

Data Modeling Report

EU Registry on Industrial Sites Streamlined View

Version 4.0 • Proposed



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Streamlined View

Package in package 'EURegistry - INSPIRE PF extension'

The EU Registry application schema imports and extends a modified version of the INSPIRE 'Production And Industrial Facilities - Core' application schema (v4.0).

Find below changes implemented in the INSPIRE PF:

- '**pointGeometry**' --> multiplicity of the 'pointGeometry' element has been changed from [0..1] to [1..1] both in the *ProductionInstallation* feature type and in the *ProductionInstallationPart* feature type
- '**status**' --> multiplicity of the 'status' element has been changed from [1..*] to [1..1] and stereotype is no more voidable. This has been made for the *Productionfacility*, the *ProductionInstallation* and the *ProductionInstallationPart* feature types
- '**Activity Complex import**': a modified version of the Activity Complex core is imported, in which the geometry of the Activity Complex is forced to be point.

All implemented changes do not break INSPIRE rules, since they operate on INSPIRE-allowed values (they are restrictions on the domain).

Streamlined View on EU Registry data model diagram

Class diagram in package 'Streamlined View'

Fields for which no multiplicity is given, are supposed to be mandatory i.e. multiplicity = [1..1]

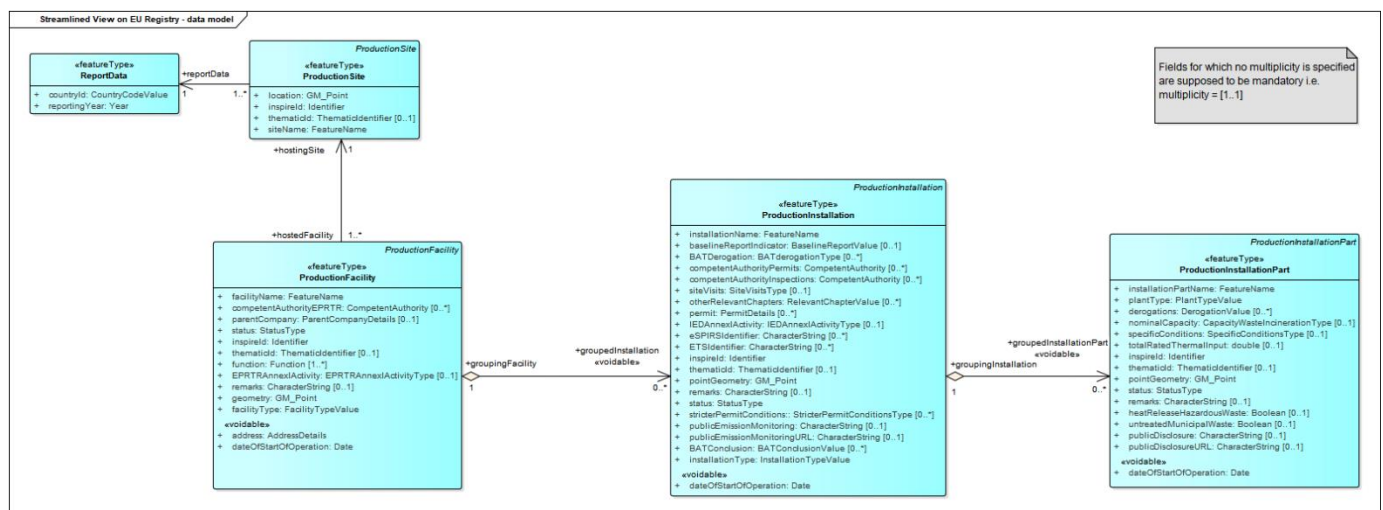


Figure 1: Streamlined View on EU Registry data model

ProductionFacility

«featureType» in package 'Streamlined View'

Extends INSPIRE ProductionFacility

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «featureType» ProductionFacility to «featureType» ProductionFacility
[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ address : AddressDetails
[Stereotype is «voidable».]

◆ facilityName : FeatureName

◆ competentAuthorityEPRTTR : CompetentAuthority
Multiplicity:[0..*]

◆ dateOfStartOfOperation : Date
[Stereotype is «voidable».]

◆ parentCompany : ParentCompanyDetails
Multiplicity:[0..1]

◆ status : StatusType

◆ inspireId : Identifier

◆ thematicId : ThematicIdentifier
Multiplicity:[0..1]

◆ function : Function
Multiplicity:[1..*]

◆ EPRTTRAnnexIAActivity : EPRTTRAnnexIAActivityType
Multiplicity:[0..1]


◆ remarks : CharacterString
Multiplicity:[0..1]

◆ geometry : GM_Point

◆ facilityType : FacilityTypeValue

ASSOCIATIONS

✎ Association (direction: Destination -> Source)

ASSOCIATIONS	
Source: hostingSite (Class) ProductionSite «featureType» Cardinality: [1] A Site hosts one or more Facilities	Target: hostedFacility (Class) ProductionFacility «featureType» Cardinality: [1..*] A Facility must be located on one Site
 Association (direction: Destination -> Source)	
Source: «voidable» groupedInstallation (Class) ProductionInstallation «featureType» Cardinality: [0..*] An Installation is grouped by one Facility	Target: groupingFacility (Class) ProductionFacility «featureType» Cardinality: [1] A Facility may group one or more Installations

