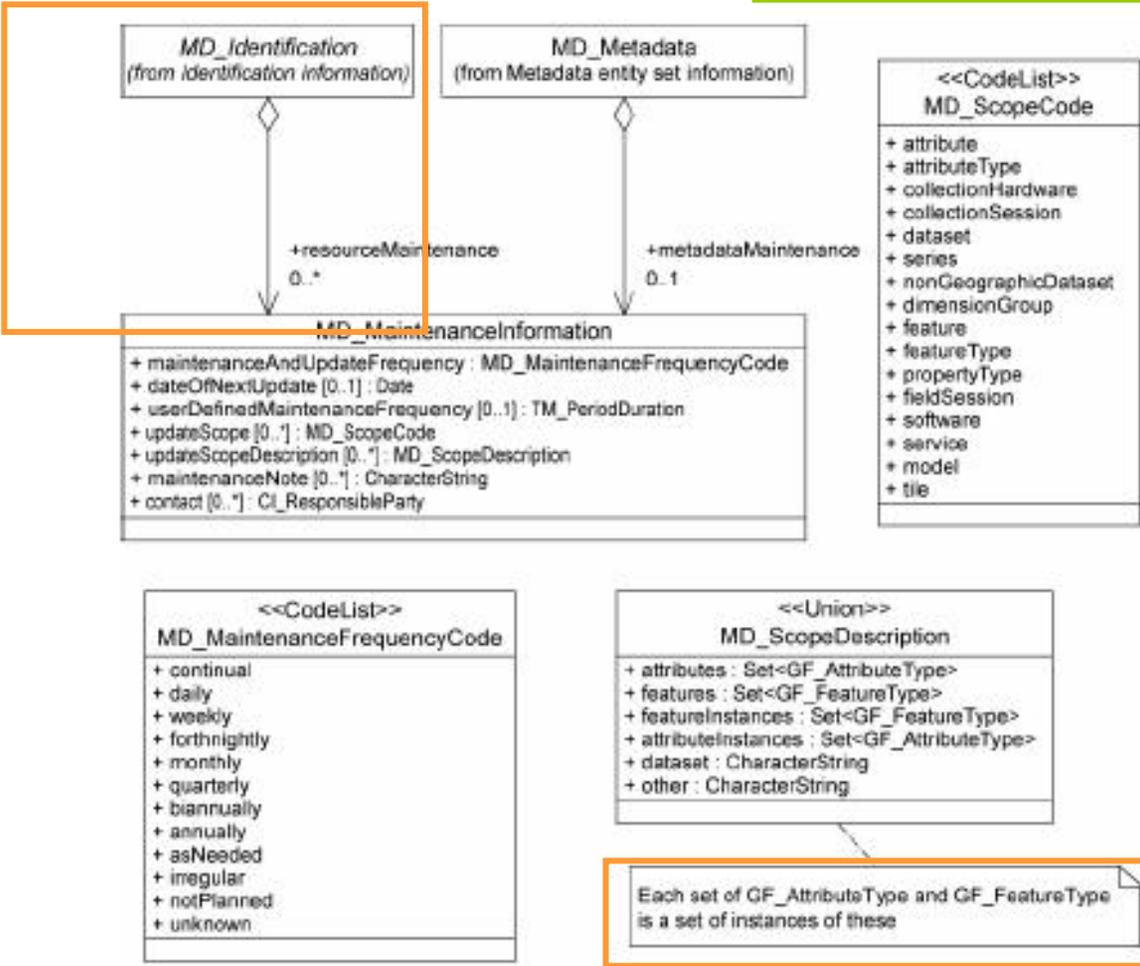
```

SV_ServiceIdentification
(from Service Metadata)
    
```

