

JIDE 2017

VIII Jornadas Ibéricas de Infraestructuras de Datos Espaciales

Lisboa | 15 - 17 noviembre 2017

Workshop Validación de metadatos

Paloma Abad/Alejandra Sánchez



INSTITUTO
GEOGRÁFICO
NACIONAL

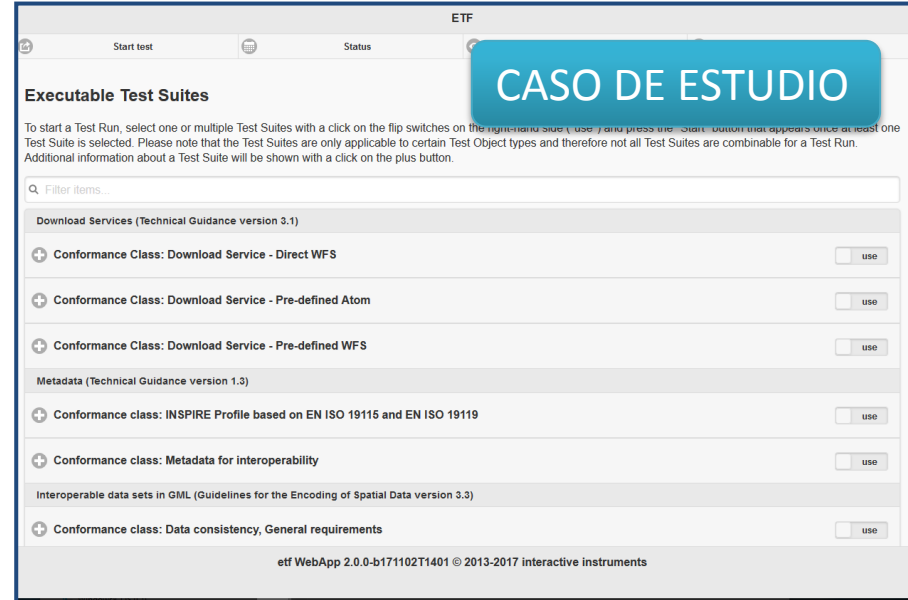


GOBIERNO
DE ESPAÑA
MINISTERIO
DE FOMENTO

Herramientas de validación



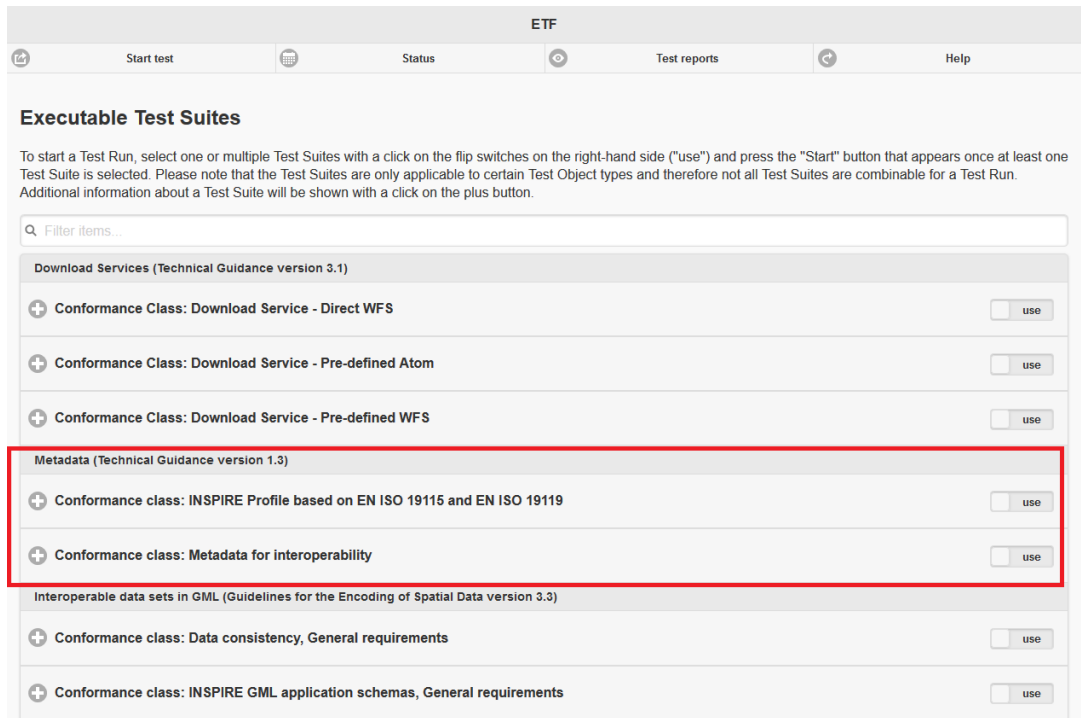
<http://inspire-geoportal.ec.europa.eu/validator2/>



<http://inspire-sandbox.jrc.ec.europa.eu/etf-webapp/>



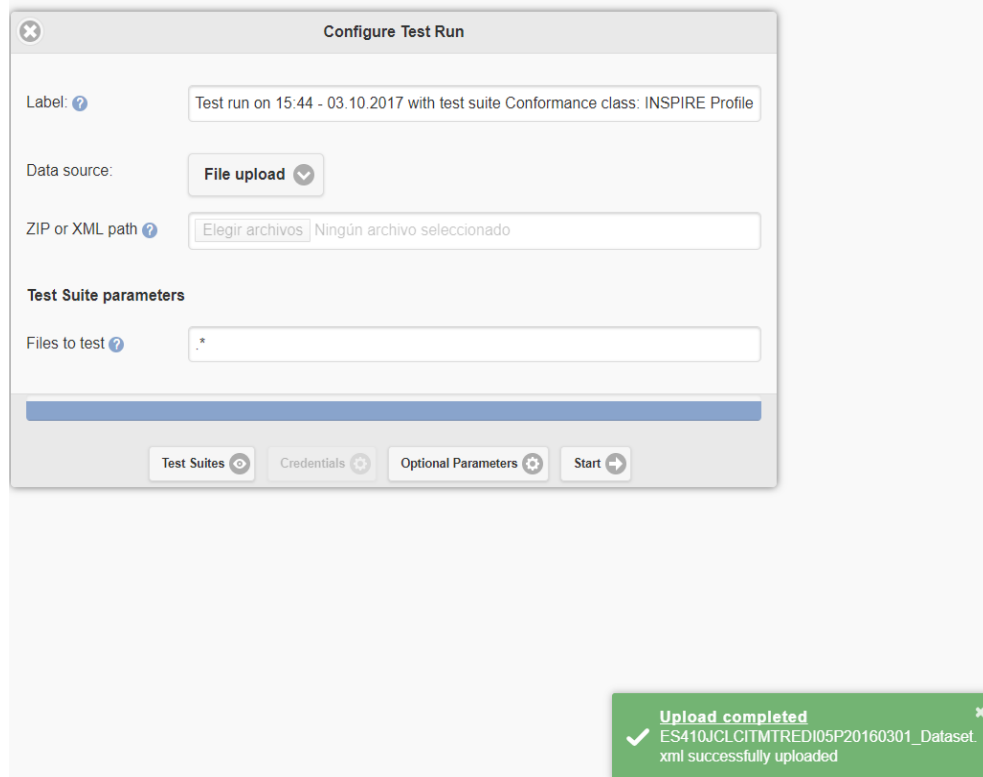
Herramienta



<http://inspire-sandbox.jrc.ec.europa.eu/etf-webapp/>

Seleccionamos las opciones de validación de METADATA y pulsamos botón "start" que aparece arriba

Herramienta



The image shows a 'Configure Test Run' dialog box with the following fields and buttons:

- Label:** Test run on 15.44 - 03.10.2017 with test suite Conformance class: INSPIRE Profile
- Data source:** File upload (dropdown menu)
- ZIP or XML path:** Elegir archivos | Ningún archivo seleccionado
- Test Suite parameters:**
- Files to test:** *

At the bottom of the dialog are four buttons: Test Suites, Credentials, Optional Parameters, and Start.

