

BASEL, ROTTERDAM AND STOCKHOLM CONVENTIONS

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BRS Projects feed – schema documentation

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I. Introduction

A. Purpose

The objective of the BRS Projects feed is to provide access to its information on projects undertaken directly by the Secretariat or through implementing partners to assist Parties to implement the Basel, Rotterdam and Stockholm Conventions.

The purpose of this document is to describe the various entities and properties that can be retrieved by querying the BRS Projects feed or webservice.

B. Protocol used: OData

The Secretariat is using the Open Data Protocol (OData) as a standard to automatically provide access to its information data sets via online feeds that are updated in real-time.

OData is a REST- based standard, approved by the [OASIS consortium](#), that simplify the querying and sharing of data across applications for re-use in organizations, cloud, and mobile devices.

OData is suited for querying and updating distributed data sets. It applies and builds upon Web technologies such as HTTP, Atom Publishing Protocol (AtomPub) and JSON to provide access to information from a variety of applications, services, and data stores. OData web services endpoints are self-discoverable, selectable, filterable, expandable, orderable and pageable. Results of a query against an OData endpoint can be provided in XML (AtomPub) or JSON.

As such, OData is also the standard used by InforMEA members to share information from their own systems and have it aggregated on the [InforMEA portal](#).

Several libraries are available to retrieve information from OData Feeds, including Angular, Kendo UI or Excel. The free online tool called [PragmatiQa](#) is quite useful to explore existing oData feeds and design OData queries from a visual interface. For a more in-depth description, existing libraries and technical analysis of the OData protocol visit <http://www.odata.org/>.

C. Feed endpoints

Endpoint URL (accessible over http or https): [//informea.pops.int/Projects/Projects.svc/](http://informea.pops.int/Projects/Projects.svc/)

Endpoint self-discoverable schema URL (accessible over http or https):
[//informea.pops.int/Projects/Projects.svc/\\$metadata](http://informea.pops.int/Projects/Projects.svc/$metadata)

Example of user interface (UI) in which the BRS projects feed is used: www.basel.int/tabid/8772

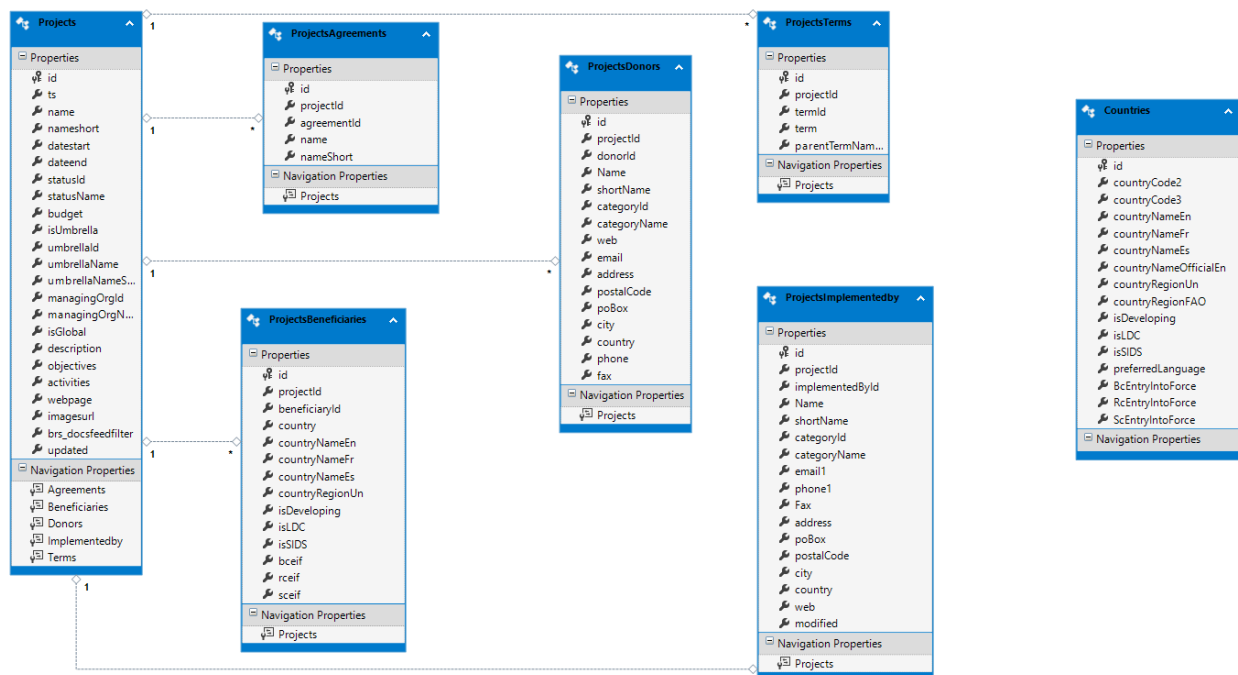
Example of an OData query to retrieve BRS projects on plastics:

```
http://informea.pops.int/Projects/Projects.svc/Projects?$expand=Beneficiaries,Donors,Implementedby&$select=id,ts,name,ameshort,description,datestart,dateend,statusId,statusName,budget,isUmbrella,umbrellaid,umbrellaName,umbrellaNameShort,isGlobal,webpage,updated,Beneficiaries/country,Beneficiaries/countryNameEn,Donors/Name,Donors/shortName,Donors/web,Implementedby/Name,Implementedby/shortName,Implementedby/web&$inlinecount=allpages&$format=json&$orderby=name&$filter=(managingOrgId+eq+guid'85f849ca-701c-e211-809d-0050569d5de3'+and+Terms/any(x:x/termId+eq+guid'5f98dd47-86e5-e311-86cc-0050569d5de3'))
```

