Carlo Cipolloni | Roma, Italy 4-5 October 2018

InfoMAP Validation system

European Environment Agency

Reporting implementation chain

Factsheet

Data Dictionary

- *Vocabulary*
- *Codelist*

Data model

- *UML*
- *XSD Schema*

Schema validation

generation

Data flow implementation

This project is funded by the European Union

Factsheet scope

Data table	Name	Definition	Short description
3.1.	**Share of total, urban and rural population with access to an improved (ISS) sanitation system**	Percentage of the population (%) having access to improved sanitation systems. “Share of population with access to improved sanitation” refers to the percentage of the population with access to facilities which hygienically separate human excreta from human, animal and insect contact.	This indicator was developed by the Joint Monitoring Programme for Water Supply and Sanitation of the United Nations Children’s Fund and the World Health Organization (WHO) to help monitor progress towards one of the Millennium Development Goals.

This project is funded by the European Union

Data dictonary definition

Total_Population_ISS	Total national population with access to Improved Sanitation Systems (ISS)	Total population with access to improved sanitation system refers to the population with access to facilities which hygienically separate human excreta from human, animal and insect contact.	Type of element: non-common Datatype: integer Unit: inhabitants Min. size: 1 Max. size: 10 Min. value: 1 Max. value: 1000 000 000
Urban_Population_ISS	National population living in urban areas with access to Improved Sanitation Systems (ISS)	Urban population with access to improved sanitation system refers to the population with access to facilities which hygienically separate human excreta from human, animal and insect contact.	Type of element: non-common Datatype: integer Unit: inhabitants Min. size: 1 Max. size: 10 Min. value: 1 Max. value: 1000 000 000
Rural_Population_ISS	National population living in rural areas with access to Improved Sanitation Systems (ISS)	Rural population with access to improved sanitation refers to the population with access to facilities which hygienically separate human excreta from human, animal and insect contact.	Type of element: non-common Datatype: integer Unit: inhabitants Min. size: 1 Max. size: 10 Min. value: 1 Max. value: 1000 000 000
Data_Collection_Method	Method of data collection.	Codes elements as defined in codelist vi.	Type of element: common Datatype: integer Size: 3
Remarks	Remarks, comments or explanatory notes (free text).		Type of element: common Datatype: string Min. size: 0 Max. size: 4096

This project is funded by the European Union

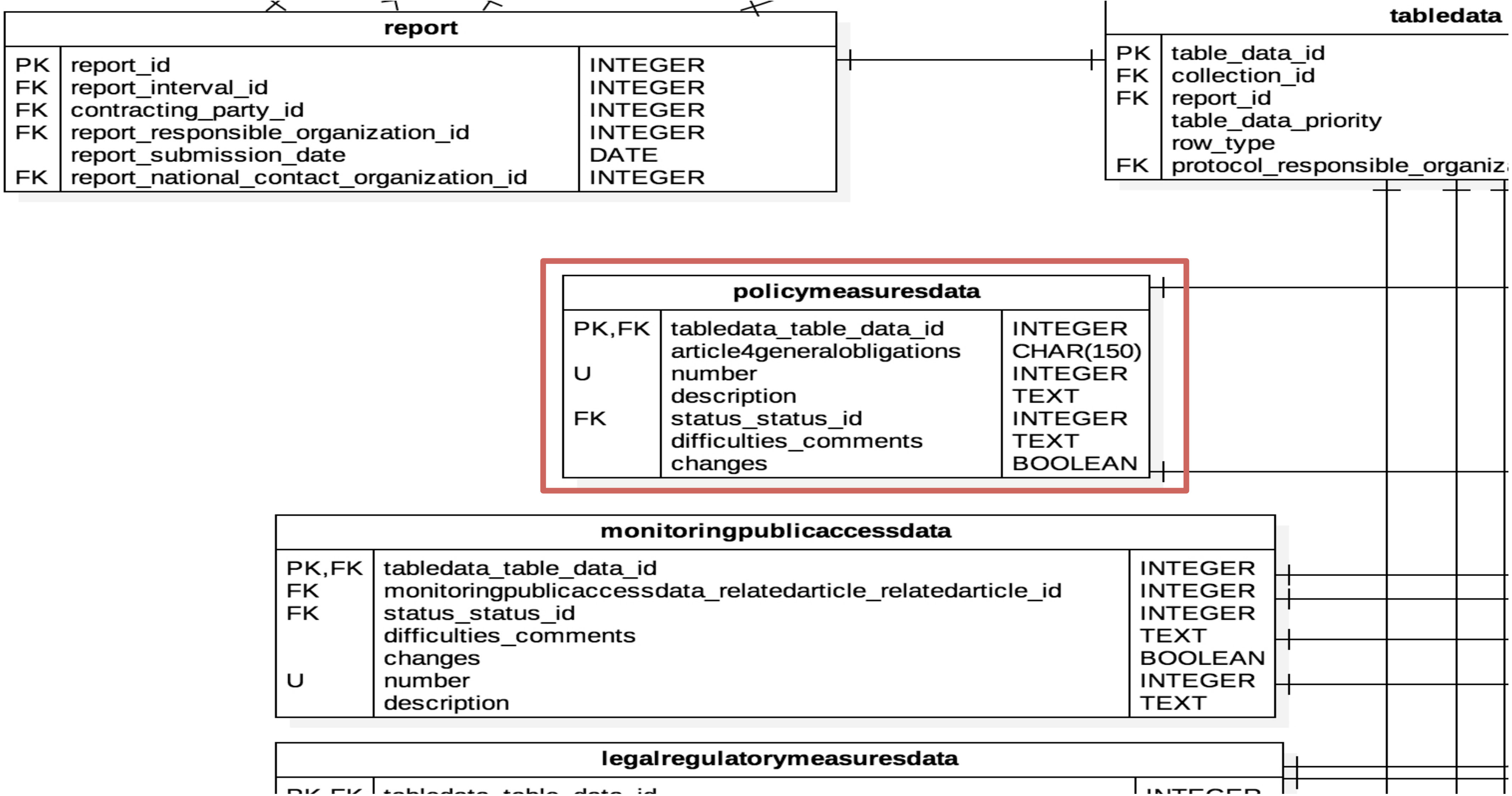
Data dictonary template

Country code	Year	Total_Population	Urban_Population	Rural_Population	Total_Population_ISS	Urban_Population_ISS	Rural_Population_ISS	Data_Collection_Method	Remarks

