

# XETL data model

Version 1.11



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# 1 Diagrams

*Package in package 'XETL'*

Diagrams  
Version Phase 1.0 Proposed  
created on 04/06/2015. Last modified 04/06/2015  
Alias

## 1.1 Annual report

*Package in package 'Diagrams'*

Annual report  
Version 1.0 Phase 1.0 Proposed  
swalense created on 04/06/2015. Last modified 30/06/2015  
Alias

### 1.1.1 00 - Base diagram

*Class diagram in package 'Annual report'*

00 - Base  
Version 1.0  
swalense created on 01/06/2015. Last modified 02/11/2015



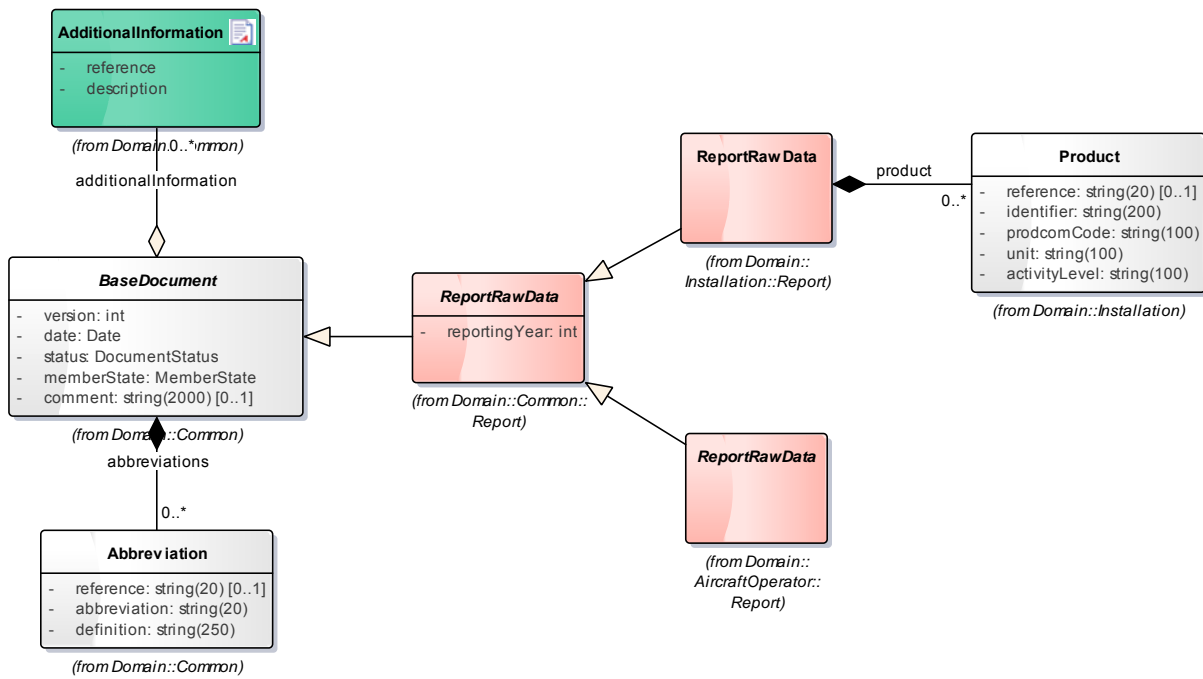


Figure 2: 01 - Management

### 1.1.3 AircraftOperator

Package in package 'Annual report'

AircraftOperator  
 Version 1.0 Phase 1.0 Proposed  
 swalense created on 04/06/2015. Last modified 04/06/2015  
 Alias

#### 1.1.3.1 00 - Identification diagram

Class diagram in package 'AircraftOperator'

00 - Identification  
 Version 1.0  
 swalense created on 21/04/2015. Last modified 29/10/2015



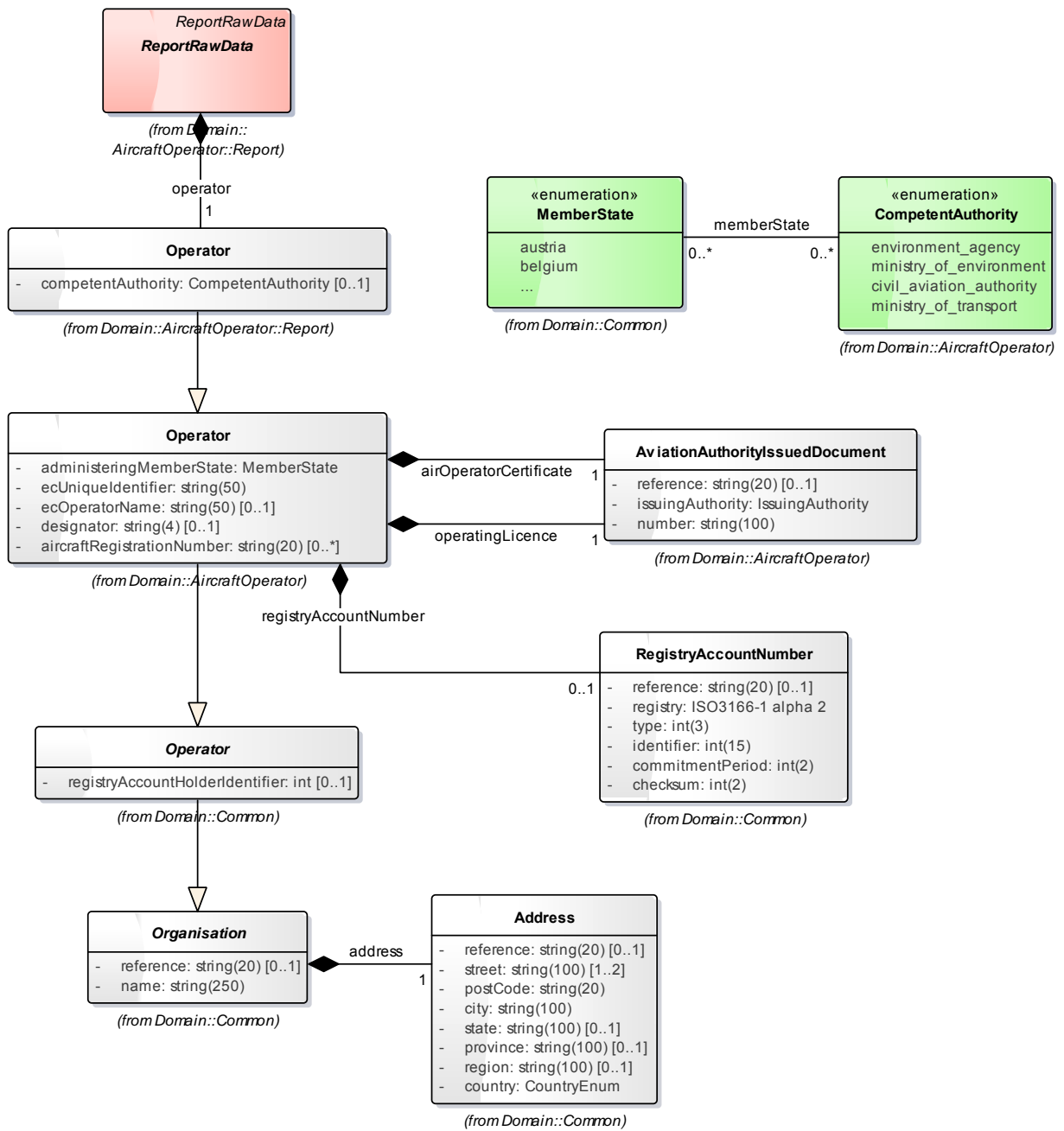


Figure 3: 00 - Identification

### 1.1.3.2 01 - Annual emissions diagram

Class diagram in package 'AircraftOperator'

01 - Annual emissions  
Version 1.0

swalense created on 16/02/2015. Last modified 02/11/2015

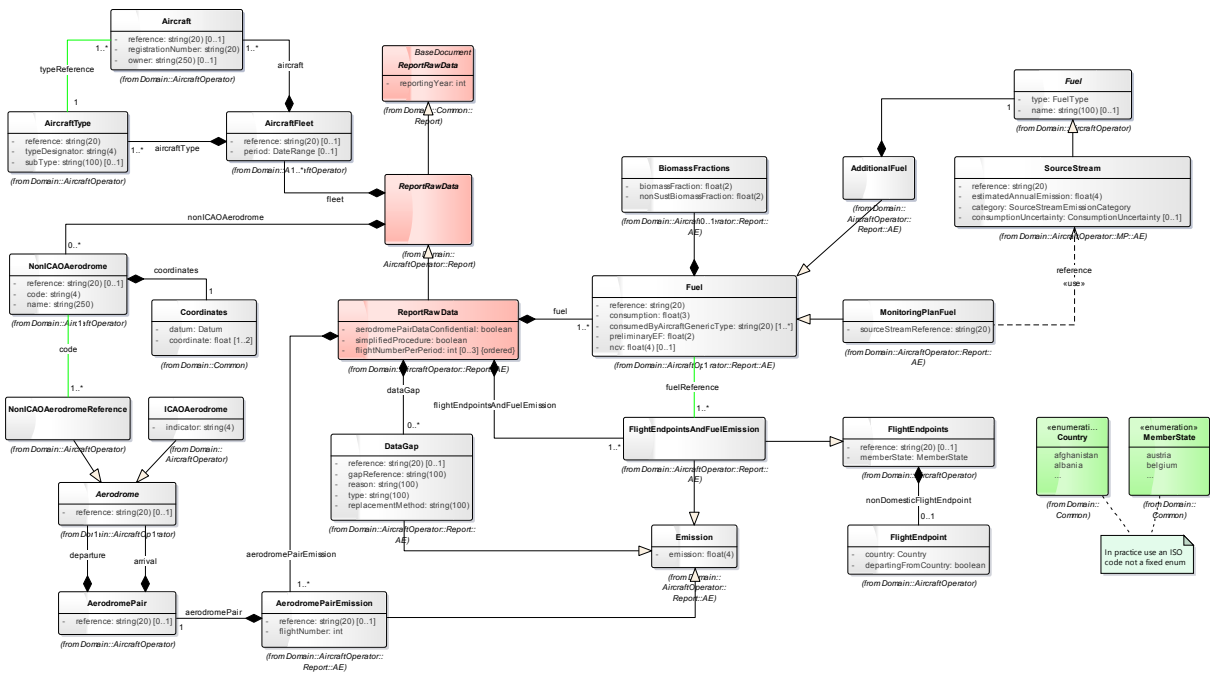


Figure 4: 01 - Annual emissions

### 1.1.1.3.3 02 - tkm diagram

Class diagram in package 'AircraftOperator'

02 - tkm  
Version 1.0  
swalense created on 11/03/2015. Last modified 16/10/2015

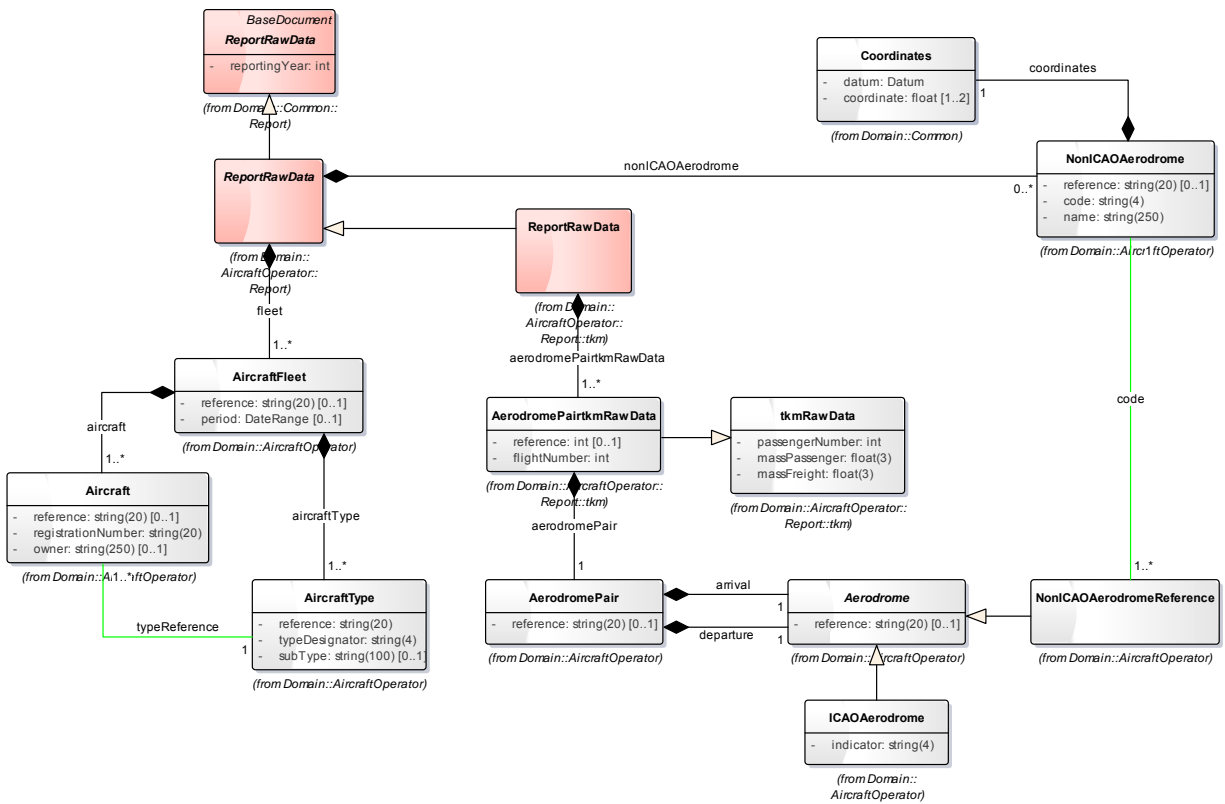


Figure 5: 02 - tkm

### 1.1.3.4 11 - Summary - Annual emissions diagram

Class diagram in package 'AircraftOperator'

11 - Summary - Annual emissions

Version 1.0

swalense created on 11/05/2015. Last modified 29/10/2015

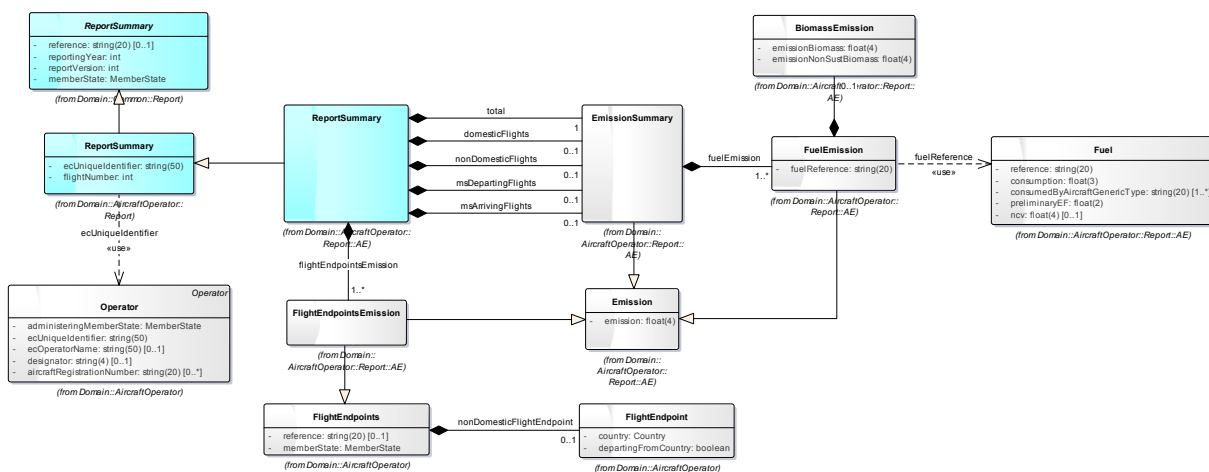


Figure 6: 11 - Summary - Annual emissions

### 1.1.3.5 12 - Summary - tkm diagram

Class diagram in package 'AircraftOperator'

12 - Summary - tkm

Version 1.0

SWALENSE created on 06/05/2015. Last modified 06/10/2015

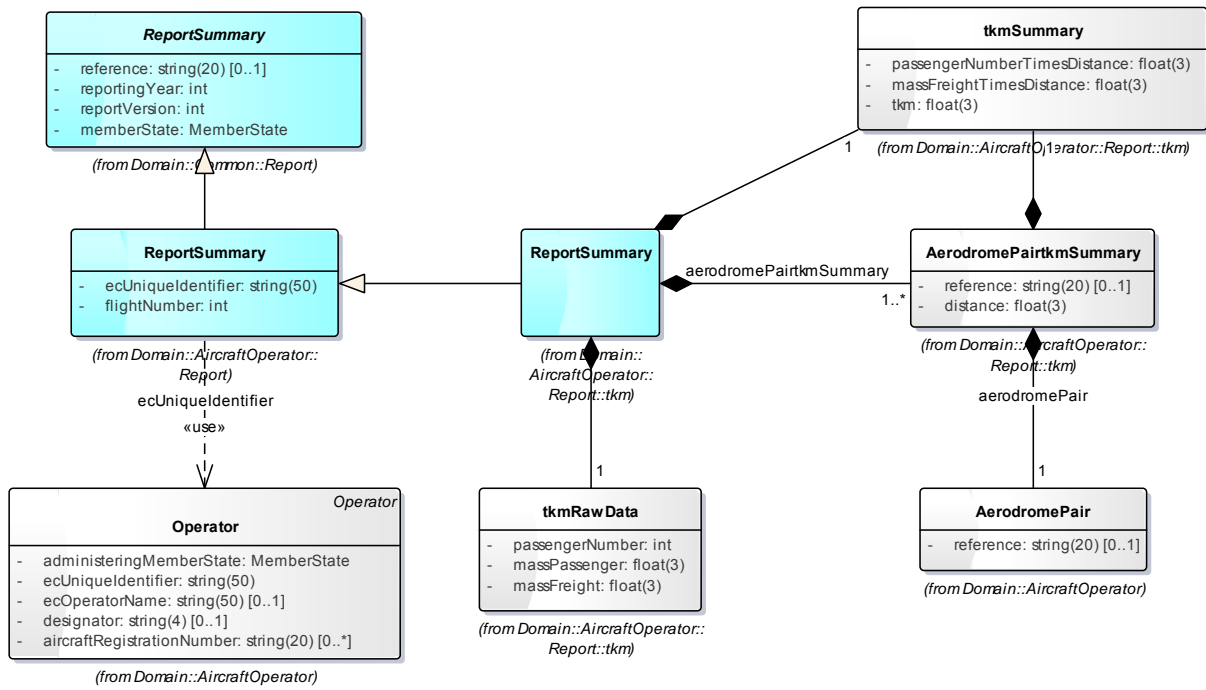


Figure 7: 12 - Summary - tkm

### 1.1.4 Installation

Package in package 'Annual report'

Installation  
 Version 1.0 Phase 1.0 Proposed  
 swalense created on 04/06/2015. Last modified 04/06/2015  
 Alias

#### 1.1.4.1 00 - Identification diagram

Class diagram in package 'Installation'

00 - Identification  
 Version 1.0  
 swalense created on 02/02/2015. Last modified 02/11/2015

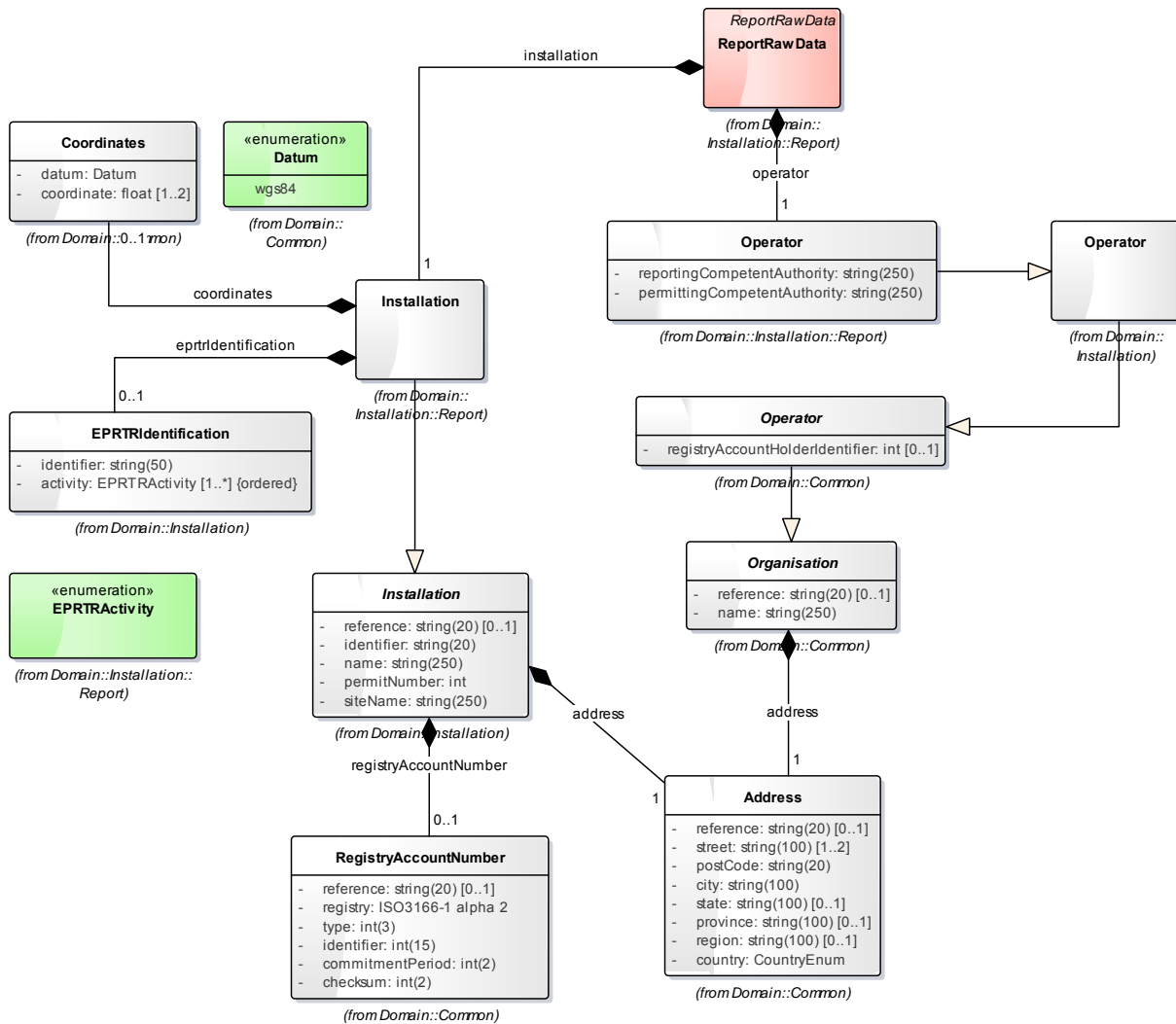


Figure 8: 00 - Identification

### 1.1.4.2 01 - Description diagram

Class diagram in package 'Installation'