II. Schema description

A. Overall description

- Main entity: Projects
- All other entities (ProjectsDonors, ProjectsBeneficiaries, ProjectsDonors, ProjectsImplementedby, ProjectsTerms and Countries) are complementing the information on Projects.
- Navigation properties are using primary keys/foreign key to link records from various entities. Using the “expand” features of OData feeds, this enables to retrieve records from various entities in one query, for instance to retrieve a list of all projects grouped by Donors.



B. Entities description

1. Main Entity: Projects

The projects entity contains the overall information about a project, its name, description, objectives, budget, status, start and end date etc.

Property Name	Type	Data Type	Mandatory	Usage
id	Property	Guid	Yes	Unique project identifier code
ts	Property	Int32	Yes	Unique project identifier code used to build the project details web URL on the BRS website (www.basel.int/tabid/8783/pid/{ts}/Default.aspx)
name	Property	String	Yes	Full name of the project.
nameShort	Property	String	No	List name of the project.

datestart	Property	DateTime	Yes	Start date of the project
dateend	Property	DateTime	Yes	End/closing date of the project
statusId	Property	Int32	Yes	Project status id
statusName	Property	String	Yes	Project status name (initiated, ongoing, etc.)
budget	Property	Decimal	Yes	Budget allocated for the project (US dollar)
isUmbrella	Property	Boolean	Yes	indicates if it is an umbrella project at global level combining different smaller local projects
umbrellaid	Property	Guid	No	Id of the umbrella project to which this project is attached to.
umberellaName	Property	String	No	Name of the umbrella project to which this project is attached to.
umbrellaNameShort	Property	String	No	List name of the umbrella project to which this project is attached to.
managingOrgId	Property	Guid	Yes	Id of the organization managing the project
managingOrgName	Property	String	Yes	Name of the organization managing the project
isGlobal	Property	Boolean	Yes	True if a project is a global project, false otherwise
description	Property	String	No	Description of the project
objectives	Property	String	No	Objective of the project
activities	Property	String	No	Activities of the project
webpage	Property	String	No	Project webpage
imagesurl	Property	String	No	URL of an image or logo illustrating the project
brs_docfeedfilter	Property	String	No	Filter the BRS document
updated	Property	DateTime	Yes	Date of last record update

2. Secondary Entity: ProjectsBeneficiaries

The ProjectsBeneficiaries entity contains the overall information about countries benefiting from projects, including their name, the United Nations regional group to which they belong, information on their development status and when the Basel, Rotterdam and Stockholm Convention entered into force for a given country.

Property Name	Type	Data Type	Mandatory	Usage
id	Property	Guid	Yes	Unique project beneficiary identifier code
projectId	Property	Guid	Yes	Project identifier code to which this beneficiary is related to
beneficiaryId	Property	Guid	Yes	Beneficiary identifier code
country	Property	String	Yes	2 letters ISO code of the country
countryNameEn	Property	String	Yes	List name of the benefiting country in English (as per UN Standards)
countryNameFr	Property	String	Yes	List name of the benefiting country in French (as per UN Standards)

countryNameEs	Property	String	Yes	List name of the benefiting country in Spanish (as per UN Standards)
countryRegionUn	Property	String	Yes	Name or acronym of the United Nations regional group to which the beneficiary country belongs (Warning: FAO regional groups are different from UN regional groups).
isDeveloping	Property	Boolean	Yes	True if the beneficiary country is not a member of the OECD, False otherwise.
isLDC	Property	Boolean	Yes	True if the country is in the LDC (Lowest Development Country) list ¹ , False otherwise
bceif	Property	DateTime	Yes	Basel convention entry into force date for that beneficiary country
rceif	Property	DateTime	Yes	Rotterdam convention entry into force date for that beneficiary country
sceif	Property	DateTime	Yes	Stockholm convention entry into force date for that beneficiary country

3. Secondary Entity: ProjectsDonors

The ProjectsDonors entity contains the overall information about donors providing financial support to various projects. The ProjectsDonors provides information on donors, including their name, their category (government, IGO etc.).

