Gestión, uso y publicación de datos de biodiversidad y patrimonio natural para gestores

Armonización y publicación de datos y metadatos conforme la Directiva INSPIRE

Especificación de datos de Lugares Protegidos Ejercicio práctico

Marta Juanatey Aguilera
CNIG (IGN)

Especificación y esquemas XML

- ## Portal Inspire
  http://inspire.ec.europa.eu/index.cfm

2015

gbif.es

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Infrastructure for Spatial Information in the European Community

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Data Specifications

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INSPIRE data models
The INSPIRE Implementing Rules on interoperability of spatial data sets and services and the data specification guidance documents are based on the UML data models developed by the INSPIRE Thematic Working Groups. These data models are managed in a common UML repository, which also stores older revisions of the models.

This page makes different revisions of the INSPIRE UML models available in different formats and views (see below). Each of these revisions corresponds to a specific set of (draft or approved) Data Specification Technical Guidance (TG) documents and/or Implementing Rules.

Revision	Corresponding TG and IRs	Status	Feature catalogue	HTML view	Mapping Tables	EA project / XMI	SVN	GML & code lists
4618	This version corresponds to the content of the Implementing Rules (EU) No 1089/2010, No 102/2011, No 1253/2013 and the latest publicly available version of the data specifications of Annex I, II+III.							
	This distribution contains only those data models that are contained in the amendment to the Implementing Rules for Annex II+III themes, including the updates of the Annex I data themes.	APPROVED	FC	HTML	Mapping Tables	EA / XMI	SVN	Schema repository
	This distribution combines the data models contained in the amendment to the Implementing Rules (see above) and the extended data models contained in the data specification Technical Guidelines (but not in the IRs). Please note that the extended data models not included in the IRs should be considered as draft and therefore be used with caution.	APPROVED (IR models) DRAFT (extended models)	FC	HTML	Mapping Tables	EA / XMI	SVN	Schema repository (IR models) Schema repository (extended models)

Show older versions

Feature catalogue
Informative overview of the spatial object types and data types defined in the INSPIRE data specifications, which provides an easy entry point to the INSPIRE data models and data specifications for implementers and decision makers.

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25 – 29 MAY 2015, LISBON, PORTUGAL

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Years: 2011-2014
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08-Jun-15 Short video on INSPIRE
20-May-15 Call for experts on Extension of Download Service Technical Guidelines for Web Coverage Services (WCS)
05-May-15 INSPIRE Interactive Data specification Toolkit V1.0
04-May-15 Updated xml

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Versión 3.0 simple

Versión 3.1 completo

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Feature catalogue
Informative overview of the spatial object types and data types defined in the INSPIRE data specifications, which provides an easy entry point to the INSPIRE data models and data specifications for implementers and decision makers.

NEWS
- **08-Jun-15** Short video on INSPIRE
- **20-May-15** Call for experts on Extension of Download Service Technical Guidelines for Web Coverage Services (WCS)
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- **04-May-15** Updated xml

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INSPIRE Consolidated UML Model - Generated 26 April 2010 (Revision 937)

relación entre modelos

diagrama del esquema de aplicación

atributos, etc. de clases, listas de enumeración, ...

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http://inspire.ec.europa.eu/schemas

Repositorio de esquemas:

Index of /schemas

Name	Last modified	Size	Description
Parent Directory		-	
ac-mf/	2015-04-29 10:03	-	
act-core/	2015-04-29 10:03	-	
ad/	2015-04-29 10:03	-	
af/	2015-04-29 10:03	-	
am/	2015-04-29 10:03	-	
au/	2015-04-29 10:03	-	
base/	2015-04-29 10:03	-	
base2/	2015-04-29 10:03	-	
br/	2015-04-29 10:03	-	
bu-base/	2015-04-29 10:03	-	
bu-core2d/	2015-04-29 10:03	-	
bu-core3d/	2015-04-29 10:03	-	
bu/	2015-04-29 10:03		

omop/	2015-04-29 10:03	-	
omor/	2015-04-29 10:03	-	
ompr/	2015-04-29 10:03	-	
omso/	2015-04-29 10:03	-	
pd/	2015-04-29 10:03	-	
pf/	2015-04-29 10:03	-	
plu/	2015-04-29 10:03	-	
ps/	2015-04-29 10:03	-	
readme.txt	2012-07-03 13:41	8.0K	
sd/	2015-04-29 10:03	-	
selu/	2015-04-29 10:03	-	
so/	2015-04-29 10:03	-	
sr/	2015-04-29 10:03	-	
su-core/	2015-04-29 10:03	-	
su-grid/	2015-04-29 10:03	-	
su-vector/	2015-04-29 10:03	-	
su/	2015-04-29 10:03	-	

PS (Protected Sites)

2015

- v4.0 of the ProtectedSites.xsd schema is still under discussion in the INSPIRE thematic clusters (see https://themes.jrc.ec.europa.eu/discussion/view/26866/correcting-percentageunderdesignation-bug-in-ps-simple-xml-schema). Once the open issues are resolved, it will be published in this folder.