Below the dialog, a green notification box displays the message: 'Upload completed ES410JCLCITMTREDI05P20160301_Dataset.xml successfully uploaded'.

Seleccionamos el fichero que queremos validar y una vez que nos indica que se ha incluido en plataforma, aparece un mensaje informando (Upload completed) y pullamos sobre "Start"

Herramienta

Status Passed, manual checks required
Started 03/10/2017 15:53:09 GMT
Duration 4 s

	Total	Count	Skipped	Failed	Warnings	Manual
Test suites	3	0	0	0	2	
Test cases	10	0	0	0	3	
Assertions	36	0	0	0	5	

Show

☒ All
☐ Only failed
☐ Only manual

Level of detail

☐ All details
☐ Less information
☒ Simplified

Conformance class: XML encoding of ISO 19115/19119 metadata

1

Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119

8

Conformance class: Metadata for interoperability

1

Una vez se ha completado el proceso de validación aparecerá una pantalla que nos indica los errores. Podemos seleccionar “Only Failed” para ver sólo los errores que tenemos que corregir

VIII Jornadas Ibéricas de Infraestructuras de Datos Espaciais Lisboa | 15-17 novembro 2017



5

Dónde informar de problemas y errores

Plataforma github:

- Para problemas con la aplicación web o API
 - <https://github.com/interactive-instruments/etf-webapp/issues>
- Para problemas con los ETS (reglas de validación)
 - <https://github.com/inspire-eu-validation/ets-repository/issues>

Documentación sobre metadatos

- [Reglamento \(CE\) Nº 1205/2008 en lo que se refiere a los metadatos](#)
 - [Technical Guidances for the implementation of INSPIRE dataset and service metadata based on ISO/TS 19139:2007](#)
- [Reglamento \(UE\) Nº 1089/2010 en lo que se refiere a la interoperabilidad de los conjuntos y los servicios de datos espaciales](#)
- [Indicadores del seguimiento Inspire y las etiquetas de los ficheros de metadatos](#)
- [Guía Técnica para la implementación de servicios de visualización](#)
- [Guía Técnica para la implementación de servicios de descarga](#)



Trabajo realizado

- Se han revisado ficheros de metadatos de los nodo IDE que forman parte de IDEE y como resultado se han detectado errores comunes

1) Validate XML documents

Messages

The dataset has 1 file(s) with errors for this assertion.

XML document '[B3763019-CF89-4D53-8505-198E340475CF]_100000_spa_v2.xml': The file has 318 schema validation error(s).

XML document '[B3763019-CF89-4D53-8505-198E340475CF]_100000_spa_v2.xml': 1:458: schema_reference.4: Failed to read schema document 'http://idec.icc.cat/schema/gmd/gmd.xsd', because 1) could not find the document; 2) the document could not be read; 3) the root element of the document is not <xsd:schema>.

XML document '[B3763019-CF89-4D53-8505-198E340475CF]_100000_spa_v2.xml': 1:458: cvc-elt.1.a: Cannot find the declaration of element 'gmd:MD_Metadata'.

XML document '[B3763019-CF89-4D53-8505-198E340475CF]_100000_spa_v2.xml': 2:23: schema_reference.4: Failed to read schema document 'http://idec.icc.cat/schema/gmd/gmd.xsd', because 1) could not find the document; 2) the document could not be read; 3) the root element of the document is not <xsd:schema>.

XML document '[B3763019-CF89-4D53-8505-198E340475CF]_100000_spa_v2.xml': 3:26: schema_reference.4: Failed to read schema document 'http://idec.icc.cat/schema/gco/gco.xsd', because 1) could not find the document; 2) the document could not be read; 3) the root element of the document is not <xsd:schema>.

XML document '[B3763019-CF89-4D53-8505-198E340475CF]_100000_spa_v2.xml': 5:17: schema_reference.4: Failed to read schema document 'http://idec.icc.cat/schema/gmd/gmd.xsd', because 1) could not find the document; 2) the document could not be read; 3) the root element of the document is not <xsd:schema>.

XML document '[B3763019-CF89-4D53-8505-198E340475CF]_100000_spa_v2.xml': 6:92: schema_reference.4: Failed to read schema document 'http://idec.icc.cat/schema/gmd/gmd.xsd', because 1) could not find the document; 2) the document could not be read; 3) the root element of the document is not <xsd:schema>.

Falta incluir lo siguiente en la cabecera del esquema:

`xmlns:gts="http://www.isotc211.org/2005/gts"`

`xmlns:gmx="http://www.isotc211.org/2005/gmx"`

`xsi:schemaLocation="http://www.isotc211.org/2005/gmd`

`http://www.isotc211.org/2005/gmd/gmd.xsd`



1) Validate XML documents

Incorrecto

```
<?xml version="1.0" encoding="UTF-8"?>
<gmd:MD_Metadata xmlns:gmd="http://www.isotc211.org/2005/qmd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:gco="http://www.isotc211.org/2005/gco"
xmlns:gml="http://www.opengis.net/gml"
xmlns:srv="http://www.isotc211.org/2005/srv"
xmlns:geonet="http://www.fao.org/geonetwork"
xsi:schemaLocation="http://www.isotc211.org/2005/gco http://idec.icc.cat/schema/gco/gco.xsd http://www.isotc211.org/2005/qmd
http://idec.icc.cat/schema/qmd/qmd.xsd"
id="ID0001">
```

Correcto

```
<?xml version="1.0" encoding="UTF-8"?>
<gmd:MD_Metadata xmlns:gmd="http://www.isotc211.org/2005/qmd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:gco="http://www.isotc211.org/2005/gco"
xmlns:gml="http://www.opengis.net/gml"
xmlns:srv="http://www.isotc211.org/2005/srv"
xmlns:geonet="http://www.fao.org/geonetwork"
xmlns:gts="http://www.isotc211.org/2005/gts"
xmlns:gmx="http://www.isotc211.org/2005/gmx"
xsi:schemaLocation="http://www.isotc211.org/2005/qmd http://www.isotc211.org/2005/qmd/qmd.xsd">
```

2) Dataset geographic Bounding Box

Messages

The metadata record set has 1 record(s) with errors for this assertion.

XML document 'GLG_INTECMAR_CONFRARIAS_2006.xml', record 'GLG_INTECMAR_CONFRARIAS_2006': A dataset (series) metadata record must have a valid bounding box that defines the extent of the resource in geographic space. The bounding box is valid if: 1) it has four coordinates (given in decimal degree with a precision of at least 2 decimals), 2) both west- and east-bound longitude are greater than or equal to -180.00, and smaller than or equal to 180.00, 3) both south- and north-bound latitude are greater than or equal to -90.00, and smaller than or equal to 90.00, 4) south-bound latitude is smaller than or equal to north-bound latitude. At least one of these criteria is not fulfilled for one of the geographic bounding boxes of this metadata record. The provided values of this bounding box are: west-bound longitude = '-9.35', east-bound longitude = '-6.95', south-bound latitude = '41.8', north-bound latitude = '43.85'.

Hay que definir 2 decimales en la definición del ámbito geográfico, en la etiqueta `<gmd:EX_GeographicBoundingBox>`

2) Dataset geographic Bounding Box

Correcto

```
<gmd:extent>
  <gmd:EX_Extent>
    <gmd:description gco:nilReason="missing"/>
    <gmd:geographicElement>
      <gmd:EX_GeographicBoundingBox>
        <gmd:westBoundLongitude>
          <gco:Decimal>-19.00</gco:Decimal>
        </gmd:westBoundLongitude>
        <gmd:eastBoundLongitude>
          <gco:Decimal>4.30</gco:Decimal>
        </gmd:eastBoundLongitude>
        <gmd:southBoundLatitude>
          <gco:Decimal>27.60</gco:Decimal>
        </gmd:southBoundLatitude>
        <gmd:northBoundLatitude>
          <gco:Decimal>44.60</gco:Decimal>
        </gmd:northBoundLatitude>
      </gmd:EX_GeographicBoundingBox>
    </gmd:geographicElement>
    <gmd:temporalElement gco:nilReason="missing"/>
    <gmd:verticalElement gco:nilReason="missing"/>
  </gmd:EX_Extent>
</gmd:extent>
```

3) Keywords in vocabulary grouped

Messages

The metadata record set has 1 record(s) with errors for this assertion.

