INSPIRE
Infrastructure for Spatial Information in Europe

INSPIRE Data Specifications – Base Models – Activity Complex

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Foreword

INSPIRE is a Directive proposed by the European Commission in July 2004 setting the legal framework for the establishment of the Infrastructure for Spatial Information in the European Community, for the purposes of Community environmental policies and policies or activities which may have an impact on the environment.

INSPIRE should be based on the infrastructures for spatial information that are created and maintained by the Member States. The components of those infrastructures include: metadata, spatial data themes (as described in Annexes I, II, III of the Directive), spatial data services; network services and technologies; agreements on data and service sharing, access and use; coordination and monitoring mechanisms, processes and procedures.

The guiding principles of INSPIRE are that the infrastructures for spatial information in the Member States will be designed to ensure that spatial data are stored, made available and maintained at the most appropriate level; that it is possible to combine spatial data and services from different sources across the Community in a consistent way and share them between several users and applications; that it is possible for spatial data collected at one level of public authority to be shared between all the different levels of public authorities; that spatial data and services are made available under conditions that do not restrict their extensive use; that it is easy to discover available spatial data, to evaluate their fitness for purpose and to know the conditions applicable to their use.

The text of the INSPIRE Directive is available from the INSPIRE web site (http://inspire.ec.europa.eu/). The Directive identifies what needs to be achieved, and Member States had two years from the date of adoption to bring into force national legislation, regulations, and administrative procedures that define how the agreed objectives will be met taking into account the specific situation of each Member State. To ensure that the spatial data infrastructures of the Member States are compatible and usable in a Community and transboundary context, the Directive requires that common Implementing Rules (IR) are adopted in a number of specific areas. Implementing Rules are adopted as Commission Regulations and are binding in their entirety. The Commission is assisted in the process of adopting such rules by a regulatory committee composed by representatives of the Member States and European Parliament[1]. The Committee is chaired by a representative of the Commission (this is known as the Comitology procedure). The committee was established on 15 August 2007.

The IR will be shaped in their legal structure and form by the Commission legal services on the basis of technical documents prepared by especially convened Drafting Teams, for each of the main components of INSPIRE: metadata, data specifications, network services, data and service sharing, and monitoring procedures. For data specifications, the technical documents for each spatial data theme will be prepared by especially convened Thematic Working Groups.

This document represents a contribution of the Data Specification Drafting Team.

It is important to note that this document is not a draft Implementing Rule, but a document that is a basis for the development and maintenance of the thematic data specifications that will serve as technical basis for the legal text of the INSPIRE Implementing Rules. It is foreseen that relevant requirements will continue to be included in the Implementing Rules.

The document will be publicly available as a 'non-paper', as it does not represent an official position of the Commission, and as such can not be invoked in the context of legal procedures.

[1] The implementing rules for interoperability of spatial data are formally adopted through regulatory procedure with scrutiny according to Council Decision of 17 July 2006 (2006/512/EC). Under this regulation, the Parliament and the Council are on equal footing for all regulatory procedures related to co-decision acts. As a consequence, all measures must be ratified by all three institutions to come into force.

1 Scope

This document specifies an application schema for a Generic Activity Complex Model for use by thematic application schemas in INSPIRE.

The document identifier is: D2.10.3.

2 Normative references

D2.5 v3.4, Generic Conceptual Model, April 2012

3 Terms and abbreviations

The terms and definitions, abbreviations and other conventions specified in clause 3 of the Generic Conceptual Model apply.

4 Generic Activity Complex model

4.1 Overview

The term “Facility” has been included on the descriptive name of several INSPIRE Annex II, III themes (e.g. “Production and Industrial Facilities (PF) ” , “Agricultural and Aquaculture Facilities(AF)”) but is also implicitly included in many others (e.g. Utility and Governmental Services). Some references to “Facilities” are also included in Annex.I themes as “Transport Networks” or “Hydrography”.

Facilities is a generic term that covers a wide range of physical entities of anthropogenic origin designed, built or installed to serve a specific function. It means that the thematic classification of facilities doesn’t depend on their geographical characteristics but on the functions performed on them. Because of it, the same geographical entity can be described by different thematic domains. Activity Complex is the result of an additional harmonization effort among Thematic Groups dealing with “facilities” in order to define a generic model merging common elements described across different thematic domains at the same level of abstraction. This class will be the link, through its geographical component, for different thematic domain specific datasets.

“Activity Complex” is a generic name agreed across thematic domains trying to avoid specific thematic connotations as Plant, Installation, Facility, Establishment or Holding.

Because of this, Activity Complex must adhere to the requirements of horizontal datasets in which facilities are considered independently of their thematic scope (Emissions Directive, Waste Directive, SEVESO,...).

For those data providers in charge of datasets existing as result of these horizontal legislation requirements, the generic class is intended to be a simplification of the process avoiding the complexity of splitting datasets among thematic domains.