This project is funded by the European Union

European Environment Agency

Data dictonary model



report

PK	report_id	INTEGER
FK	report_interval_id	INTEGER
FK	contracting_party_id	INTEGER
FK	report_responsible_organization_id	INTEGER
	report_submission_date	DATE
FK	report_national_contact_organization_id	INTEGER

tabledata

PK	table_data_id
FK	collection_id
FK	report_id
	table_data_priority
	row_type
FK	protocol_responsible_organiz

policymeasuresdata

PK,FK	tabledata_table_data_id	INTEGER
	article4generalobligations	CHAR(150)
U	number	INTEGER
	description	TEXT
FK	status_status_id	INTEGER
	difficulties_comments	TEXT
	changes	BOOLEAN

monitoringpublicaccessdata

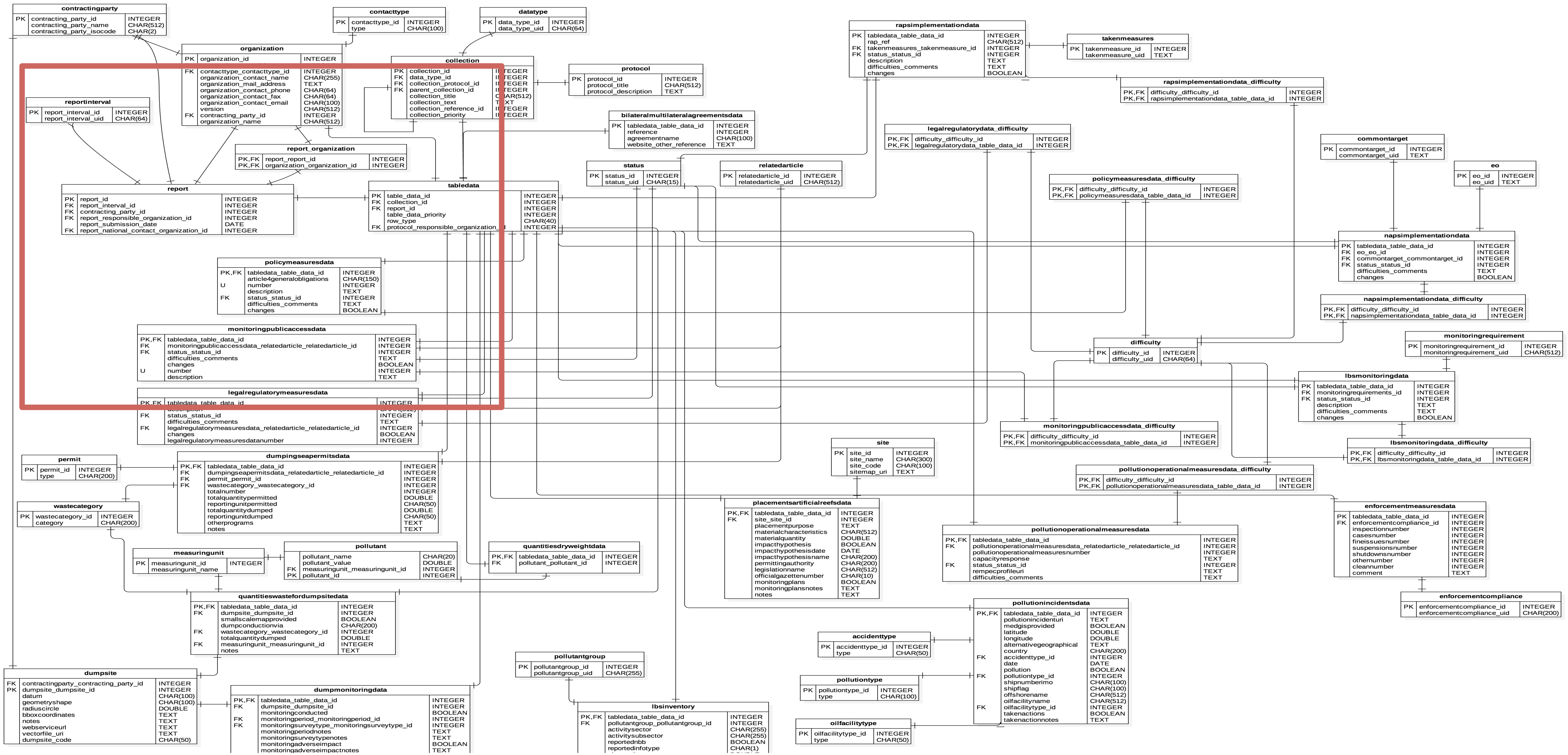
PK,FK	tabledata_table_data_id	INTEGER
FK	monitoringpublicaccessdata_relatedarticle_relatedarticle_id	INTEGER
FK	status_status_id	INTEGER
	difficulties_comments	TEXT
	changes	BOOLEAN
U	number	INTEGER
	description	TEXT

legalregulatorymeasuresdata

PK,FK	tabledata_table_data_id	INTEGER

This project is funded by the European Union

Data dictonary model



contractingparty

PK	contracting_party_id contracting_party_name contracting_party_isocode	INTEGER CHAR(512) CHAR(2)

contacttype

PK	contacttype_id type	INTEGER CHAR(100)

datatype

PK	data_type_id data_type_uid	INTEGER CHAR(64)