XML document 'GLG_DXSP_USOS_20110220.xml', record 'GLG_DXSP_USOS_20110220': The keyword values originating from a single version of a single controlled vocabulary must be grouped in a single descriptiveKeywords element. For this metadata record, the following controlled vocabularies are referenced in more than one descriptiveKeywords element: GEMET, AGROVOC, INSPIRE_SpatialThemes

Las palabras claves que pertenecen a un mismo TESAURO tienen que estar incluidas dentro del mismo “<gmd:descriptiveKeywords>”

3) Keywords in vocabulary grouped

Correcto

```
<gmd:descriptiveKeywords>
  <gmd:MD_Keywords>
    <gmd:keyword>
      <gco:CharacterString>Ortoimágenes</gco:CharacterString>
    </gmd:keyword>
    <gmd:keyword>
      <gco:CharacterString>Uso del Suelo</gco:CharacterString>
    </gmd:keyword>
  </gmd:type>
  <gmd:MD_KeywordTypeCode codeList="./resources/codeList.xml#MD_KeywordTypeCode" codeListValue="theme">theme</gmd:MD_KeywordTypeCode>
</gmd:type>
<gmd:thesaurusName>
  <gmd:CI_Citation>
    <gmd:title>
      <gco:CharacterString>GEMET - INSPIRE themes, version 1.0</gco:CharacterString>
    </gmd:title>
    <gmd:date>
      <gmd:CI_Date>
        <gmd:date>
          <gco:Date>2008-06-01</gco:Date>
        </gmd:date>
        <gmd:dateType>
          <gmd:CI_DateTypeCode
            codeList="./resources/codeList.xml#CI_DateTypeCode" codeListValue="publication">publication</gmd:CI_DateTypeCode>
          </gmd:dateType>
        </gmd:CI_Date>
      </gmd:date>
    </gmd:CI_Citation>
  </gmd:thesaurusName>
</gmd:MD_Keywords>
</gmd:descriptiveKeywords>
```

4) Vocabulary information

Messages

The metadata record set has 1 record(s) with errors for this assertion.

XML document 'spacoruna_RT_PGM13_06ZONIF_2000.xml.xml', record 'spacoruna_RT_PGM13_06ZONIF_2000.xml': The metadata record has keywords which originate from a controlled vocabulary 'GEMET - INSPIRE themes, version 1.0', but no date of publication, creation, or revision is provided. The keywords are: Uso del suelo; Land use.

En la definición de las palabras clave del Tesauro “GEMET-INSPIRE themes, version 1.0” hay que incluir además de la palabra clave:

- Fecha del Tesauro: 2008-06-01
- Tipo de fecha: publication

4) Vocabulary information

Correcto

```
<gmd:thesaurusName>
  <gmd:CI_Citation>
    <gmd:title>
      <gco:CharacterString>GEMET - INSPIRE themes, version 1.0</gco:CharacterString>
    </gmd:title>
    <gmd:date>
      <gmd:CI_Date>
        <gmd:date>
          <gco:Date>2008-06-01</gco:Date>
        </gmd:date>
        <gmd:dateType>
          <gmd:CI_DateTypeCode>
            codeList="./resources/codeList.xml#CI_DateTypeCode" codeListValue="publication">publication</gmd:CI_DateTypeCode>
          </gmd:dateType>
        </gmd:CI_Date>
      </gmd:date>
    </gmd:CI_Citation>
  </gmd:thesaurusName>
```


5) Metadata Contact Role

Messages

The metadata record set has 1 record(s) with errors for this assertion.

XML document '{61B6F342-7667-4425-91C5-C694E321DD07}_100000_es_v2.xml', record '{61B6F342-7667-4425-91C5-C694E321DD07}_100000_es': The role information of the responsible party serving as metadata point of contact must have 'pointOfContact' as role (in gmd:CI_RoleCode/@codeListValue). The metadata record does not fulfill this requirement. Found: originator.

El valor del “role” del punto de contacto de los metadatos debe ser “pointOfContact”

5) Metadata Contact Role

Correcto

```
<gmd:contact>
  <gmd:CI_ResponsibleParty>
    <gmd:individualName gco:nilReason="missing"/>
    <gmd:organisationName>
      <gco:CharacterString>Instituto Geográfico Nacional (IGN)</gco:CharacterString>
    </gmd:organisationName>
    <gmd:positionName gco:nilReason="missing"/>
    <gmd:contactInfo>
      <gmd:CI_Contact>
        <gmd:address>
          <gmd:CI_Address>
            <gmd:electronicMailAddress>
              <gco:CharacterString>ign@fomento.es</gco:CharacterString>
            </gmd:electronicMailAddress>
          </gmd:CI_Address>
        </gmd:address>
        <gmd:onlineResource>
          <gmd:CI_OnlineResource>
            <gmd:linkage>
              <gmd:URL>ign@fomento.es</gmd:URL>
            </gmd:linkage>
          </gmd:CI_OnlineResource>
        </gmd:onlineResource>
      </gmd:CI_Contact>
    </gmd:contactInfo>
    <gmd:role>
      <gmd:CI_RoleCode
        codeList="./resources/codeList.xml#CI_RoleCode" codeListValue="pointOfContact">pointOfContact</gmd:CI_RoleCode>
      </gmd:role>
    </gmd:CI_ResponsibleParty>
  </gmd:contact>
```

6) Language metadata and dataset language

Messages

The metadata record set has 1 record(s) with errors for this assertion.

XML document '{61B6F342-7667-4425-91C5-C694E321DD07}_100000_es_v2.xml', record '{61B6F342-7667-4425-91C5-C694E321DD07}_100000_es': A metadata record must have one gmd:language property with a gmd:LanguageCode value. The metadata record does not fulfill this requirement.

Messages

The metadata record set has 1 record(s) with errors for this assertion.

XML document '{B3763019-CF89-4D53-8505-198E340475CF}_100000_spa_v2.xml', record '{B3763019-CF89-4D53-8505-198E340475CF}_100000_spa': A dataset (series) metadata record must have a gmd:Language code within its identification information. No gmd:LanguageCode is provided in this metadata record.

El esquema incluido para la definición del idioma no es correcto

6) Language metadata and resource language

Incorrecto

```
<gmd:language>  
  <gco:CharacterString>spa</gco:CharacterString>  
</gmd:language>
```

```
<gmd:language>  
  <gmd:LanguageCode codeList="./resources/codeList.xml#LanguageCode" codeListValue="esp">esp</gmd:LanguageCode>  
</gmd:language>
```

Correcto

```
<gmd:language>  
  <gmd:LanguageCode codeList="./resources/codeList.xml#LanguageCode" codeListValue="spa">spa</gmd:LanguageCode>  
</gmd:language>
```

7) Encoding (información de distribución)

Messages

The metadata record set has 1 record(s) with errors for this assertion.

XML document 'metadato90_spajEXtmexEXTREMADURABASE.xml', record 'spajEXtmexEXTREMADURABASE': Every metadata record must document the encoding in which the dataset is available and specify the name, version and specification of the encoding, but this record does not have the 'specification' property.