01 - Description  
Version 1.0

swalense created on 12/05/2015. Last modified 02/11/2015

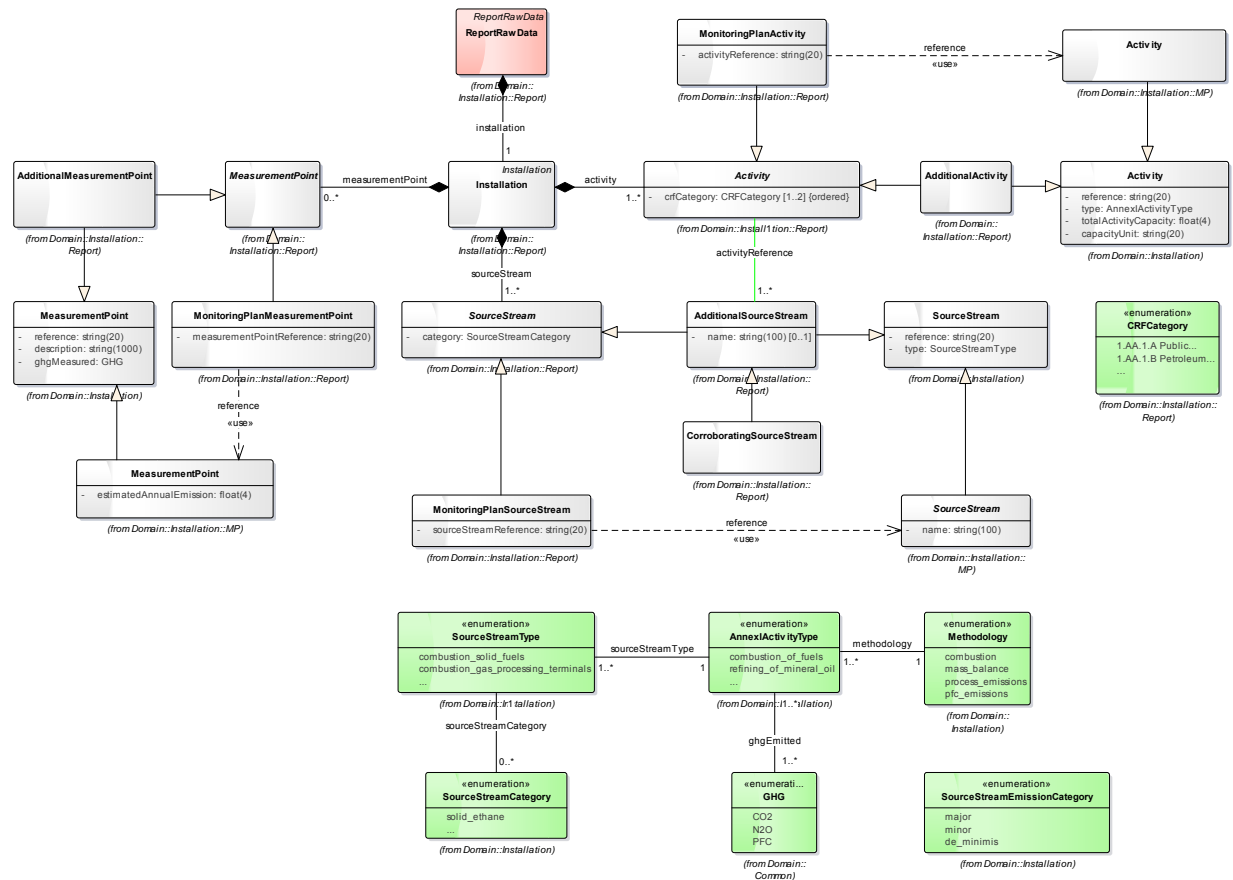


Figure 9: 01 - Description

### 1.1.4.3 02 - Base layout diagram

Class diagram in package 'Installation'

02 - Base layout  
Version 1.0

swalense created on 10/03/2015. Last modified 16/09/2015

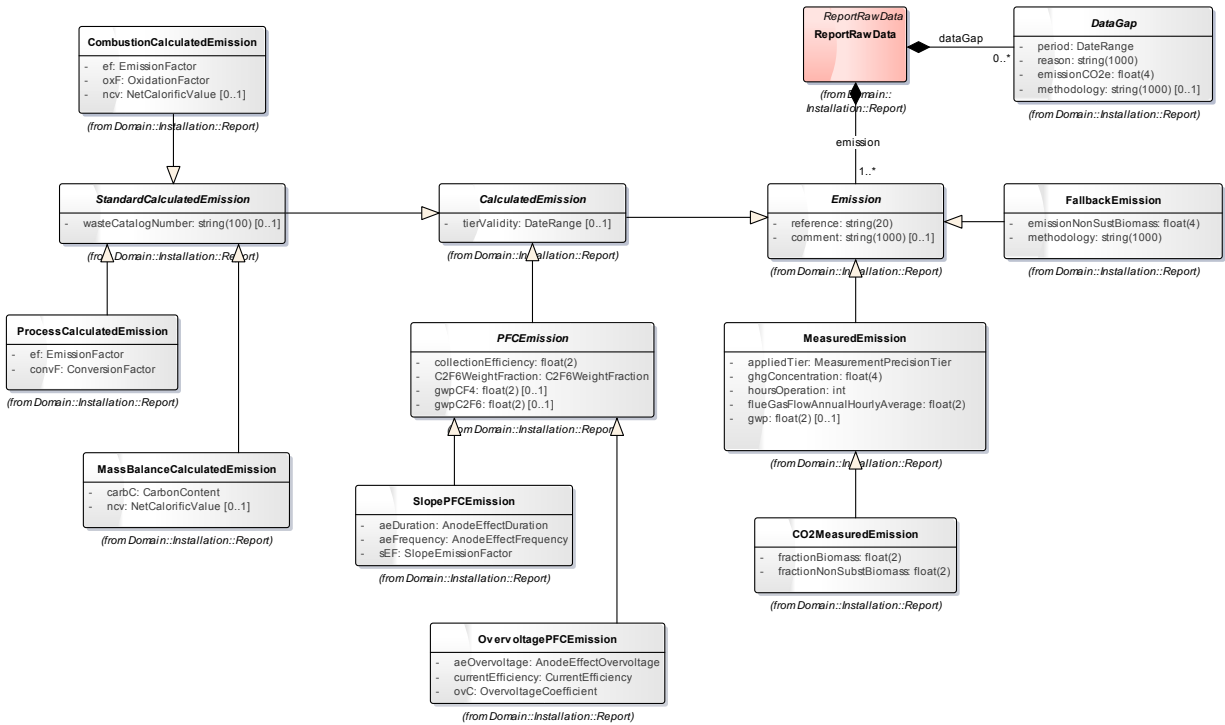


Figure 10: 02 - Base layout

### 1.1.1.4.4 03 - Calculation diagram

Class diagram in package 'Installation'

03 - Calculation  
Version 1.0

swalense created on 13/02/2015. Last modified 30/09/2015

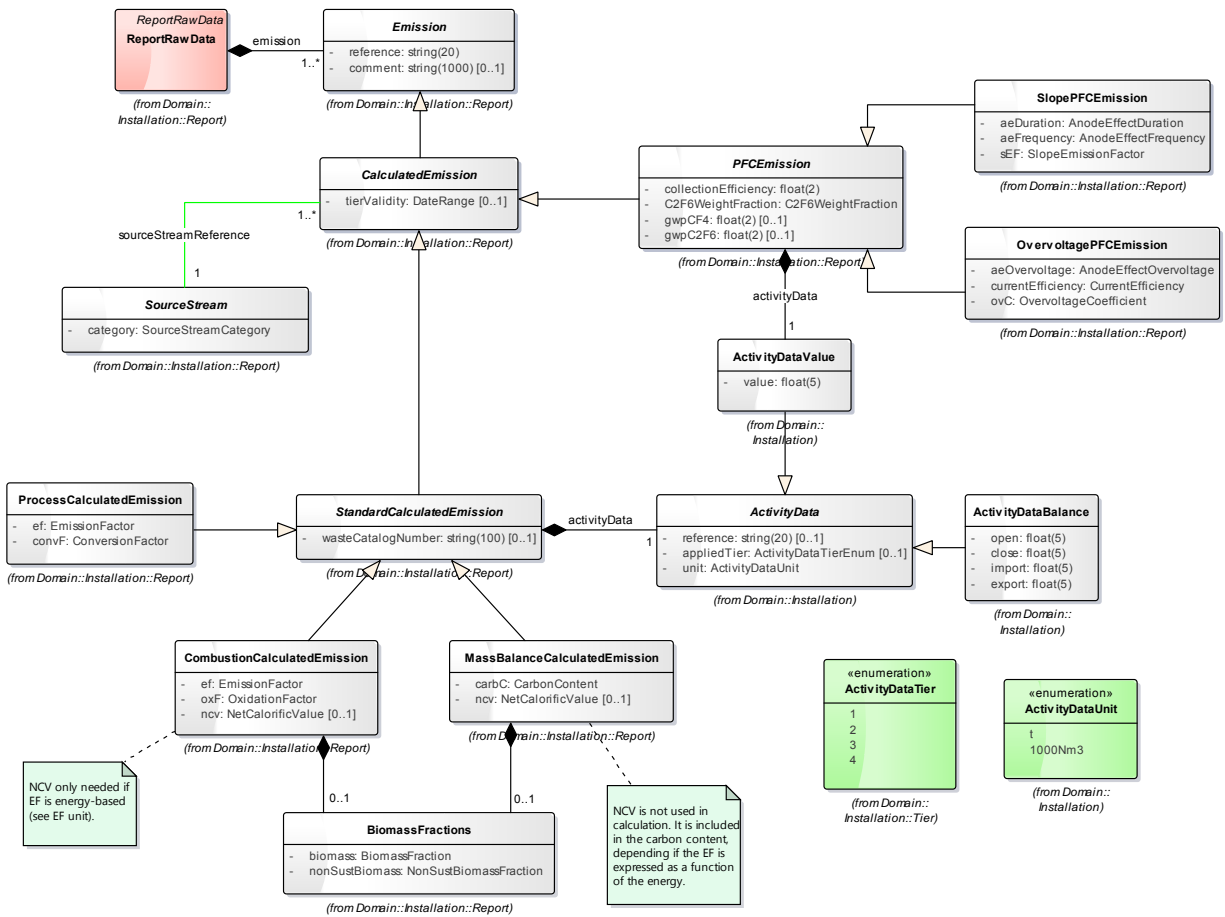


Figure 11: 03 - Calculation

### 1.1.4.5 03 - Calculation - Factors diagram

Class diagram in package 'Installation'

03 - Calculation - Factors

Version 1.0

swalense created on 29/05/2015. Last modified 30/09/2015



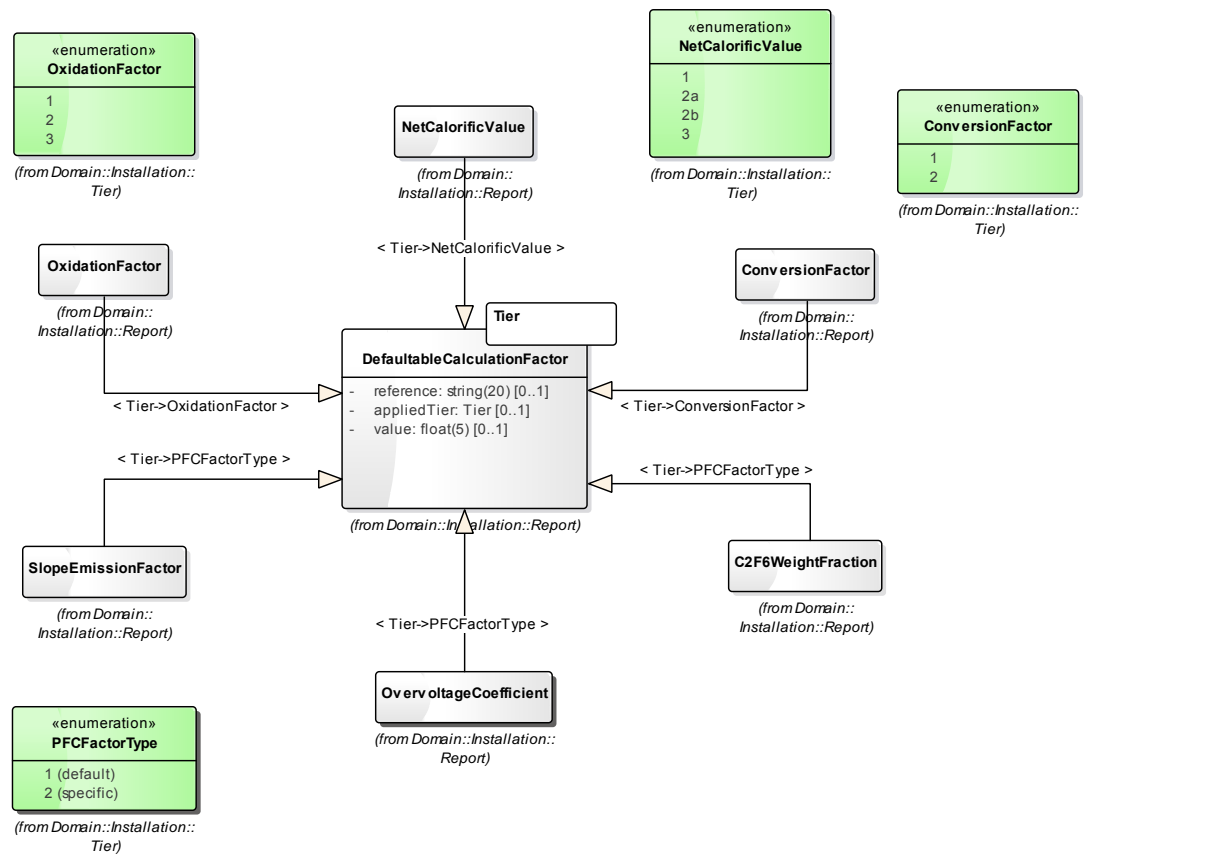
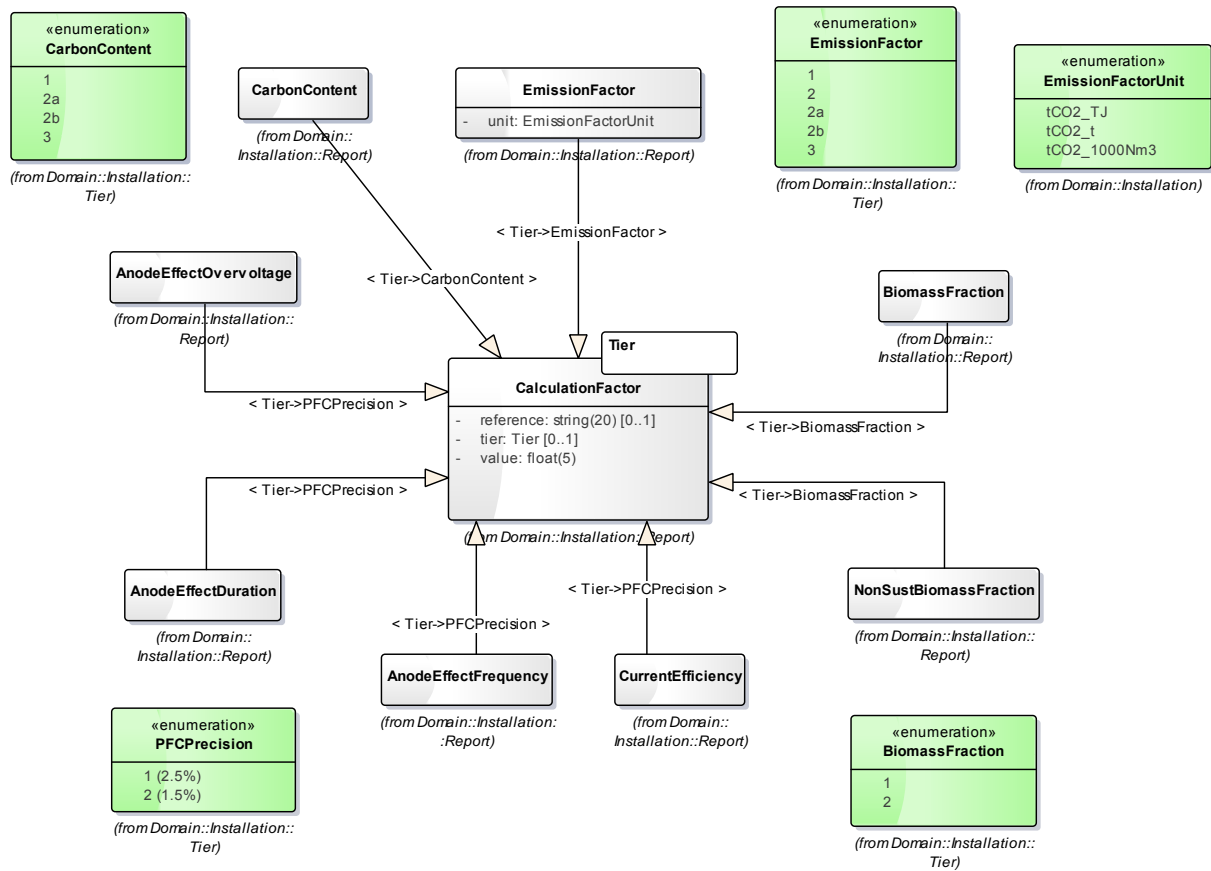


Figure 12: 03 - Calculation - Factors

### 1.1.4.6 04 - Measurement diagram

Class diagram in package 'Installation'

04 - Measurement

Version 1.0

swalense created on 13/02/2015. Last modified 30/09/2015

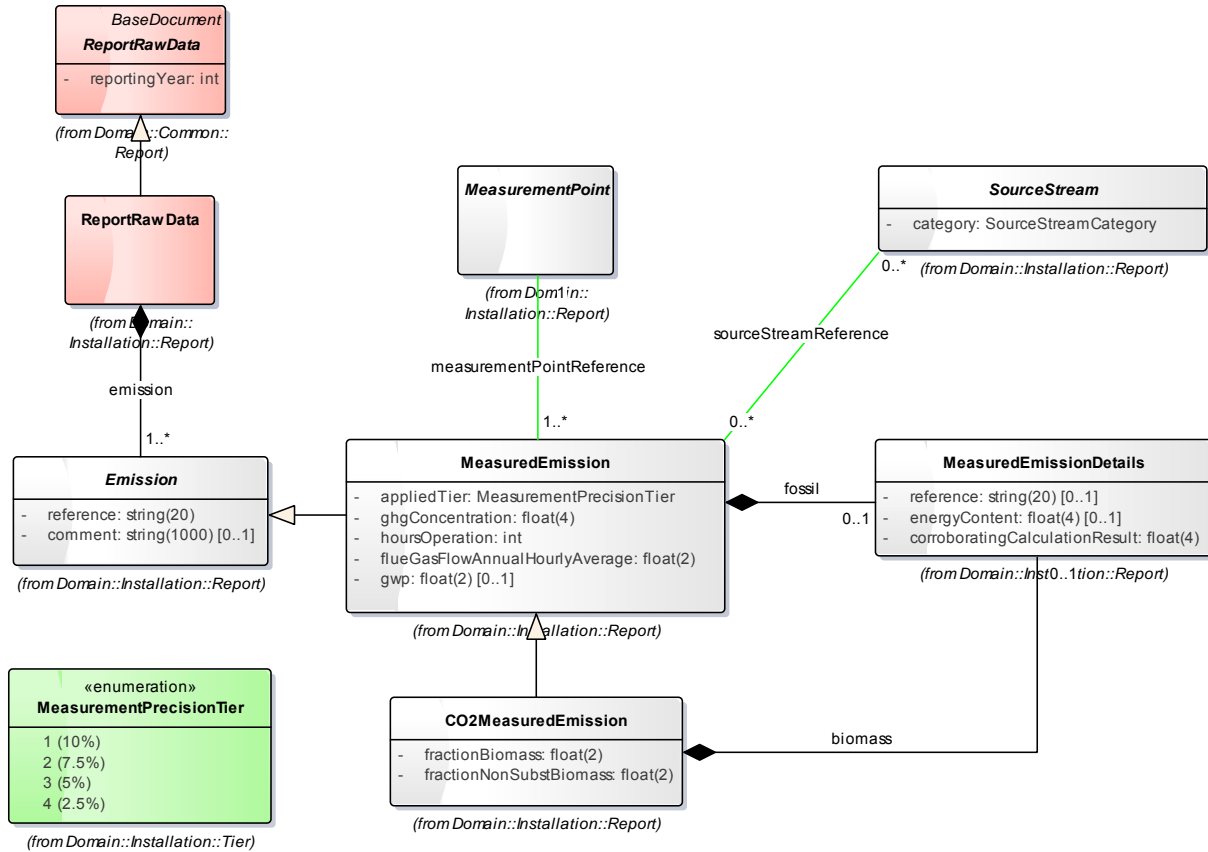


Figure 13: 04 - Measurement

### 1.1.4.7 05 - Fallback diagram

Class diagram in package 'Installation'

05 - Fallback

Version 1.0

swalense created on 16/02/2015. Last modified 29/10/2015

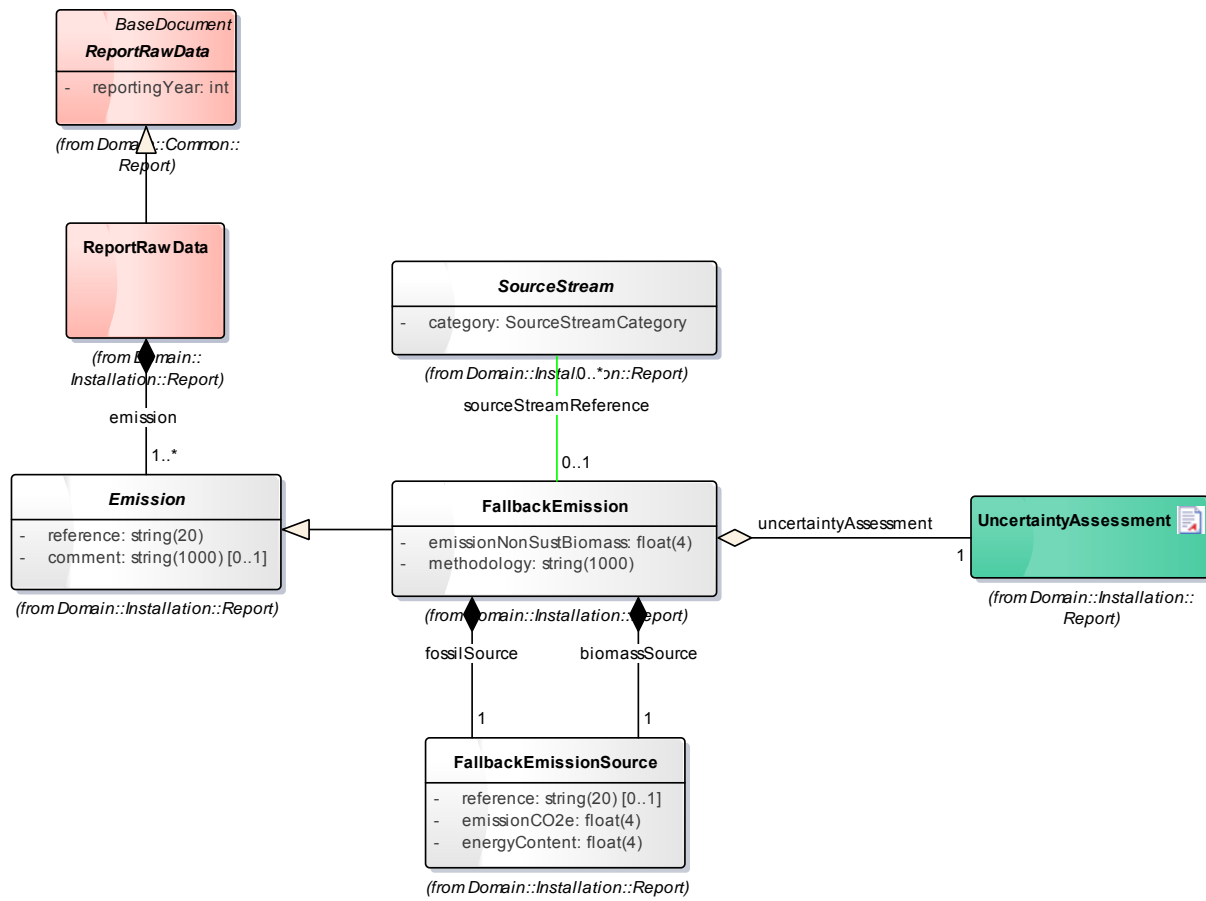


Figure 14: 05 - Fallback

### 1.1.4.8 06 - Data gaps diagram

Class diagram in package 'Installation'