ProductionInstallation

«featureType» in package 'Streamlined View'

Extends INSPIRE ProductionInstallation

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «featureType» ProductionInstallation to «featureType» ProductionInstallation
[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ installationName : FeatureName

◆ baselineReportIndicator : BaselineReportValue
Multiplicity:[0..1]

◆ BATDerogation : BATderogationType
Multiplicity:[0..*]

◆ competentAuthorityPermits : CompetentAuthority
Multiplicity:[0..*]

◆ competentAuthorityInspections : CompetentAuthority
Multiplicity:[0..*]

◆ dateOfStartOfOperation : Date

[Stereotype is «voidable»]

◆ siteVisits : SiteVisitsType
Multiplicity:[0..1]

◆ otherRelevantChapters : RelevantChapterValue
Multiplicity:[0..*]

◆ permit : PermitDetails
Multiplicity:[0..*]

◆ IEDAnnexIActivity : IEDAnnexIActivityType
Multiplicity:[0..1]

◆ eSPIRSIdentifier : CharacterString
Multiplicity:[0..*]

◆ ETSIdentifier : CharacterString
Multiplicity:[0..*]

◆ inspireId : Identifier

◆ thematicId : ThematicIdentifier
Multiplicity:[0..1]

ATTRIBUTES

- ◆ pointGeometry : GM_Point
- ◆ remarks : CharacterString
Multiplicity:[0..1]
- ◆ status : StatusType
- ◆ stricterPermitConditions : StricterPermitConditionsType
Multiplicity:[0..*]
- ◆ publicEmissionMonitoring : CharacterString
Multiplicity:[0..1]
- ◆ publicEmissionMonitoringURL : CharacterString
Multiplicity:[0..1]
- ◆ BATConclusion : BATConclusionValue
Multiplicity:[0..*]
- ◆ installationType : InstallationTypeValue

ASSOCIATIONS

✎ Association (direction: Destination -> Source)

Source: «voidable» groupedInstallation (Class)
ProductionInstallation «featureType»
Cardinality: [0..*]

An Installation is grouped by one Facility

Target: groupingFacility (Class)
ProductionFacility «featureType»
Cardinality: [1]

A Facility may group one or more Installations

✎ Association (direction: Destination -> Source)

Source: «voidable» groupedInstallationPart (Class)
ProductionInstallationPart «featureType»
Cardinality: [0..*]

An InstallationPart is grouped by one Installation

Target: groupingInstallation (Class)
ProductionInstallation «featureType»
Cardinality: [1]

An Installation may group one or more InstallationParts

ProductionInstallationPart

«featureType» in package 'Streamlined View'

Extends INSPIRE ProductionInstallationPart

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «featureType» ProductionInstallationPart to «featureType» ProductionInstallationPart
[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ installationPartName : FeatureName

◆ plantType : PlantTypeValue

◆ dateOfStartOfOperation : Date

[Stereotype is «voidable»]

◆ derogations : DerogationValue
Multiplicity:[0..*]

◆ nominalCapacity : CapacityWasteIncinerationType
Multiplicity:[0..1]

◆ specificConditions : SpecificConditionsType
Multiplicity:[0..1]

◆ totalRatedThermalInput : double
Multiplicity:[0..1]

◆ inspireId : Identifier

◆ thematicId : ThematicIdentifier
Multiplicity:[0..1]

◆ pointGeometry : GM_Point

◆ status : StatusType

◆ remarks : CharacterString
Multiplicity:[0..1]


◆ heatReleaseHazardousWaste : Boolean
Multiplicity:[0..1]

◆ untreatedMunicipalWaste : Boolean
Multiplicity:[0..1]

◆ publicDisclosure : CharacterString

ATTRIBUTES

Multiplicity:[0..1]

 publicDisclosureURL : CharacterString
Multiplicity:[0..1]

ASSOCIATIONS

 Association (direction: Destination -> Source)

Source: «voidable» groupedInstallationPart (Class)
ProductionInstallationPart «featureType»
Cardinality: [0..*]

An InstallationPart is grouped by one Installation

Target: groupingInstallation (Class)
ProductionInstallation «featureType»
Cardinality: [1]

An Installation may group one or more
InstallationParts

ProductionSite

«featureType» in package 'Streamlined View'

Extends INSPIRE ProductionSite

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «featureType» ProductionSite to «featureType» ProductionSite
[Direction is 'Source -> Destination'.]

ATTRIBUTES

location : GM_Point

inspireId : Identifier

thematicId : ThematicIdentifier
Multiplicity:[0..1]

siteName : FeatureName

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: (Class)
ProductionSite «featureType»
Cardinality: [1..*]

Target: reportData (Class)
ReportData «featureType»
Cardinality: [1]

A report refers to one or more Production site

Association (direction: Destination -> Source)

Source: «voidable» hostingSite (Class)
ProductionSite «featureType»
Cardinality: [1]

Target: hostedFacility (Class)
ProductionFacility «featureType»
Cardinality: [1..*]

A Site hosts one or more Facilities

A Facility may be located on one Site

ReportData

«featureType» in package 'Streamlined View'

ATTRIBUTES

 countryId : CountryCodeValue

 reportingYear : Year

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: (Class)

ProductionSite «featureType»

Cardinality: [1..*]

Target: reportData (Class)

ReportData «featureType»

Cardinality: [1]

A report refers to one or more Production site