- Tenemos que incluir la información del formato de almacenamiento o distribución de los datos proporcionados usando el elemento *“gmd:distributionFormat/gmd:MD_Format”*
- Esta información es obligatoria y tiene una multiplicidad de 1..*
- Del formato estamos obligados a completar “nombre” y la “version”.
 - no se puede incluir más de un nombre y una versión en estas etiquetas.
 - Si no se conoce la “versión” entonces:
 - No se completará contenido en la etiqueta “versión” y en el atributo “gco:nilReason” tomará el valor “desconocido” o “inaplicable”



7) Encoding (información de distribución)

```
<gmd:distributionFormat>
  <gmd:MD_Format>
    <gmd:name>
      <gco:CharacterString>Addresses GML Application Schema</gco:CharacterString>
    </gmd:name>
    <gmd:version>
      <gco:CharacterString>3.0</gco:CharacterString>
    </gmd:version>
    <gmd:specification>
      <gco:CharacterString>D2.8.I.5 Data Specification on Addresses - Technical
Guidelines</gco:CharacterString>
    </gmd:specification>
  </gmd:MD_Format>
</gmd:distributionFormat>
<gmd:distributionFormat>
  <gmd:MD_Format>
    <gmd:name>
      <gmx:Anchor xlink:href="http://inspire.ec.europa.eu/media-types/application/x-
shapefile">Esri Shapefile</gmx:Anchor>
    </gmd:name>
    <gmd:version gco:nilReason="unknown" />
  </gmd:MD_Format>
</gmd:distributionFormat>
```

7) Encoding (información de distribución)

OPCIÓN A) Dataset está disponible en un servicio WFS Inspire

– Cómo mínimo se tiene distribuir en “GML”

Correcto

```
<gmd:distributionFormat>
  <gmd:MD_Format>
    <gmd:name>
      <gco:CharacterString>Addresses GML Application Schema</gco:CharacterString>
    </gmd:name>
    <gmd:version>
      <gco:CharacterString>3.0</gco:CharacterString>
    </gmd:version>
    <gmd:specification>
      <gco:CharacterString>D2.8.I.5 Data Specification on Addresses – Technical Guidelines</gco:CharacterString>
    </gmd:specification>
  </gmd:MD_Format>
</gmd:distributionFormat>

<gmd:distributionFormat>
  <gmd:MD_Format>
    <gmd:name>
      <gco:CharacterString>Hydrography GML Application Schema</gco:CharacterString>
    </gmd:name>
    <gmd:version>
      <gco:CharacterString>3.0</gco:CharacterString>
    </gmd:version>
    <gmd:specification>
      <gco:CharacterString>D2.8.I.8 Data Specification on Hydrography – Technical Guidelines</gco:CharacterString>
    </gmd:specification>
  </gmd:MD_Format>
</gmd:distributionFormat>
```

7) Encoding (información de distribución)

OPCIÓN B) El Dataset no está disponible en un servicio WFS Inspire

- Se puede distribuir en diversos formatos: shape, dgn, GML

Habrás que poner en <specification> la URL correspondiente al formato, que la podréis encontrar en <http://inspire.ec.europa.eu/media-types/application>

Correcto

```
<gmd:distributionFormat>
  <gmd:MD_Format>
    <gmd:name>
      <gco:CharacterString>SHP</gco:CharacterString>
    </gmd:name>
    <gmd:version>
      <gco:CharacterString>-</gco:CharacterString>
    </gmd:version>
    <gmd:specification>
      <gco:CharacterString>http://inspire.ec.europa.eu/media-types/application/x-shapefile</gco:CharacterString>
    </gmd:specification>
  </gmd:MD_Format>
</gmd:distributionFormat>
<gmd:distributionFormat>
  <gmd:MD_Format>
```


7) Encoding (información de distribución)

OPCIÓN B) El Dataset no está disponible en un servicio WFS Inspire

- Se puede distribuir en diversos formatos: shape, dgn, GML

Si el formato que tenéis no se encuentra en el listado, entonces se indicará “Desconocido” en la etiqueta <gmd:specification>

Correcto

```
<gmd:distributionFormat>
  <gmd:MD_Format>
    <gmd:name>
      <gco:CharacterString>DGN</gco:CharacterString>
    </gmd:name>
    <gmd:version>
      <gco:CharacterString>-</gco:CharacterString>
    </gmd:version>
    <gmd:specification>
      <gco:CharacterString>Desconocido</gco:CharacterString>
    </gmd:specification>
  </gmd:MD_Format>
</gmd:distributionFormat>
<gmd:distributor>
```

9) Dataset linkage

Relevant requirements:

- TG Requirement 3: If a linkage for data is available, the Resource Locator shall be a valid URL providing one of the following: a link to a web page with further instructions, a link to a service capabilities document, a link to the service WSDL document (SOAP Binding), a link to a client application that directly accesses the service.

Messages

The metadata record set has 1 record(s) with errors for this assertion.

XML document 'metadato20_spaJEXtmexHojas50000.xml', record 'spaJEXtmexHojas50000': The metadata record has a linkage property, which references a resource with media type 'text/html; charset=UTF-8' at 'http://ideextremadura.com/geonetwork/srv/spa/main.home' which is not one of the media types indicating an INSPIRE network service. Please review the resource to check that it meets the linkage requirements; specifically, if the resource is a webpage, check that it provides further instructions or a client application that directly accesses the service.

XML document 'metadato20_spaJEXtmexHojas50000.xml', record 'spaJEXtmexHojas50000': The metadata record has a linkage property, which references a resource with media type 'text/html; charset=UTF-8' at 'http://sitex.gobex.es/SITEX/centrodescargas' which is not one of the media types indicating an INSPIRE network service. Please review the resource to check that it meets the linkage requirements; specifically, if the resource is a webpage, check that it provides further instructions or a client application that directly accesses the service.

XML document 'metadato20_spaJEXtmexHojas50000.xml', record 'spaJEXtmexHojas50000': The metadata record has a linkage property, but it references a resource at 'http://sitex.juntaex.es/SITEX/centrodescargas' that cannot be accessed. An exception occurred when accessing the resource. Error message: Unknown host 'sitex.juntaex.es'.

El localizador del recurso vincula los datos con los servicios que proporciona, si dicho acceso está disponible. Si no hay disponible acceso en línea para el conjunto de datos o la serie de conjuntos de datos, pero hay un recurso en línea disponible públicamente que proporciona información adicional sobre el conjunto de datos o series de conjuntos de datos descritos, en su lugar se proporcionará la URL que apunta a este recurso.

Multiplicidad de este elemento es 0..*

Se completa a partir del elemento “gmd:CI_OnlineResource” y puede incluir como propiedades: nombre (name), descripción (description) y función (function)

9) Dataset linkage

Este elemento se repite para incluir los enlaces a cada uno de los tipos de servicios dónde los datos están disponible

¿Qué URL tenemos que incluir?

- Servicio de visualización WMS
- Servicio de descarga WFS /ATOM

9) Dataset linkage

Correcto

```
<gmd:transferOptions>
  <gmd:MD_DigitalTransferOptions>
    <gmd:onLine>
      <gmd:onLine>
        <gmd:CI_OnlineResource>
          <gmd:linkage>
            <gmd:URL>http://www.ign.es/wms/pnoa-historico?request=GetCapabilities&service=WMS</gmd:URL>
          </gmd:linkage>
          <gmd:name>
            <gco:CharacterString>Servicio de visualización WMS de ortofotos históricas del PNOA y otros vuelos</gco:CharacterString>
          </gmd:name>
          <gmd:description>
            <gco:CharacterString>WMS</gco:CharacterString>
          </gmd:description>
          <gmd:function>
            <gmd:CI_OnlineFunctionCode
              codeList="./resources/codeList.xml#CI_OnlineFunctionCode" codeListValue="imageDigital">Visualización</gmd:CI_OnlineFunctionCode>
            </gmd:function>
          </gmd:CI_OnlineResource>
        </gmd:onLine>
      </gmd:MD_DigitalTransferOptions>
    </gmd:transferOptions>
```

10) Temporal Date

Messages

The metadata record set has 1 record(s) with errors for this assertion.

XML document 'md_IDEEu_WMS_INGURUMENA_es.xml', record 'md_IDEEu_WMS_INGURUMENA_es': The metadata record has a gmd:TimePeriod with a begin or end that is invalid (is not an xs:date or xs:dateTime). Found: 2014.

XML document 'md_IDEEu_WMS_INGURUMENA_es.xml', record 'md_IDEEu_WMS_INGURUMENA_es': The metadata record has a date of publication, creation, or revision that is invalid (is not an xs:date or xs:dateTime). Found: 2014, 2016, 2014.