Nuestros datos

- Conjuntos de datos espaciales (CDE) a transformar
- Estudiar mi Modelo de datos (matching table):
  - Atributos Inspire vs. Atributos mi Modelo de Datos
    - Atributos que puedo completar
    - Atributos que no puedo completar
  - Transformar el CRS a ETRS89
- Publicar mis datos transformados a través de los servicios de catálogo (metadatos) y visualización o descarga

2015

Matching table

	Application Schema 'Protected Sites Simple' (version 3.0)							
Type	**Documentation**		**Attribute Association role Constraint**	**Attribute / Association role / Constraint**	**Values / Enumerations**	**Multiplicity**	**Voidable / Non-Voidable**	**Type**
ProtectedSite	An area designated or managed within a framework of international, Community and Member States' legislation to achieve specific conservation objectives.Each protected site has a boundary defined through formal, legal or administrative agreements or decisions. The establishment of a protected site is normally underpinned by legislation and thus given weight in decisions about land use change and spatial planning. Each Site is normally selected as a representative example of a wider resource and selected through a formal criterion based approach. A protected site can be a contiguous extent of land/sea or a collection of discrete areas that together represent a single formal Protected Site. This class has the attributes, constraints and associations that are part of the Simple application schema.							
			geometry	The geometry defining the boundary of the Protected Site.The geometry may be determined by a wide	GM_Object	1		
			inspireID	External object identifier of the protected site.NOTE	Identifier	1		
			legalFoundationDate	The date that the protected site was legally created.	DateTime	1	voidable	
			legalFoundationDocument	A URL or text citation referencing the legal act	CI_Citation	1	voidable	
			siteDesignation	The designation (type) of Protected Site At least	DesignationType	1..*	voidable	
			siteName	The name of the Protected Site.NOTE 1 Several names in different languages may be expressed. NOTE 2 It is recommended that the language of the name (part of the GeographicalName data type) be filled where ever possible. This is an important identifying attribute of a Protected Site.	GeographicalName	0..*	voidable	
			siteProtectionClassification	The classification of the protected site based on the	ProtectionClassificationValue*	1..*	voidable	
Percentage	A percentage value, being an integer between 0 and 100 inclusive.							
DesignationType	A data type designed to contain a designation for the Protected Site, including the designation scheme used							

Programa para transformar

Tracasa

Geobide

Inicio | **Productos** | Servicios | Soporte | Descargas | Quiénes somos

http://www.geobide.es

Productos

Cuatro herramientas en una

Geobide / Productos

Geobide Converter

Conversor universal entre formatos geográficos y sistemas de referencia geodésicos. Transforma tus datos a un nuevo modelo y automatiza el proceso. Imprescindible. Leer más...

Geobide Builder

Crea tus propios diagramas de geoprocesamiento. Tan complejos como tú quieras. Más de 30 herramientas disponibles. Leer más...