06 - Data gaps

Version 1.0

swalense created on 16/02/2015. Last modified 29/10/2015

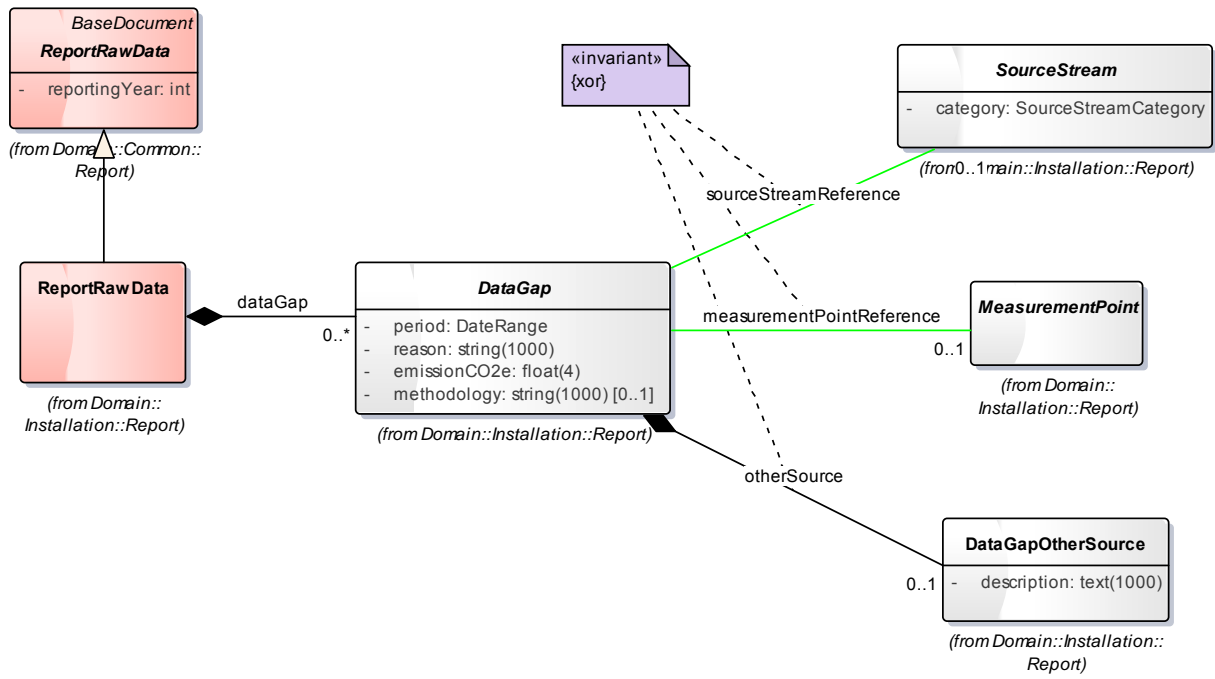


Figure 15: 06 - Data gaps

### 1.1.4.9 07 - CO2 transfers diagram

Class diagram in package 'Installation'

07 - CO2 transfers  
Version 1.0

SWALENSE created on 07/08/2015. Last modified 29/10/2015

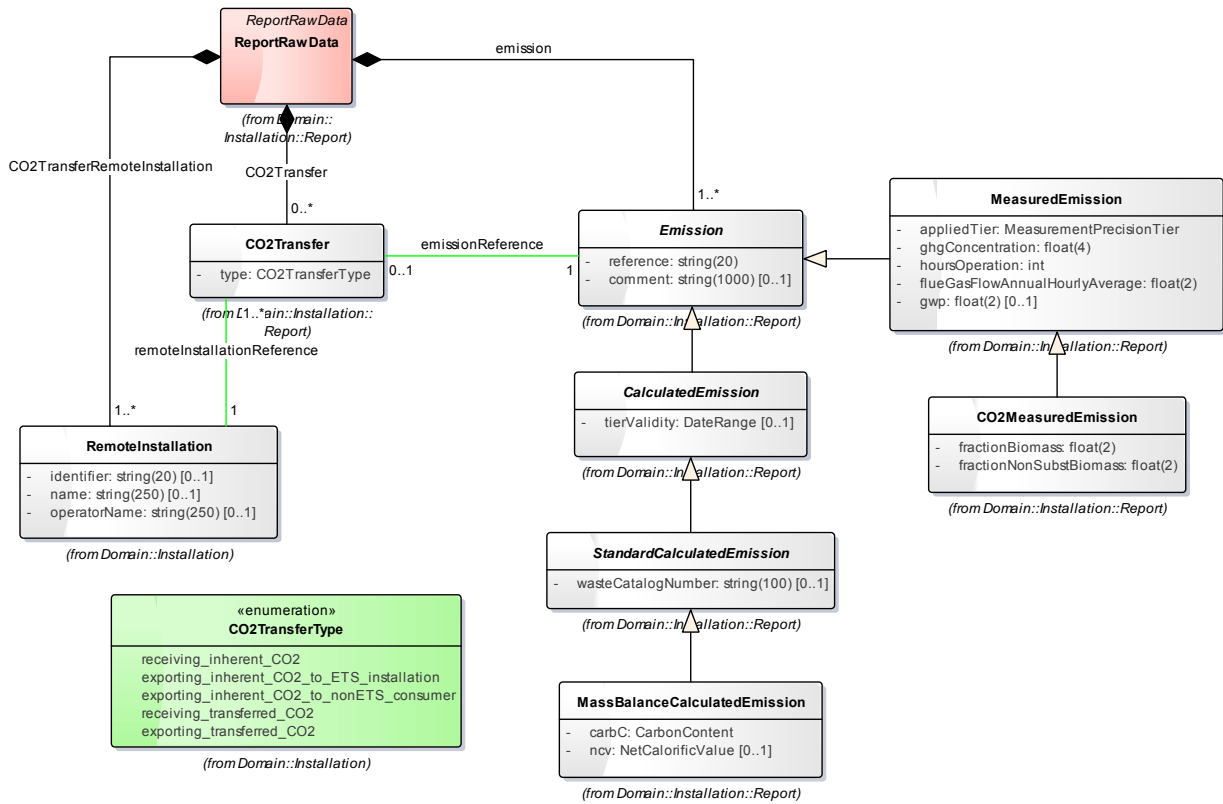


Figure 16: 07 - CO2 transfers

### 1.1.4.10 11 - Summary diagram

Class diagram in package 'Installation'

11 - Summary  
Version 1.0

swalense created on 12/05/2015. Last modified 30/09/2015

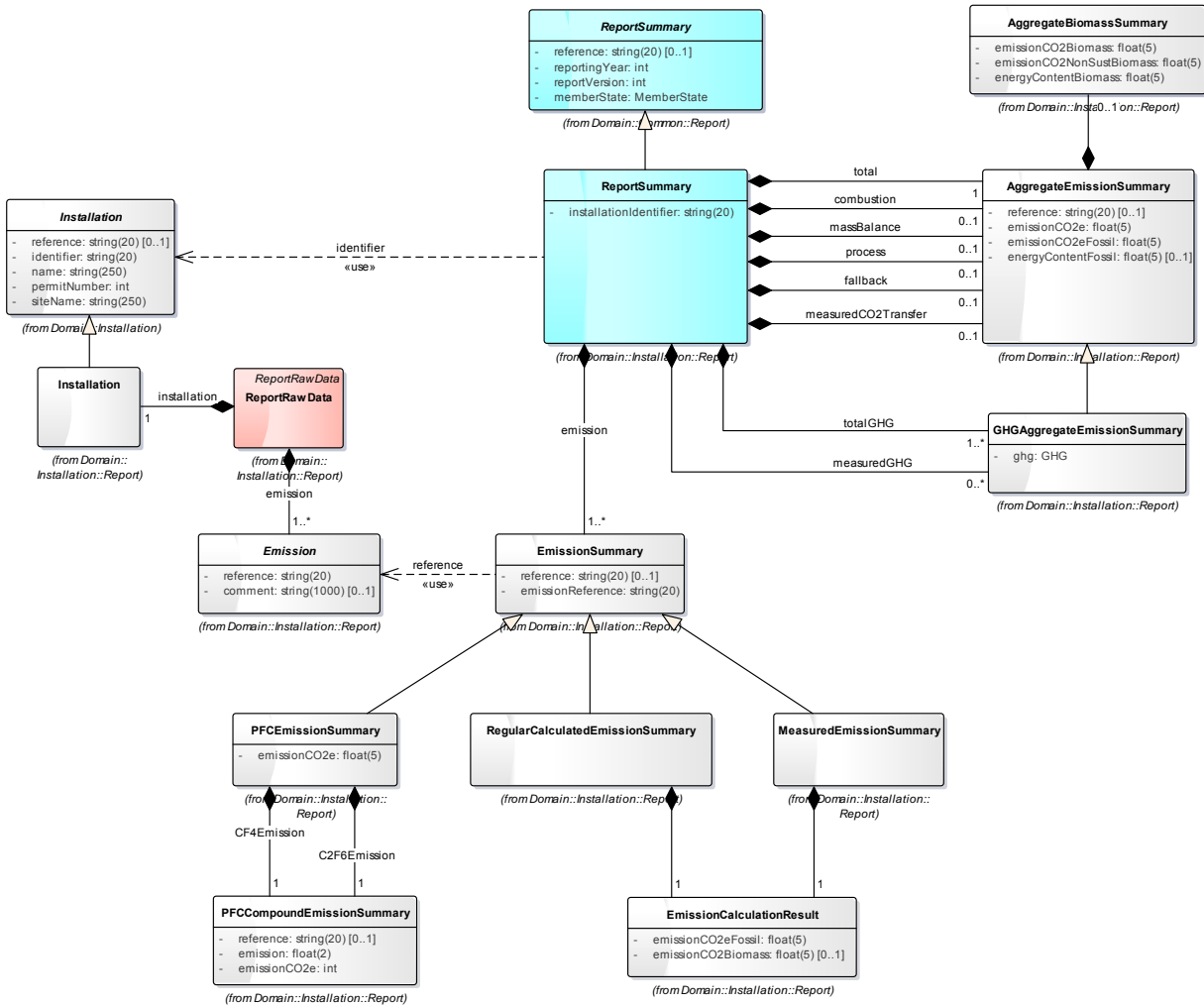


Figure 17: 11 - Summary

## 1.2 Improvement report

Package in package 'Diagrams'

Improvement report  
Version 1.0 Phase 1.0 Proposed  
swalense created on 17/06/2015. Last modified 30/06/2015  
Alias

### 1.2.1 00 - Base diagram

Class diagram in package 'Improvement report'

00 - Base  
Version 1.0  
swalense created on 17/06/2015. Last modified 29/10/2015

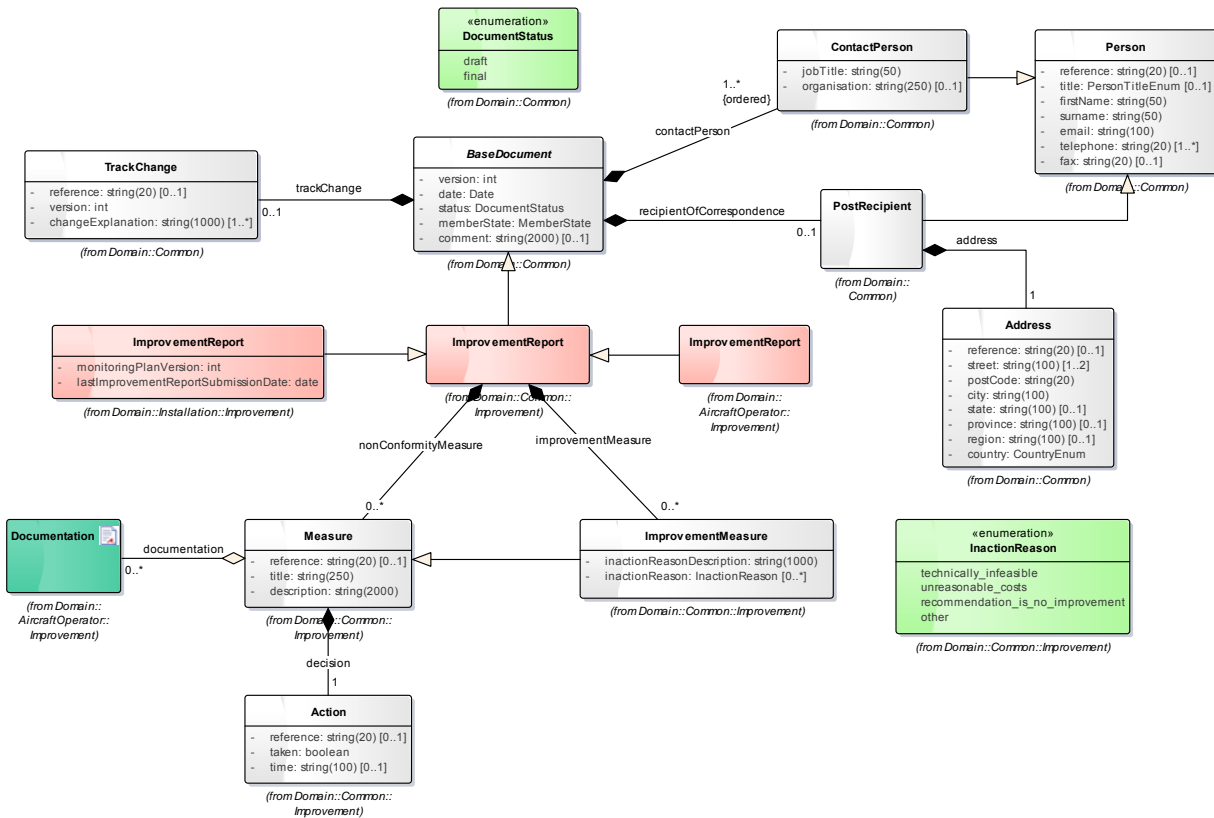


Figure 18: 00 - Base

### 1.2.2 AircraftOperator

Package in package 'Improvement report'

AircraftOperator  
Version 1.0 Phase 1.0 Proposed  
swalense created on 17/06/2015. Last modified 17/06/2015  
Alias

### 1.2.2.1 00 - Identification diagram

Class diagram in package 'AircraftOperator'

00 - Identification  
Version 1.0

swalense created on 17/06/2015. Last modified 29/10/2015

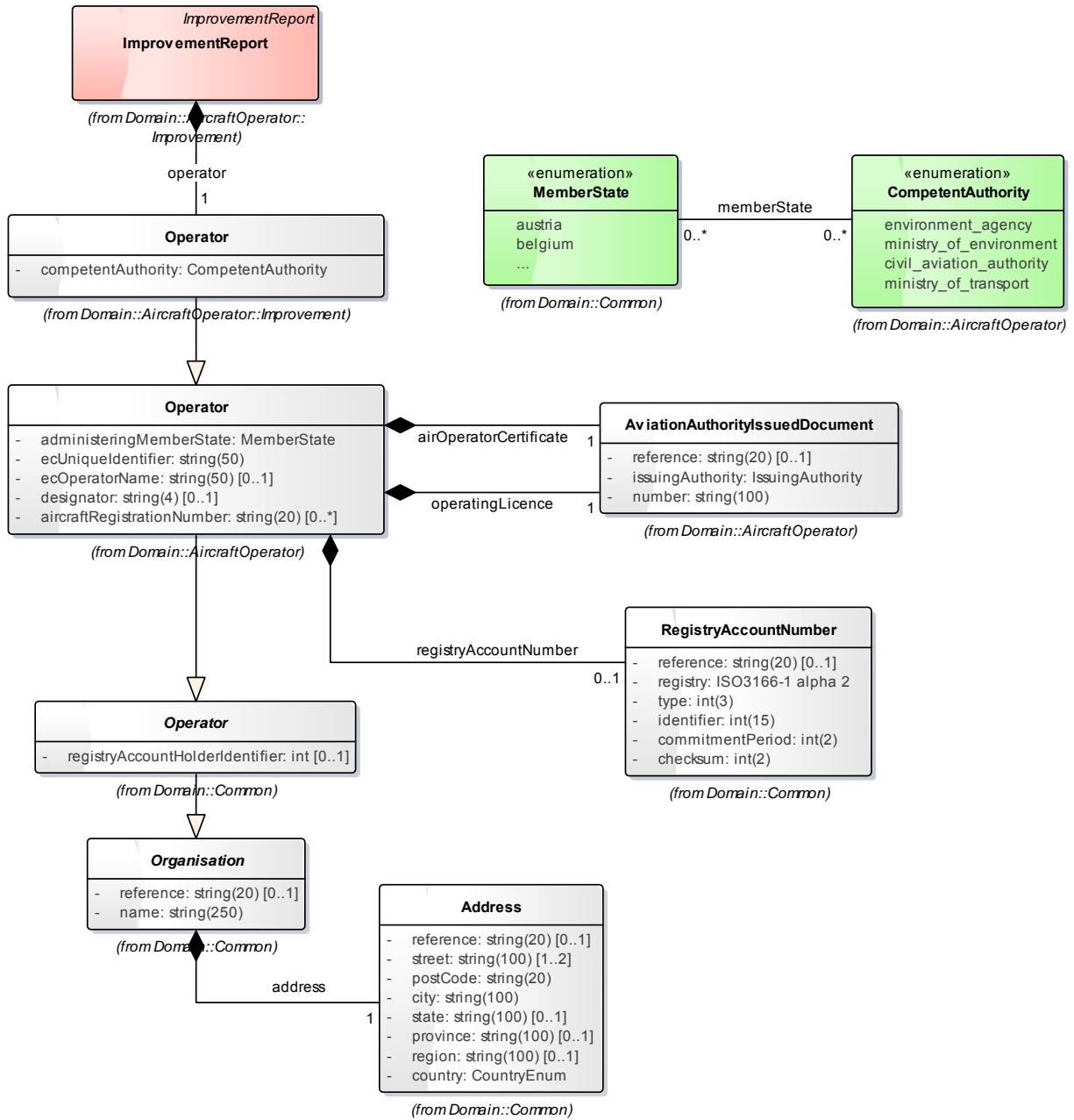


Figure 19: 00 - Identification



### 1.2.3 Installation

Package in package 'Improvement report'

Installation  
Version 1.0 Phase 1.0 Proposed  
swalense created on 17/06/2015. Last modified 17/06/2015  
Alias

#### 1.2.3.1 00 - Identification diagram

Class diagram in package 'Installation'

00 - Identification  
Version 1.0  
swalense created on 17/06/2015. Last modified 02/11/2015

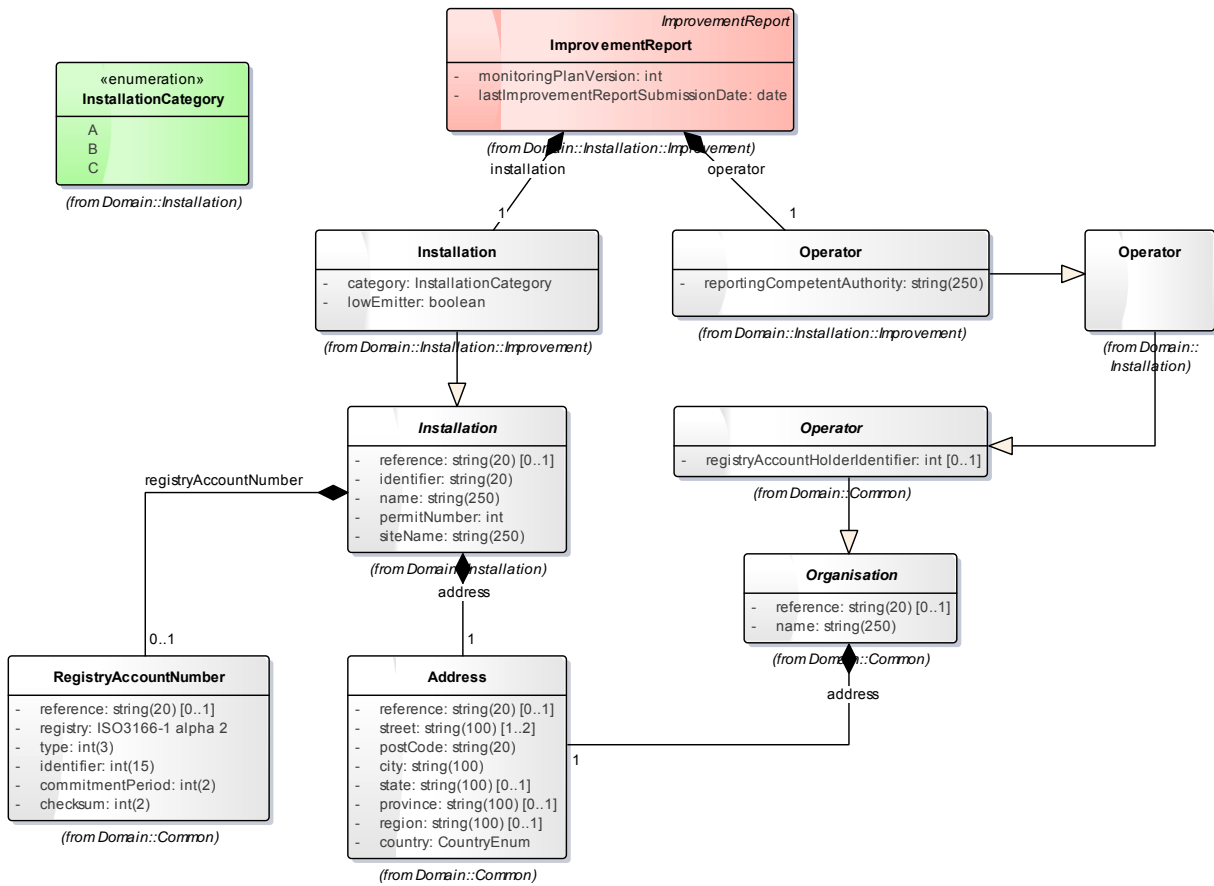


Figure 20: 00 - Identification

#### 1.2.3.2 01 - Approaches diagram

Class diagram in package 'Installation'

01 - Approaches  
Version 1.0  
swalense created on 17/06/2015. Last modified 29/10/2015