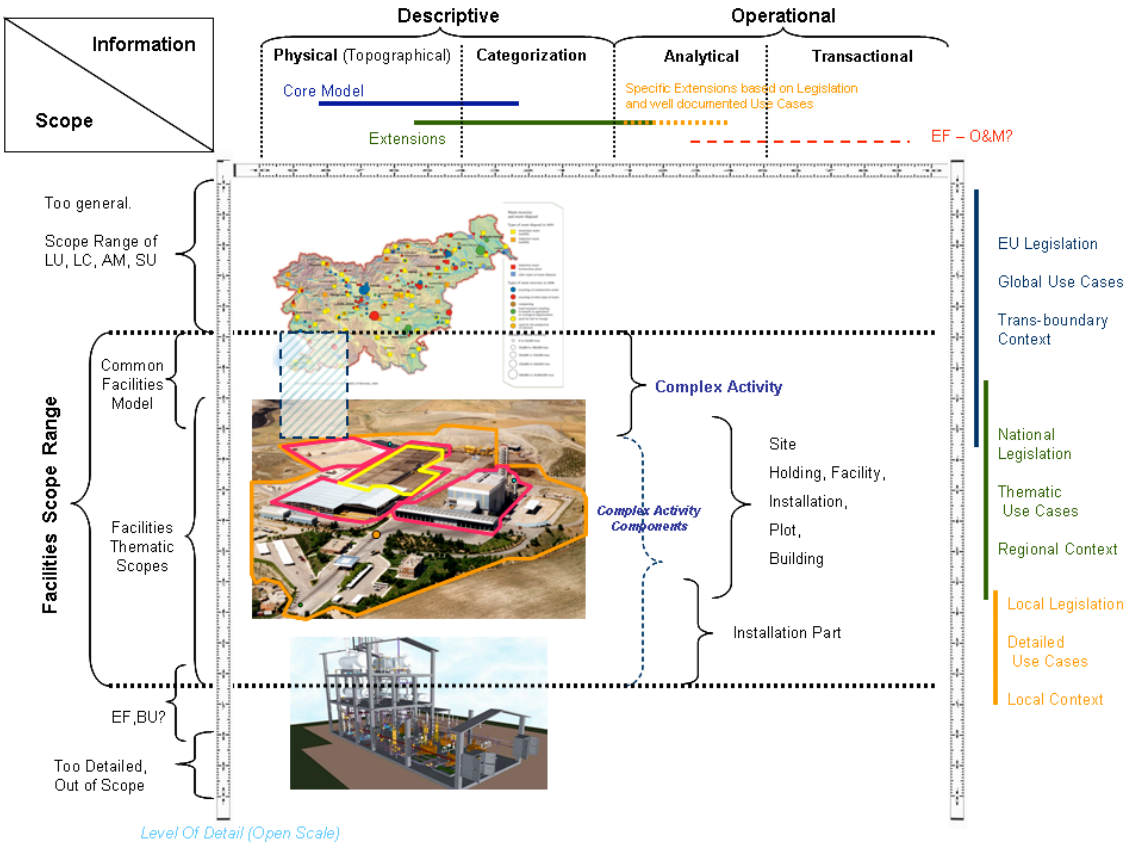

Figure 1 – Scope limits of Facilities and Activity Complex in the context of INSPIRE.

The types defined in the Base Model “Activity Complex” are supposed to be extended in the related thematic data specifications (e.g. Agricultural and Aquaculture Facilities, Production and Industrial Facilities, Utility and Governmental Services).

Requirement 1	If a data provider uses a sub-type of ActivityComplex to make available information on the status, physical capacity, permissions and/or additional information, the relevant code lists and data types (ACStatusValue, Capacity, Permission, ACDescription) included in the ActivityComplex package shall be used.