organization

PK	organization_id	INTEGER
FK	[illegible]	INTEGER
FK	contacttype_contacttype_id	INTEGER
	organization_contact_name	CHAR(255)
	organization_mail_address	TEXT
	organization_contact_phone	CHAR(64)
	organization_contact_fax	CHAR(64)
	organization_contact_email	CHAR(100)
	version	CHAR(512)
FK	contracting_party_id	INTEGER
	organization_name	CHAR(512)

collection

PK	collection_id	INTEGER
FK	data_type_id	INTEGER
FK	collection_protocol_id	INTEGER
FK	parent_collection_id	INTEGER
	collection_title	CHAR(512)
	collection_text	TEXT
	collection_reference_id	INTEGER
	collection_priority	INTEGER

protocol

PK	protocol_id protocol_title protocol_description	INTEGER CHAR(512) TEXT

reportinterval

PK	report_interval_id report_interval_uid	INTEGER CHAR(64)

report_organization

PK,FK	report_report_id	INTEGER
PK,FK	organization_organization_id	INTEGER

bilateralmultilateralagreementsdata

PK	tabledata_table_data_id	INTEGER
	reference	INTEGER
	agreementname	CHAR(100)
	website_other_reference	TEXT

status

PK	status_id status_uid	INTEGER CHAR(15)

relatedarticle

PK	relatedarticle_id relatedarticle_uid	INTEGER CHAR(512)

report

PK	report_id	INTEGER
FK	report_interval_id	INTEGER
FK	contracting_party_id	INTEGER
FK	report_responsible_organization_id	INTEGER
	report_submission_date	DATE
FK	report_national_contact_organization_id	INTEGER

tabledata

PK	table_data_id	INTEGER
FK	collection_id	INTEGER
FK	report_id	INTEGER
	table_data_priority	INTEGER
	row_type	CHAR(40)
FK	protocol_responsible_organization_id	INTEGER

rapsimplementationdata

PK	tabledata_table_data_id	INTEGER
	rap_ref	CHAR(512)
FK	takenmeasures_takenmeasure_id	INTEGER
FK	status_status_id	INTEGER
	description	TEXT
	difficulties_comments	TEXT
	changes	BOOLEAN

takenmeasures

PK	takenmeasure_id takenmeasure_uid	INTEGER TEXT

rapsimplementationdata_difficulty

PK,FK	difficulty_difficulty_id	INTEGER
PK,FK	rapsimplementationdata_table_data_id	INTEGER

legalregulatorydata_difficulty

PK,FK	difficulty_difficulty_id	INTEGER
PK,FK	legalregulatorydata_table_data_id	INTEGER

commontarget

PK	commontarget_id commontarget_uid	INTEGER TEXT

eo

PK	eo_id eo_uid	INTEGER TEXT

policymeasuresdata_difficulty

PK,FK	difficulty_difficulty_id	INTEGER
PK,FK	policymeasuresdata_table_data_id	INTEGER

napsimplementationdata

PK	tabledata_table_data_id	INTEGER
FK	eo_eo_id	INTEGER
FK	commontarget_commontarget_id	INTEGER
FK	status_status_id	INTEGER
	difficulties_comments	TEXT
	changes	BOOLEAN

policymeasuresdata

PK,FK	tabledata_table_data_id	INTEGER
	article4generalobligations	CHAR(150)
U	number	INTEGER
	description	TEXT
FK	status_status_id	INTEGER
	difficulties_comments	TEXT
	changes	BOOLEAN

napsimplementationdata_difficulty

PK,FK	difficulty_difficulty_id	INTEGER
PK,FK	napsimplementationdata_table_data_id	INTEGER

monitoringpublicaccessdata

PK,FK	tabledata_table_data_id	INTEGER
FK	monitoringpublicaccessdata_relatedarticle_relatedarticle_id	INTEGER
FK	status_status_id	INTEGER
	difficulties_comments	TEXT
	changes	BOOLEAN
U	number	INTEGER
	description	TEXT

difficulty

PK	difficulty_id difficulty_uid	INTEGER CHAR(64)

monitoringrequirement

PK	monitoringrequirement_id monitoringrequirement_uid	INTEGER CHAR(512)

lbsmonitoringdata

PK	tabledata_table_data_id	INTEGER
FK	monitoringrequirements_id	INTEGER
FK	status_status_id	INTEGER
	description	TEXT
	difficulties_comments	TEXT
	changes	BOOLEAN

legalregulatorymeasuresdata

PK,FK	tabledata_table_data_id	INTEGER
	description	CHAR(512)
FK	status_status_id	INTEGER
	difficulties_comments	TEXT
FK	legalregulatorymeasuresdata_relatedarticle_relatedarticle_id	INTEGER
	changes	BOOLEAN
	legalregulatorymeasuresdatanumber	INTEGER

monitoringpublicaccessdata_difficulty

PK,FK	difficulty_difficulty_id	INTEGER
PK,FK	monitoringpublicaccessdata_table_data_id	INTEGER

lbsmonitoringdata_difficulty

PK,FK	difficulty_difficulty_id	INTEGER
PK,FK	lbsmonitoringdata_table_data_id	INTEGER

permit

PK	permit_id type	INTEGER CHAR(200)

dumpingseapermitsdata

PK,FK	tabledata_table_data_id	INTEGER
FK	dumpingseapermitsdata_relatedarticle_relatedarticle_id	INTEGER
FK	permit_permit_id	INTEGER
FK	wastecategory_wastecategory_id	INTEGER
	totalnumber	INTEGER
	totalquantitypermitted	DOUBLE
	reportingunitpermitted	CHAR(50)
	totalquantitydumped	DOUBLE
	reportingunitdumped	CHAR(50)
	otherprograms	TEXT
	notes	TEXT

site

PK	site_id site_name site_code sitemap_uri	INTEGER CHAR(300) CHAR(100) TEXT

pollutionoperationalmeasuresdata_difficulty

PK,FK	difficulty_difficulty_id	INTEGER
PK,FK	pollutionoperationalmeasuresdata_table_data_id	INTEGER