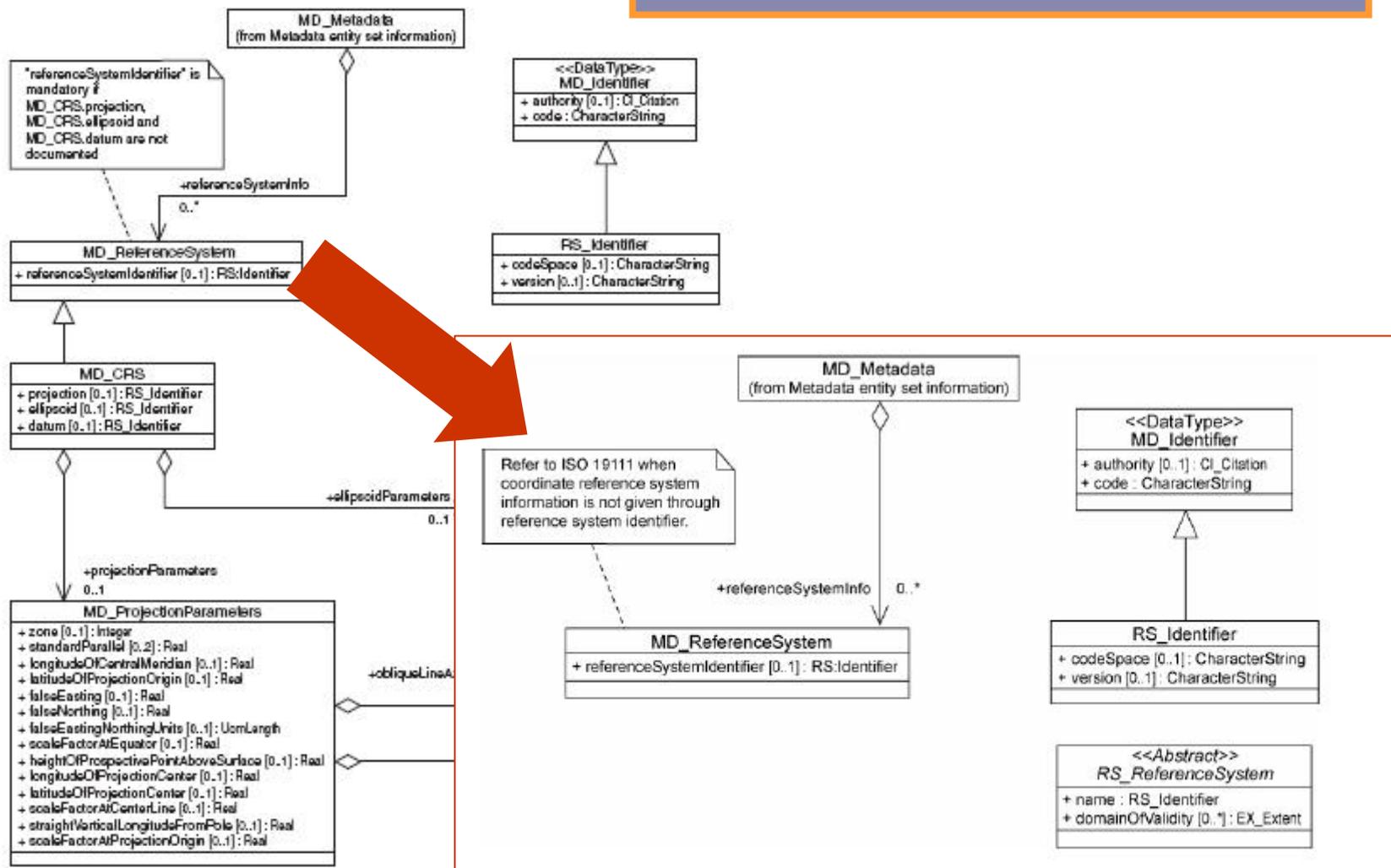


Variación Diagramas UML

Información de mantenimiento



Información Sistema de Referencia



Cambios en el Diccionario de Datos (Anexo B)

Replace row 5 with the following:

5	parentIdentifier	mdParentID	file identifier of the metadata to which this metadata is a subset (child)	C / If there is an upper hierarchy level	1	CharacterString	Free text
---	------------------	------------	--	--	---	-----------------	-----------

Replace row 11 with the following:

11	metadataStandardVersion	mdStanVer	version of the metadata standard (version of the profile) used	0	1	CharacterString	Free text
----	-------------------------	-----------	--	---	---	-----------------	-----------

Add new row 11.2:

11.2	locate	loc	Provides information about an alternatively used localized characterstring for a linguistic extension	0	N	Class	PT_Locale (from ISO 10130)
------	--------	-----	---	---	---	-------	----------------------------

	Name / Role Name	Short Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
186.	MD_ReferenceSystem	RefSystem	information about the reference system	Use obligation/condition from referencing object	Use maximum occurrence from referencing object	Aggregated Class (MD_Metadata)	Line 187
187.	referenceSystemIdentifier	refSysId	name of reference system	C / MD_CRS.projection, MD_CRS.ellipsoid, and MD_CRS.datum not documented?	1	Class	RS_Identifier (B.2.7.3)
188.	intentionally left blank						