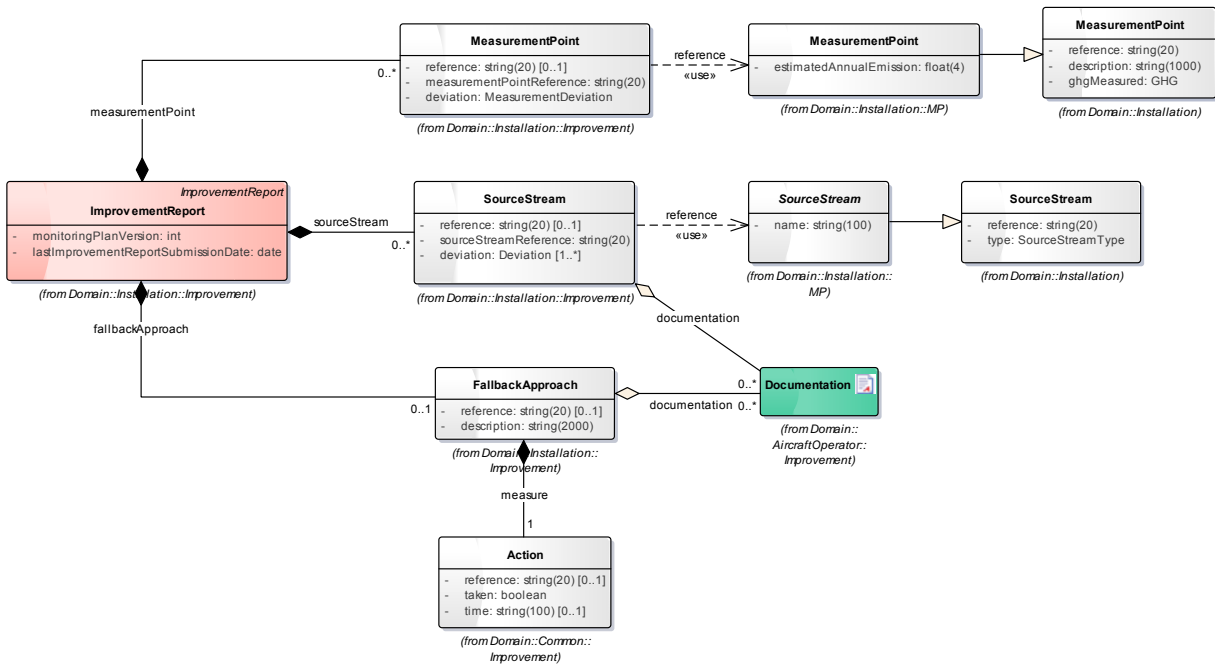


Figure 21: 01 - Approaches

### 1.2.3.3 02 - Deviations diagram

Class diagram in package 'Installation'

02 - Deviations

Version 1.0

swalense created on 17/06/2015. Last modified 28/10/2015

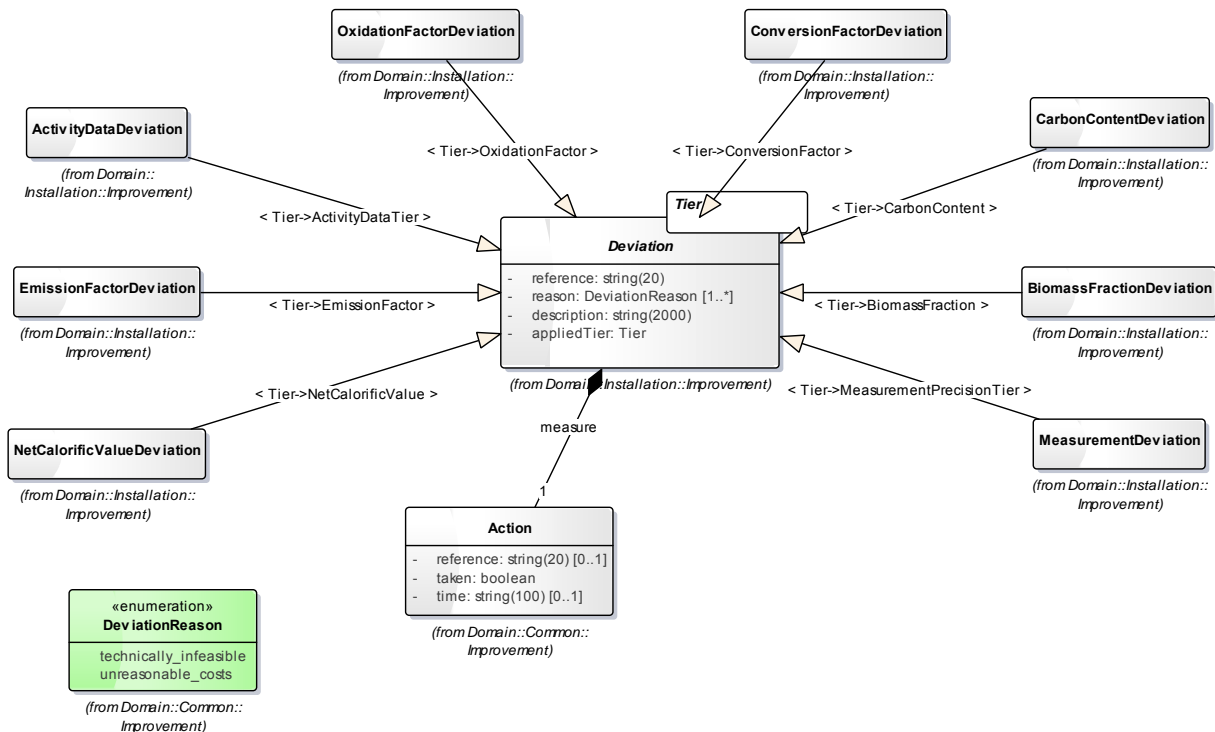


Figure 22: 02 - Deviations

### 1.2.3.4 11 - Derived data diagram

Class diagram in package 'Installation'

11 - Derived data

Version 1.0

swalense created on 18/06/2015. Last modified 30/09/2015

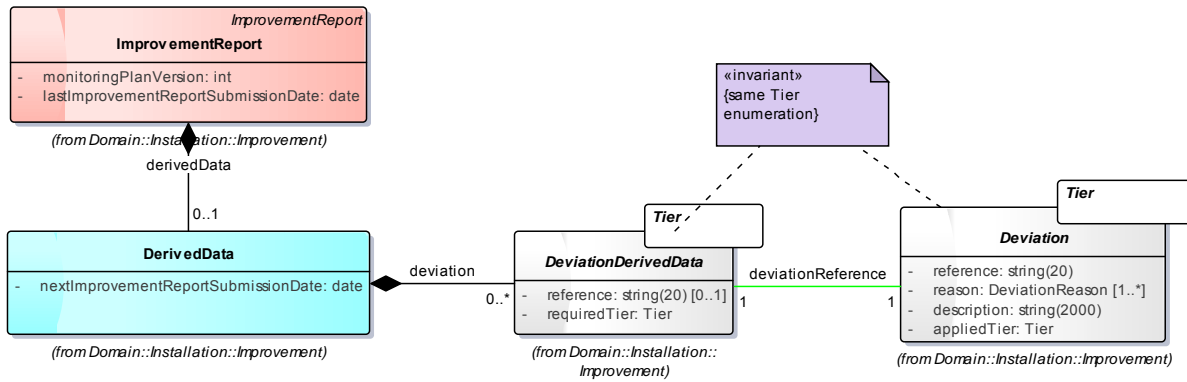


Figure 23: 11 - Derived data

### 1.3 Monitoring plan

Package in package 'Diagrams'

Monitoring plan  
Version 1.0 Phase 1.0 Proposed  
swalense created on 04/06/2015. Last modified 30/06/2015  
Alias

#### 1.3.1 00 - Base diagram

Class diagram in package 'Monitoring plan'

00 - Base  
Version 1.0  
swalense created on 14/01/2015. Last modified 02/11/2015

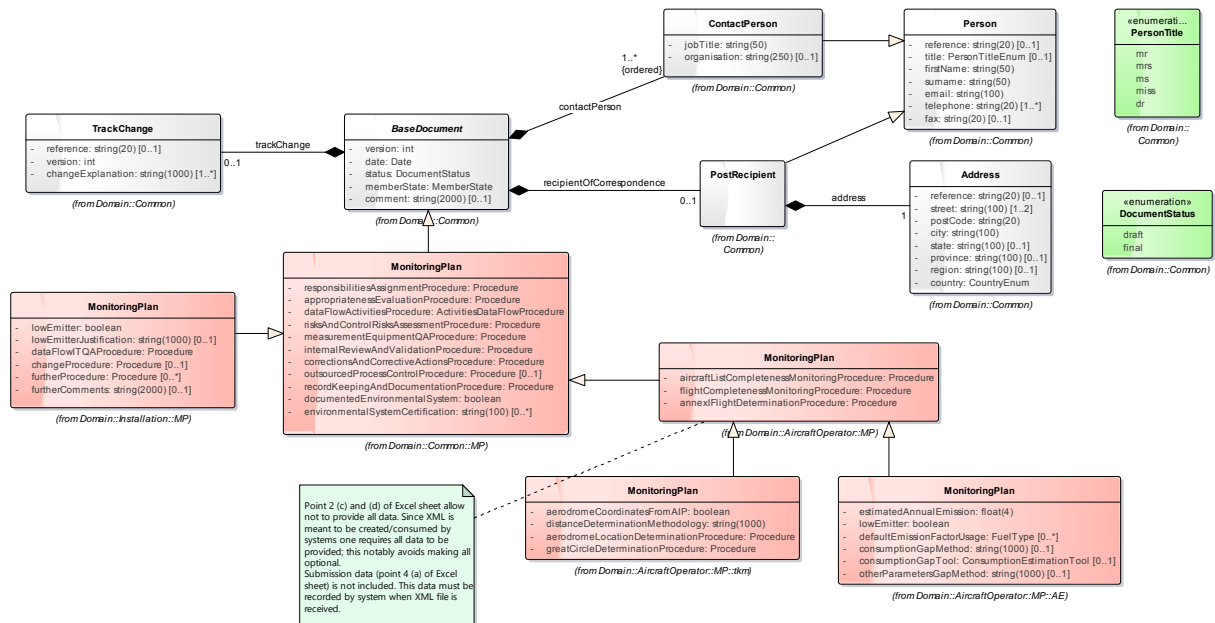


Figure 24: 00 - Base

#### 1.3.2 01 - Management diagram

Class diagram in package 'Monitoring plan'

01 - Management  
Version 1.0  
swalense created on 28/01/2015. Last modified 02/11/2015

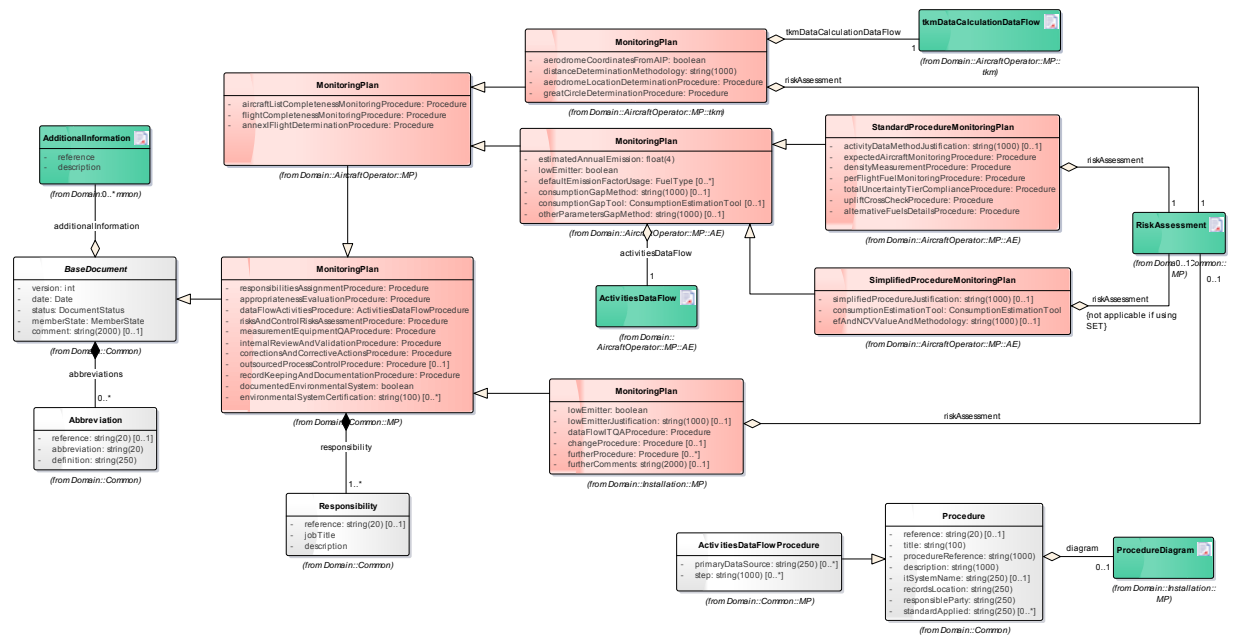


Figure 25: 01 - Management

### 1.3.3 AircraftOperator

Package in package 'Monitoring plan'

AircraftOperator  
Version 1.0 Phase 1.0 Proposed  
swalense created on 04/06/2015. Last modified 04/06/2015  
Alias

#### 1.3.3.1 00 - Identification diagram

Class diagram in package 'AircraftOperator'

00 - Identification  
Version 1.0  
swalense created on 14/01/2015. Last modified 29/10/2015

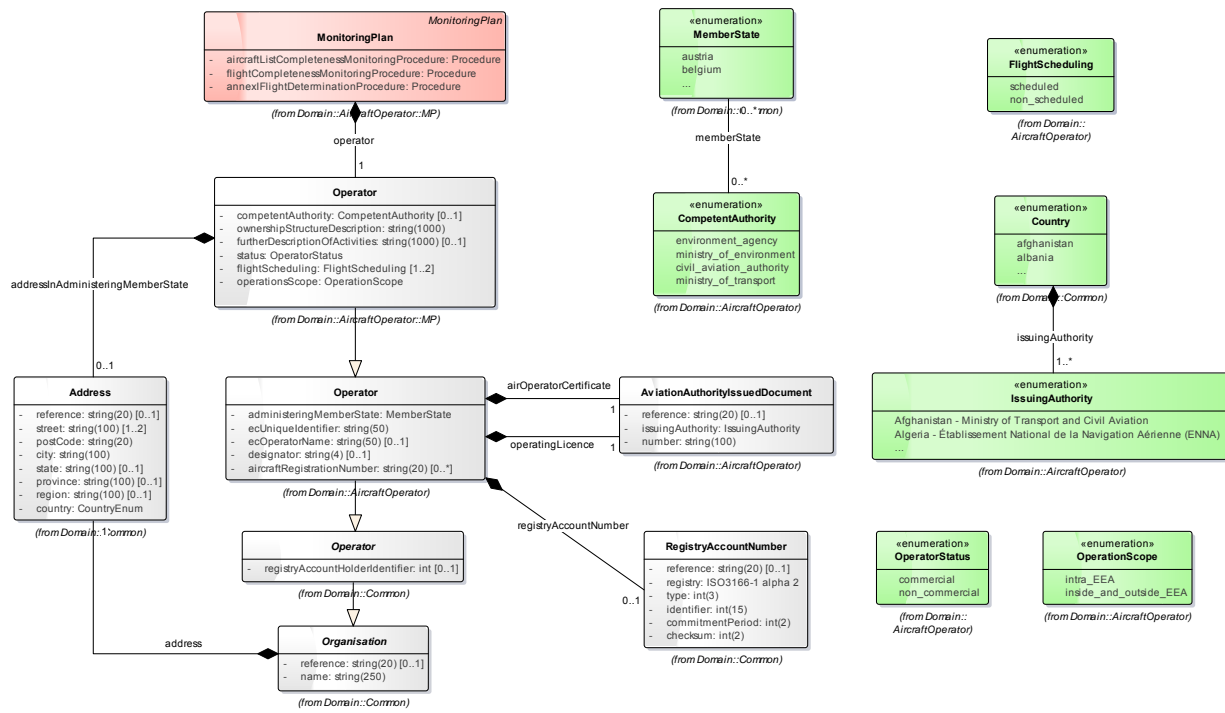


Figure 26: 00 - Identification

1.3.3.2 01 - Standard procedure diagram  
Class diagram in package 'AircraftOperator'

01 - Standard procedure  
Version 1.0  
swalense created on 29/01/2015. Last modified 02/11/2015

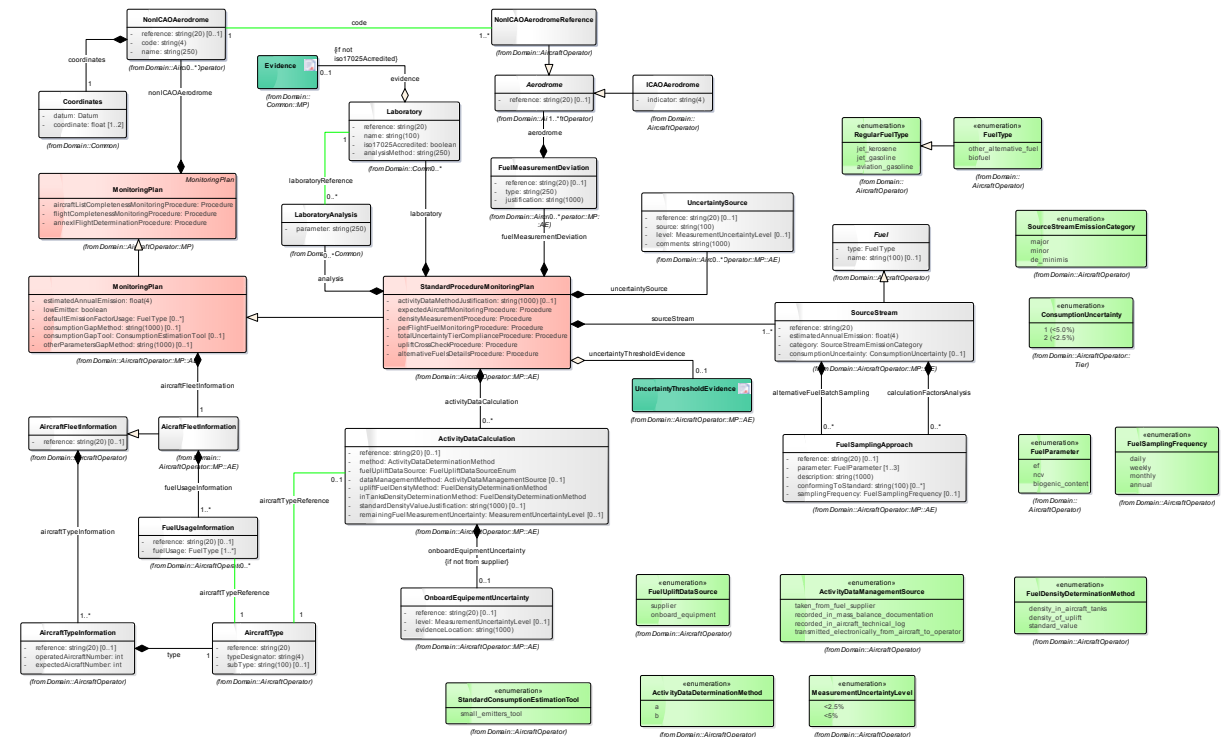


Figure 27: 01 - Standard procedure

### 1.3.3.3 02 - Simplified procedure diagram

Class diagram in package 'AircraftOperator'

02 - Simplified procedure

Version 1.0

swalense created on 03/06/2015. Last modified 02/11/2015

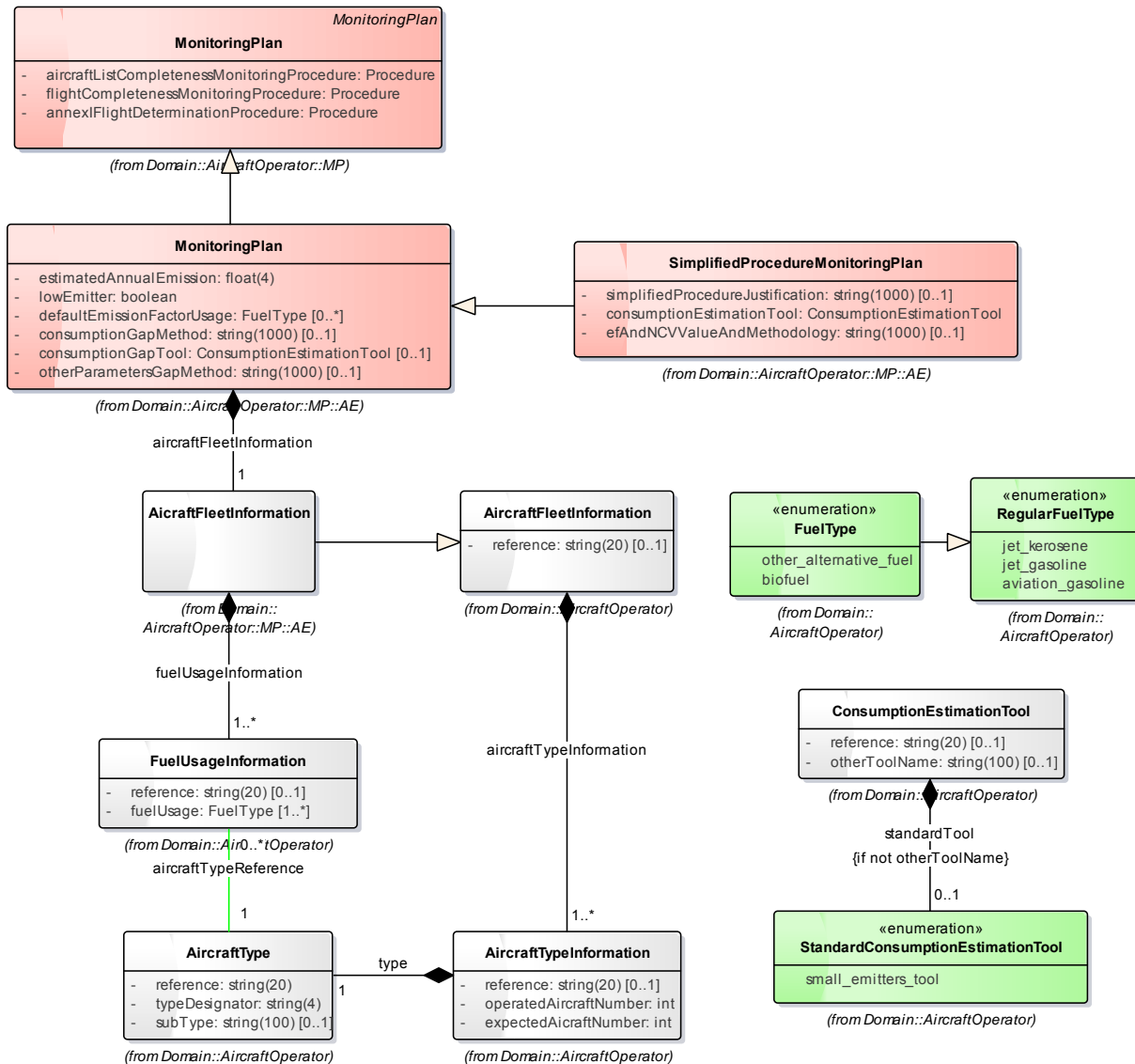


Figure 28: 02 - Simplified procedure

### 1.3.3.4 03 - tkm diagram

Class diagram in package 'AircraftOperator'