Geobide RasterConverter

Conversor universal entre formatos geográficos ráster y sistemas de referencia geodésicos. Leer más...
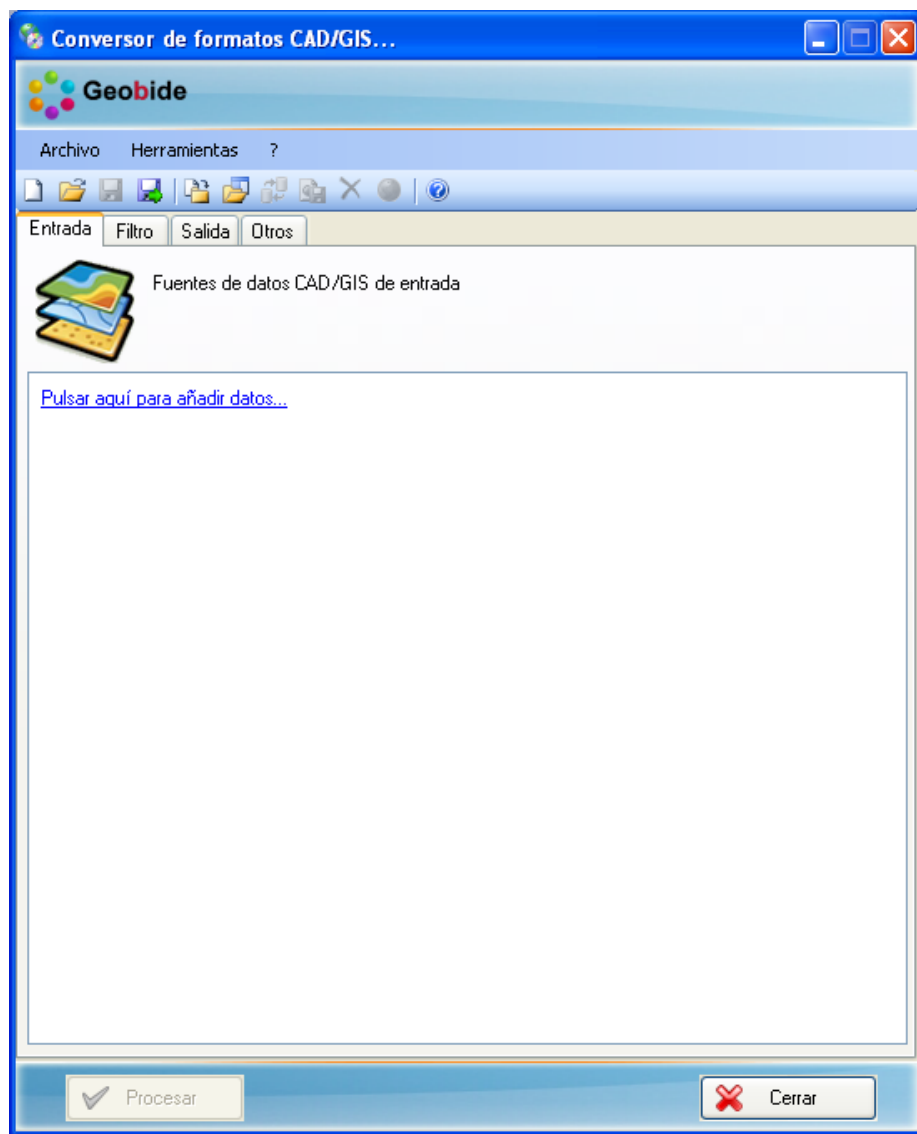
Geobide Map

Cliente para acceder a fuentes de datos GIS y CAD. Muy fácil y muy rápido. Edita tus propios datos y crea mapas de calidad. Leer más...

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Instalación

- ## Geobide (http://www.geobide.es)

  - – Geomap: es el visualizador
  - – Geoconverter: herramienta que permite trabajar con la información geográfica cambiando formatos, transformando modelos de datos y cambiando sistemas de referencia. Más información.

    - Correo con enlace de descarga y licencia
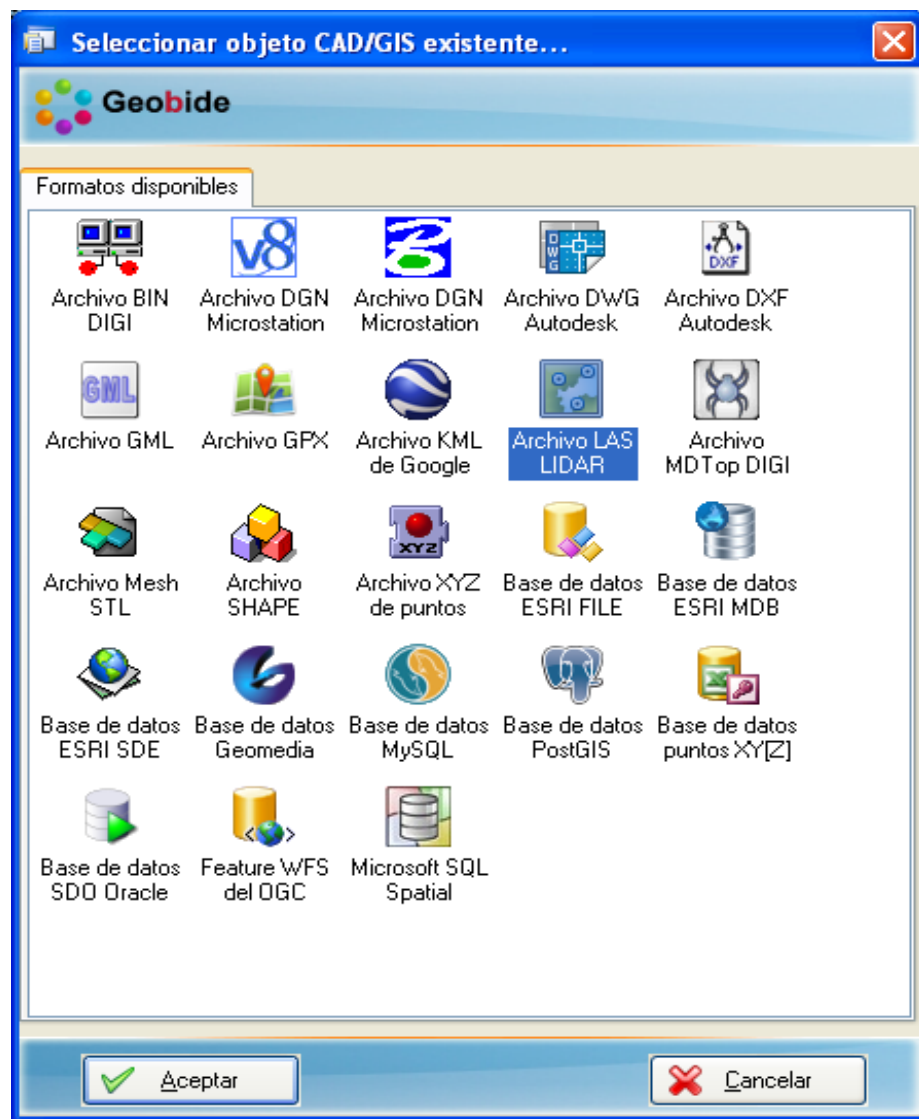   - Ejecutar
      - – Geobide Desktop for Windows.msi