wastecategory

PK	wastecategory_id category	INTEGER CHAR(200)

placementsartificialreefsdata

PK,FK	tabledata_table_data_id	INTEGER
FK	site_site_id	INTEGER
	placementpurpose	TEXT
	materialcharacteristics	CHAR(512)
	materialquantity	DOUBLE
	impacthypothesis	BOOLEAN
	impacthypothesisdate	DATE
	impacthypothesisname	CHAR(200)
	permittingauthority	CHAR(200)
	legislationname	CHAR(512)
	officialgazettenumber	CHAR(10)
	monitoringplans	BOOLEAN
	monitoringplansnotes	TEXT
	notes	TEXT

enforcementmeasuresdata

PK	tabledata_table_data_id	INTEGER
FK	enforcementcompliance_id	INTEGER
	inspectionnumber	INTEGER
	casesnumber	INTEGER
	fineissuesnumber	INTEGER
	suspensionsnumber	INTEGER
	shutdownsnumber	INTEGER
	othernumber	INTEGER
	cleannumber	INTEGER
	comment	TEXT

pollutionoperationalmeasuresdata

PK,FK	tabledata_table_data_id	INTEGER
FK	pollutionoperationalmeasuresdata_relatedarticle_relatedarticle_id	INTEGER
	pollutionoperationalmeasuresnumber	INTEGER
	capacityresponse	TEXT
FK	status_status_id	INTEGER
	rempecprofileuri	TEXT
	difficulties_comments	TEXT

measuringunit

PK	measuringunit_id measuringunit_name	INTEGER

pollutant

	pollutant_name	CHAR(20)
	pollutant_value	DOUBLE
FK	measuringunit_measuringunit_id	INTEGER
PK	pollutant_id	INTEGER

quantitiesdryweightdata

PK,FK	tabledata_table_data_id	INTEGER
FK	pollutant_pollutant_id	INTEGER

enforcementcompliance

PK	enforcementcompliance_id enforcementcompliance_uid	INTEGER CHAR(200)

quantitieswastefordumpsitedata

PK,FK	tabledata_table_data_id	INTEGER
FK	dumpsite_dumpsite_id	INTEGER
	smallscalemapprovided	BOOLEAN
	dumpconductionvia	CHAR(200)
FK	wastecategory_wastecategory_id	INTEGER
	totalquantitydumped	DOUBLE
FK	measuringunit_measuringunit_id	INTEGER
	notes	TEXT

pollutionincidentsdata

PK,FK	tabledata_table_data_id	INTEGER
	pollutionincidenturi	TEXT
	medgisprovided	BOOLEAN
	latitude	DOUBLE
	longitude	DOUBLE
	alternativegeographical	TEXT
	country	CHAR(200)
FK	accidenttype_id	INTEGER
	date	DATE
	pollution	BOOLEAN
FK	pollutiontype_id	INTEGER
	shipnumberimo	CHAR(100)
	shipflag	CHAR(100)
	offshorename	CHAR(512)
	oilfacilityname	CHAR(512)
FK	oilfacilitytype_id	INTEGER
	takenactions	BOOLEAN
	takenactionnotes	TEXT

accidenttype

PK	accidenttype_id type	INTEGER CHAR(50)

pollutantgroup

PK	pollutantgroup_id pollutantgroup_uid	INTEGER CHAR(255)

pollutiontype

PK	pollutiontype_id type	INTEGER CHAR(100)

dumpsite

FK	contractingparty_contracting_party_id	INTEGER
PK	dumpsite_dumpsite_id	INTEGER
	datum	CHAR(100)
	geometryshape	CHAR(100)
	radiuscircle	DOUBLE
	bboxcoordinates	TEXT
	notes	TEXT
	webserviceurl	TEXT
	vectorfile_uri	TEXT
	dumpsite_code	CHAR(50)

dumpmonitoringdata

PK,FK	tabledata_table_data_id	INTEGER
FK	dumpsite_dumpsite_id	INTEGER
	monitoringconducted	BOOLEAN
FK	monitoringperiod_monitoringperiod_id	INTEGER
FK	monitoringsurveytype_monitoringsurveytype_id	INTEGER
	monitoringperiodnotes	TEXT
	monitoringsurveytypenotes	TEXT
	monitoringadverseimpact	BOOLEAN
	monitoringadverseimpactnotes	TEXT