El contenido de la fecha en el fichero de metadatos tiene que tener el formato “año-mes-día”. En caso de que sólo se incluya el “año” al validador indica el error

Incorrecto

```
<gmd:date>
  <gmd:CI_Date>
    <gmd:date>
      <gco>Date>2014</gco>Date>
    </gmd:date>
  </gmd:CI_Date>
</gmd:date>
```

Correcto

```
<gmd:date>
  <gmd:CI_Date>
    <gmd:date>
      <gco>Date>2014-01-01</gco>Date>
    </gmd:date>
  </gmd:CI_Date>
</gmd:date>
```

10) Sistema de Referencia (SRS)

md-lop.a.1: Coordinate Reference System

Verifies that the identifier(s) of the coordinate reference system(s) used in the data set have been created and published in the metadata for the data set.

Inspect the data set metadata whether metadata describing the coordinate reference system(s) have been created and published using the code property in RS_Identifier. Verify that the value is a http URI and includes one of the values from table 2 in TG_DS_TMPL.

Relevant requirement(s):

- IR Requirement Article 13(1): The metadata describing a spatial data set shall include the following metadata element required for interoperability: Coordinate Reference System - description of the coordinate reference system(s) used in the data set.
- TG Requirement 4: Metadata instance (XML) documents shall contain the element and meet the INSPIRE multiplicity specified in section 8.2.1.
- TG Requirement 5: The element specified in 8.2.1 shall be available in the specified ISO/TS 19139 path.

Source: [Abstract Test Case 'Coordinate Reference System'](#), [INSPIRE Data Specification Template, A.5.1](#)

Status Failed
Duration 0.001 s

Messages

The metadata record set has 1 record(s) with errors for this assertion.
XML document '[B3763019-CF89-4D53-8505-198E340475CF]_100000_spa_v2.xml', record '[B3763019-CF89-4D53-8505-198E340475CF]_100000_spa': The metadata record references none of the expected coordinate reference systems. The following reference system code have been referenced: 'http://www.opengis.net/def/crs/EPSSG/0/25831'. Please refer to table 2 of the data specification for the list of expected coordinate reference system codes.

10) Sistema de Referencia (SRS)

- Hay que incluir el SRS que describe los datos
- Este elemento tienen una multiplicidad de 1..*
- No incluir EPSG sino URI

Coordinate reference system	Short name	http URI identifier
3D Cartesian in ETRS89	ETRS89-XYZ	http://www.opengis.net/def/crs/EPSG/0/4936
3D geodetic in ETRS89 on GRS80	ETRS89-GRS80h	http://www.opengis.net/def/crs/EPSG/0/4937
2D geodetic in ETRS89 on GRS80	ETRS89-GRS80	http://www.opengis.net/def/crs/EPSG/0/4258
2D LAEA projection in ETRS89 on GRS80	ETRS89-LAEA	http://www.opengis.net/def/crs/EPSG/0/3035
2D LCC projection in ETRS89 on GRS80	ETRS89-LCC	http://www.opengis.net/def/crs/EPSG/0/3034
2D TM projection in ETRS89 on GRS80, zone 26N (30°W to 24°W)	ETRS89-TM26N	http://www.opengis.net/def/crs/EPSG/0/3038
2D TM projection in ETRS89 on GRS80, zone 27N (24°W to 18°W)	ETRS89-TM27N	http://www.opengis.net/def/crs/EPSG/0/3039
2D TM projection in ETRS89 on GRS80, zone 28N (18°W to 12°W)	ETRS89-TM28N	http://www.opengis.net/def/crs/EPSG/0/3040
2D TM projection in ETRS89 on GRS80, zone 29N (12°W to 6°W)	ETRS89-TM29N	http://www.opengis.net/def/crs/EPSG/0/3041
2D TM projection in ETRS89 on GRS80, zone 30N (6°W to 0°)	ETRS89-TM30N	http://www.opengis.net/def/crs/EPSG/0/3042
2D TM projection in ETRS89 on GRS80, zone 31N (0° to 6°E)	ETRS89-TM31N	http://www.opengis.net/def/crs/EPSG/0/3043
2D TM projection in ETRS89 on GRS80, zone 32N (6°E to 12°E)	ETRS89-TM32N	http://www.opengis.net/def/crs/EPSG/0/3044
2D TM projection in ETRS89 on GRS80, zone 33N (12°E to 18°E)	ETRS89-TM33N	http://www.opengis.net/def/crs/EPSG/0/3045
2D TM projection in ETRS89 on GRS80, zone 34N (18°E to 24°E)	ETRS89-TM34N	http://www.opengis.net/def/crs/EPSG/0/3046
2D TM projection in ETRS89 on GRS80, zone 35N (24°E to 30°E)	ETRS89-TM35N	http://www.opengis.net/def/crs/EPSG/0/3047
2D TM projection in ETRS89 on GRS80, zone 36N (30°E to 36°E)	ETRS89-TM36N	http://www.opengis.net/def/crs/EPSG/0/3048
2D TM projection in ETRS89 on GRS80, zone 37N (36°E to 42°E)	ETRS89-TM37N	http://www.opengis.net/def/crs/EPSG/0/3049
2D TM projection in ETRS89 on GRS80, zone 38N (42°E to 48°E)	ETRS89-TM38N	http://www.opengis.net/def/crs/EPSG/0/3050
2D TM projection in ETRS89 on GRS80, zone 39N (48°E to 54°E)	ETRS89-TM39N	http://www.opengis.net/def/crs/EPSG/0/3051
Height in EVRS	EVRS	http://www.opengis.net/def/crs/EPSG/0/5730
3D compound: 2D geodetic in ETRS89 on GRS80, and EVRS height	ETRS89-GRS80-EVRS	http://www.opengis.net/def/crs/EPSG/0/7409

10) Sistema de Referencia (SRS)

Correcto

```
<gmd:referenceSystemInfo>
  <gmd:MD_ReferenceSystem>
    <gmd:referenceSystemIdentifier>
      <gmd:RS_Identifier>
        <gmd:code>
          <gco:CharacterString>http://www.opengis.net/def/crs/EPSG/0/4258</gco:CharacterString>
        </gmd:code>
      </gmd:RS_Identifier>
    </gmd:referenceSystemIdentifier>
  </gmd:MD_ReferenceSystem>
</gmd:referenceSystemInfo>
<gmd:referenceSystemInfo>
```


11) Reglamentos

LauraAlemany commented 5 days ago

The validator is not detecting the Title of the report, as it is analyzing the previous validator:
<http://inspire-geoportal.ec.europa.eu/validator2/>

You can write "Hello" in the title instead of "Reglamento (CE) no 1205/2008 de la Comisión de 3 de diciembre de 2008 por el que se ejecuta la Directiva 2007/2/CE del Parlamento Europeo y del Consejo en lo que se refiere a los metadatos" and there is no error in the Validator.
However in the previous validator if you don't write perfectly correct the text in the title, it gerates an error.

¿Is it posible to implement this analysis?

Thank you.

Best Regards,
Laura Alemany

cpotele commented 5 days ago

Owner

I assume this is about the metadata element "resource title". I think that this would require a change in both the Technical Guidelines and the Abstract Test Suite, before this can be implemented in the executable test suite.

Here is the test case that is
[19115-19119/title](#)

However, as it is already n
state any requirements req

Open questions

- There is no explicit Implementation Requirement in **TG MD** for the following tests:
 - [Check title](#)
 - [Check abstract](#)
 - [Responsible party role](#)

Should these be excluded or included in the ATS? Or added as requirements in the **TG MD**?

SERVICIOS WEB

En cada layers

Fichero de Capacidades		MD de la capa
<u>URI</u>		<u>Identifier</u>
<u>Identifier</u> (cada capa)	=	<u>code</u>
<u>AuthorityURL</u> (se hereda)	=	<u>codeSpace</u>

MD de la Capa, se accede desde:

- Fichero Capacidades: MetadataURL
- MD de servicio: OperatesOn



1) Coupled Resource

Messages

The metadata record set has 1 record(s) with errors for this assertion.

