

Metadata Data & Services

Informatie Vlaanderen (BE)



Vlaanderen
is verbonden

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Metadata – data & services

Use case

How can one find our

- data and
- services?

Search >> Catalogue >> Geoportal

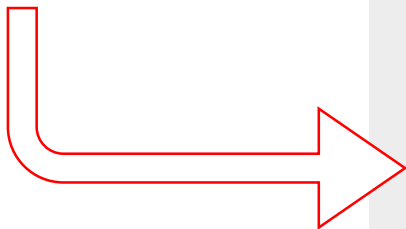
The screenshot shows the 'Catalogue' page of the Geoportal website. The page is titled 'Catalogue' and features a search bar at the top with the text 'Zoeken in Catalogus'. Below the search bar, there are three main sections: 'Datasets', 'Webservices', and 'Applications'. Each section has a 'Recent' and 'Populair' tab. The 'Datasets' section is highlighted with a red box and contains a list of datasets, including 'GRBgis', 'GRBcad', 'Transportzone Meer - RUP_13014_214_00024_00001 - DV', 'RUP Gemeenteplein Meerle - RUP_13014_214_00025_00001 - DV', 'De Spil - RUP_36015_214_00018_00001 - ST', 'Open Ruimte - RUP_23016_214_00004_00001 - ST', 'Meetplaatsen oppervlaktewaterkwaliteit, toestand 27 september 2019', 'VKBO ondernemingen en vestigingseenheden', 'Vlaamse openbare bibliotheken en hun bedieningspunten via POI-service', and 'RUP Noord de Noordvaart - RUP_38016_214_00004_00001 - VV'. The 'Webservices' section contains a list of services, including 'Hydrografie - Fysieke wateren', 'Hydrografie - Netwerk', 'Hydrografie', 'agentschap Informatie Vlaanderen WMTS service', 'WFS Meetplaatsen Oppervlaktewaterkwaliteit', 'WMS Vlaamse Landmaatschappij', 'WMS Digitaal Hoogtemodel Vlaanderen', 'Administratieve eenheden', 'WFS Waterkwaliteitsdoelstellingen Wateroppervlakken', and 'WFS Grenzen van Polders'. The 'Applications' section contains a list of applications, including 'Geopunt - Ondernemen', 'Geopunt - Gewestplan', 'Geoportaal gewestelijke ruimtelijke plannen en verordeningen', 'Bathymetrische Databank', 'Zorgatlas', 'Zonnekaart Vlaanderen', 'Stadsplan Antwerpen', 'Nostalgeo', 'DOV-Verkenner', and 'DOV-Deelstoffenverkenner'. At the bottom of the page, there is a footer with the text 'Dit is een officiële website van de Vlaamse overheid' and 'MEER INFO'.

<http://www.geopunt.be/catalogus>

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Search >> Catalogue >> Geoportaal

Proposal



The screenshot shows the 'Catalogus' page of Geopunt Vlaanderen. The page has a navigation bar with 'Kaart', 'Catalogus', 'Voor experts', 'Actualiteit', and 'Over Geopunt'. A search bar is present with the text 'Zoeken in Catalogus'. Below the navigation, there are three main sections: 'Datasets', 'Webservices', and 'Applications'. Each section has a 'Recent' and 'Populair' tab. The 'Webservices' section is crossed out with a large red X. The 'Datasets' section lists several items, including 'GRBgis', 'GRBcad', and 'Transportzone Meer - RUP_13014_214_00024_00001 - DV'. The 'Applications' section lists items like 'Geopunt - Ondernemen' and 'Geopunt - Gewestplan'. At the bottom of the page, there is a footer with the text 'Dit is een officiële website van de Vlaamse overheid' and 'MEER INFO'.

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Need for service catalogue exists

- > Developers need a service catalogue → current proposal ignores this use case
- > Services that combine several datasets are not discoverable without service catalogue

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W3C ... : there is a need for service catalogues

- > W3C via it's Dataset Exchange Working Group is looking into the use case of how developers can directly find services instead of finding them as distributions of datasets !
- > Extract from the Use Case Description:
 - "Users often access datasets via web services. DCAT provides constructs for associating a resource described by dcat:Dataset with dcat:Distribution descriptions. However, the Distribution class provides only the dcat:accessURL and dcat:downloadURL properties for users to access/download something. **It would be useful for users to gain more information about the web service endpoint and how users can interact with the data.** If information about the web service is known with appropriate identifiers for the data, then users can understand additional context then invoke a call to the web service to access/download the dataset resource or subsets of it."

<https://w3c.github.io/dxwg/ucr/> >> DCAT Distribution to describe web services [ID6]

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The screenshot shows a web browser window with the URL <https://w3c.github.io/dxwg/ucr/#UseCases>. On the left, a vertical red bar contains the text 'W3C Editor's Draft'. The main content area is divided into two columns. The left column contains a 'TABLE OF CONTENTS' with the following items:

- 1. Introduction
- 2. Deliverables
 - 2.1 DCAT 1.1
 - 2.2 Guidance on publishing application profiles of vocabularies
 - 2.3 Content Negotiation by Application Profile
- 3. Methodology
- 4. Tags
- 5. Use Cases
 - 5.1 DCAT packaged distributions [ID1]
 - 5.2 Detailing and requesting additional constraints (profiles) beyond content types [ID2]
 - 5.3 Responses can conform to multiple, modular profiles [ID3]
 - 5.4 Dataset Versioning Information [ID4]
 - 5.5 Discover available content profiles [ID5]
 - 5.6 DCAT Distribution to describe web services [ID6]
 - 5.7 Support associating fine-grained semantics for datasets and resources

The right column contains the following sections:

- Stakeholders:**
Data provider, data consumer
- Full use case description (click to collapse):**
- Description**
Users often access datasets via *web services*. DCAT provides constructs for associating a resource described by `dcat:Dataset` with `dcat:Distribution` descriptions. However, the `Distribution` class provides only the `dcat:accessURL` and `dcat:downloadURL` properties for users to access/download something. It would be useful for users to gain more information about the web service endpoint and how users can interact with the data. If information about the web service is known with appropriate identifiers for the data, then users can understand additional context then invoke a call to the web service to access/download the dataset resource or subsets of it.
- Links**
 - Existing CKAN catalogues such as data.gov.au use a DCAT plugin to represent the dataset entry, which lacks consistent/precise ability to associate a dataset description with a distribution and its appropriate web service implementation/interface. See <http://data.gov.au/dataset/2016-soe-lan-soil-classification> for an example as well as <http://data.gov.au/dataset/116eb634-fc0b-42d8-ae27-b876a12c4f6a.rdf> (which overloads the use of `dct:format` for describing the web service interface for some of the `dcat:Distribution` descriptions).
 - The following is some work done proposing a lightweight method for describing web services and interfaces in RDF/OWL. These can then be specialisations or associations of `dcat:Distribution` and allow users, catalog implementations to standardise on how different endpoints are used.

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Is there an alternative ?

> Simplification

- capabilities of geo-services = “source” + mapping these to metadata
- providing future services with a **standardisation** for MD elements/capabilities

=> IV is currently drafting an API standard (DCAT-AP to MD)

> This offers a way to ensure that services can be discovered individually in a catalogue

Questions ?

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End User (data provider, developer, ...)

- SEARCHING FOR -