2015

GeoConverter:

Facilita la transformación de los conjuntos de datos (CD) en 4 pasos:
➤ **CD(s) de entrada (opción filtrado por atributos)**
➤ **CD(s) de salida**
➤ **CRS de los CD de entrada**
➤ **CRS de los CD de salida**

Realiza:
➤ **Transformación de formatos de archivo**
➤ **Es posible la unión de varios archivos de entrada en uno de salida**
➤ **Transformación de modelos de datos**
➤ **Transformación del Sistema de Referencia (CRS)**
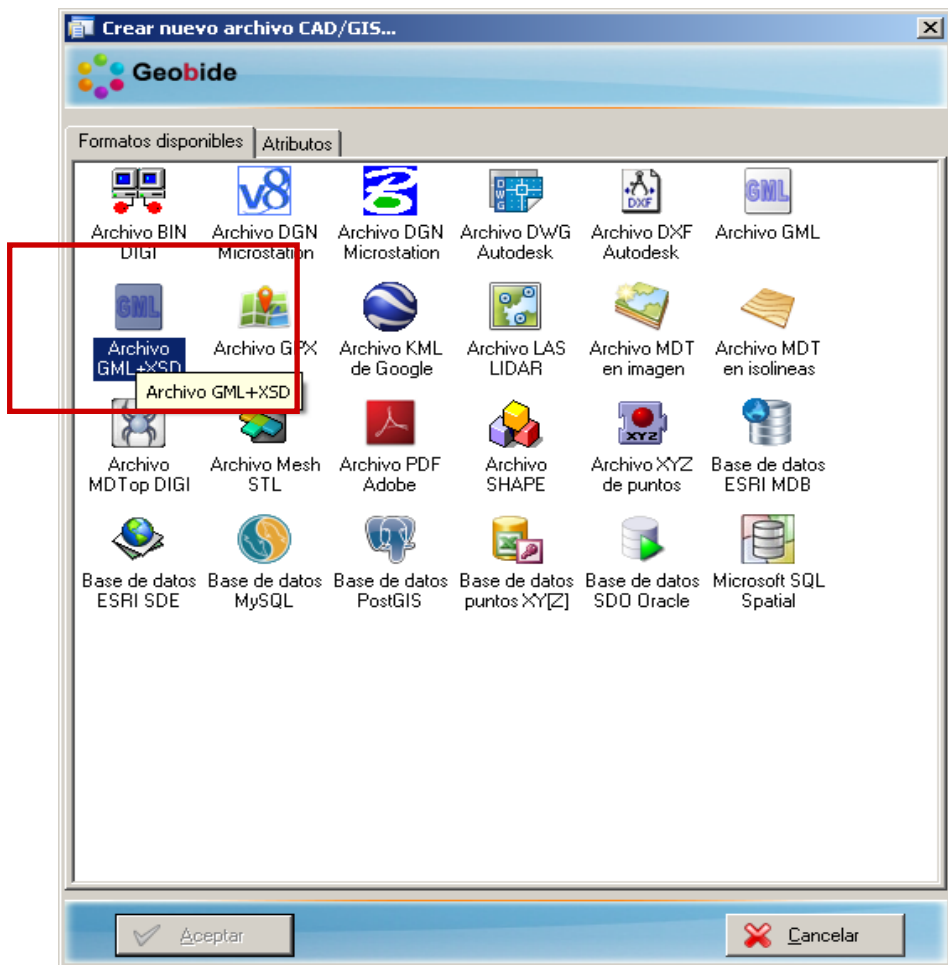➤ **Utiliza las rejillas oficiales NTv2 para garantizar la exactitud de la transformación**