lbsinventory

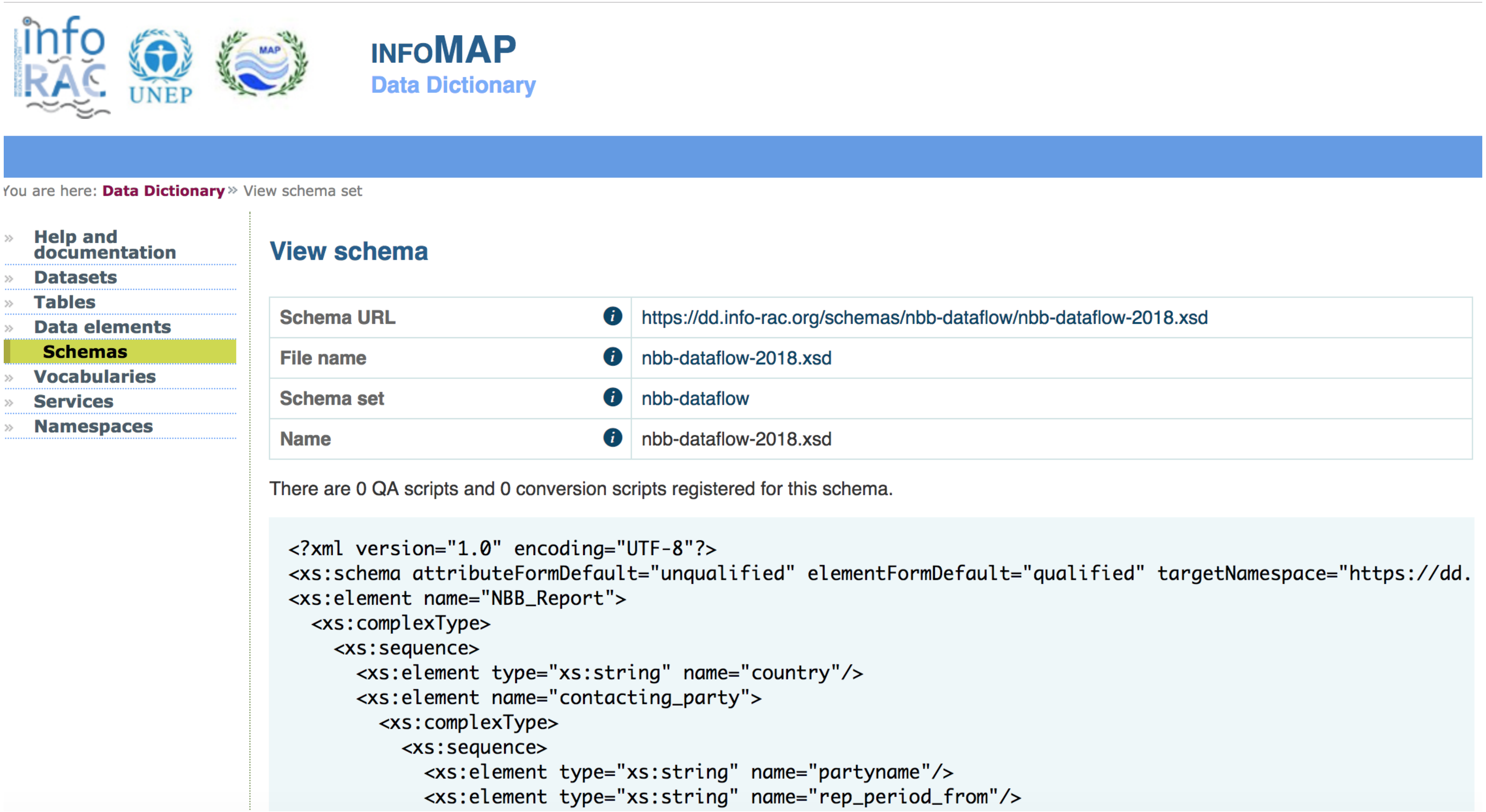
PK,FK	tabledata_table_data_id	INTEGER
FK	pollutantgroup_pollutantgroup_id	INTEGER
	activitysector	CHAR(255)
	activitysubsector	CHAR(255)
	reportednbb	BOOLEAN
	reportedinfotype	CHAR(1)

oilfacilitytype

PK	oilfacilitytype_id type	INTEGER CHAR(50)

This project is funded by the European Union

Data dictonary schema definition


INFOMAP
Data Dictionary
UNEP
MAP
Help and documentation
Datasets
Tables
Data elements
Schemas
Vocabularies
Services
Namespaces

You are here: **Data Dictionary** » View schema set

View schema

Schema URL	https://dd.info-rac.org/schemas/nbb-dataflow/nbb-dataflow-2018.xsd
File name	nbb-dataflow-2018.xsd
Schema set	nbb-dataflow
Name	nbb-dataflow-2018.xsd

There are 0 QA scripts and 0 conversion scripts registered for this schema.