4.2 The Activity Complex Model

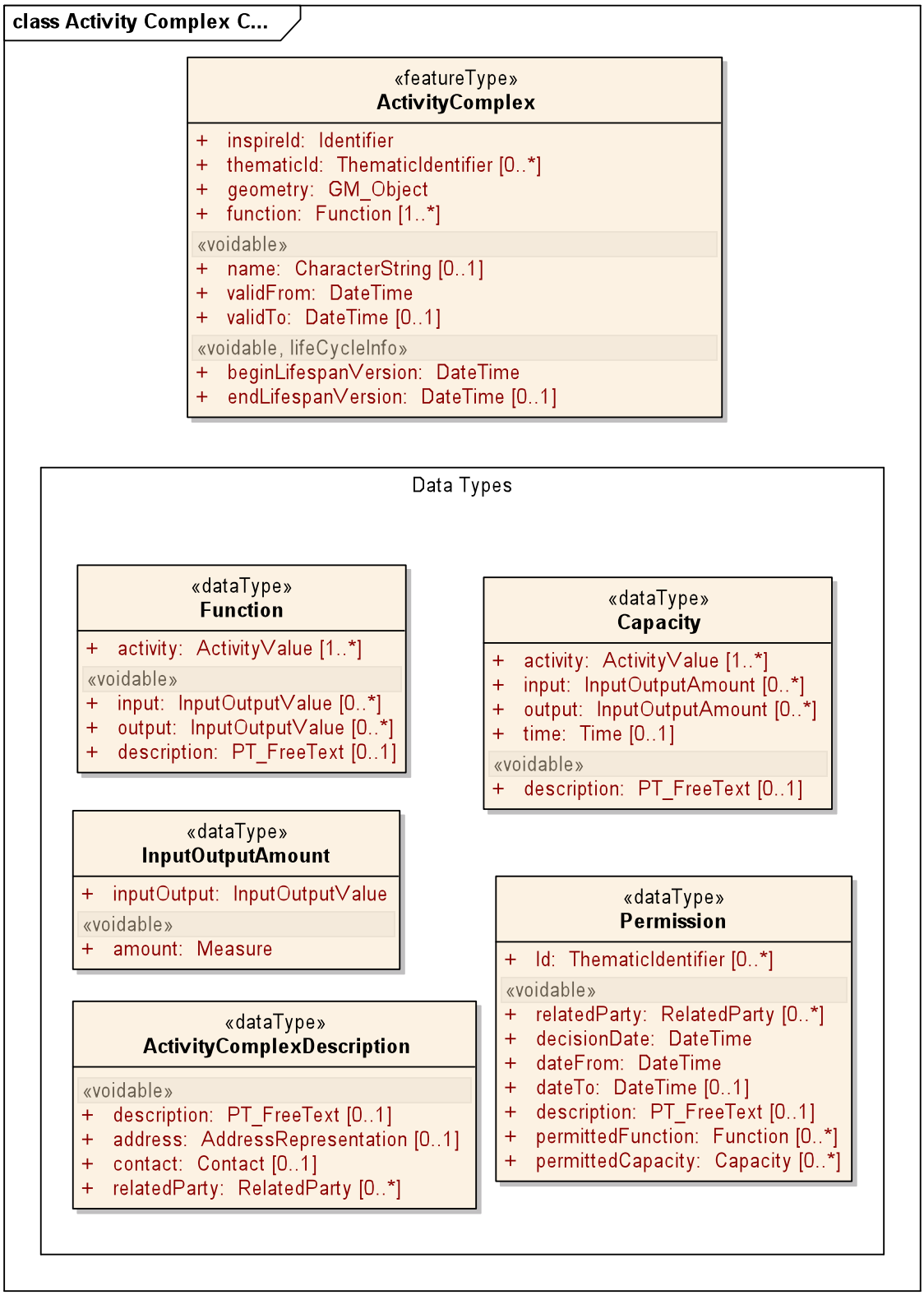

Figure 2 – "Activity Complex" Application Schema

4.2.1 Feature catalogue

Feature catalogue metadata

Feature catalogue name	INSPIRE feature catalogue Activity Complex
Scope	Activity Complex
Version number	3.0
Version date	2012-06-28
Definition source	INSPIRE data specification Activity Complex

Types defined in the feature catalogue

Type	Package	Stereotypes	Section
ActivityComplex	Activity Complex	«featureType»	4.2.1.1
ActivityComplexDescription	Activity Complex	«dataType»	4.2.2.1
ActivityComplexStatusValue	Activity Complex	«codeList»	4.2.3.1
ActivityValue	Activity Complex	«codeList»	4.2.3.2
Capacity	Activity Complex	«dataType»	4.2.2.2
EconomicActivityNACEValue	Activity Complex	«codeList»	4.2.3.3
EconomicActivityWasteStatisticsValue	Activity Complex	«codeList»	4.2.3.4
Function	Activity Complex	«dataType»	4.2.2.3
InputOutputAmount	Activity Complex	«dataType»	4.2.2.4
InputOutputValue	Activity Complex	«codeList»	4.2.3.5
Permission	Activity Complex	«dataType»	4.2.2.5
ProductCPAValue	Activity Complex	«codeList»	4.2.3.6
WasteRecoveryDisposalValue	Activity Complex	«codeList»	4.2.3.7
WasteValue	Activity Complex	«codeList»	4.2.3.8

4.2.1.1 Spatial object types

4.2.1.1.1 ActivityComplex

ActivityComplex	
Name:	activity complex
Definition:	A "single unit", both technically and economically, under the management control of the same legal entity (operator), covering activities as those listed in the Eurostat NACE classification, products and services. Activity Complex includes all infrastructure, equipment and materials. It must represent the whole area, at the same or different geographical location, managed by a "single unit".
Description:	NOTE 1 This class describes the minimal set of elements necessary to describe and identify geographically a legal entity and the activities taken place on it under the context of a Environmental purposes. NOTE 2 "Activity Complex" could be assimilated to terms described on the legislation as Facility, Establishment, Plant, Holding, Organization ,Farm, Extractive Industries or Aquaculture Production Business among others EXAMPLE i.e. an Agro-business that is legally registered under the Emissions Directive.
Status:	Proposed
Stereotypes:	«featureType»
Identifier:	null