	Name / Role Name	Short Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
189.	MD_CRS						
190.	projection						
191.	ellipsoid						
192.	datum						
193.	role name: ellipsoidParameters						
194.	role name: datumParameters						
186.	MD_ReferenceSystem	RefSystem	information about the reference system	Use obligation/condition from referencing object	Use maximum occurrence from referencing object	Aggregated Class (MD_Metadata)	Line 187
187.	referenceSystemIdentifier	refSysId	name of reference system	Refer to SC_CRS in ISO 19111 when coordinate reference system information is not given through reference system identifier	1	Class	RS_Identifier (B.2.7.3)
188.	intentionally left blank						
189.	intentionally left blank						
190.	intentionally left blank						
191.	intentionally left blank						
192.	intentionally left blank						
193.	intentionally left blank						
194.	intentionally left blank						
195.	RS_ReferenceSystem	RefSys	description of the spatial and temporal reference systems used in the dataset	Use obligation/condition from referencing object	Use maximum occurrence from referencing object	Class <<Abstract>>	Lines 196-197
196.	name	refSysName	name of reference system used	M	1	Class	RS_Identifier (B.2.7.3)

B.2.7.2 Ellipsoid parameter information

	Name / Role Name	Short Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
201.	MD_EllipsoidParameters	EllParas	set of parameters that describe the ellipsoid	Use obligation/condition from referencing object	Use maximum occurrence from referencing object	Aggregated class (MD_CRS)	Lines 202-204
202.	semiMajorAxis	semiMajAx	radius of the equatorial axis of the ellipsoid	M	1	Real	> 0,0
203.	axisUnits	axisUnits	units of the semi-major axis	M	1	Class	UomLength (B.4.3)
204.	denominatorOfFlatteningRatio	denFlatRat	ratio of the difference between the equatorial and polar radii of the ellipsoid to the equatorial radius when the numerator is set to 1	C / not a spheroid?	1	Real	> 0,0

Otras clases que se han eliminado (Dejadas en blanco):

B 2.7.4 Oblique line azimuth information

B 2.7.5 Oblique line point information

B 2.7.6 Projection parameter information



Cambios en Apartado CodeList y Enumerations

B.5.10 MD_CharacterSetCode <<CodeList>>

18.	(reserved for future use)	017	a future ISO/IEC 8-bit single-byte coded graphic character set (e.g. possibly ISO/IEC 8859-12)
-----	---------------------------	-----	--

B.5.25 MD_ScopeCode <<CodeList>>

2.	attribute	001	information applies to the attribute value
7.	series	006	information applies to the series Note: "series" applies to any DS_Aggregate.

Otros Temas sobre Metadatos



- **Última reunión del ISO/TC 211:**
 - **ISO 19139 – *Metadata XML Schema Implementation:***
 - Aprobar como norma internacional: SEPTIEMBRE 2006
 - **ISO 19115-2 – *Metadata Part2: Extensions for imagery and gridded data***
 - Versión DIS: OCTUBRE 2006
 - Versión FDIS: OCTUBRE 2007
 - Norma: MARZO 2008

- **AEN/CTN 148 - Información Geográfica Digital:**
 - **UNE-EN ISO 19115:2006- Información geográfica. Metadatos (ISO 19115:2003)**
 - Norma ISO 19115 traducida al español
 - Fecha de publicación : 2006-03-29



❑ Metadatos de Servicios

❑ Están siendo incluidos en:

- Borrador del perfil de metadatos Europeo definido por CEN.
- Borrador del DT Metadata de INSPIRE.

❑ Posibilidad de realizar “Recomendación para metadatos de servicios”

❑ Convenio IGN-UPM-UNIZARP:

- ❑ Trabajando en la creación de metadatos de los productos de “La Dirección General de la Naturaleza” del Ministerio de Medio Ambiente.
- ❑ Plan futuro: otros organismos de la AGE.



- ❑ Enviar documento resumen del “*Technical Corrigendum 1*” a todos los miembros del GTIDEE.
- ❑ Enviar Guía NEM con las modificaciones incorporadas en función de los comentarios recibidos.
- ❑ Posibilidad de creación de Recomendación:
 - ❑ Metadatos de servicio.
- ❑ Estamos a la espera de:
 - ❑ ISO 19139: Septiembre 2006
 - ❑ DIS-ISO 19115-2 : Octubre 2006
 - ❑ Publicación del “*Technical Corrigendum*”





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Gracias por vuestra atención

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