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified" targetNamespace="https://dd.
<xs:element name="NBB_Report">
  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:string" name="country"/>
      <xs:element name="contacting_party">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="partyname"/>
            <xs:element type="xs:string" name="rep_period_from"/>
```

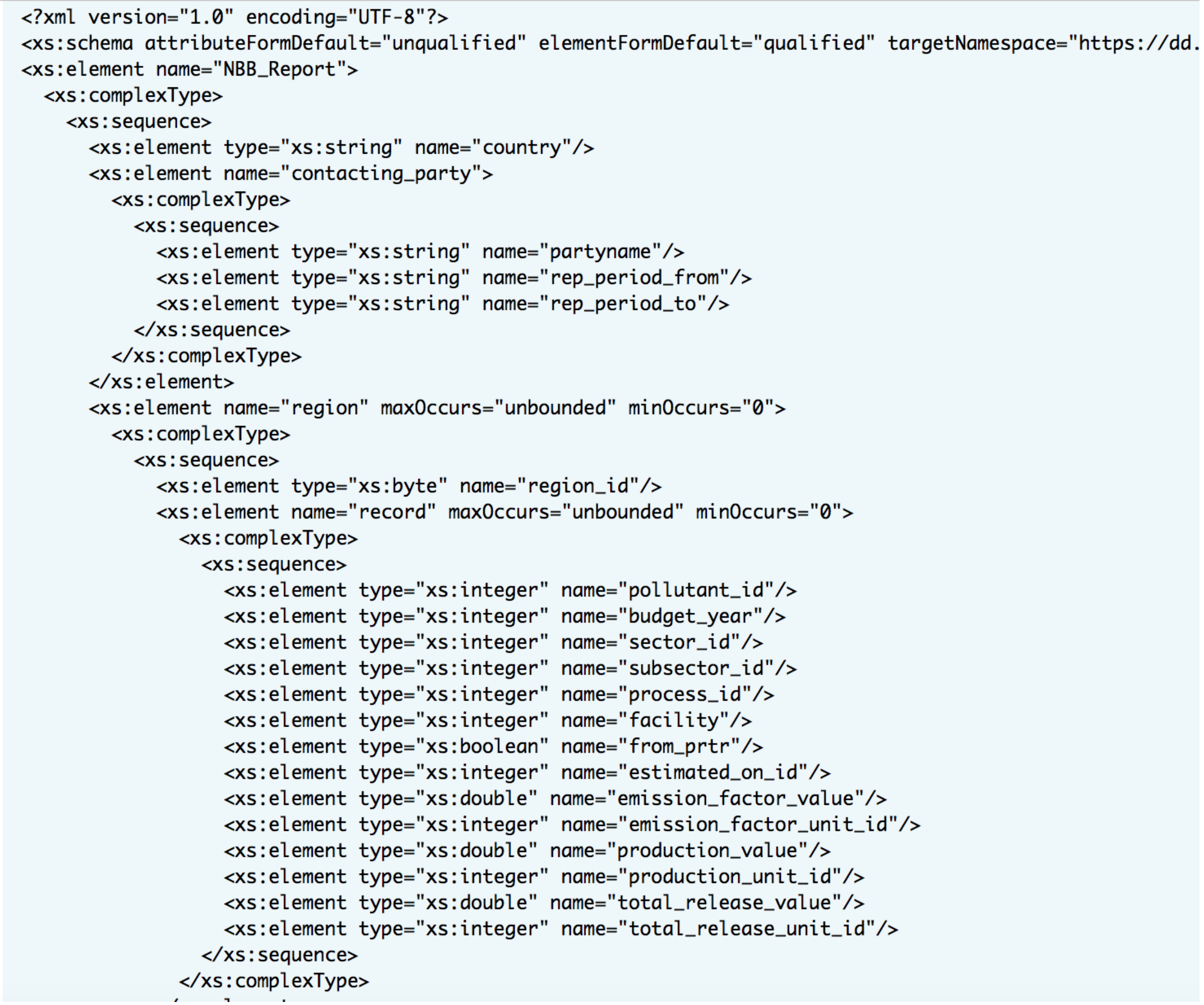
This project is funded by the European Union

UN environment
United Nations Environment Programme

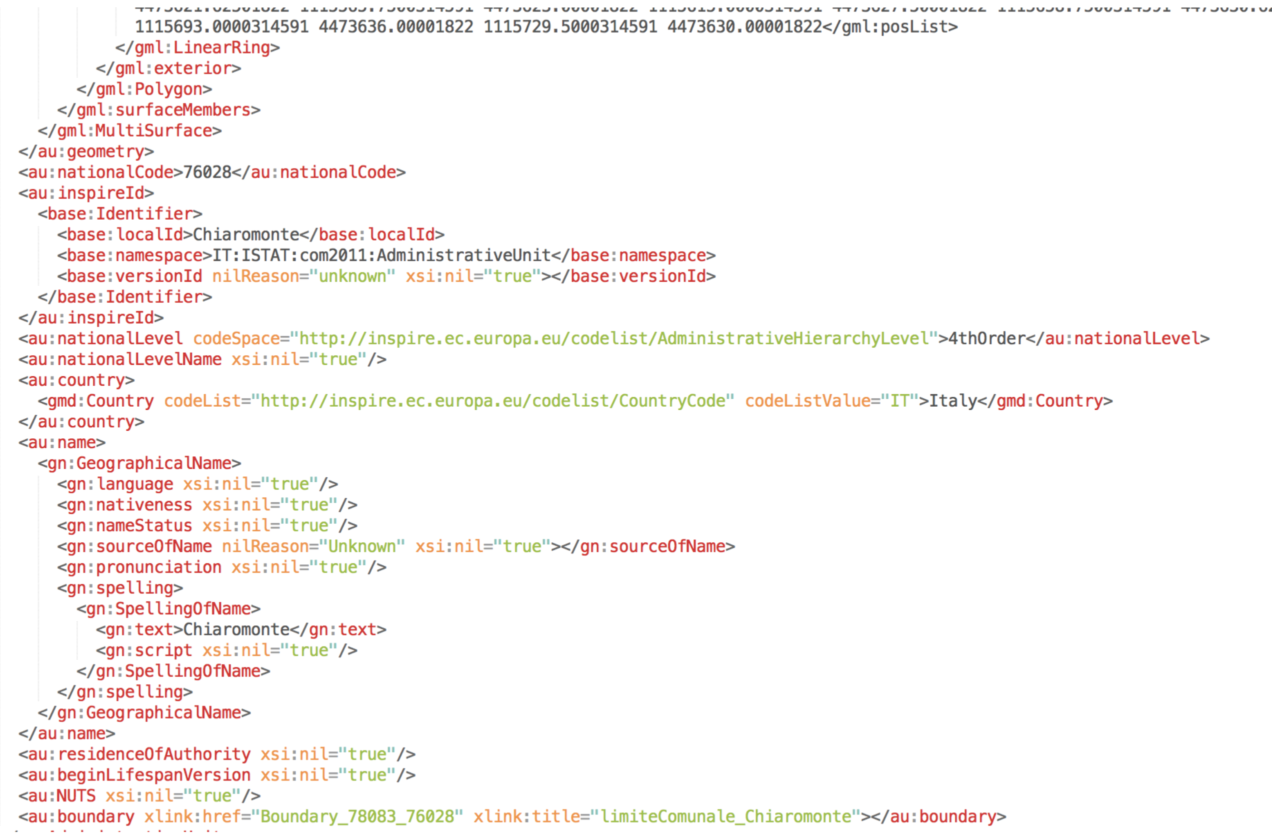
Mediterranean Action Plan
Barcelona Convention

European Environment Agency

schema QC validation



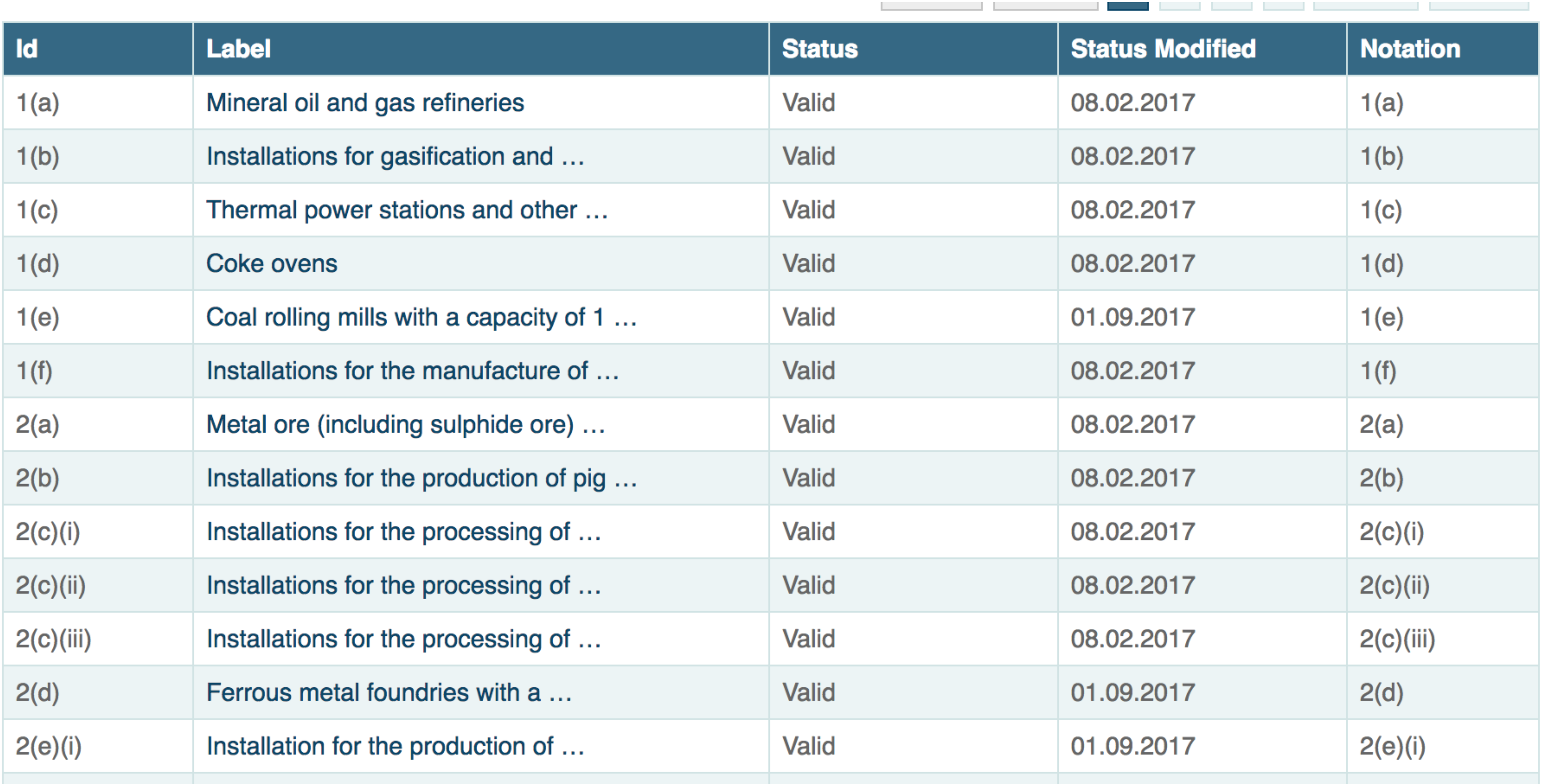
```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified" targetNamespace="https://dd.
<xs:element name="NBB_Report">
  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:string" name="country"/>
      <xs:element name="contacting_party">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="partyname"/>
            <xs:element type="xs:string" name="rep_period_from"/>
            <xs:element type="xs:string" name="rep_period_to"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="region" maxOccurs="unbounded" minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:byte" name="region_id"/>
            <xs:element name="record" maxOccurs="unbounded" minOccurs="0">
              <xs:complexType>
                <xs:sequence>
                  <xs:element type="xs:integer" name="pollutant_id"/>
                  <xs:element type="xs:integer" name="budget_year"/>
                  <xs:element type="xs:integer" name="sector_id"/>
                  <xs:element type="xs:integer" name="subsector_id"/>
                  <xs:element type="xs:integer" name="process_id"/>
                  <xs:element type="xs:integer" name="facility"/>
                  <xs:element type="xs:boolean" name="from_prtr"/>
                  <xs:element type="xs:integer" name="estimated_on_id"/>
                  <xs:element type="xs:double" name="emission_factor_value"/>
                  <xs:element type="xs:integer" name="emission_factor_unit_id"/>
                  <xs:element type="xs:double" name="production_value"/>
                  <xs:element type="xs:integer" name="production_unit_id"/>
                  <xs:element type="xs:double" name="total_release_value"/>
                  <xs:element type="xs:integer" name="total_release_unit_id"/>
                </xs:sequence>
              </xs:complexType>
```