Attribute: inspireId

ActivityComplex

Name	INSPIRE identifier
Value type:	Identifier
Definition:	External object identifier of the “Activity Complex”.
Description:	NOTE An external object identifier is a unique object identifier published by the responsible body, which may be used by external applications to reference the spatial object. The identifier is an identifier of the spatial object, not an identifier of the real-world phenomenon.
Multiplicity:	1

Attribute: thematicId

Name	thematic identifier
Value type:	ThematicIdentifier
Definition:	Thematic Activity Complex identifier.
Description:	NOTE It may be the identification code provided or maintained by the Member States public authority to identify the object in the context of specific or general thematic scopes. EXAMPLE Assigned National PRTR Code.
Multiplicity:	0..*

Attribute: name

Name	name
Value type:	CharacterString
Definition:	Descriptive name of the “Activity Complex”.
Description:	NOTE 1 Several names in different languages may be expressed. NOTE 2 It is recommended that the language of the name (part of the Geographical/Name data type) be filled whenever possible.
Multiplicity:	0..1
Stereotypes:	«voidable»

Attribute: geometry

Name	geometry
Value type:	GM_Object
Definition:	The geometry used to define the extent or position of the “Activity Complex”.
Description:	NOTE 1 Based on the provided description, different geometries could be used to represent the Activity Complex as a one legal whole. EXAMPLE 1 E-prtr geometry is given by a single point based on Geographical Coordinates (see below). In other levels of detail or depending on the Data Provider this could be represented [e.g.] by a Multi-poligon. EXAMPLE 2 PRTR - Legal act example: “ … the latitude and longitude coordinates within an arc of 5 minutes that avoid the direct identification of an individual holding….”.
Multiplicity:	1

Attribute: function

Name	function
Value type:	Function
Definition:	Activities performed by the “Activity Complex”. Function is as minimum described by a reference to the Activity and potentially complemented by information about Inputs and Outputs involved depending on the context in which is being described.

ActivityComplex	
Description:	NOTE The Activity described as part of the Function “Activity Complex” should be recorded using a controlled vocabulary where a particular controlled vocabulary is in use within a given context, such as SIC codes in the UK, it is acceptable to use these, however, the preferred choice for European interoperability is whenever possible NACE [NACE].
Multiplicity:	1..*

Attribute: validFrom	
Name	valid from
Value type:	DateTime
Definition:	The time when the activity complex started to exist in the real world.
Multiplicity:	1
Stereotypes:	«voidable»

Attribute: validTo	
Name	valid to
Value type:	DateTime
Definition:	The time when the activity complex no longer exists in the real world.
Multiplicity:	0..1
Stereotypes:	«voidable»

Attribute: beginLifespanVersion	
Name	begin lifespan version
Value type:	DateTime
Definition:	Date and time at which this version of the spatial object was inserted or changed in the spatial data set.
Description:	NOTE This date is recorded to enable the generation of change only update files.
Multiplicity:	1
Stereotypes:	«voidable,lifeCycleInfo»

Attribute: endLifespanVersion	
Name	end lifespan version
Value type:	DateTime
Definition:	Date and time at which this version of the spatial object was superseded or retired in the spatial data set.
Description:	NOTE This date is recorded primarily for those systems which "close" an entry in the spatial data set in the event of an attribute change.
Multiplicity:	0..1
Stereotypes:	«voidable,lifeCycleInfo»

4.2.1.2 Data types

4.2.1.2.1 ActivityComplexDescription

ActivityComplexDescription	
Name:	activity complex description
Definition:	Additional information on an activity complex, including its address, a contact, related parties and a free text description.
Status:	Proposed
Stereotypes:	«dataType»
Identifier:	null

ActivityComplexDescription	
Attribute: description	
Name	description
Value type:	PT_FreeText
Definition:	A complementary definition of the “Activity Complex” and its characteristics.
Description:	NOTE Free text to include or refer any complementary information about the Activity Complex or its characteristics.
Multiplicity:	0..1
Stereotypes:	«voidable»
Attribute: address	
Name	address
Value type:	AddressRepresentation
Definition:	An address for the activity complex, i.e., an address where the activities occur.
Multiplicity:	0..1
Stereotypes:	«voidable»
Attribute: contact	
Name	contact
Value type:	Contact
Definition:	Contact information for the activity complex.
Multiplicity:	0..1
Stereotypes:	«voidable»
Attribute: relatedParty	
Name	related party
Value type:	RelatedParty
Definition:	Information on Parties related to the Activity Complex. It is open to many different roles, such as owners, operators or Competent Authorities.
Description:	NOTE 1 The term covers concepts described on the legislation such as Operator, Company, Port Authority, Agent, Holder, Collector, Producer, Competent Authority or Keeper.
Multiplicity:	0..*
Stereotypes:	«voidable»

4.2.1.2.2 Capacity

Capacity	
Name:	capacity
Definition:	A quantification of an actual or potential ability to perform an activity, that typically does not change, does not change often, or does not change to a significant degree.
Description:	NOTE Capacity could refer depending of the thematic scope to different concepts included on the legislation as “emission limits”, “capacity incineration”, “livestock units”, “nominal capacity”, “objective estimation data”, “rate of desulphurization” or “recycling rate”.
Status:	Proposed
Stereotypes:	«dataType»
Identifier:	null
Attribute: activity	
Name	activity