GeoConverter:

Paso 1

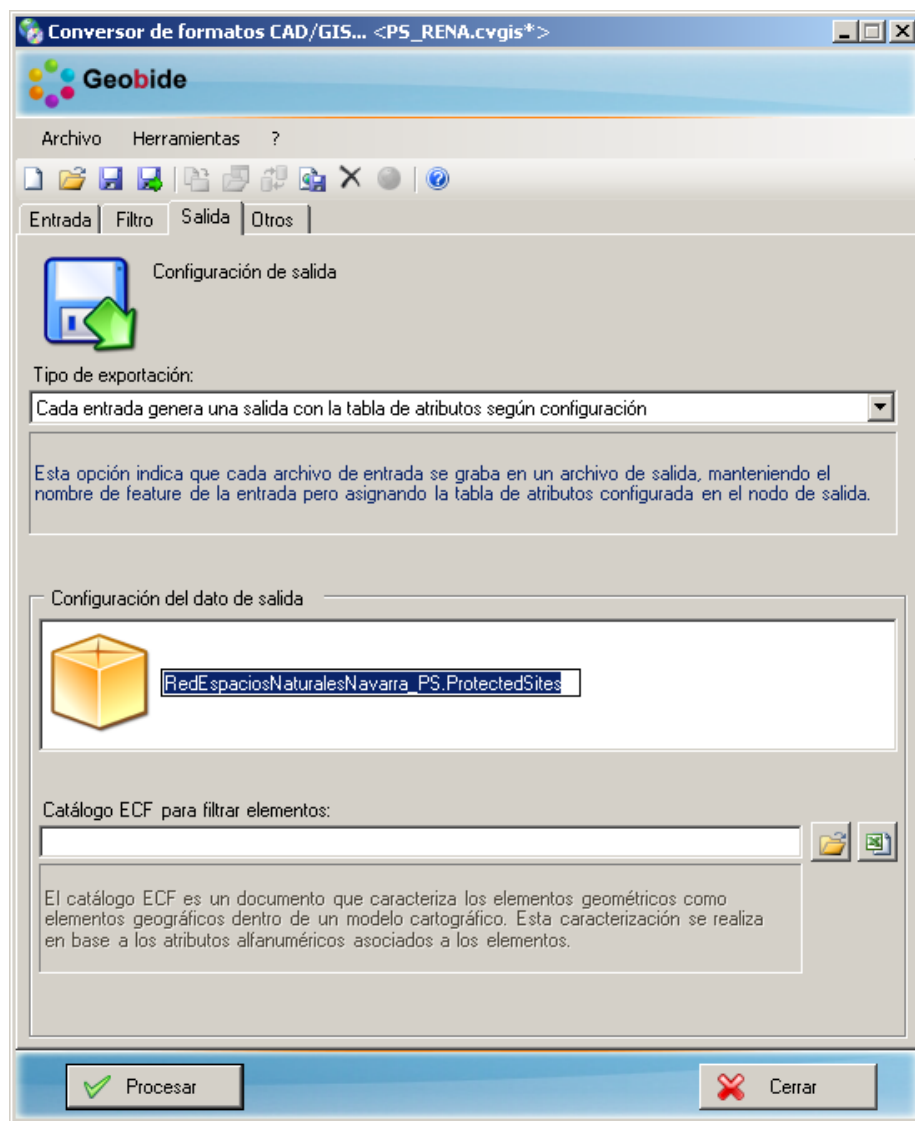**Selección del formato de cada CD de entrada**

Shape, Geodatabase, BD-Oracle...