XML document 'ACA_100015_20151231.xml', record 'ACA_100015_20151231': The service metadata record has an 'operatesOn' property in its service identification. The value is referenced via an xlink:href that references: 'http://catalegidec.icc.cat/idec_cataleg/csw_inspire/service?SERVICE=CSW&VERSION=2.0.2&REQUEST=GetRecordById&outputSchema=http://www.isotc211.org/2005/gmd&ElementSetName=full&ID={D822ED79-C4D2-4270-BFDE-2D07E1BB41CF}_100016_ca'. The referenced value must be a dataset or series metadata record, but it is not. Found: "".

A través de una URL se incluye el enlace al registro de metadatos de los datos sobre el que servicio opera. El elemento de metadatos es “srv:operatesOn”

Multiplicidad es 0..*

Hay que incluir:

- Atributo “uuidref” con el identificador del fichero de metadatos
- Atributo “xlink:href” con la URL a la operación “GetRecordById” del fichero de metadatos del dataset”

La plataforma detecta cuando no responde la petición “GetRecordById” al servicio CSW

1) Coupled Resource

Incorrecto

```
</srv:SV_OperationMetadata>
</srv:containsOperations>
<srv:operatesOn uuidref="md_IDEEu_INVENT_FORES_2010_es" xlink:href="http://www.geo.euskadi.net/geonetwork/srv/spa/xml_iso19139?id=705"/>
<srv:operatesOn uuidref="md_IDEEu_SIGPAC_es" xlink:href="http://www.geo.euskadi.net/geonetwork/srv/spa/xml_iso19139?id=1127"/>
<srv:operatesOn uuidref="md_IDEEu-Decreto515_2009_es" xlink:href="http://www.geo.euskadi.net/geonetwork/srv/spa/xml_iso19139?id=701"/>
<srv:operatesOn uuidref="md_IDEEu_ADR_es" xlink:href="http://www.geo.euskadi.net/geonetwork/srv/spa/xml_iso19139?id=888"/>
<srv:operatesOn uuidref="md_IDEEu_VAR_FORES_2012_es" xlink:href="http://www.geo.euskadi.net/geonetwork/srv/spa/xml_iso19139?id=1187"/>
<srv:operatesOn uuidref="md_IDEEu_RSG_VN_2012_es" xlink:href="http://www.geo.euskadi.net/geonetwork/srv/spa/xml_iso19139?id=1185"/>
<srv:operatesOn uuidref="md_IDEEu_PROD_FORES_es" xlink:href="http://www.geo.euskadi.net/geonetwork/srv/spa/xml_iso19139?id=1181"/>
<srv:operatesOn uuidref="md_IDEEu_RSG_INC_2012_es" xlink:href="http://www.geo.euskadi.net/geonetwork/srv/spa/xml_iso19139?id=1183"/>
</srv:SV_ServiceIdentification>
```

Correcto

```
<srv:operatesOn uuidref="spaignLLM2013"
xlink:href="http://www.ign.es/csw-
inspire/srv/spa/csw?SERVICE=CSW&VERSION=2.0.2&REQUEST=GetRecordById&outputSchema=http://
www.isotc211.org/2005/gmd&ElementSetName=full&ID=spaignLLM2013#BDJE"/>
```

1) Tesauros obligatorios

- Palabras clave:
 - GEMET - INSPIRE themes, version 1.0 (Tema)
 - ISO - 19119 geographic services taxonomy (Tipo de servicio)

Otras recomendaciones

Identificadores de ficheros

- No modificar los identificadores de los ficheros de metadatos si se realiza una actualización de los datos o del servicio
- Crear un nuevo identificador si los cambios en los datos o en el servicio generan un nuevo producto
- Es una buena práctica hacer coincidir el identificador del fichero de metadatos con el nombre del fichero XML

```
<gmd:fileIdentifier>  
  <gco:CharacterString>spainLLM2013</gco:CharacterString>  
</gmd:fileIdentifier>
```


Miniaturas en metadatos

- Para tener una visualización más atractiva de la plantilla de metadatos se recomienda incluir “miniaturas” del conjunto de datos o servicios dentro de la etiqueta “gmd:graphicOverview”

```
</gmd:pointOfContact>
<gmd:graphicOverview>
  <gmd:MD_BrowseGraphic>
    <gmd:fileName>
      <gco:CharacterString>http://www.ign.es/resources/ing/metadata/CNIG\_UA.jpg</gco:CharacterString>
    </gmd:fileName>
  </gmd:MD_BrowseGraphic>
</gmd:graphicOverview>
<gmd:descriptiveKeywords>
  <gmd:MD_Keywords>
    <gmd:keyword>
      <gco:CharacterString>Administrative units</gco:CharacterString>
    </gmd:keyword>
    <gmd:keyword>
      <gco:CharacterString>Unidades administrativas</gco:CharacterString>
    </gmd:keyword>
  </gmd:MD_Keywords>
</gmd:descriptiveKeywords>
```



INSTITUTO GEOGRÁFICO NACIONAL WMS Unidad Administrativa

WMS de Unidades Administrativas de España

Servicio de visualización que muestra las Unidades Administrativas y Límites Administrativos con tres niveles de administración (comunidad autónoma, provincia y municipio). Cada capa posee el nombre, título y estilo que establece Inspire y un estilo definido por el IGN. Esta

Ejemplo de validación MD-Datos

- Fichero de conjunto de datos: Líneas Límite
(spaignwms_unidades_administrativas_2013)

Test run on 16:33 - 15.11.2017 with test suite Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119 and one more test suite

Status Passed, manual checks required

Started 15/11/2017 16:33:46 GMT

Duration 4 s

	Total	Count	Skipped	Failed	Warnings	Manual
Test suites	3	0	0	0	0	2
Test cases	10	0	0	0	0	3
Assertions	36	0	0	0	0	5

Show

Level of detail

☒ All

☐ All details

☐ Only failed

☐ Less information

☐ Only manual

☒ Simplified

+ Conformance class: XML encoding of ISO 19115/19119 metadata

1

+ Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119

8

+ Conformance class: Metadata for interoperability

1

Report generated by ETF



Test run on 16:33 - 15.11.2017 with test suite Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119 and one more test suite

Status Passed, manual checks required

Started 15/11/2017 16:33:46 GMT

Duration 4 s

	Total	Count	Skipped	Failed	Warnings	Manual
Test suites	3	0	0	0	0	2
Test cases	10	0	0	0	0	3
Assertions	36	0	0	0	0	5

Show

Level of detail



All



Only failed



Only manual



All details



Less information



Simplified

Conformance class: XML encoding of ISO 19115/19119 metadata

1

This test suite examines XML documents containing gmd:MD_Metadata records against basic requirements for the encoding for metadata in INSPIRE.

This is a draft version. It has limitations and is expected to contain errors. Please report any issues or problems [in GitHub](#).

Source: [Conformance Class 'XML encoding of ISO 19115/19119 metadata'](#)

Status Passed

Duration 3 s

Version 0.2.0

+ Schema validation

1

+ Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119

8

+ Conformance class: Metadata for interoperability

1

Report generated by ETF

This test suite examines metadata records against the requirements for metadata in INSPIRE.

This is a draft version. It has limitations and is expected to contain errors. Please report any issues or problems [in GitHub](#).

Known limitations are documented in the description of the applicable test case or test assertion.

There is a general limitation in all assertions that polymorphism and containment by reference (see the [Technical Guidance](#), sub-clauses A.3, A.4 and A.5) are not supported. However, the current Abstract Test Suite does not support polymorphism and references either (all XPath expressions do not support polymorphism or references; in addition, schema validation is only executed against the ISO/OGC schemas without extensions). It is therefore unclear if this is really a limitation or if the sections in the technical guidance are outdated.

Source: [Conformance Class 'INSPIRE Profile based on EN ISO 19115 and EN ISO 19119'](#)

Pre-requisite conformance classes:

- [Conformance Class 'XML encoding of ISO 19115/19119 metadata'](#)

Status Passed, manual checks required

Duration 0.841 s

Version 0.2.4

Common tests	11
+ Hierarchy level	1
Dataset (series) tests	7
+ Service tests	3
+ Keywords	1
+ Keywords - details	4
+ Temporal extent	1
+ Temporal extent - details	1



Pre-requisite conformance classes:

- [Conformance Class 'XML encoding of ISO 19115/19119 metadata'](#)

Status Passed, manual checks required

Duration 0.841 s

Version 0.2.4

Common tests

11

Execute tests that apply for all metadata records.