Capacity	
Value type:	ActivityValue
Definition:	Classified description to define the major final economical objective something (Activity Complex) has being constructed or built for. Any activity carried out in the course of an economic activity, a business or an undertaking, irrespectively of its private or public, profit or non-profit character;
Description:	NOTE The Activity described as part of the Function for “Activity Complex” should be recorded using a controlled vocabulary where a particular controlled vocabulary is in use within a given context, such as SIC codes in the UK, it is acceptable to use these, however, the preferred choice for European interoperability is whenever possible NACE [NACE].
Multiplicity:	1..*
Obligation:	Implementing Rule (requirement)

Attribute: input	
Name	input
Value type:	InputOutputAmount
Definition:	“Data type” that allows providing numerical information about parameters related with the inputs related with the activity carried out by the Activity Complex.
Description:	NOTE Depending on the thematic scope it can contain different values including terms as Registered Pollutants, Waste, Processed Products, leakage, etc.
Multiplicity:	0..*

Attribute: output	
Name	output
Value type:	InputOutputAmount
Definition:	“Data type” that allows providing numerical [measurable] information about parameters related with the outputs derived from the activity carried out by the “Activity Complex”.
Description:	NOTE Depending on the thematic scope it can contain different values including terms as Registered Pollutants, Waste, Processed Products, leakage, etc.
Multiplicity:	0..*

Attribute: time	
Name	time
Value type:	Time
Definition:	The duration of time to which the specified capacity refers, such as 1 year for an annual capacity.
Description:	NOTE Total capacities are specified without duration of time.
Multiplicity:	0..1

Attribute: description	
Name	description
Value type:	PT_FreeText
Definition:	A description of the capacity.
Multiplicity:	0..1
Stereotypes:	«voidable»

4.2.1.2.3 Function

Function	
Name:	function
Definition:	The function of something expressed as an activity and optional input and/or output.

Function

Description:	NOTE Depending on the scope it can refer to different activities (co-incineration, Collection, exploration, incineration, interim disposal, management, recycling, primary production, primary treatment, recovery , recycling, release, storage, use, waste management, etc) and Inputs and Outputs (sludge, substance, tailings, technical products, urban waste water, volatile organic compound, waste, WEEE from private households, etc).
Status:	Proposed
Stereotypes:	«dataType»
Identifier:	null

Attribute: activity

Name	activity
Value type:	ActivityValue
Definition:	Classified description to define the major final economical objective something (Activity Complex) has being constructed or built for. Means any activity carried out in the course of an economic activity, a business or an undertaking, irrespectively of its private or public, profit or non-profit character;
Description:	NOTE The Activity described as part of the Function for “Activity Complex” should be recorded using a controlled vocabulary where a particular controlled vocabulary is in use within a given context, such as SIC codes in the UK, it is acceptable to use these, however, the preferred choice for European interoperability is whenever possible NACE [NACE].
Multiplicity:	1..*
Obligation:	Implementing Rule (requirement)

Attribute: input

Name	input
Value type:	InputOutputValue
Definition:	A [classified/registered] type of material or something immaterial, that enters a technical and economical unit according to its function.
Description:	NOTE Depending on the thematic scope it can contain different values including terms as Biomass, Bio-Waste, Fuel, Organic Solvents, Waste Water, Waste for disposal or recovery, Primary Materials, ..
Multiplicity:	0..*
Stereotypes:	«voidable»
Obligation:	Implementing Rule (requirement)

Attribute: output

Name	output
Value type:	InputOutputValue
Definition:	A [classified/registered] type of material or something immaterial, that leaves a technical and economical unit according to its function, ".
Description:	NOTE Depending on the thematic scope it can contain different values including terms as Registered Pollutants, Waste, Processed Products, leakage, etc.
Multiplicity:	0..*
Stereotypes:	«voidable»
Obligation:	Implementing Rule (requirement)

Attribute: description

Name	description
Value type:	PT_FreeText

Function	
Definition:	A more detailed description of the function and the activities taken place on the "Activity Complex".
Multiplicity:	0..1
Stereotypes:	«voidable»

4.2.1.2.4 InputOutputAmount

InputOutputAmount	
Name:	amount of input or output
Definition:	A [classified/registered] type of material or something immaterial, that enters a technical and economical unit and the measurable amount that complement its definition in the context in which is being referred.
Description:	NOTE Depending on the thematic scope it can refer to different terms as Biomass, Bio-Waste, Fuel, Organic Solvents, Waste Water, Waste for disposal or recovery, Primary Materials, etc.
Status:	Proposed
Stereotypes:	«dataType»
Identifier:	null
Attribute: inputOutput	
Name	input/output
Value type:	InputOutputValue
Definition:	A [classified/registered] type of material or something immaterial, that enters a technical and economical unit according to its function.
Description:	NOTE Depending on the thematic scope it can contain different values including terms as Biomass, Bio-Waste, Fuel, Organic Solvents, Waste Water, Waste for disposal or recovery, Primary Materials, etc.
Multiplicity:	1
Obligation:	Implementing Rule (requirement)
Attribute: amount	
Name	amount
Value type:	Measure
Definition:	An amount measure, such as a volume or mass that complement or extend the definition of one input and output in the context in which this is being referred.
Multiplicity:	1
Stereotypes:	«voidable»