GeoConverter:

Paso 2

Formato del/los CD de salida:

Para INSPIRE: GML+XSD (esquema XML que marca el modelo de datos del GML)

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GeoConverter:

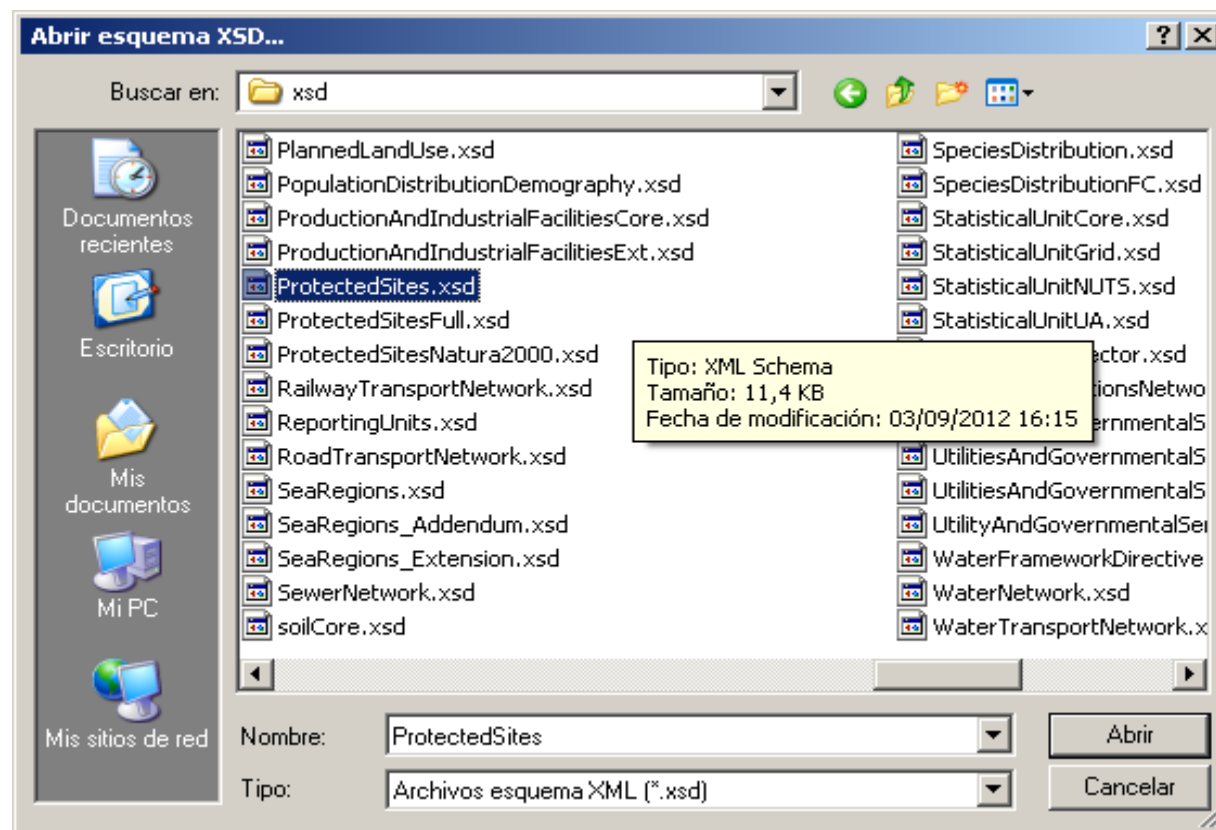**Paso 2**

Nombre del CD de salida:

Para INSPIRE:

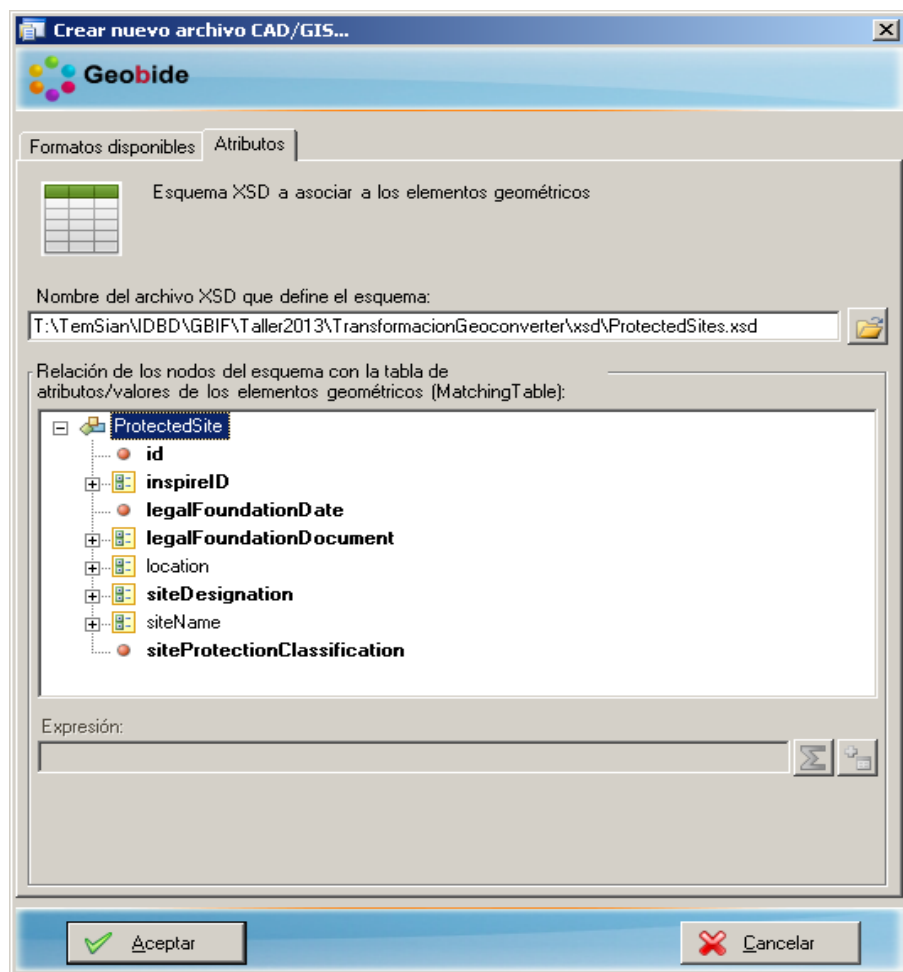**Nombre del CD, ':PS.ProtectedSites'
(Guidelines - 11.1 Layer Types)**