03 - tkm

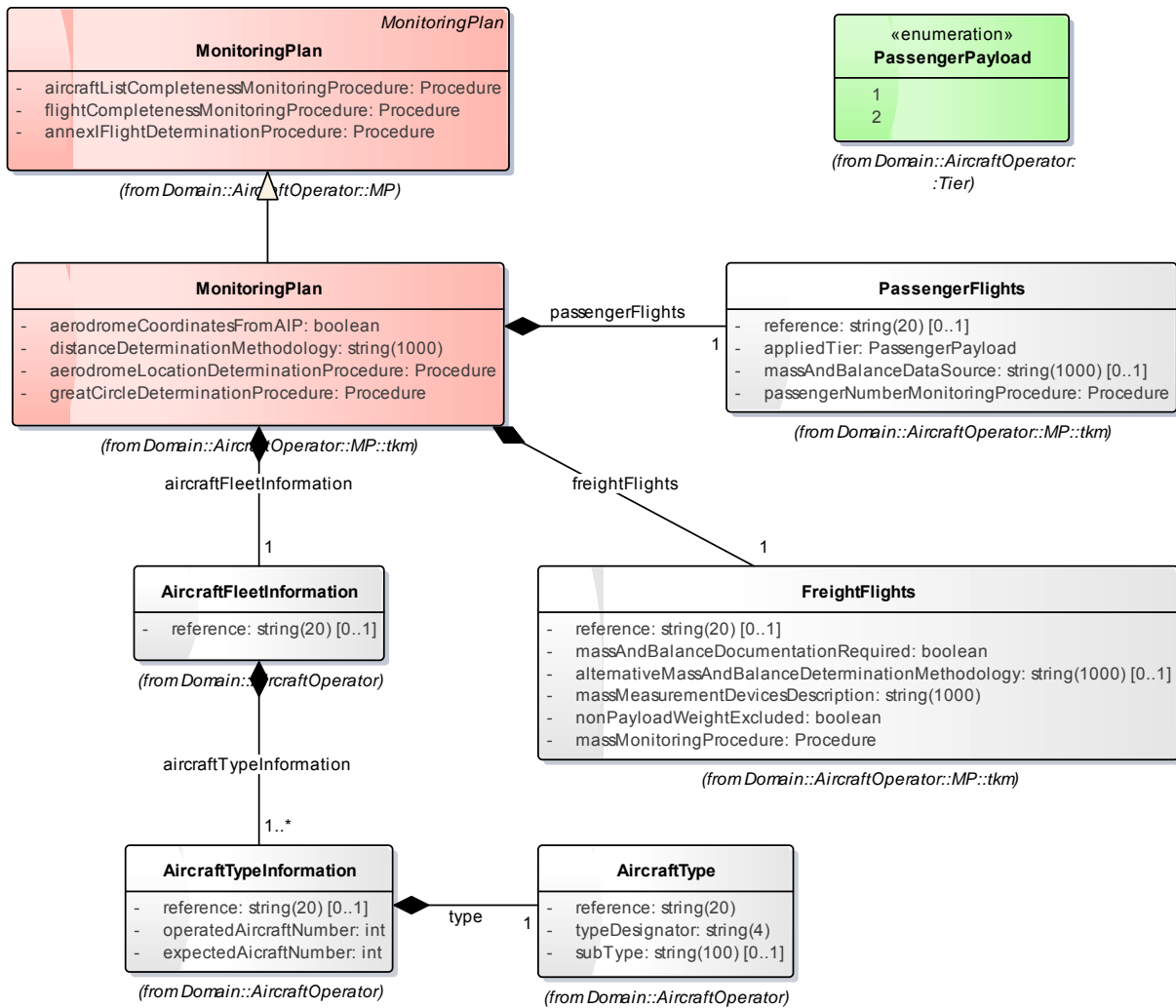


Figure 29: 03 - tkm

### 1.3.3.5 11- Derived data - Standard procedure diagram

Class diagram in package 'AircraftOperator'

11- Derived data - Standard procedure  
Version 1.0

SWALENSE created on 02/06/2015. Last modified 29/10/2015



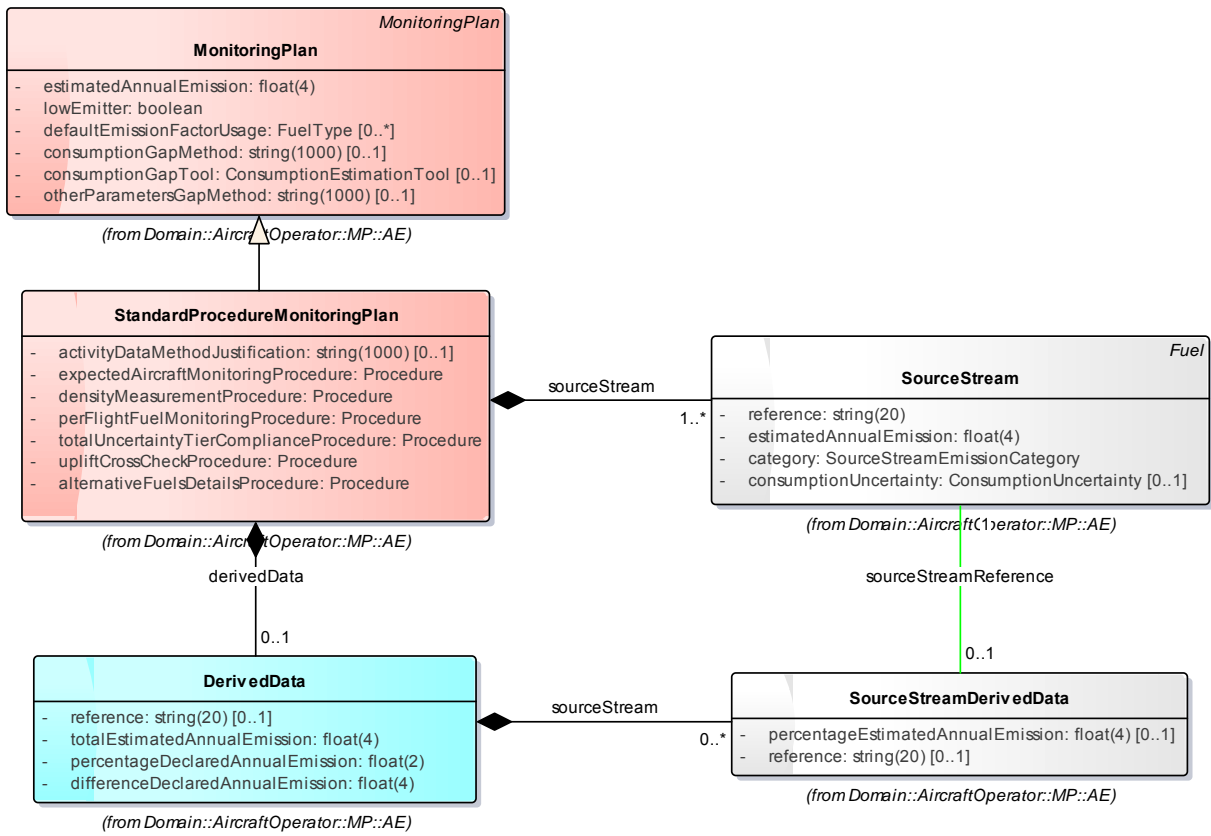


Figure 30: 11- Derived data - Standard procedure

### 1.3.4 Installation

Package in package 'Monitoring plan'

Installation  
Version 1.0 Phase 1.0 Proposed  
swalense created on 04/06/2015. Last modified 04/06/2015  
Alias

#### 1.3.4.1 00 - Identification diagram

Class diagram in package 'Installation'

00 - Identification  
Version 1.0  
swalense created on 22/04/2015. Last modified 30/09/2015

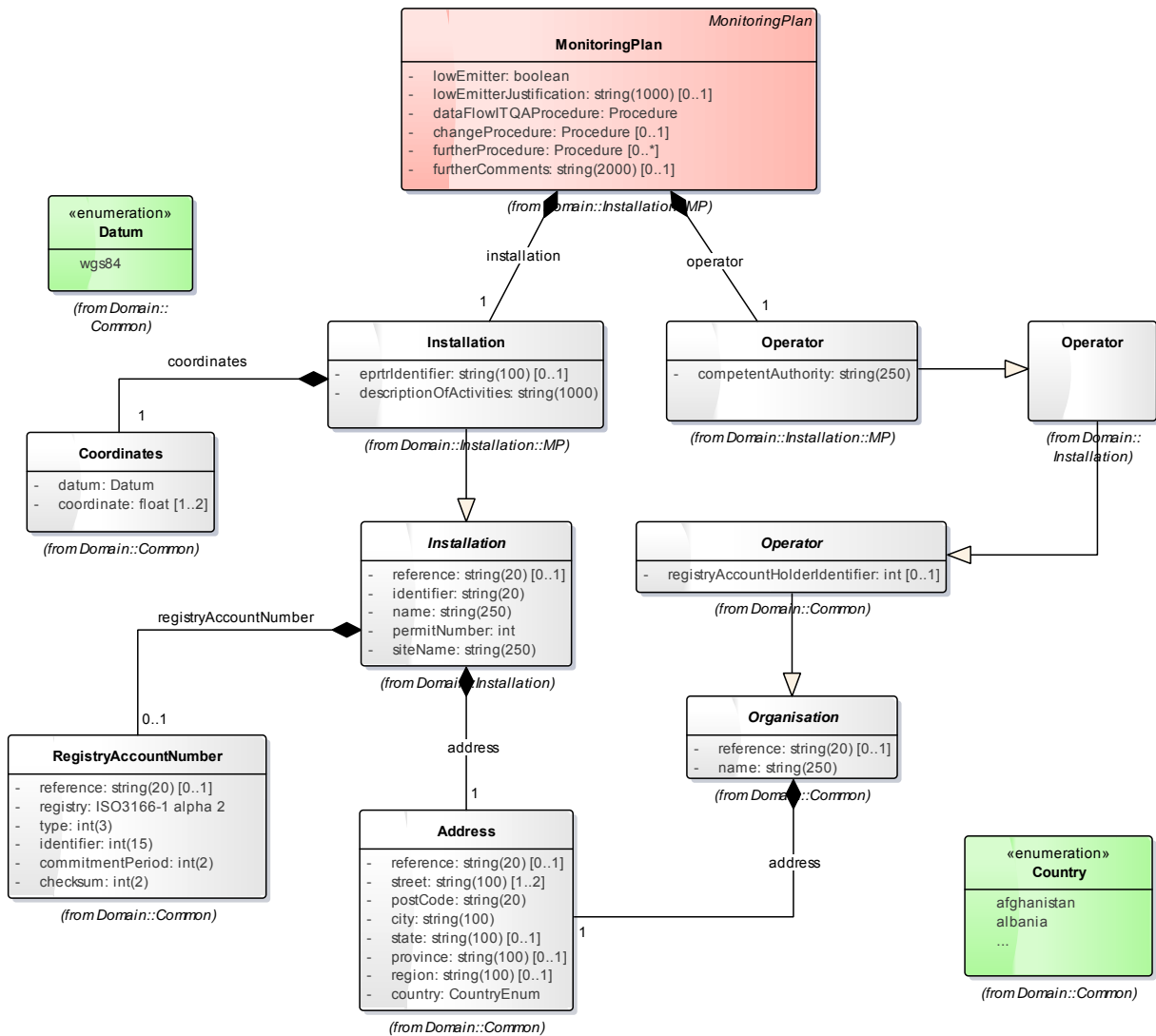


Figure 31: 00 - Identification

### 1.3.4.2 01 - Description diagram

Class diagram in package 'Installation'

01 - Description  
Version 1.0

swalense created on 15/01/2015. Last modified 02/11/2015

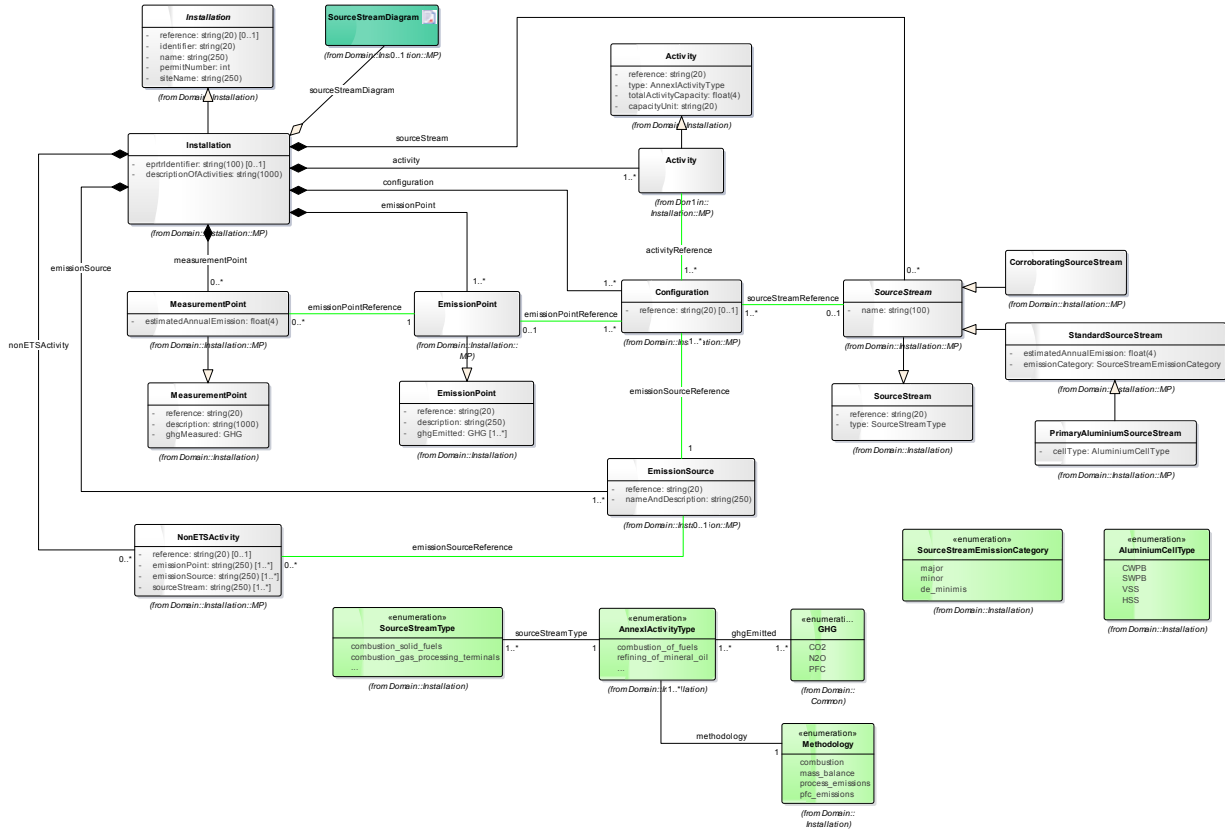


Figure 32: 01 - Description

### 1.3.4.3 01 - Description - Instruments diagram

Class diagram in package 'Installation'

01 - Description - Instruments  
Version 1.0

swalense created on 07/09/2015. Last modified 30/09/2015



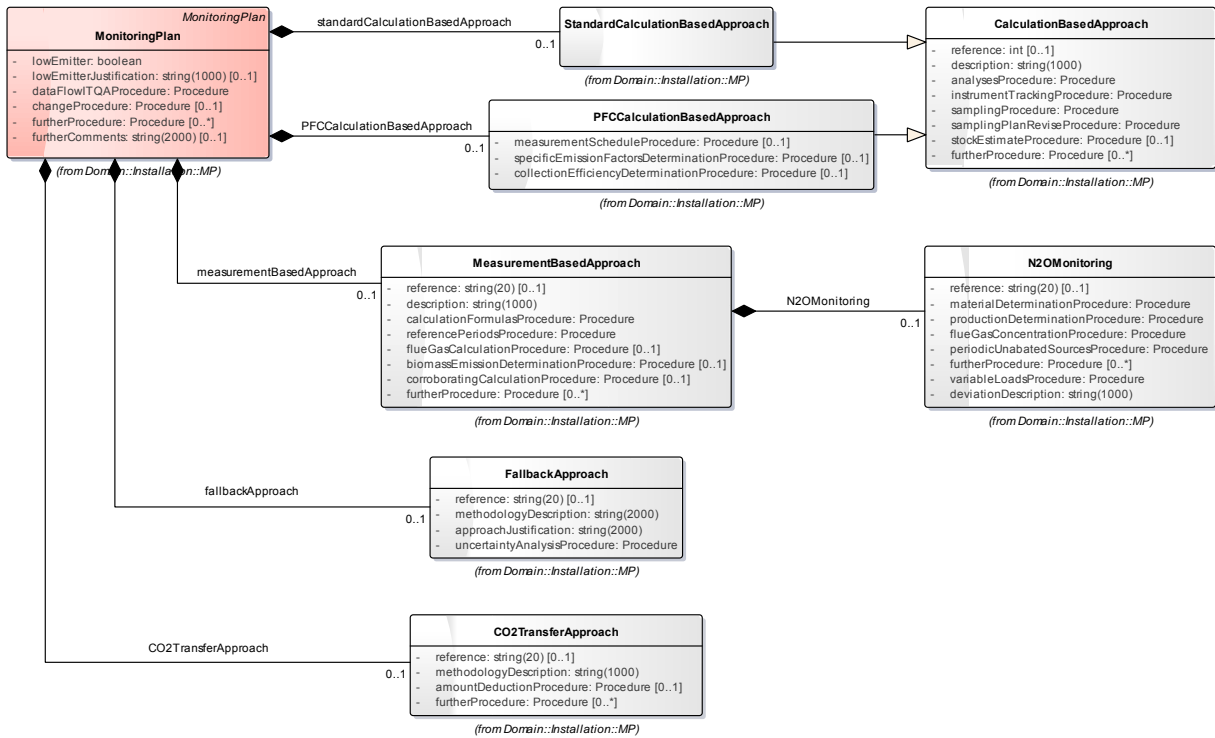


Figure 34: 02 - Base layout

### 1.3.4.5 03 - Calculation - Factors diagram

Class diagram in package 'Installation'

03 - Calculation - Factors  
Version 1.0

swalense created on 15/06/2015. Last modified 29/10/2015

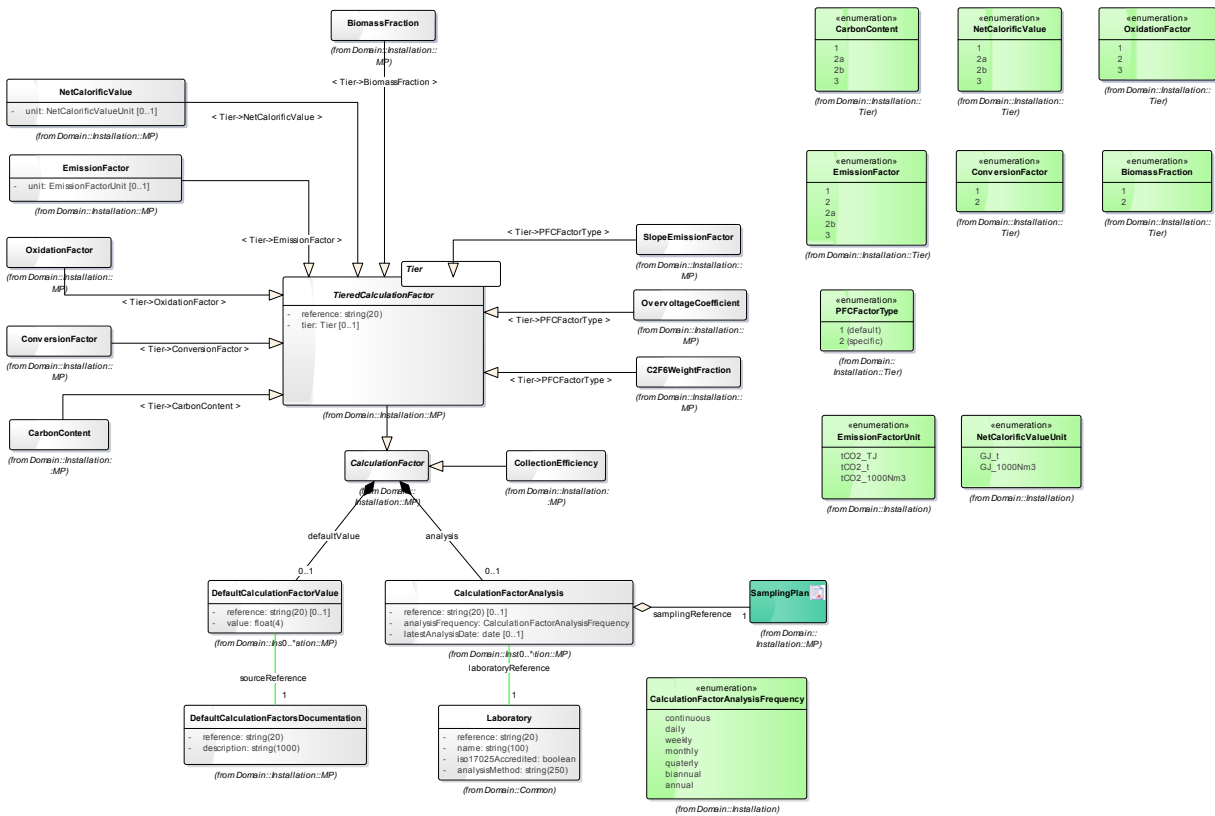


Figure 35: 03 - Calculation - Factors

### 1.3.4.6 03 - Calculation - PFC diagram

Class diagram in package 'Installation'