4.2.1.2.5 Permission

Permission	
Name:	permission
Definition:	Official Decision (formal consent) granting authorization to operate all or part of an Activity Complex , subject to certain conditions which guarantee that the installation or parts of installations on the same site operated by the same operator complies with the requirements fixed by the law or standards. A permit may cover one or more functions and fix parameters of capacity; The term may be extended to other kind of certificates or documents of special relevance depending of the scope (e.g. ISO, EMAS, National Quality Standards, etc).

Permission

Description:	NOTE This terms is referred in several legislative acts as “permit” , “authorization”, “development consent” or “exploration permit” among others. EXAMPLE 1 “…a [written] decision by which the competent authority grants permission to operate all or part of an installation” ; EXAMPLE 2 “.. the decision of the competent authority or authorities which entitles the developer to proceed with the project..”.
Status:	Proposed
Stereotypes:	«dataType»
Identifier:	null

Attribute: Id

Name	identifier
Value type:	ThematicIdentifier
Definition:	Identifying reference to the permission.
Multiplicity:	0..*

Attribute: relatedParty

Name	related party
Value type:	RelatedParty
Definition:	Parties related to the permission granted to the activity complex open to many different roles, such as Competent Authorities or Company among others
Description:	NOTE Include concepts described on the legislation such as Operator, Company, Port Authority, Agent, Holder, Competent Authority or Keeper.
Multiplicity:	0..*
Stereotypes:	«voidable»

Attribute: decisionDate

Name	decision date
Value type:	DateTime
Definition:	Temporal reference that complement the definition of the permission.
Description:	NOTE For permissions that become effective immediately, the decision date and the start of the validity period coincide. It may however be a duration of years or decades that separates a decision date from the validity period. For example, a permission decided in 2012 may allow the recovery of waste at a particular site starting from the year EXAMPLE Legal resolutions used to refer to a specific day from which the referred resolution and the emitted permission starts to be valid.
Multiplicity:	1
Stereotypes:	«voidable»

Attribute: dateFrom

Name	date from
Value type:	DateTime
Definition:	A date starting from which the permission applies and is valid.
Multiplicity:	1
Stereotypes:	«voidable»

Attribute: dateTo

Name	date to
Value type:	DateTime

Permission	
Definition:	A date up to which the permission applies and is valid.
Multiplicity:	0..1
Stereotypes:	«voidable»

Attribute: description

Name	description
Value type:	PT_FreeText
Definition:	A description of the permission.
Multiplicity:	0..1
Stereotypes:	«voidable»

Attribute: permittedFunction

Name	permitted function
Value type:	Function
Definition:	Function/s for which the permission is granted. Function is as described by the Activity and potentially complemented by information about the Inputs and Outputs derived from the same.
Description:	NOTE Functions permitted according to the permission, such as a permit for a landfill.
Multiplicity:	0..*
Stereotypes:	«voidable»

Attribute: permittedCapacity

Name	permitted capacity
Value type:	Capacity
Definition:	Maximum amounts of activity input and/or output according to the permission,
Description:	NOTE The physical capacities of a facility may exceed the permitted capacities. EXAMPLE Incineration of at most 100000 tons of residual waste per year.
Multiplicity:	0..*
Stereotypes:	«voidable»

4.2.1.3 Code lists

4.2.1.3.1 ActivityComplexStatusValue

ActivityComplexStatusValue	
Name:	activity complex status
Definition:	Classification of activity complex states (stati).
Status:	Proposed
Stereotypes:	«codeList»
Extensibility:	narrower
Identifier:	http://inspire.ec.europa.eu/codeList/ActivityComplexStatusValue

4.2.1.3.2 ActivityValue

ActivityValue	
Name:	economic activity
Definition:	Classification of economic activities.
Status:	Proposed
Stereotypes:	«codeList»
Extensibility:	any
Identifier:	

4.2.1.3.3 EconomicActivityNACEValue

EconomicActivityNACEValue	
Name:	EU economic activity classification
Subtype of:	ActivityValue
Definition:	Classification of economic activities according to Eurostat NACE.
Status:	Proposed
Stereotypes:	«codeList»
Extensibility:	narrower
Identifier:	http://inspire.ec.europa.eu/codeList/EconomicActivityNACEValue

4.2.1.3.4 EconomicActivityWasteStatisticsValue

EconomicActivityWasteStatisticsValue	
Name:	EU waste statistics economic activity classification
Subtype of:	ActivityValue
Definition:	Classification of economic activities according to Annex I Section 8 of Regulation (EC) No 2150/2002 on waste statistics.
Status:	Proposed
Stereotypes:	«codeList»
Extensibility:	narrower
Identifier:	http://inspire.ec.europa.eu/codeList/EconomicActivityWasteStatisticsValue