Property Name	Type	Data Type	Mandatory	Usage
id	Property	Guid	Yes	Unique project donor identifier code
projectId	Property	Guid	Yes	Project identifier code to which this donor is contributing to
donorId	Property	Guid	Yes	Donor identifier code
Name	Property	String	Yes	Name of donor
shortName	Property	shortName	No	List name of the donor (acronym or short name)
categoryId	Property	Int32	Yes	Unique id code for the donor's category, or stakeholder group, to which the donor belongs (Government, IGO, etc.)
categoryName	Property	String	Yes	Donors' category name
web	Property	String	No	Web address of donors
email	Property	String	No	Donor's email address

¹ See www.un.org/development/desa/dpad/least-developed-country-category.html

address	Property	String	No	Donor's address: street name
postalCode	Property	String	No	Donor's address: postal/zip code
poBox	Property	String	No	Donor's address: P.O.Box No.
city	Property	String	No	Donor's address: City
country	Property	String	No	Donor's address: country
phone	Property	String	No	Donor's address: phone number
fax	Property	String	No	Donor's address: fax number

4. Secondary Entity: ProjectsImplementedby

The ProjectsImplementedby entity contains the overall information about partners implementing a particular project. This entity provides information on the implementing partner, including their name, their category (regional centre, NGO etc.) and their address.

Property Name	Type	Data Type	Mandatory	Usage
id	Property	Guid	Yes	Unique project implementing partner identifier code
projectId	Property	Guid	Yes	Project identifier code which is implemented by this partner
implementedById	Property	Guid	Yes	Implementing partner identifier code
Name	Property	String	Yes	Implementing partner's full name
shortName	Property	shortName	No	Implementing partner's list name (acronym or short name)
categoryId	Property	Int32	Yes	id code for the partner's category, or stakeholder group, to which the it belongs (Regional Centre, NGO, etc.)
categoryName	Property	String	Yes	Implementing partner category name
Email 1	Property	String	Yes	Partner's address: email
Phone 1	Property	String	Yes	Partner's address: phone number
fax	Property	String	No	Partner's address: fax number
address	Property		Yes	Partner's address: street name
postalCode	Property	String	No	Partner's address: postal/zip code
poBox	Property	String	No	Partner's address: P.O.Box No.
city	Property	String	Yes	Partner's address: city
country	Property	String	Yes	Partner's address: country
web	Property	String	Yes	Partner's address: website
modified	Property	DateTime	Yes	Record last modified date

5. Secondary Entity: ProjectsAgreements

The ProjectsAgreements entity contains information about the MEA, Protocol, or Convention's Amendment that provides a mandate to implement a particular project.

Property Name	Type	Data Type	Mandatory	Usage
id	Property	Guid	Yes	Unique project agreement identifier code
projectId	Property	Guid	Yes	Project identifier code which is implemented under this agreement

agreementId	Property	Guid	Yes	Agreement identifier code
name	Property	String	Yes	Full agreement name
nameShot	Property	String	No	List name of the agreement (acronym, short name)

6. *Secondary Entity: ProjectsTerms*

The ProjectsTerms entity contains information about the “keywords” or “terms” used to describe the nature of the project. Those terms are the ones used by the BRS taxonomy and can be used in search functions.

Property Name	Type	Data Type	Mandatory	Usage
id	Property	Guid	Yes	Unique term identifier code
projectId	Property	Guid	Yes	Project identifier code which is described by this term
termId	Property	Guid	Yes	Term identifier code
term	Property	String	Yes	Term name
parentTermNames	Property	String	No	If this term has broader(s) terms, this property gives a coma separated list of those broader(s) term(s). BRS Taxonomy has only two levels. This property can be used in search functions.

7. *Helper Entity: Countries*

The Countries entity contains information about countries, including their name, ISO codes etc. that can be used in various User Interfaces scenarii.

Property Name	Type	Data Type	Mandatory	Usage
id	Property	String	Yes	Unique country identifier code (used for internal purposes)
countryCode2	Property	String	Yes	Country ISO code (2 digits)
countryCode3	Property	String	Yes	Country ISO code (3 digits)
countryNameEn	Property	String	Yes	Country list name in English (as per UN Standards)
countryNameFr	Property	String	Yes	Country list name in French (as per UN Standards)
countryNameEs	Property	String	Yes	Country list name in Spanish (as per UN Standards)
countryNameOfficialEn	Property	String	Yes	Country official name in English as per UN Standards)

countryRegionUn	Property	String	Yes	UN regional group to which the country belongs
countryRegionFAO	Property	String	Yes	FAO regional group to which the country belongs
isDeveloping	Property	Boolean	Yes	True if the beneficiary country is not a member of the OECD, False otherwise.
isLDC	Property	Boolean	Yes	True if the country is in the LDC (Lowest Development Country) list ² , False otherwise
isSIDS	Property	Boolean	Yes	True if the country is in the SIDs (Small Island Developing States) list ³ , False otherwise
preferredLanguage	Property	String	Yes	Preferred language of communication for the country
BcEntryIntoForce	Property	DateTime	No	Date of entry into force of the Basel Convention for that country. Null if the country has not ratified the Convention.
RcEntryIntoForce	Property	DateTime	No	Date of entry into force of the Rotterdam Convention for that country. Null if the country has not ratified the Convention.
ScEntryIntoForce	Property	DateTime	No	Date of entry into force of the Stockholm Convention for that country. Null if the country has not ratified the Convention.

² See www.un.org/development/desa/dpad/least-developed-country-category.html

³ See www.un.org/ohrlls/content/list-sids