Status Passed, manual checks required

Duration 0.001 s

✓ md-iso.a.1: Title

✓ md-iso.a.2: Abstract

⊗ md-iso.a.3: Access and use conditions

✓ md-iso.a.4: Public access

✓ md-iso.a.5: Specification

✓ md-iso.a.6: Language

✓ md-iso.a.7: Metadata contact

✓ md-iso.a.8: Metadata contact role



Conditions applying to access and use must be described at least once for the metadata resource.

The test checks if a useLimitation element is provided and it is not an empty characterstring.

If no conditions apply to the access and use of the resource, "no conditions apply" shall be used.

If conditions are unknown, "conditions unknown" shall be used.

Descriptions of terms and conditions, including where applicable, the corresponding fees shall be provided through this element or a link where these terms and conditions are described.

The basic test to detect missing or empty use limitation information is executed. If this basic check passes, the content needs to be checked manually for correctness.

Relevant requirement(s):

- TG MD Requirement 33: If no conditions apply to the access and use of the resource, 'no conditions apply' shall be used. If conditions are unknown, 'conditions unknown' shall be used.
- TG MD Requirement 34: Descriptions of terms and conditions, including where applicable, the corresponding fees shall be provided through this element or a link (URL) where these terms and conditions are described.

Source: [Abstract Test Case 'Dataset access use'](#)

Status Passed, manual checks required

Duration 0.001 s

Messages

XML document 'spaignLLM2013_v2.xml', record 'spaignLLM2013': Check the use limitation information included in this record. Verify that if no conditions apply to the access and use of the resource, "no conditions apply" has been used. If the conditions are unknown, verify that "conditions unknown" has been used. Also verify that the descriptions of the terms and conditions (including the fees, where applicable) have been provided either directly in the use limitation text or through a link where these terms and conditions are described. The use limitation text is: http://www.ign.es/resources/licencia/Condiciones_licenciaUso_IGN.pdf

md-iso.c.3: Dataset linkage

This test checks each resource locator URL, if it is syntactically correct and if the resource it references can be accessed, in order to determine its type. If the referenced resource is recognized as a Network Service, it checks whether the linkage to the dataset is declared and implemented.

This test case only applies to records with a hierarchyLevel value 'dataset' or 'series'.

The test checks if a linkage is provided. If none is given, the test will complete successfully. If one or more are provided, for each linkage the test checks:

- if the linkage element contains an element of type gmd:URL.
- if the element content is a syntactically correct URL.
- if the referenced resource is accessible.
- if the response identifies the linkage as a known Harmonised Spatial Data Service type or a Network Service type, the test checks if appropriate linkage to dataset is available. The linkage is established via the Metadata URL for WMS, WFS, WCS, SOS and Atom based services. Otherwise a final manual test is suggested to the tester (to test if any of the linkages points to a webpage with further instructions or a client application that directly accesses the service).

Relevant requirements:

- TG Requirement 3: If a linkage for data is available, the Resource Locator shall be a valid URL providing one of the following: a link to a web page with further instructions, a link to a service capabilities document, a link to the service WSDL document (SOAP Binding), a link to a client application that directly accesses the service.

Source: [Abstract Test Case 'Dataset linkage'](#)

Status Passed, manual checks required

Duration 0.476 s

Messages

The metadata record set has 1 record(s) with errors for this assertion.

XML document 'spaignLLM2013_v2.xml', record 'spaignLLM2013': The metadata record has a linkage property, which references a resource with media type 'text/html;charset=UTF-8' at 'http://centrodedescargas.cnig.es/CentroDescargas/busquedaSerie.do?codSerie=LILIM#' which is not one of the media types indicating an INSPIRE network service. Please review the resource to check that it meets the linkage requirements; specifically, if the resource is a webpage, check that it provides further instructions or a client application that directly accesses the service.



This test checks if the metadata record has a valid geographic extent, expressed as a geographic bounding box with four coordinates (westBoundLongitude, eastBoundLongitude, southBoundLatitude, and northBoundLatitude). In addition, the bounding box shall be as small as possible. This requires a manual check.

This test case only applies to records with a hierarchyLevel value 'dataset' or 'series'.

The test checks if:

- a correctly formatted westBoundLongitude is given at gmd:westBoundLongitude/gco:Decimal
- the following constraint is fulfilled: $-180.00 \leq \text{westBoundLongitude} \leq 180.00$
- a correctly formatted eastBoundLongitude is given at gmd:eastBoundLongitude/gco:Decimal
- the following constraint is fulfilled: $-180.00 \leq \text{eastBoundLongitude} \leq 180.00$
- a correctly formatted southBoundLatitude is given at gmd:southBoundLatitude/gco:Decimal
- the following constraint is fulfilled: $-90.00 \leq \text{southBoundLatitude} \leq \text{northBoundLatitude}$
- a correctly formatted northBoundLatitude is given at gmd:northBoundLatitude/gco:Decimal
- the following constraint is fulfilled: $\text{southBoundLatitude} \leq \text{northBoundLatitude} \leq 90.00$

Relevant requirements:

- TG MD Requirement 20: The bounding box shall be as small as possible.
- TG MD Requirement 21: The bounding box shall be expressed in decimal degree with a precision of at least 2 decimals.

Source: [Abstract Test Case 'Geographic bounding box'](#)

Status Passed, manual checks required

Duration 0.001 s

This test suite examines metadata records against the requirements for metadata for interoperability in INSPIRE.

This is a draft version. It has limitations and is expected to contain errors. Please report any issues or problems [in GitHub](#).

Known limitations are documented in the description of the applicable test case or test assertion.

Source: [Conformance class 'Metadata for interoperability'](#)

Pre-requisite conformance classes:

- [Conformance Class 'INSPIRE Profile based on EN ISO 19115 and EN ISO 19119'](#)

Status Passed, manual checks required
Duration 0.002 s
Version 0.2.2

Common tests

6

Execute tests that apply for metadata records for all data themes.

Status Passed, manual checks required
Duration 0.002 s

✓ md-iop.a.1: Coordinate Reference System

○ md-iop.a.2: Temporal Reference System

✓ md-iop.a.3: Encoding

○ md-iop.a.4: Topological Consistency

✓ md-iop.a.5: Character Encoding

✓ md-iop.a.6: Spatial Representation Type

✓ md-iop.a.1: Coordinate Reference System

md-iop.a.2: Temporal Reference System

Verify whether the temporal reference system(s) used in the data set have been created and published in the metadata for the data set, if the spatial data set contains temporal information that does not refer to the default temporal reference system.

Inspect the spatial data set to determine whether it contains temporal information that does not refer to the Gregorian Calendar, the default temporal reference system.

If this is the case, inspect the data set metadata whether metadata describing the temporal reference system(s) has been created and published using the code property in RS_Identifier (XPath: gmd:referenceSystemInfo/gmd:MD_ReferenceSystem/gmd:referenceSystemIdentifier/gmd:RS_Identifier/gmd:code/gco:CharacterString).

Note that currently no guidance exists regarding the identifiers for temporal reference systems.

Relevant requirement(s):

- IR Requirement Article 13(2): The metadata describing a spatial data set shall include the following metadata element required for interoperability: Temporal Reference System: Description of the temporal reference system(s) used in the data set. This element is mandatory only if the spatial data set contains temporal information that does not refer to the default temporal reference system.
- TG Requirement 4: Metadata instance (XML) documents shall contain the element and meet the INSPIRE multiplicity specified in section 8.2.2.
- TG Requirement 5: The element specified in 8.2.2 shall be available in the specified ISO/TS 19139 path.

Source: [Abstract Test Case 'Temporal Reference System'](#), [INSPIRE Data Specification Template, A.5.1](#)

Status Passed, manual checks required

Duration 0.001 s

md-iop.a.4: Topological Consistency

Verify whether metadata about the topological consistency of the data set has been created and published in the metadata for the data set, if the spatial data set includes types from the Generic Network Model and does not assure centreline topology (connectivity of centrelines) for the network.