4.2.1.3.5 InputOutputValue

InputOutputValue	
Name:	input or output
Definition:	Classification of inputs or outputs.
Status:	Proposed
Stereotypes:	«codeList»
Extensibility:	any
Identifier:	

4.2.1.3.6 ProductCPAValue

ProductCPAValue	
Name:	EU product classification
Subtype of:	InputOutputValue
Definition:	Eurostat Statistical Classification of Products by Activity in the European Economic Community.
Status:	Proposed
Stereotypes:	«codeList»
Extensibility:	narrower
Identifier:	http://inspire.ec.europa.eu/codeList/ProductCPAValue

4.2.1.3.7 WasteRecoveryDisposalValue

WasteRecoveryDisposalValue	
Name:	EU waste recovery disposal classification
Subtype of:	ActivityValue
Definition:	Classification of waste recovery and disposal operations according to Annexes I and II of the EU waste directive (2008/98).
Status:	Proposed
Stereotypes:	«codeList»
Extensibility:	narrower

WasteRecoveryDisposalValue	
Identifier:	http://inspire.ec.europa.eu/codeList/WasteRecoveryDisposalValue

4.2.1.3.8 WasteValue

WasteValue	
Name:	EU waste classification
Subtype of:	InputOutputValue
Definition:	EU Decision 2000/532 List of Wastes.
Status:	Proposed
Stereotypes:	«codeList»
Extensibility:	narrower
Identifier:	http://inspire.ec.europa.eu/codeList/WasteValue

4.2.1.4 Imported types (informative)

This section lists definitions for feature types, data types and enumerations and code lists that are defined in other application schemas. The section is purely informative and should help the reader understand the feature catalogue presented in the previous sections. For the normative documentation of these types, see the given references.

4.2.1.4.1 AddressRepresentation

AddressRepresentation	
Package:	INSPIRE Consolidated UML Model::Themes::Annex I::Addresses::Addresses [Include reference to the document that includes the package, e.g. INSPIRE data specification, ISO standard or the GCM]
Definition:	Representation of an address spatial object for use in external application schemas that need to include the basic, address information in a readable way.
Description:	NOTE 1 The data type includes the all necessary readable address components as well as the address locator(s), which allows the identification of the address spatial objects, e.g., country, region, municipality, address area, post code, street name and address number. It also includes an optional reference to the full address spatial object. NOTE 2 The datatype could be used in application schemas that wish to include address information e.g. in a dataset that registers buildings or properties.

4.2.1.4.2 CharacterString

CharacterString	
Package:	INSPIRE Consolidated UML Model::Foundation Schemas::ISO TC211::ISO 19103:2005 Schema Language::Basic Types::Primitive::Text [Include reference to the document that includes the package, e.g. INSPIRE data specification, ISO standard or the GCM]

4.2.1.4.3 Contact

Contact	
Package:	INSPIRE Consolidated UML Model::Generic Conceptual Model::Base Types::Base Types 2::Drafts - for x-TWG discussion::RelatedParty [Include reference to the document that includes the package, e.g. INSPIRE data specification, ISO standard or the GCM]
Definition:	Communication channels by which it is possible to gain access to someone or something.
Description:	

4.2.1.4.4 DateTime

DateTime

DateTime	
Package:	INSPIRE Consolidated UML Model::Foundation Schemas::ISO TC211::ISO 19103:2005 Schema Language::Basic Types::Primitive::Date and Time [Include reference to the document that includes the package, e.g. INSPIRE data specification, ISO standard or the GCM]

4.2.1.4.5 GM_Object

GM_Object (abstract)	
Package:	INSPIRE Consolidated UML Model::Foundation Schemas::ISO TC211::ISO 19107:2003 Spatial Schema:: Geometry::Geometry root [Include reference to the document that includes the package, e.g. INSPIRE data specification, ISO standard or the GCM]

4.2.1.4.6 Identifier

Identifier	
Package:	INSPIRE Consolidated UML Model::Generic Conceptual Model::Base Types::Base Types [Include reference to the document that includes the package, e.g. INSPIRE data specification, ISO standard or the GCM]
Definition:	External unique object identifier published by the responsible body, which may be used by external applications to reference the spatial object.
Description:	NOTE1 External object identifiers are distinct from thematic object identifiers. NOTE 2 The voidable version identifier attribute is not part of the unique identifier of a spatial object and may be used to distinguish two versions of the same spatial object. NOTE 3 The unique identifier will not change during the life-time of a spatial object.