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GeoConverter:

Paso 2

Selección del esquema:

➢**ProtectedSites**
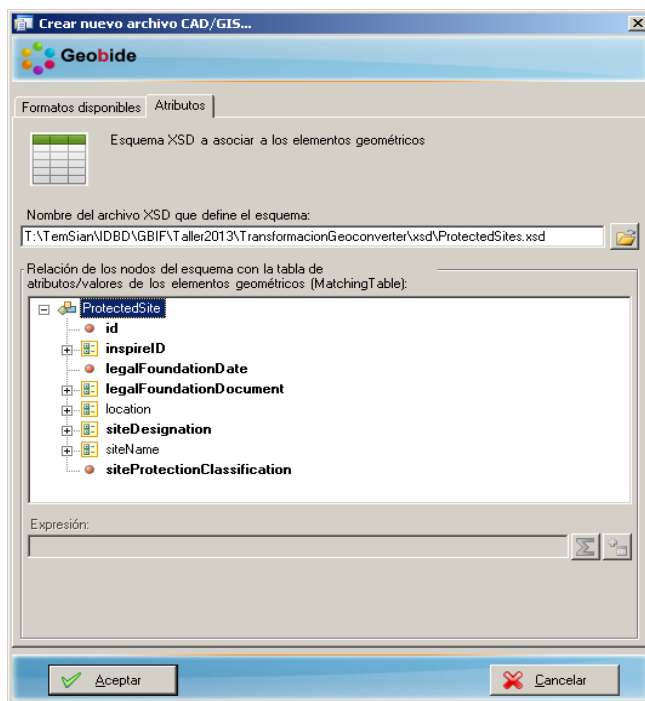
GeoConverter:

Paso 2

Ajustamos el modelo de datos de nuestro CD al modelo INSPIRE

Aquí es básico:
➢**Haber preparado una *matching table***
➢**Conocer qué datos nos faltan**

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GeoConverter:

Paso 2

Id_localid = [SITE_CODE]
Id_namespace =
'EU.EUROPA.ENVIRONMENT.PS.CDDA.IEPNB.ESP.'
legalFoundationDate = [YEAR] && 'T00:00:00' (formato date/Time)
legalFundationDocument
    CI_Citation
        Title = [NORMA]
        Date
            CI_Date
                legalfundationdate=[DATE]
            CI_dateTypeCode
                CodeList =
                'http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_19139_Schemas/resources/Codelist/ML_gmxCodelists.xml#CI_DateTypeCode'
                CodeListValue = 'publication' (publicación, creación o revisión)

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GeoConverter:

Paso 2

SiteDesignation
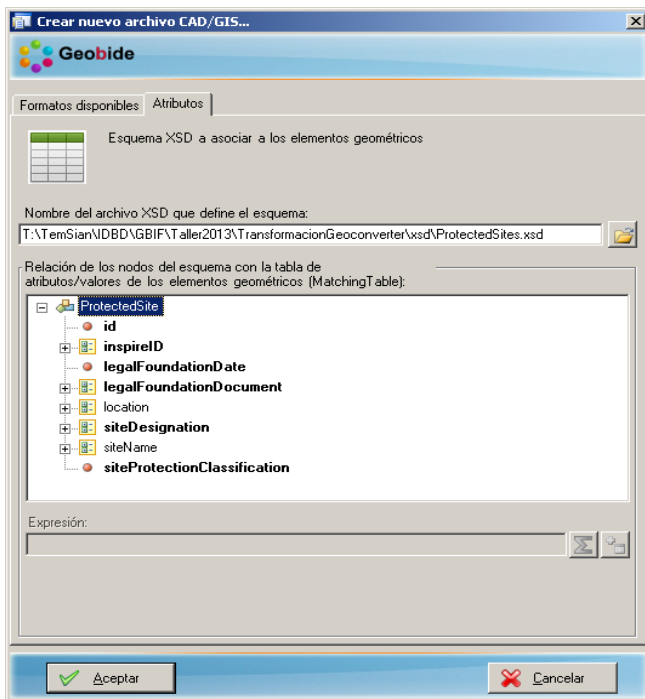
DesignationType

designationSchema = 'IUCN'

CodeSpace = 'http://inspire.ec.europa.eu/codelist/DesignationSchemeValue/'

designation=[SITE_DESII]

Codespace = 'http://inspire.ec.europa.eu/codelist/IUCNDesignationValue/'

percentageUnderDesignation = [PERCENTAGE]
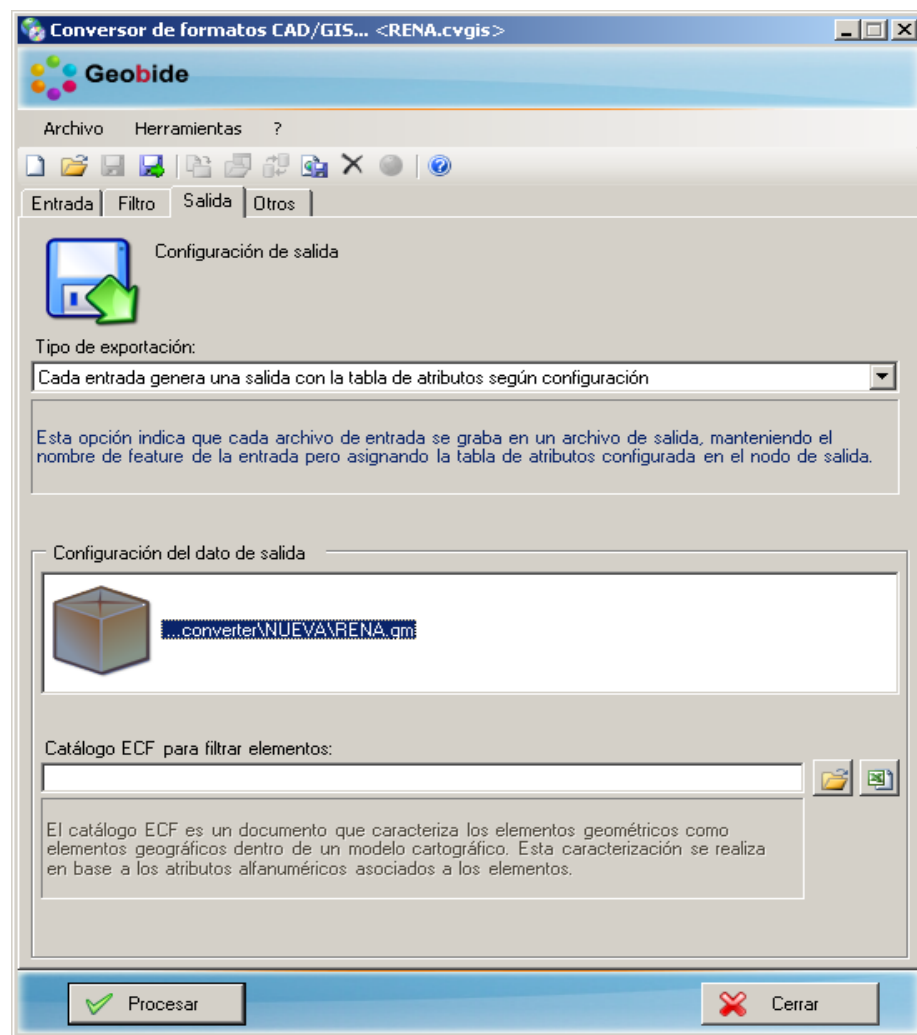
SiteProtectionClasification = 'natureConservation'

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GeoConverter:

Paso 2

Al final de este proceso tenemos definido cómo será nuestro CD de salida:

GML 3.2.1 conforme al MD-INSPIRE

Gracias por vuestra atención

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