Inspect the spatial data set to determine whether it includes instances of types from the Generic Network Model and does not assure centreline topology (connectivity of centrelines) for the network.

If this is the case, inspect the data set metadata whether metadata describing the topological consistency has been created and published in TopologicalConsistency for the data quality measures specified for the theme(s) in the section "Logical Consistency – Topological consistency" in clause 7 of the Technical Guidance (XPath: gmd:dataQualityInfo/gmd:DQ_DataQuality/gmd:report/DQ_TopologicalConsistency/result/DQ_QuantitativeResult/value).

Relevant requirement(s):

- IR Requirement Article 13(4): The metadata describing a spatial data set shall include the following metadata element required for interoperability: Topological Consistency: Correctness of the explicitly encoded topological characteristics of the data set as described by the scope. This element is mandatory only if the data set includes types from the Generic Network Model and does not assure centreline topology (connectivity of centrelines) for the network.
- TG Requirement 4: Metadata instance (XML) documents shall contain the element and meet the INSPIRE multiplicity specified in section 8.2.6.
- TG Requirement 5: The element specified in 8.2.6 shall be available in the specified ISO/TS 19139 path.

Source: [Abstract Test Case 'Topological Consistency'](#), [INSPIRE Data Specification Template, A.5.1](#)

Status Passed, manual checks required

Duration 0.001 s

Ejemplo de validación MD-Servicios

- Fichero de metadatos de servicio: WMS de Líneas Límite (spaignwms_unidades_administrativas_2013)



Test run on 16:17 - 15.11.2017 with test suite Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119 and one more test suite

Status Passed, manual checks required

Started 15/11/2017 16:18:20 GMT

Duration 7 s

Total Count Skipped Failed Warnings Manual

Test suites	3	0	0	0	1
Test cases	10	0	0	0	1
Assertions	36	0	0	0	1

Show

Level of detail

☒ All

☐ Only failed

☐ Only manual

☐ All details

☐ Less information

☒ Simplified

+ Conformance class: XML encoding of ISO 19115/19119 metadata

1

+ Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119

8

+ Conformance class: Metadata for interoperability

1

Report generated by ETF

Status Passed, manual checks required

Started 15/11/2017 16:18:20 GMT

Duration 7 s

	Total	Count	Skipped	Failed	Warnings	Manual
Test suites	3	0	0	0	0	1
Test cases	10	0	0	0	0	1
Assertions	36	0	0	0	0	1

Show

Level of detail

☒ All

☐ All details

☐ Only failed

☐ Less information

☐ Only manual

☒ Simplified

Conformance class: XML encoding of ISO 19115/19119 metadata

1

This test suite examines XML documents containing gmd:MD_Metadata records against basic requirements for the encoding for metadata in INSPIRE.

This is a draft version. It has limitations and is expected to contain errors. Please report any issues or problems [in GitHub](#).

Source: [Conformance Class 'XML encoding of ISO 19115/19119 metadata'](#)

Status Passed

Duration 6 s

Version 0.2.0

Schema validation

1

validation of the XML documents under test against the ISO/OGC metadata schemas.

Status Passed

Duration 6 s

☒ md-xml.a.1: Validate XML documents

+ Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119

8

+ Conformance class: Metadata for interoperability

1

Report generated by ETF

Status Passed, manual checks required
Started 15/11/2017 16:18:20 GMT
Duration 7 s

	Total Count	Skipped	Failed	Warnings	Manual
Test suites	3	0	0	0	1
Test cases	10	0	0	0	1
Assertions	36	0	0	0	1

Show

Level of detail

☒ All

☐ All details

☐ Only failed

☐ Less information

☐ Only manual

☒ Simplified

1

+ Conformance class: XML encoding of ISO 19115/19119 metadata

8

— Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119

This test suite examines metadata records against the requirements for metadata in INSPIRE.

This is a draft version. It has limitations and is expected to contain errors. Please report any issues or problems [in GitHub](#).

Known limitations are documented in the description of the applicable test case or test assertion.

There is a general limitation in all assertions that polymorphism and containment by reference (see the [Technical Guidance](#), sub-clauses A.3, A.4 and A.5) are not supported. However, the current Abstract Test Suite does not support polymorphism and references either (all XPath expressions do not support polymorphism or references; in addition, schema validation is only executed against the ISO/OGC schemas without extensions). It is therefore unclear if this is really a limitation or if the sections in the technical guidance are outdated.

Source: [Conformance Class 'INSPIRE Profile based on EN ISO 19115 and EN ISO 19119'](#)

Pre-requisite conformance classes:

- [Conformance Class 'XML encoding of ISO 19115/19119 metadata'](#)

Status Passed, manual checks required
Duration 1.128 s
Version 0.2.4

11

— Common tests

Execute tests that apply for all metadata records.

Status Passed, manual checks required
Duration 0.001 s

✓ md-iso.a.1: Title

✓ md-iso.a.2: Abstract

+ md-iso.a.3: Access and use conditions

✓ md-iso.a.4: Public access

✓ md-iso.a.5: Specification

✓ md-iso.a.6: Language

✓ md-iso.a.7: Metadata contact

✓ md-iso.a.8: Metadata contact role

✓ md-iso.a.9: Resource creation date

✓ md-iso.a.10: Responsible party contact info

✓ md-iso.a.11: Responsible party role

+ Hierarchy level

1

+ Dataset (series) tests

7

+ Service tests

3

+ Keywords

1

+ Keywords - details

4

+ Temporal extent

1

+ Temporal extent - details

1

md-iso.a.3: Access and use conditions

Conditions applying to access and use must be described at least once for the metadata resource.

The test checks if a `useLimitation` element is provided and it is not an empty characterstring.

If no conditions apply to the access and use of the resource, "no conditions apply" shall be used.

If conditions are unknown, "conditions unknown" shall be used.

Descriptions of terms and conditions, including where applicable, the corresponding fees shall be provided through this element or a link where these terms and conditions are described.

The basic test to detect missing or empty use limitation information is executed. If this basic check passes, the content needs to be checked manually for correctness.

Relevant requirement(s):

- TG MD Requirement 33: If no conditions apply to the access and use of the resource, 'no conditions apply' shall be used. If conditions are unknown, 'conditions unknown' shall be used.
- TG MD Requirement 34: Descriptions of terms and conditions, including where applicable, the corresponding fees shall be provided through this element or a link (URL) where these terms and conditions are described.

Source: [Abstract Test Case 'Dataset access use'](#)

Status Passed, manual checks required

Duration 0.001 s

Messages

XML document 'spaignwms_unidades_administrativas_2013.xml', record 'spaignwms_unidades_administrativas_2013': Check the use limitation information included in this record. Verify that if no conditions apply to the access and use of the resource, "no conditions apply" has been used. If the conditions are unknown, verify that "conditions unknown" has been used. Also verify that the descriptions of the terms and conditions (including the fees, where applicable) have been provided either directly in the use limitation text or through a link where these terms and conditions are described. The use limitation text is: No hay limitaciones

This test suite examines metadata records against the requirements for metadata for interoperability in INSPIRE.

This is a draft version. It has limitations and is expected to contain errors. Please report any issues or problems [in GitHub](#).

Known limitations are documented in the description of the applicable test case or test assertion.

Source: [Conformance class 'Metadata for interoperability'](#)

Pre-requisite conformance classes:

- [Conformance Class 'INSPIRE Profile based on EN ISO 19115 and EN ISO 19119'](#)

Status Passed

Duration 0.001 s

Version 0.2.2

Execute tests that apply for metadata records for all data themes.

Status Passed

Duration 0.001 s

✓ md-iop.a.1: Coordinate Reference System

✓ md-iop.a.2: Temporal Reference System

✓ md-iop.a.3: Encoding

✓ md-iop.a.4: Topological Consistency

✓ md-iop.a.5: Character Encoding

✓ md-iop.a.6: Spatial Representation Type

Equipo de validación metadatos



- Laura Alemany
- Guadalupe Cano
- Carolina Soteres
- Paloma Abad
- Alejandra Sánchez