4.2.1.4.7 Measure

Measure	
Package:	INSPIRE Consolidated UML Model::Foundation Schemas::ISO TC211::ISO 19103:2005 Schema Language::Basic Types::Derived::Units of Measure [Include reference to the document that includes the package, e.g. INSPIRE data specification, ISO standard or the GCM]

4.2.1.4.8 PT_FreeText

PT_FreeText	
Package:	INSPIRE Consolidated UML Model::Foundation Schemas::ISO TC211::ISO 19139 Metadata - XML Implementation::Cultural and linguistic adapdability [Include reference to the document that includes the package, e.g. INSPIRE data specification, ISO standard or the GCM]

4.2.1.4.9 RelatedParty

RelatedParty	
Package:	INSPIRE Consolidated UML Model::Generic Conceptual Model::Base Types::Base Types 2::Drafts - for x-TWG discussion::RelatedParty [Include reference to the document that includes the package, e.g. INSPIRE data specification, ISO standard or the GCM]
Definition:	An organisation or a person with a role related to a resource.
Description:	NOTE 1 A party, typically an individual person, acting as a general point of contact for a resource can be specified without providing any particular role.

4.2.1.4.10 ThematicIdentifier

ThematicIdentifier

ThematicIdentifier	
Package:	INSPIRE Consolidated UML Model::Generic Conceptual Model::Base Types::Base Types 2 [Include reference to the document that includes the package, e.g. INSPIRE data specification, ISO standard or the GCM]
Definition:	thematic identifier to uniquely identify the spatial object.
Description:	Some spatial objects may be assigned multiple unique identifiers. These may have been established to meet data exchange requirements of different reporting obligations at International, European or national levels and/or internal data maintenance requirements.

4.2.1.4.11 Time

Time	
Package:	INSPIRE Consolidated UML Model::Foundation Schemas::OGC::SWE Common Data Model 2.0::Simple Components [Include reference to the document that includes the package, e.g. INSPIRE data specification, ISO standard or the GCM]

4.2.2 INSPIRE-governed code lists

The INSPIRE-defined code lists included in this application schema include the values specified in the tables in this section.

4.2.2.1 Values of code list ActivityComplexStatusValue

This code list is based on the “ConditionOfFacilityValue” described on the Base Types of the Generic Conceptual Model.

Value	Name	Definition	Description
decommissioned	decommissioned	decommissioned	All operations in the activity complex have permanently ceased.
outOfService	outOfService	out of service (disused)	All operations in the activity complex have temporarily ceased.
operational	operational	operational (functional)	The activity complex is in use and/or offering service.
projected	projected	projected	The activity complex is being designed. Construction has not yet started.
underConstruction	underConstruction	under construction	The activity complex is under construction and not yet operational. This applies only to the initial construction and not to maintenance work.

4.2.1 Externally governed code lists

4.2.1.1 Governance, availability and constraints

Code list	Governance	Version	Availability	Formats	Subset
EconomicActivityNACEvalue	Commission of the European Communities (Statistical Office/Eurostat)	Latest available version	http://ec.europa.eu/environment/emas/pdf/general/nacecodes_en.pdf	pdf	http://ec.europa.eu/eurostat/ramon/nomenclatures/index.cfm?TargetUrl=DSP_GEN_DESC_VIEW_NOHDR&StrNom=NACE_REV2&StrLanguageCode=EN
WasteRecoveryDisposalValue	Classification of waste recovery and disposal operations according to Annexes I and II of the EU waste directive (2008/98).	Latest available version	http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32008L0098:EN:NOT	PDF, HTML	
EconomicActivityWasteStatisticsValue	Classification of economic activities according to Annex I Section 8 of Regulation (EC) No 2150/2002 on waste statistics.		http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32002R2150:EN:NOT	PDF, HTML	
WasteValue	Commission of the European Communities	Latest available version: European Waste Catalogue	http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2000:226:0003:0024:EN:PDF	pdf	http://scp.eionet.europa.eu/definitions/low
ProductCPAValue	Commission of the European Communities (Statistical Office/Eurostat)	Latest available version	http://ec.europa.eu/eurostat/ramon/nomenclatures/index.cfm?TargetUrl=LST_NOM_DTL&StrNom=CPA_2008&StrLanguageCode=EN&IntPcKey=&StrLayoutCode=HIERARCHIC	XML, CSV	

4.2.1.2 Rules for code list values

Code list	Identifiers	Identifier examples	Labels

EconomicActivityNACEvalue	Upper-case letters code and numeration split by dots. (e.g A1.1.9)	http://ec.europa.eu/competition/mergers/cases/index/nace_all.html	The name in the “NACE” classification list corresponding to the code.
WasteValue	Numerical Hierarchy by sets of two digits for each of the levels (e.g 02 03 99 Wastes not otherwise specified)	http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2000:226:0003:0024:EN:PDF	The label in the “WEC” classification list corresponding to the code.
ProductCPAValue	Numerical Hierarchy by sets of two digits for each of the levels (e.g 01.23.11 “Pomelo and grapefruits”)	http://ec.europa.eu/eurostat/ramon/nomenclatures/index.cfm?TargetUrl=LST_NOM_DTL&StrNom=CPA_2008&StrLanguageCode=EN&IntPcKey=20670286&StrLayoutCode=HIERARCHIC	The label in the “CPA” classification list corresponding to the code.