03 - Calculation - PFC  
Version 1.0

swalense created on 28/01/2015. Last modified 29/10/2015

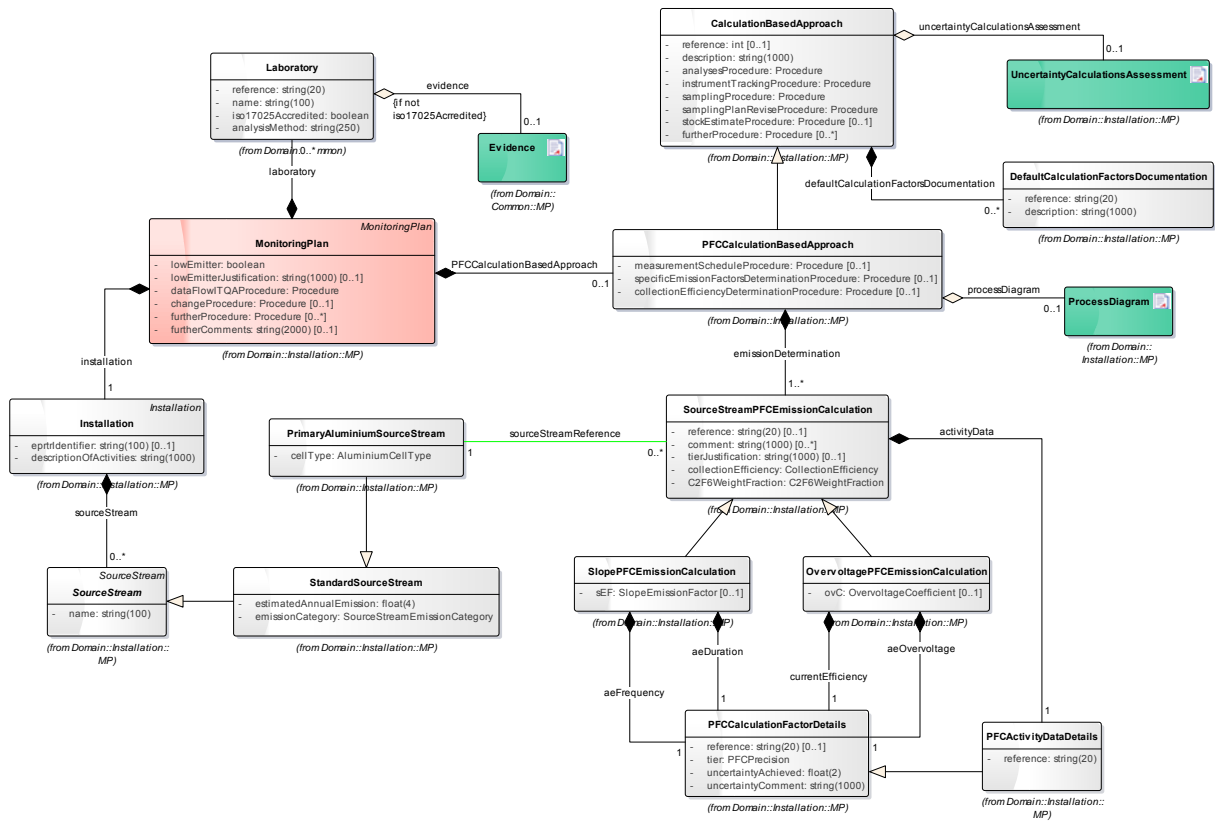


Figure 36: 03 - Calculation - PFC

### 1.3.4.7 03 - Calculation - Regular diagram

Class diagram in package 'Installation'

03 - Calculation - Regular  
Version 1.0

swalense created on 19/01/2015. Last modified 02/11/2015

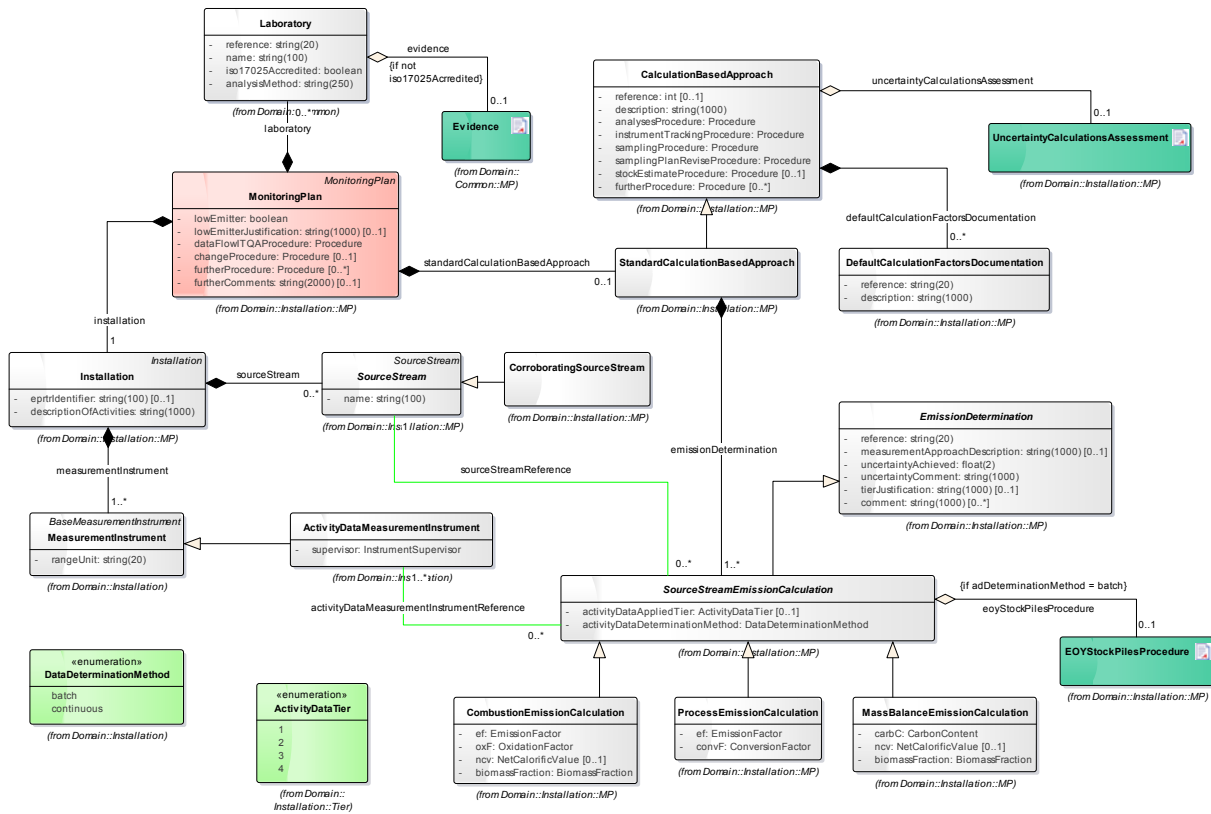


Figure 37: 03 - Calculation - Regular

### 1.3.4.8 04 - Measurement diagram

Class diagram in package 'Installation'

04 - Measurement

Version 1.0

swalense created on 19/01/2015. Last modified 27/10/2015



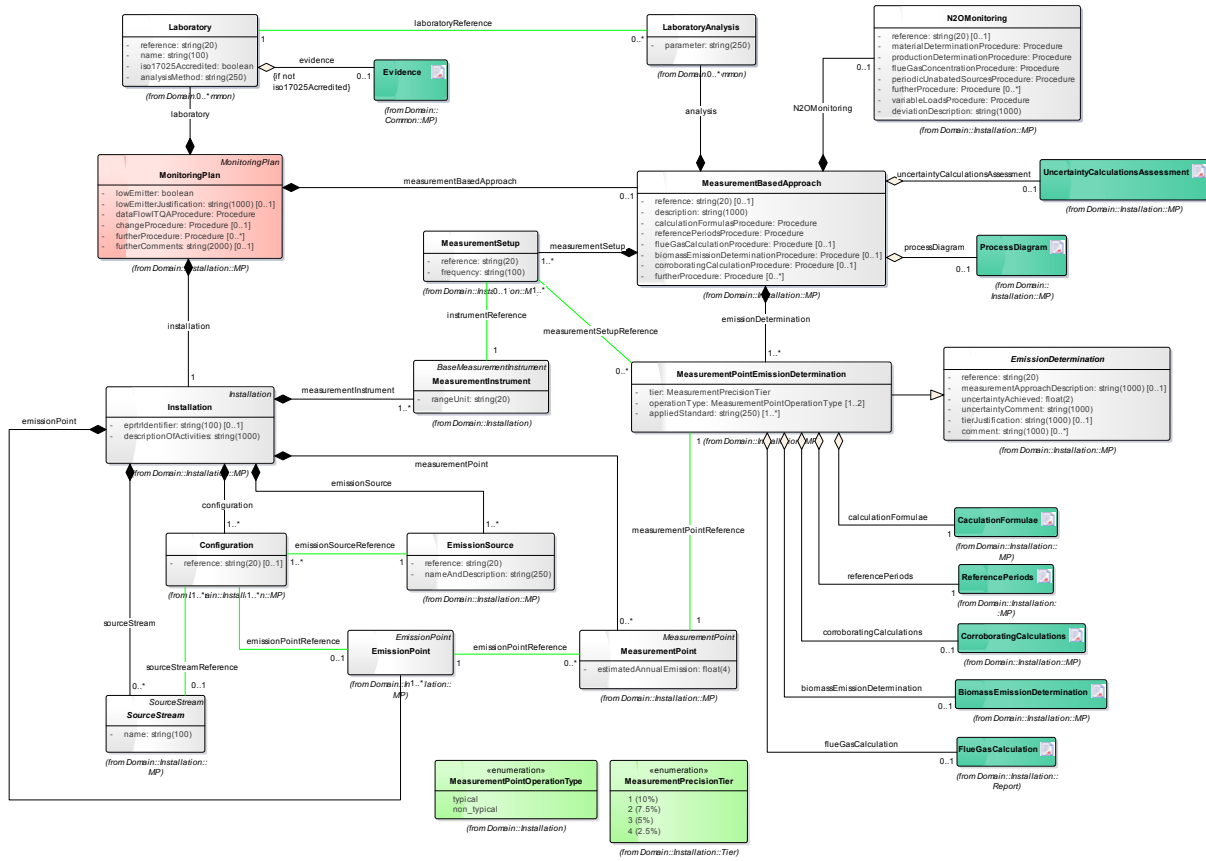


Figure 38: 04 - Measurement

### 1.3.4.9 05 - CO2 transfers diagram

Class diagram in package 'Installation'

05 - CO2 transfers  
Version 1.0  
swalense created on 28/01/2015. Last modified 29/10/2015

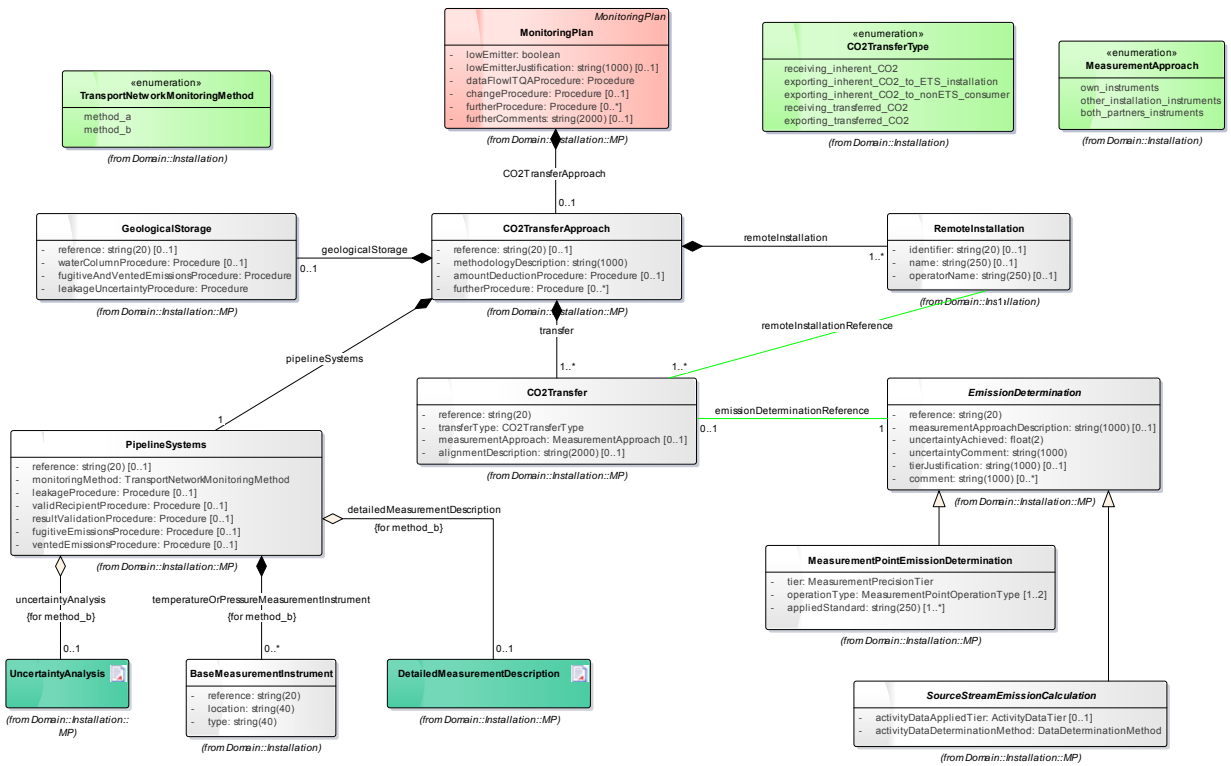


Figure 39: 05 - CO2 transfers

### 1.3.4.10 11 - Derived data diagram

Class diagram in package 'Installation'

11 - Derived data  
Version 1.0

swalense created on 17/06/2015. Last modified 29/10/2015

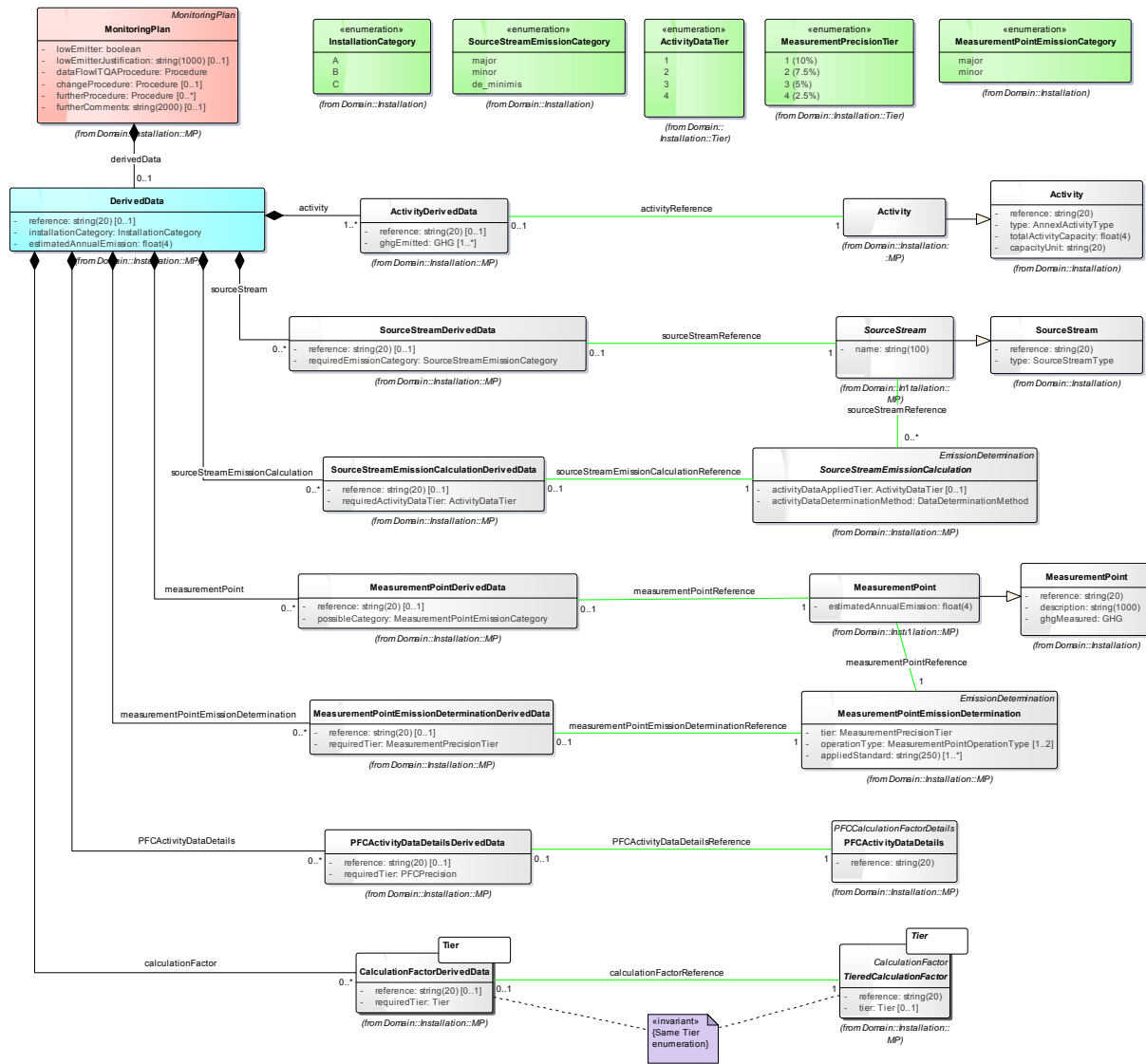


Figure 40: 11 - Derived data



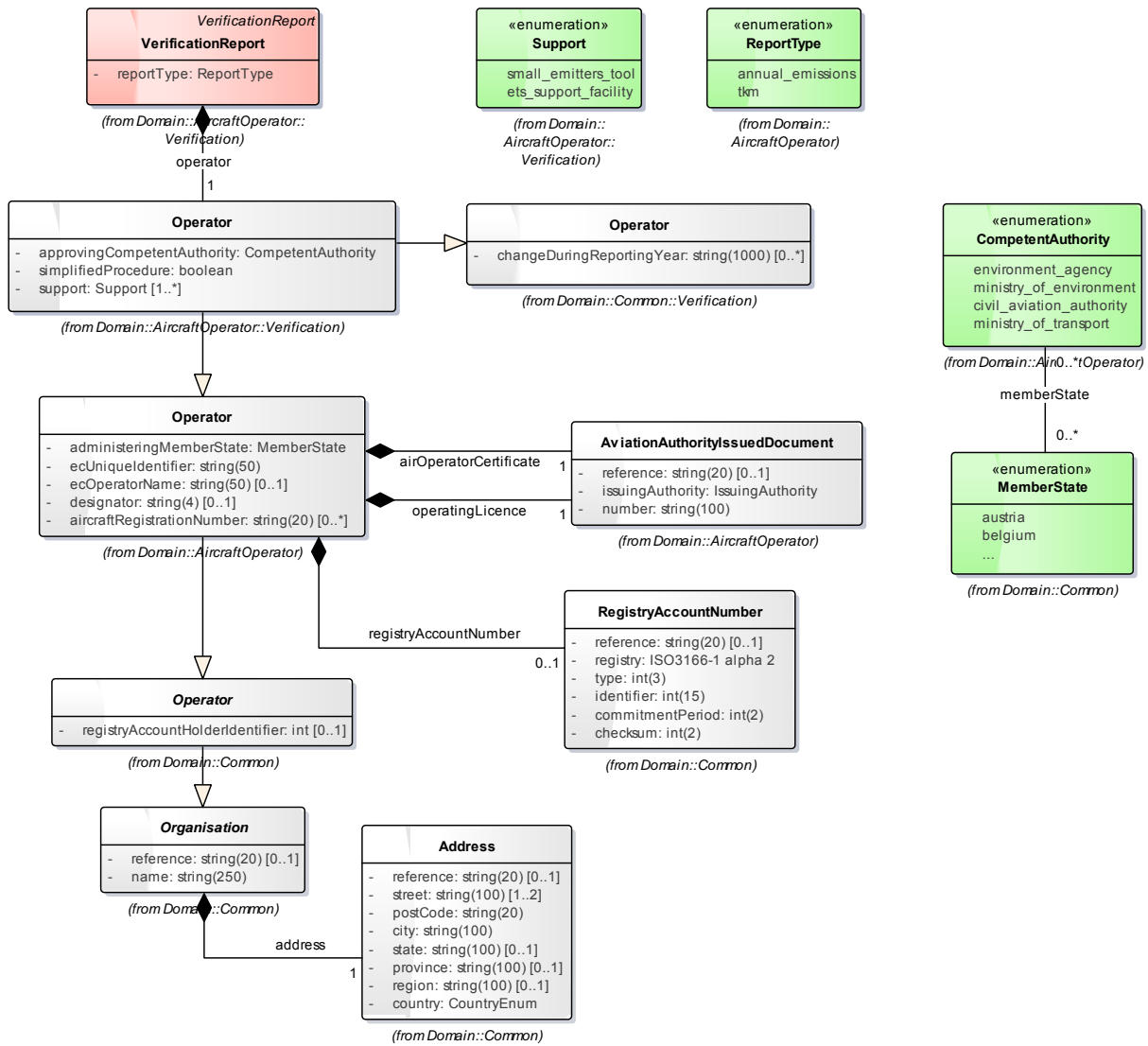


Figure 42: 01 - Identification - Aircraft operator

### 1.4.3 01 - Identification - Installation diagram

Class diagram in package 'Verification report'

01 - Identification - Installation  
 Version 1.0  
 swalense created on 23/06/2015. Last modified 29/10/2015

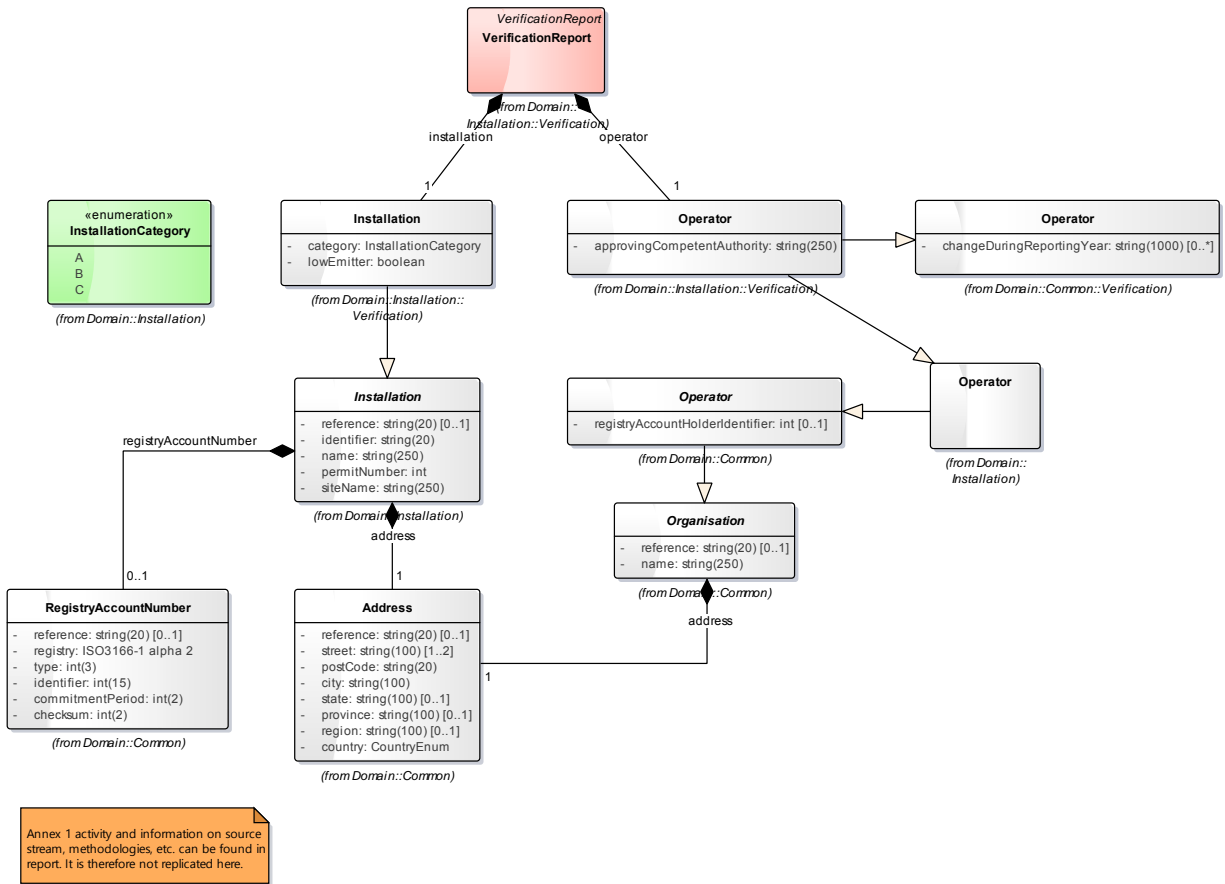


Figure 43: 01 - Identification - Installation

### 1.4.4 02 - Visit diagram

Class diagram in package 'Verification report'