```
            1115693.0000314591 4473636.00001822 1115729.5000314591 4473630.00001822</gml:posList>
          </gml:LinearRing>
        </gml:exterior>
      </gml:Polygon>
    </gml:surfaceMembers>
  </gml:MultiSurface>
</au:geometry>
<au:nationalCode>76028</au:nationalCode>
<au:inspireId>
  <base:Identifier>
    <base:localId>Chiaromonte</base:localId>
    <base:namespace>IT:ISTAT:com2011:AdministrativeUnit</base:namespace>
    <base:versionId nilReason="unknown" xsi:nil="true"></base:versionId>
  </base:Identifier>
</au:inspireId>
<au:nationalLevel codeSpace="http://inspire.ec.europa.eu/codelist/AdministrativeHierarchyLevel">4thOrder</au:nationalLevel>
<au:nationalLevelName xsi:nil="true"/>
<au:country>
  <gmd:Country codeList="http://inspire.ec.europa.eu/codelist/CountryCode" codeListValue="IT">Italy</gmd:Country>
</au:country>
<au:name>
  <gn:GeographicalName>
    <gn:language xsi:nil="true"/>
    <gn:nativeness xsi:nil="true"/>
    <gn:nameStatus xsi:nil="true"/>
    <gn:sourceOfName nilReason="Unknown" xsi:nil="true"></gn:sourceOfName>
    <gn:pronunciation xsi:nil="true"/>
    <gn:spelling>
      <gn:SpellingOfName>
        <gn:text>Chiaromonte</gn:text>
        <gn:script xsi:nil="true"/>
      </gn:SpellingOfName>
    </gn:spelling>
  </gn:GeographicalName>
</au:name>
<au:residenceOfAuthority xsi:nil="true"/>
<au:beginLifespanVersion xsi:nil="true"/>
<au:NUTS xsi:nil="true"/>
<au:boundary xlink:href="Boundary_78083_76028" xlink:title="limiteComunale_Chiaromonte"></au:boundary>
```

This project is funded by the European Union

schema validation – Vocabulary definition

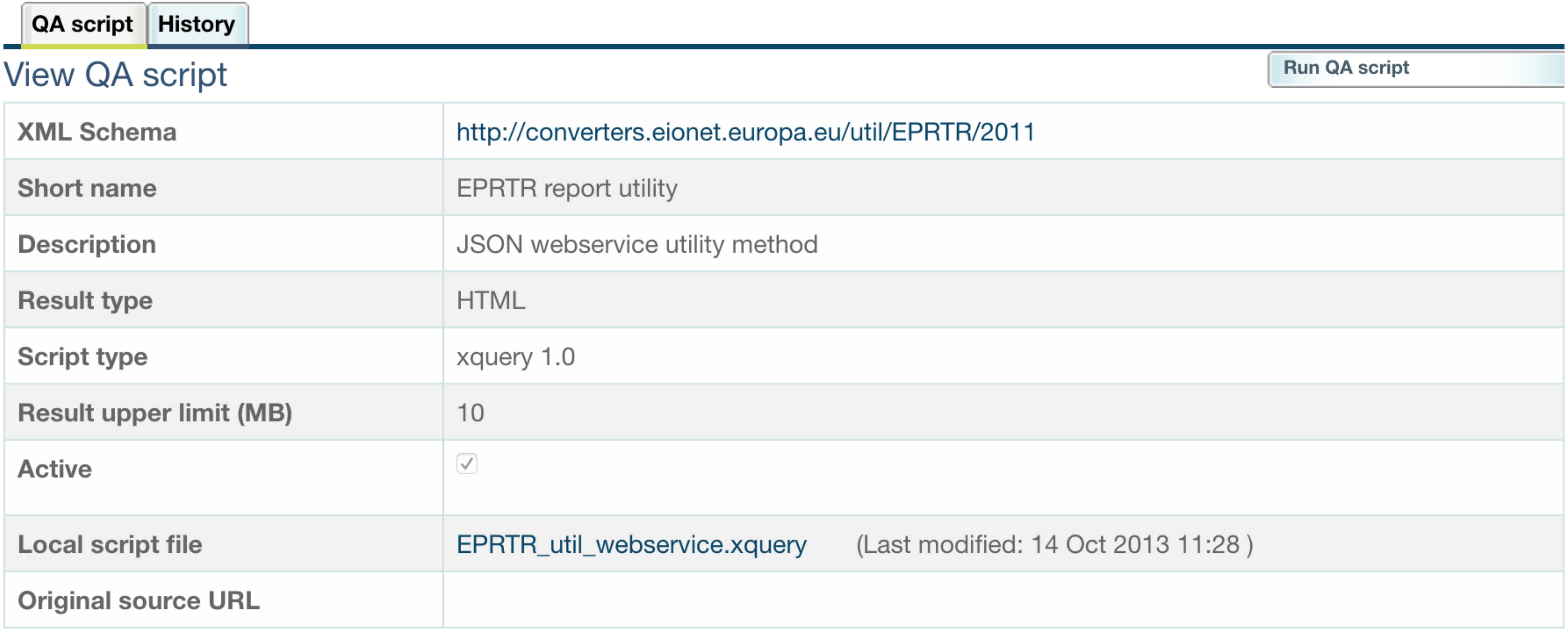


Id	Label	Status	Status Modified	Notation
1(a)	Mineral oil and gas refineries	Valid	08.02.2017	1(a)
1(b)	Installations for gasification and …	Valid	08.02.2017	1(b)
1(c)	Thermal power stations and other …	Valid	08.02.2017	1(c)
1(d)	Coke ovens	Valid	08.02.2017	1(d)
1(e)	Coal rolling mills with a capacity of 1 …	Valid	01.09.2017	1(e)
1(f)	Installations for the manufacture of …	Valid	08.02.2017	1(f)
2(a)	Metal ore (including sulphide ore) …	Valid	08.02.2017	2(a)
2(b)	Installations for the production of pig …	Valid	08.02.2017	2(b)
2(c)(i)	Installations for the processing of …	Valid	08.02.2017	2(c)(i)
2(c)(ii)	Installations for the processing of …	Valid	08.02.2017	2(c)(ii)
2(c)(iii)	Installations for the processing of …	Valid	08.02.2017	2(c)(iii)
2(d)	Ferrous metal foundries with a …	Valid	01.09.2017	2(d)
2(e)(i)	Installation for the production of …	Valid	01.09.2017	2(e)(i)

This project is funded by the European Union

European Environment Agency

schema QA validation



View QA script

XML Schema	http://converters.eionet.europa.eu/util/EPRTR/2011
Short name	EPRTR report utility
Description	JSON webservice utility method
Result type	HTML
Script type	xquery 1.0
Result upper limit (MB)	10
Active	☑
Local script file	EPRTR_util_webservice.xquery (Last modified: 14 Oct 2013 11:28)
Original source URL	

This project is funded by the European Union

Thank you for your attention

www.info-rac.org
info@info-rac.org

This project is funded by the European Union