02 - Visit  
Version 1.0  
swalense created on 22/06/2015. Last modified 16/10/2015

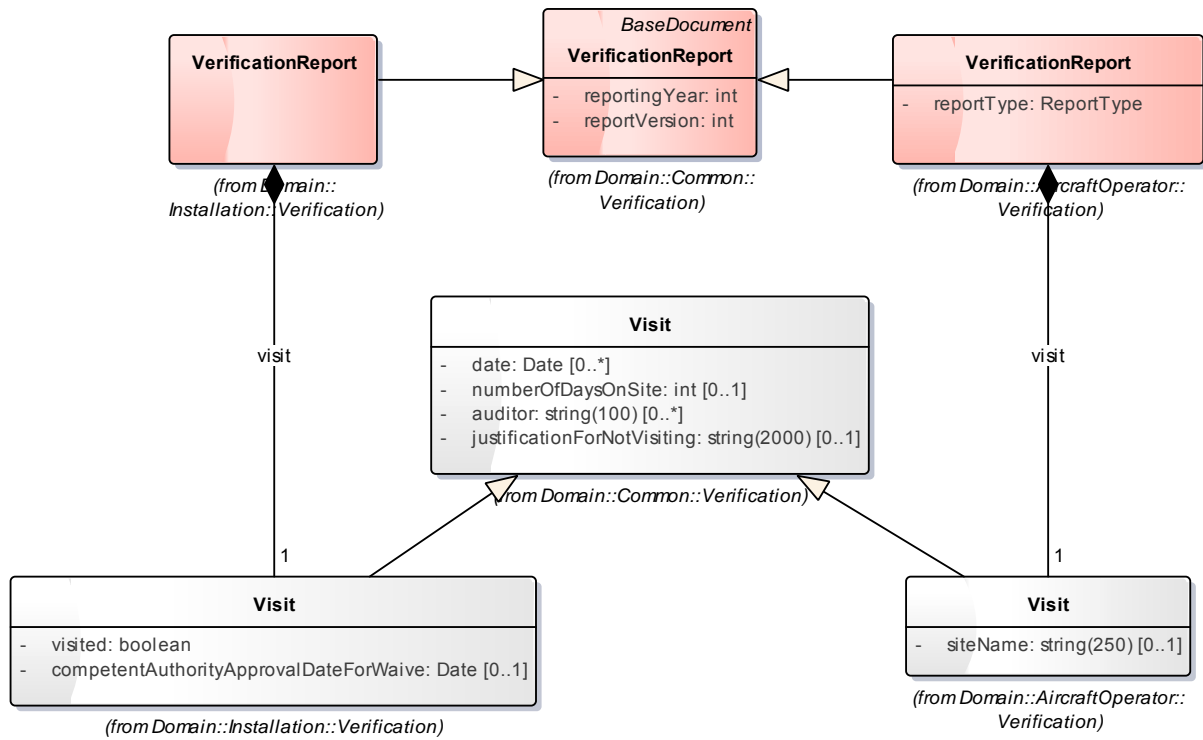


Figure 44: 02 - Visit

### 1.4.5 03 - Opinion diagram

Class diagram in package 'Verification report'

03 - Opinion  
Version 1.0

swalense created on 22/06/2015. Last modified 29/10/2015

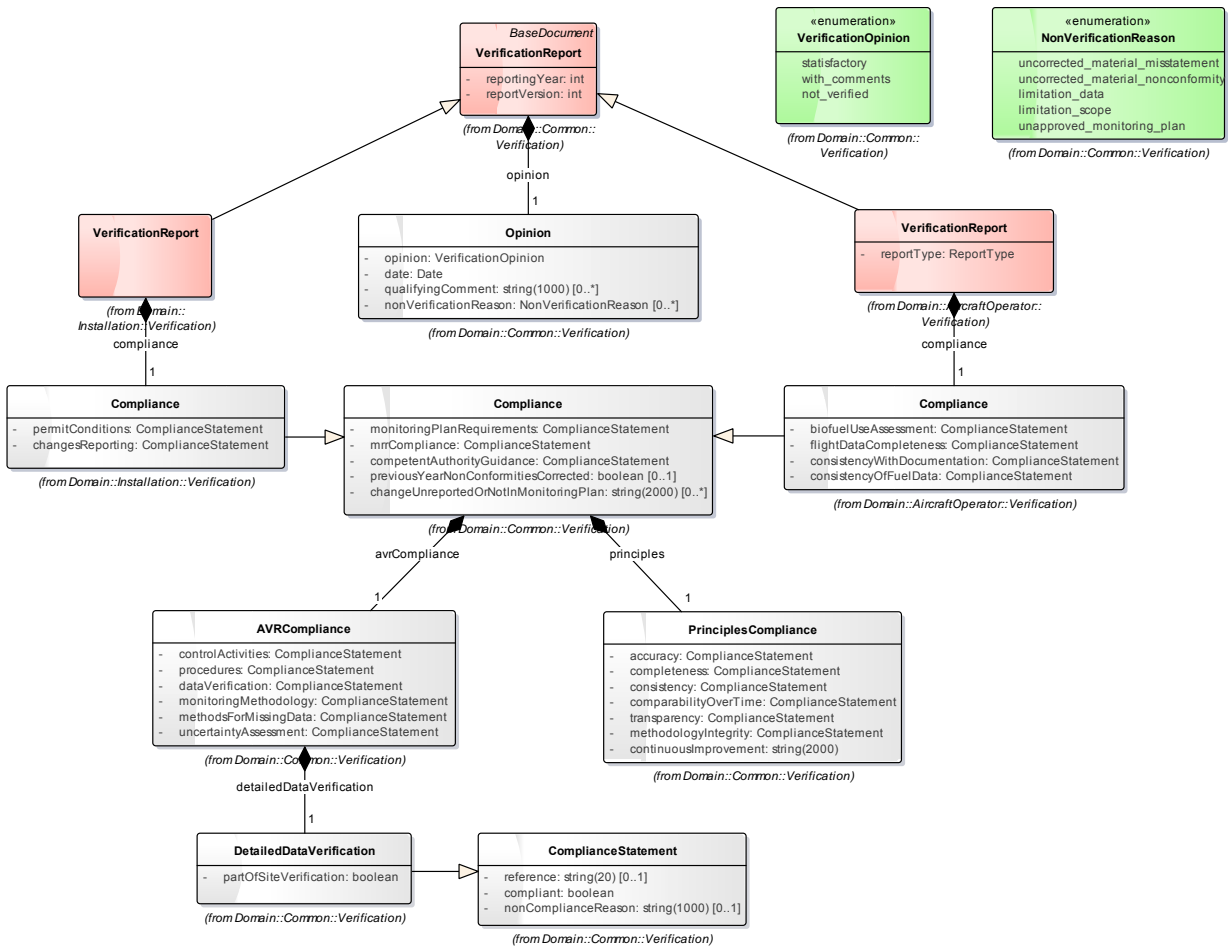


Figure 45: 03 - Opinion

### 1.4.6 04 - Annex 1 - Findings diagram

Class diagram in package 'Verification report'

04 - Annex 1 - Findings  
Version 1.0

swalense created on 18/06/2015. Last modified 24/08/2015



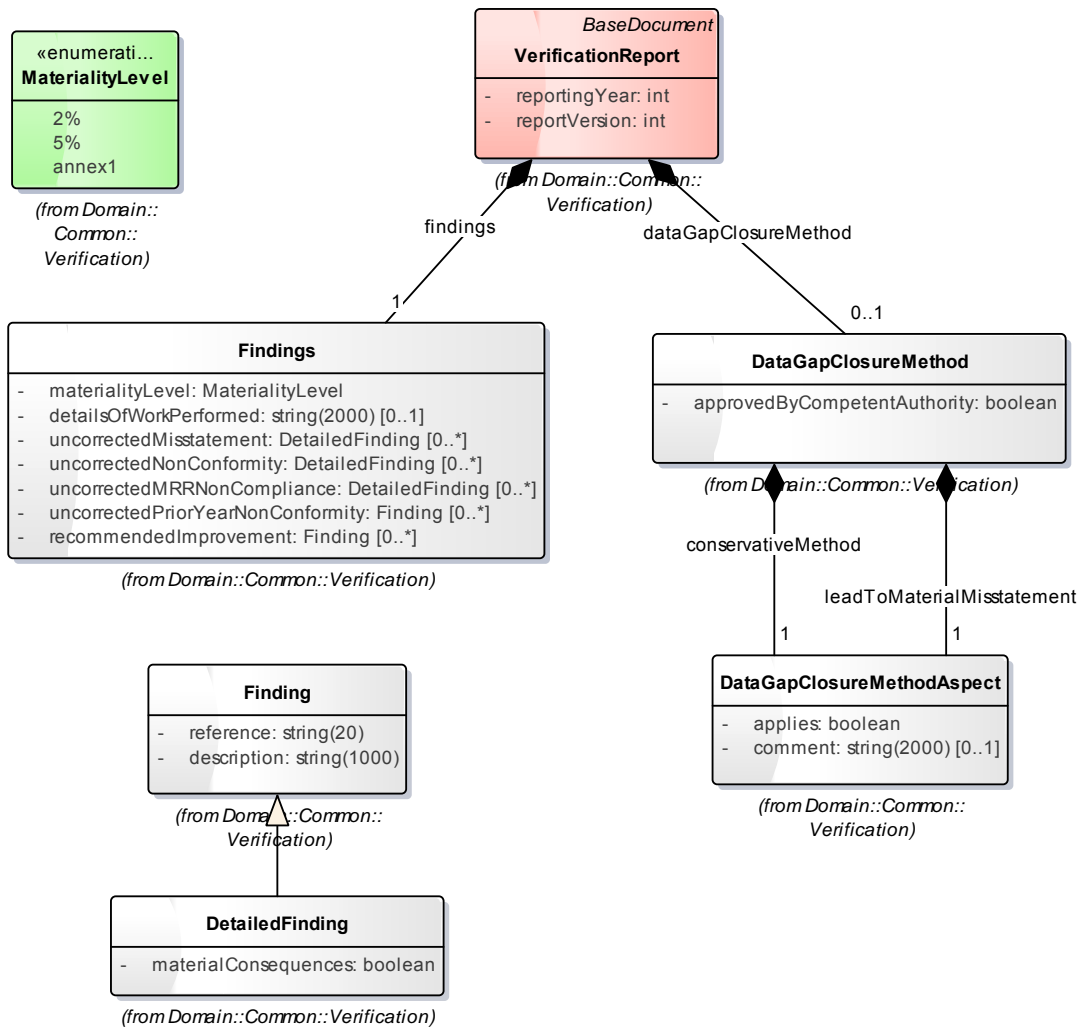


Figure 46: 04 - Annex 1 - Findings

### 1.4.7 05 - Annex 3 - Changes diagram

Class diagram in package 'Verification report'

05 - Annex 3 - Changes  
Version 1.0

swalense created on 22/06/2015. Last modified 23/06/2015

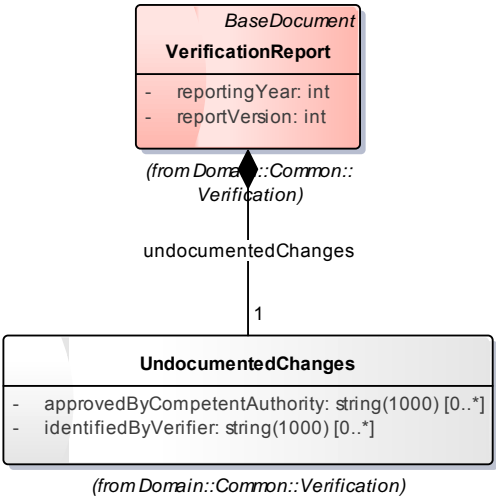


Figure 47: 05 - Annex 3 - Changes

## 2 Domain

*Package in package 'XETL'*

Domain  
Version Phase 1.0 Proposed  
created on 14/01/2015. Last modified 04/06/2015  
Alias

### 2.1 AircraftOperator

*Package in package 'Domain'*

AircraftOperator  
Version 1.0 Phase 1.0 Proposed  
swalense created on 15/01/2015. Last modified 19/01/2015  
Alias

#### 2.1.1 Improvement



*Package in package 'AircraftOperator'*

Improvement  
Version 1.0 Phase 1.0 Proposed  
swalense created on 17/06/2015. Last modified 18/06/2015  
Alias

##### 2.1.1.1 ImprovementReport

*Class in package 'Improvement'*



ImprovementReport  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends ImprovementReport

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from ImprovementReport to ImprovementReport	[ Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
 Aggregation from Operator to ImprovementReport	[ Name is operator. Direction is 'Source -> Destination'. ]


## 2.1.1.2 Operator

Class in package 'Improvement'

Operator  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends Operator

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from Operator to Operator	[ Direction is 'Source -> Destination'. ]
 Aggregation from Operator to ImprovementReport	[ Name is operator. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
 competentAuthority : CompetentAuthority Private	[ Is static False. Containment is Not Specified. ]

## 2.1.3 MP

Package in package 'AircraftOperator'

MP

Version 1.0 Phase 1.0 Proposed

swalense created on 04/02/2015. Last modified 01/06/2015

Alias

### 2.1.3.1 AE

Package in package 'MP'

AE

Version 1.0 Phase 1.0 Proposed

swalense created on 12/03/2015. Last modified 12/03/2015

Alias

#### 2.1.3.1.1 ActivityDataCalculation




Class in package 'AE'


ActivityDataCalculation

Version 1.0 Phase 1.0 Implemented

swalense created on 29/01/2015. Last modified 15/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from ActivityDataCalculation to StandardProcedureMonitoringPlan            [ Name is activityDataCalculation. Direction is 'Source -&gt; Destination'. ]</p>
INCOMING STRUCTURAL RELATIONSHIPS
<p>→ Aggregation from OnboardEquipementUncertainty to ActivityDataCalculation            [ Name is onboardEquipementUncertainty. Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>reference : string(20) Private            Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )            [ Is static False. Containment is Not Specified. ]</p>
<p>method : ActivityDataDeterminationMethod Private            Properties:            ao/mp/ae = 6a            [ Is static False. Containment is Not Specified. ]</p>
<p>fuelUpliftDataSource : FuelUpliftDataSourceEnum Private            Properties:            ao/mp/ae = 6a            [ Is static False. Containment is Not Specified. ]</p>

ATTRIBUTES	
<p> <b>dataManagementMethod</b> : ActivityDataManagementSource Private                      Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties:                      ao/mp/ae = 6a</p>	[ Is static False. Containment is Not Specified. ]
<p> <b>upliftFuelDensityMethod</b> : FuelDensityDeterminationMethod Private</p> <p>Properties:                      ao/mp/ae = 6e</p>	[ Is static False. Containment is Not Specified. ]
<p> <b>inTanksDensityDeterminationMethod</b> : FuelDensityDeterminationMethod Private</p> <p>Properties:                      ao/mp/ae = 6e</p>	[ Is static False. Containment is Not Specified. ]
<p> <b>standardDensityValueJustification</b> : string(1000) Private                      Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties:                      ao/mp/ae = 6e</p>	[ Is static False. Containment is Not Specified. ]
<p> <b>remainingFuelMeasurementUncertainty</b> : MeasurementUncertaintyLevel Private                      Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>7a (ae)</p>	[ Is static False. Containment is Not Specified. ]

ASSOCIATIONS	
<p> Association (direction: Unspecified) aircraftTypeReference</p> <p>Source: Public (Class) ActivityDataCalculation                      Cardinality: [0..1]</p>	<p>Target: Public (Class) AircraftType                      Cardinality: [1]</p>

**2.1.3.1.2 AircraftFleetInformation**

*Class in package 'AE'*

AircraftFleetInformation  
 Version 1.0 Phase 1.0 Implemented  
 SWALENSE created on 02/09/2015. Last modified 10/09/2015  
 Extends AircraftFleetInformation

OUTGOING STRUCTURAL RELATIONSHIPS	
<p> Generalization from AircraftFleetInformation to AircraftFleetInformation</p>	[ Direction is 'Source -> Destination'. ]

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from AircraftFleetInformation to MonitoringPlan  
 [ Name is aircraftFleetInformation. Direction is 'Source -> Destination'. ]

**INCOMING STRUCTURAL RELATIONSHIPS**

→ Aggregation from FuelUsageInformation to AircraftFleetInformation  
 [ Name is fuelUsageInformation. Direction is 'Source -> Destination'. ]

**2.1.3.1.3 DerivedData**

*Class in package 'AE'*

DerivedData  
 Version 1.0 Phase 1.0 Implemented  
 SWALENSE created on 02/06/2015. Last modified 14/07/2015

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from DerivedData to StandardProcedureMonitoringPlan  
 [ Name is derivedData. Direction is 'Source -> Destination'. ]

**INCOMING STRUCTURAL RELATIONSHIPS**

→ Aggregation from SourceStreamDerivedData to DerivedData  
 [ Name is sourceStream. Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

reference : string(20) Private  
 Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  
 [ Is static False. Containment is Not Specified. ]

totalEstimatedAnnualEmission : float(4) Private  
 [ Is static False. Containment is Not Specified. ]

percentageDeclaredAnnualEmission : float(2) Private  
 [ Is static False. Containment is Not Specified. ]

differenceDeclaredAnnualEmission : float(4) Private  
 [ Is static False. Containment is Not Specified. ]

**2.1.3.1.4 FuelMeasurementDeviation**

*Class in package 'AE'*

6g (ae)

FuelMeasurementDeviation  
 Version 1.0 Phase 1.0 Implemented

swalense created on 29/01/2015. Last modified 15/07/2015

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from FuelMeasurementDeviation to StandardProcedureMonitoringPlan  
 [ Name is fuelMeasurementDeviation. Direction is 'Source -> Destination'. ]

**INCOMING STRUCTURAL RELATIONSHIPS**

⇒ Aggregation from Aerodrome to FuelMeasurementDeviation  
 [ Name is aerodrome. Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

◆ reference : string(20) Private  
 Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  
 [ Is static False. Containment is Not Specified. ]

◆ type : string(250) Private  
 [ Is static False. Containment is Not Specified. ]

◆ justification : string(1000) Private  
 [ Is static False. Containment is Not Specified. ]

**2.1.3.1.5 FuelSamplingApproach***Class in package 'AE'*

8c (ae)

FuelSamplingApproach  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 30/01/2015. Last modified 15/07/2015

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from FuelSamplingApproach to SourceStream  
 [ Name is calculationFactorsAnalysis. Direction is 'Source -> Destination'. ]




← Aggregation from FuelSamplingApproach to SourceStream  
 [ Name is alternativeFuelBatchSampling. Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

◆ reference : string(20) Private  
 Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  
 [ Is static False. Containment is Not Specified. ]

◆ parameter : FuelParameter Private  
 Multiplicity: ( [1..3], Allow duplicates: 0, Is ordered: False )  
 [ Is static False. Containment is Not Specified. ]








ATTRIBUTES	
 description : string(1000) Private	[ Is static False. Containment is Not Specified. ]
 conformingToStandard : string(100) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )  Properties: xls = 8a	[ Is static False. Containment is Not Specified. ]
 samplingFrequency : FuelSamplingFrequency Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]



### 2.1.3.1.6 MonitoringPlan

Class in package 'AE'

MonitoringPlan  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 14/01/2015. Last modified 14/07/2015  
 Extends MonitoringPlan

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from MonitoringPlan to MonitoringPlan	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
 Generalization from StandardProcedureMonitoringPlan to MonitoringPlan	[ Direction is 'Source -> Destination'. ]
 Aggregation from AircraftFleetInformation to MonitoringPlan [ Name is aircraftFleetInformation. Direction is 'Source -> Destination'. ]	
 Generalization from SimplifiedProcedureMonitoringPlan to MonitoringPlan	[ Direction is 'Source -> Destination'. ]
 Aggregation from «Document» ActivitiesDataFlow to MonitoringPlan [ Name is activitiesDataFlow. Direction is 'Source -> Destination'. ]	

ATTRIBUTES	
 estimatedAnnualEmission : float(4) Private	[ Is static False. Containment is Not Specified. ]
 lowEmitter : boolean Private  Properties: ao/mp/ae = 5a	[ Is static False. Containment is Not Specified. ]





ATTRIBUTES	
<p> defaultEmissionFactorUsage : FuelType Private            Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )</p> <p>8a (ae) + 9b (ae)</p>	[ Is static False. Containment is Not Specified. ]
<p> consumptionGapMethod : string(1000) Private            Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>10a</p>	[ Is static False. Containment is Not Specified. ]
<p> consumptionGapTool : ConsumptionEstimationTool Private            Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>10b (ae)</p>	[ Is static False. Containment is Not Specified. ]
<p> otherParametersGapMethod : string(1000) Private            Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>10c</p>	[ Is static False. Containment is Not Specified. ]

### 2.1.3.1.7 OnboardEquipmentUncertainty

*Class in package 'AE'*

7a

OnboardEquipmentUncertainty  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 30/01/2015. Last modified 25/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
<p> Aggregation from OnboardEquipmentUncertainty to ActivityDataCalculation            [ Name is onboardEquipmentUncertainty. Direction is 'Source -&gt; Destination'. ]</p>	
ATTRIBUTES	
<p> reference : string(20) Private            Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p>	[ Is static False. Containment is Not Specified. ]
<p> level : MeasurementUncertaintyLevel Private            Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p>	[ Is static False. Containment is Not Specified. ]
<p> evidenceLocation : string(1000) Private</p>	

ATTRIBUTES
<p>7a</p> <p>[ Is static False. Containment is Not Specified. ]</p>

### 2.1.3.1.8 SimplifiedProcedureMonitoringPlan

Class in package 'AE'

SimplifiedProcedureMonitoringPlan  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 30/01/2015. Last modified 02/09/2015  
 Extends MonitoringPlan

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from SimplifiedProcedureMonitoringPlan to MonitoringPlan</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>







INCOMING STRUCTURAL RELATIONSHIPS
<p>⇒ Aggregation from «Document» RiskAssessment to SimplifiedProcedureMonitoringPlan</p> <p>[ Name is riskAssessment. Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p>◆ <b>simplifiedProcedureJustification</b> : string(1000) Private          Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties:          ao/mp/ae = 5c</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ <b>consumptionEstimationTool</b> : ConsumptionEstimationTool Private</p> <p>9a</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ <b>efAndNCVValueAndMethodology</b> : string(1000) Private          Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>9c</p> <p>[ Is static False. Containment is Not Specified. ]</p>

### 2.1.3.1.9 SourceStream

Class in package 'AE'

SourceStream  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 30/01/2015. Last modified 15/07/2015  
 Extends Fuel

OUTGOING STRUCTURAL RELATIONSHIPS	
↔ Generalization from SourceStream to Fuel	[ Direction is 'Source -> Destination'. ]
↔ Aggregation from SourceStream to StandardProcedureMonitoringPlan	[ Name is sourceStream. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from FuelSamplingApproach to SourceStream	[ Name is calculationFactorsAnalysis. Direction is 'Source -> Destination'. ]
⇒ Aggregation from FuelSamplingApproach to SourceStream	[ Name is alternativeFuelBatchSampling. Direction is 'Source -> Destination'. ]
CONNECTORS	
 <b>Usage</b> reference Source -> Destination From: MonitoringPlanFuel : Class, Public To: SourceStream : Class, Public	
ATTRIBUTES	
 reference : string(20) Private	[ Is static False. Containment is Not Specified. ]
 estimatedAnnualEmission : float(4) Private	[ Is static False. Containment is Not Specified. ]
 category : SourceStreamEmissionCategory Private	[ Is static False. Containment is Not Specified. ]
 consumptionUncertainty : ConsumptionUncertainty Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
ASSOCIATIONS	
 Association (direction: Unspecified) sourceStreamReference Source: Public (Class) SourceStreamDerivedData Cardinality: [0..1]	Target: Public (Class) SourceStream Cardinality: [1]

### 2.1.3.1.10 SourceStreamDerivedData

Class in package 'AE'

SourceStreamDerivedData  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 17/06/2015. Last modified 14/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from SourceStreamDerivedData to DerivedData                      [ Name is sourceStream. Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p>percentageEstimatedAnnualEmission : float(4) Private                      Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )                      [ Is static False. Containment is Not Specified. ]</p>
<p>reference : string(20) Private                      Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )                      [ Is static False. Containment is Not Specified. ]</p>

ASSOCIATIONS
<p>Association (direction: Unspecified) sourceStreamReference</p> <p>Source: Public (Class) SourceStreamDerivedData                      Cardinality: [0..1]</p> <p>Target: Public (Class) SourceStream                      Cardinality: [1]</p>

### 2.1.3.1.11 StandardProcedureMonitoringPlan

Class in package 'AE'

StandardProcedureMonitoringPlan  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 30/01/2015. Last modified 02/09/2015  
 Extends MonitoringPlan

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from StandardProcedureMonitoringPlan to MonitoringPlan                      [ Direction is 'Source -&gt; Destination'. ]</p>

INCOMING STRUCTURAL RELATIONSHIPS
<p>⇒ Aggregation from «Document» RiskAssessment to StandardProcedureMonitoringPlan                      [ Name is riskAssessment. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from LaboratoryAnalysis to StandardProcedureMonitoringPlan                      [ Name is analysis. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from FuelMeasurementDeviation to StandardProcedureMonitoringPlan                      [ Name is fuelMeasurementDeviation. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from Laboratory to StandardProcedureMonitoringPlan                      [ Name is laboratory. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from ActivityDataCalculation to StandardProcedureMonitoringPlan                      [ Name is activityDataCalculation. Direction is 'Source -&gt; Destination'. ]</p>

INCOMING STRUCTURAL RELATIONSHIPS
<p>➔ Aggregation from «Document» UncertaintyThresholdEvidence to StandardProcedureMonitoringPlan                      [ Name is uncertaintyThresholdEvidence. Direction is 'Source -&gt; Destination'. ]</p>
<p>➔ Aggregation from DerivedData to StandardProcedureMonitoringPlan                      [ Name is derivedData. Direction is 'Source -&gt; Destination'. ]</p>
<p>➔ Aggregation from UncertaintySource to StandardProcedureMonitoringPlan                      [ Name is uncertaintySource. Direction is 'Source -&gt; Destination'. ]</p>
<p>➔ Aggregation from SourceStream to StandardProcedureMonitoringPlan                      [ Name is sourceStream. Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p>◆ activityDataMethodJustification : string(1000) Private                      Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>6b</p> <p>Properties:                      ao/mp/ae = 6b</p> <p style="text-align: right;">[ Is static False. Containment is Not Specified. ]</p>
<p>◆ expectedAircraftMonitoringProcedure : Procedure Private</p> <p>6c</p> <p style="text-align: right;">[ Is static False. Containment is Not Specified. ]</p>
<p>◆ densityMeasurementProcedure : Procedure Private</p> <p>6f</p> <p style="text-align: right;">[ Is static False. Containment is Not Specified. ]</p>
<p>◆ perFlightFuelMonitoringProcedure : Procedure Private</p> <p>6d</p> <p style="text-align: right;">[ Is static False. Containment is Not Specified. ]</p>
<p>◆ totalUncertaintyTierComplianceProcedure : Procedure Private</p> <p>7e (ae)</p> <p style="text-align: right;">[ Is static False. Containment is Not Specified. ]</p>
<p>◆ upliftCrossCheckProcedure : Procedure Private</p> <p>7f (ae)</p> <p style="text-align: right;">[ Is static False. Containment is Not Specified. ]</p>
<p>◆ alternativeFuelsDetailsProcedure : Procedure Private</p> <p>8b</p>

**ATTRIBUTES**

[ Is static False. Containment is Not Specified. ]

**2.1.3.1.12 UncertaintySource***Class in package 'AE'*

7b

UncertaintySource  
Version 1.0 Phase 1.0 Implemented  
swalense created on 30/01/2015. Last modified 15/07/2015

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from UncertaintySource to StandardProcedureMonitoringPlan  
[ Name is uncertaintySource. Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

◆ **reference : string(20) Private**  
Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  
[ Is static False. Containment is Not Specified. ]

◆ **source : string(100) Private**  
[ Is static False. Containment is Not Specified. ]

◆ **level : MeasurementUncertaintyLevel Private**  
Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  
[ Is static False. Containment is Not Specified. ]

◆ **comments : string(1000) Private**  
[ Is static False. Containment is Not Specified. ]

### 2.1.3.3 tkm

Package in package 'MP'

tkm

Version 1.0 Phase 1.0 Proposed

swalense created on 12/03/2015. Last modified 12/03/2015

Alias








#### 2.1.3.3.1 FreightFlights

Class in package 'tkm'

FreightFlights

Version 1.0 Phase 1.0 Implemented

swalense created on 30/01/2015. Last modified 14/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from FreightFlights to MonitoringPlan	[ Name is freightFlights. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 massAndBalanceDocumentationRequired : boolean Private 6d (tkm)	[ Is static False. Containment is Not Specified. ]
 alternativeMassAndBalanceDeterminationMethodology : string(1000) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) 6e (tkm)  Constraints: if massBalanceDocumentationRequired false :	[ Is static False. Containment is Not Specified. ]
 massMeasurementDevicesDescription : string(1000) Private 6f (tkm)	[ Is static False. Containment is Not Specified. ]
 nonPayloadWeightExcluded : boolean Private 6g (tkm)	[ Is static False. Containment is Not Specified. ]
 massMonitoringProcedure : Procedure Private	



ATTRIBUTES	
6h (tkm)	[ Is static False. Containment is Not Specified. ]




### 2.1.3.3.2 MonitoringPlan

Class in package 'tkm'

MonitoringPlan  
Version 1.0 Phase 1.0 Implemented  
swalense created on 14/01/2015. Last modified 25/08/2015  
Extends MonitoringPlan

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from MonitoringPlan to MonitoringPlan	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from FreightFlights to MonitoringPlan	[ Name is freightFlights. Direction is 'Source -> Destination'. ]
⇒ Aggregation from PassengerFlights to MonitoringPlan	[ Name is passengerFlights. Direction is 'Source -> Destination'. ]
⇒ Aggregation from «Document» tkmDataCalculationDataFlow to MonitoringPlan	[ Name is tkmDataCalculationDataFlow. Direction is 'Source -> Destination'. ]
⇒ Aggregation from «Document» RiskAssessment to MonitoringPlan	[ Name is riskAssessment. Direction is 'Source -> Destination'. ]
⇒ Aggregation from AircraftFleetInformation to MonitoringPlan	[ Name is aircraftFleetInformation. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
<p> aerodromeCoordinatesFromAIP : boolean Private</p> <p>5a (tkm)</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p> distanceDeterminationMethodology : string(1000) Private</p> <p>5b (tkm)</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p> aerodromeLocationDeterminationProcedure : Procedure Private</p> <p>5c (tkm)</p>	

ATTRIBUTES	
	[ Is static False. Containment is Not Specified. ]
◆ greatCircleDeterminationProcedure : Procedure Private 5d (tkm)	[ Is static False. Containment is Not Specified. ]

### 2.1.3.3.3 PassengerFlights

*Class in package 'tkm'*

PassengerFlights  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 30/01/2015. Last modified 14/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
⇐ Aggregation from PassengerFlights to MonitoringPlan	[ Name is passengerFlights. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ appliedTier : PassengerPayload Private 6a (tkm)	[ Is static False. Containment is Not Specified. ]
◆ massAndBalanceDataSource : string(1000) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) 6b (tkm)	[ Is static False. Containment is Not Specified. ]
◆ passengerNumberMonitoringProcedure : Procedure Private 6c (tkm)	[ Is static False. Containment is Not Specified. ]

### 2.1.3.4 MonitoringPlan

*Class in package 'MP'*

MonitoringPlan  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 29/01/2015. Last modified 14/07/2015  
 Extends MonitoringPlan

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from MonitoringPlan to MonitoringPlan	[ Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from Operator to MonitoringPlan	[ Name is operator. Direction is 'Source -> Destination'. ]
⇒ Generalization from MonitoringPlan to MonitoringPlan	[ Direction is 'Source -> Destination'. ]
⇒ Aggregation from NonICAOAerodrome to MonitoringPlan	[ Name is nonICAOAerodrome. Direction is 'Source -> Destination'. ]
⇒ Generalization from MonitoringPlan to MonitoringPlan	[ Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ aircraftListCompletenessMonitoringProcedure : Procedure Private Properties: ao/mp = 4c	[ Is static False. Containment is Not Specified. ]
◆ flightCompletenessMonitoringProcedure : Procedure Private Properties: ao/mp = 4d	[ Is static False. Containment is Not Specified. ]
◆ annexIFlightDeterminationProcedure : Procedure Private Properties: ao/mp = 4e	[ Is static False. Containment is Not Specified. ]

### 2.1.3.5 Operator

*Class in package 'MP'*

Operator  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 14/01/2015. Last modified 14/07/2015  
 Extends Operator

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from Operator to MonitoringPlan	[ Name is operator. Direction is 'Source -> Destination'. ]

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from Operator to Operator

[ Direction is 'Source -> Destination'. ]

**INCOMING STRUCTURAL RELATIONSHIPS**

→ Aggregation from Address to Operator  
2l (ao)

[ Name is addressInAdministeringMemberState. Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

◆ competentAuthority : CompetentAuthority Private  
Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )

Properties:

ao/mp = 2i

xetl/mp = OperatorDetails/AircraftOperatorDetails/CompetentAuthority

[ Is static False. Containment is Not Specified. ]

◆ ownershipStructureDescription : string(1000) Private

Properties:

ao/mp = 2m

[ Is static False. Containment is Not Specified. ]

◆ furtherDescriptionOfActivities : string(1000) Private  
Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )

Properties:

ao/mp = 2o

[ Is static False. Containment is Not Specified. ]

◆ status : OperatorStatus Private

Properties:

ao/mp = 2n

[ Is static False. Containment is Not Specified. ]

◆ flightScheduling : FlightScheduling Private  
Multiplicity: ( [1..2], Allow duplicates: 0, Is ordered: False )

Properties:

ao/mp = 2n

[ Is static False. Containment is Not Specified. ]

◆ operationsScope : OperationScope Private

Properties:

ao/mp = 2n

[ Is static False. Containment is Not Specified. ]

## 2.1.5 Report

Package in package 'AircraftOperator'

Report  
Version 1.0 Phase 1.0 Proposed  
swalense created on 16/02/2015. Last modified 16/02/2015  
Alias

### 2.1.5.1 AE

Package in package 'Report'

AE  
Version 1.0 Phase 1.0 Proposed  
swalense created on 12/03/2015. Last modified 12/03/2015  
Alias

#### 2.1.5.1.1 AdditionalFuel

Class in package 'AE'

AdditionalFuel  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 01/06/2015. Last modified 29/06/2015  
Extends Fuel

OUTGOING STRUCTURAL RELATIONSHIPS	
<p>← Generalization from AdditionalFuel to Fuel</p>	[ Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
<p>→ Aggregation from Fuel to AdditionalFuel</p>	[ Direction is 'Source -> Destination'. ]

#### 2.1.5.1.2 AerodromePairEmission

Class in package 'AE'

AerodromePairEmission  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/02/2015. Last modified 30/06/2015  
Extends Emission

OUTGOING STRUCTURAL RELATIONSHIPS	
<p>← Generalization from AerodromePairEmission to Emission</p>	[ Direction is 'Source -> Destination'. ]

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from AerodromePairEmission to ReportRawData  
 [ Name is aerodromePairEmission. Direction is 'Source -> Destination'. ]

**INCOMING STRUCTURAL RELATIONSHIPS**

→ Aggregation from AerodromePair to AerodromePairEmission  
 [ Name is aerodromePair. Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

reference : string(20) Private  
 Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  
 [ Is static False. Containment is Not Specified. ]

flightNumber : int Private  
 Properties:  
 ao/r/ae = 11b  
 ao/r/tkm = 5a  
 xetl = AviationEmissionsReportDetails/TonneKilometreData/TotalNumberOfFlightsPerAerodromePair,  
 AviationEmissionsReportDetails/AviationTotalEmissionsData/AdditionalEmissionsDataPerAerodromePair/AdditionalEmissionDetails/TotalNumberOfFlightsPerAerodromePair  
 [ Is static False. Containment is Not Specified. ]

**2.1.5.1.3 BiomassEmission**

*Class in package 'AE'*

BiomassEmission  
 Version 1.0 Phase 1.0 Implemented  
 SWALENSE created on 02/06/2015. Last modified 14/07/2015

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from BiomassEmission to FuelEmission  
 [ Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

emissionBiomass : float(4) Private  
 Properties:  
 ao/r/ae = 5c  
 inst/r = summary  
 [ Is static False. Containment is Not Specified. ]

emissionNonSustBiomass : float(4) Private  
 Properties:  
 ao/r/ae = 5c  
 inst/r = summary  
 [ Is static False. Containment is Not Specified. ]

**2.1.5.1.4 BiomassFractions***Class in package 'AE'*



BiomassFractions  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 02/06/2015. Last modified 29/06/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from BiomassFractions to Fuel	[ Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ biomassFraction : float(2) Private	[ Is static False. Containment is Not Specified. ]
◆ nonSustBiomassFraction : float(2) Private	[ Is static False. Containment is Not Specified. ]

**2.1.5.1.5 DataGap***Class in package 'AE'*

DataGap  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/02/2015. Last modified 30/06/2015  
Extends Emission







OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from DataGap to Emission	[ Direction is 'Source -> Destination'. ]
← Aggregation from DataGap to ReportRawData	[ Name is dataGap. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ gapReference : string(100) Private  Properties: ao/r/ae = 7a xetl = AviationEmissionsReportDetails/AviationTotalEmissionsData/DataGaps/AppliedSituation	[ Is static False. Containment is Not Specified. ]
◆ reason : string(100) Private  Properties: ao/r/ae = 7a	


ATTRIBUTES
<p>xetl = AviationEmissionsReportDetails/AviationTotalEmissionsData/DataGaps/ReasonForGap                      [ Is static False. Containment is Not Specified. ]</p>
<p>  type : string(100) Private                      Properties:                      ao/r/ae = 7a                      xetl = AviationEmissionsReportDetails/AviationTotalEmissionsData/DataGaps/DataGapType                      [ Is static False. Containment is Not Specified. ]</p>
<p>  replacementMethod : string(100) Private                      Properties:                      ao/r/ae = 7a                      xetl = AviationEmissionsReportDetails/AviationTotalEmissionsData/DataGaps/ConfirmationSimplifiedApproachDataGaps                      [ Is static False. Containment is Not Specified. ]</p>

### 2.1.5.1.6 Emission

Class in package 'AE'

Emission  
 Version 1.0 Phase 1.0 Implemented  
 SWALENSE created on 06/10/2015. Last modified 29/10/2015

INCOMING STRUCTURAL RELATIONSHIPS
<p>  Generalization from FuelEmission to Emission                      [ Direction is 'Source -&gt; Destination'. ]</p>
<p>  Generalization from DataGap to Emission                      [ Direction is 'Source -&gt; Destination'. ]</p>
<p>  Generalization from FlightEndpointsAndFuelEmission to Emission                      [ Direction is 'Source -&gt; Destination'. ]</p>
<p>  Generalization from EmissionSummary to Emission                      [ Direction is 'Source -&gt; Destination'. ]</p>
<p>  Generalization from AerodromePairEmission to Emission                      [ Direction is 'Source -&gt; Destination'. ]</p>
<p>  Generalization from FlightEndpointsEmission to Emission                      [ Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p>  emission : float(4) Private                      TotalEmission seems to be an integer in current XETL.                      Properties:</p>



ATTRIBUTES
ao/r/ae = 11b xetl = AviationEmissionsReportDetails/AviationTotalEmissionsData/AdditionalEmissionsDataPerAerodromePair/AdditionalEmissionDetails/TotalEmissionsPerAerodromePair <div style="text-align: right;">[ Is static False. Containment is Not Specified. ]</div>

### 2.1.5.1.7 EmissionSummary

*Class in package 'AE'*

EmissionSummary  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 11/05/2015. Last modified 01/07/2015  
 Extends Emission

OUTGOING STRUCTURAL RELATIONSHIPS
← Aggregation from EmissionSummary to ReportSummary <div style="text-align: right;">[ Name is nonDomesticFlights. Direction is 'Source -&gt; Destination'. ]</div>
← Aggregation from EmissionSummary to ReportSummary <div style="text-align: right;">[ Name is msDepartingFlights. Direction is 'Source -&gt; Destination'. ]</div>
← Aggregation from EmissionSummary to ReportSummary <div style="text-align: right;">[ Name is total. Direction is 'Source -&gt; Destination'. ]</div>
← Aggregation from EmissionSummary to ReportSummary <div style="text-align: right;">[ Name is domesticFlights. Direction is 'Source -&gt; Destination'. ]</div>
← Aggregation from EmissionSummary to ReportSummary <div style="text-align: right;">[ Name is msArrivingFlights. Direction is 'Source -&gt; Destination'. ]</div>
← Generalization from EmissionSummary to Emission <div style="text-align: right;">[ Direction is 'Source -&gt; Destination'. ]</div>

INCOMING STRUCTURAL RELATIONSHIPS
→ Aggregation from FuelEmission to EmissionSummary <div style="text-align: right;">[ Name is fuelEmission. Direction is 'Source -&gt; Destination'. ]</div>

### 2.1.5.1.8 FlightEndpointsAndFuelEmission

*Class in package 'AE'*

FlightEndpointsAndFuelEmission  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 11/05/2015. Last modified 01/07/2015  
 Extends Emission, FlightEndpoints

OUTGOING STRUCTURAL RELATIONSHIPS
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OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from FlightEndpointsAndFuelEmission to FlightEndpoints	[ Direction is 'Source -> Destination'. ]
← Aggregation from FlightEndpointsAndFuelEmission to ReportRawData	[ Name is flightEndpointsAndFuelEmission. Direction is 'Source -> Destination'. ]
← Generalization from FlightEndpointsAndFuelEmission to Emission	[ Direction is 'Source -> Destination'. ]

ASSOCIATIONS	
✍ Association (direction: Unspecified) fuelReference	
Source: Public (Class) FlightEndpointsAndFuelEmission Cardinality: [1..*]	Target: Public (Class) Fuel Cardinality: [1]

### 2.1.5.1.9 FlightEndpointsEmission

Class in package 'AE'

FlightEndpointsEmission  
Version 1.0 Phase 1.0 Implemented  
swalense created on 11/05/2015. Last modified 01/07/2015  
Extends Emission, FlightEndpoints

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from FlightEndpointsEmission to ReportSummary	[ Name is flightEndpointsEmission. Direction is 'Source -> Destination'. ]
← Generalization from FlightEndpointsEmission to Emission	[ Direction is 'Source -> Destination'. ]
← Generalization from FlightEndpointsEmission to FlightEndpoints	[ Direction is 'Source -> Destination'. ]

### 2.1.5.1.10 Fuel

Class in package 'AE'

Fuel  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/02/2015. Last modified 01/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from Fuel to ReportRawData	[ Name is fuel. Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
-----------------------------------	--

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Generalization from MonitoringPlanFuel to Fuel	[ Direction is 'Source -> Destination'. ]
➔ Aggregation from BiomassFractions to Fuel	[ Direction is 'Source -> Destination'. ]
➔ Generalization from AdditionalFuel to Fuel	[ Direction is 'Source -> Destination'. ]

CONNECTORS	
 <b>Usage</b> fuelReference Source -> Destination From: FuelEmission : Class, Public To: Fuel : Class, Public	

ATTRIBUTES	
 reference : string(20) Private	[ Is static False. Containment is Not Specified. ]
 consumption : float(3) Private  Properties: ao/r/ae = 5c xetl = AviationEmissionsReportDetails/AviationTotalEmissionsData/FuelsUsedData/FuelConsumption	[ Is static False. Containment is Not Specified. ]
 consumedByAircraftGenericType : string(20) Private Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: False )  Properties: ao/r/ae = 5d xetl = AviationEmissionsReportDetails/AviationTotalEmissionsData/FuelUsePerAircraftType/AircraftTypeReference	[ Is static False. Containment is Not Specified. ]
 preliminaryEF : float(2) Private  Properties: ao/r/ae = 5b xetl = AviationEmissionsReportDetails/AviationTotalEmissionsData/FuelsUsedData/EmissionFactor	[ Is static False. Containment is Not Specified. ]
 ncv : float(4) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  Properties: ao/r/ae = 5b xetl = AviationEmissionsReportDetails/AviationTotalEmissionsData/FuelsUsedData/NetCalorificValue	[ Is static False. Containment is Not Specified. ]

ASSOCIATIONS	
 Association (direction: Unspecified) fuelReference  Source: Public (Class) FlightEndpointsAndFuelEmission	Target: Public (Class) Fuel

ASSOCIATIONS	
Cardinality: [1..*]	Cardinality: [1]

### 2.1.5.1.11 FuelEmission

*Class in package 'AE'*

FuelEmission  
Version 1.0 Phase 1.0 Implemented  
swalense created on 11/05/2015. Last modified 10/07/2015  
Extends Emission

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from FuelEmission to Emission	[ Direction is 'Source -> Destination'. ]
← Aggregation from FuelEmission to EmissionSummary	[ Name is fuelEmission. Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
→ Aggregation from BiomassEmission to FuelEmission	[ Direction is 'Source -> Destination'. ]

CONNECTORS	
<p>↗ <b>Usage</b> fuelReference Source -&gt; Destination</p> <p>From: FuelEmission : Class, Public</p> <p>To: Fuel : Class, Public</p>	

ATTRIBUTES	
♦ fuelReference : string(20) Private	[ Is static False. Containment is Not Specified. ]

### 2.1.5.1.12 MonitoringPlanFuel

*Class in package 'AE'*

MonitoringPlanFuel  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 01/06/2015. Last modified 24/07/2015  
Extends Fuel

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from MonitoringPlanFuel to Fuel	[ Direction is 'Source -> Destination'. ]

CONNECTORS	
------------	--



CONNECTORS
<p> <b>Usage</b> reference Source -&gt; Destination                      From: MonitoringPlanFuel : Class, Public                      To: SourceStream : Class, Public</p>

ATTRIBUTES
<p> sourceStreamReference : string(20) Private</p> <p style="text-align: right;">[ Is static False. Containment is Not Specified. ]</p>

**2.1.5.1.13 Report**

*Class in package 'AE'*



Report  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 01/06/2015. Last modified 24/08/2015



INCOMING STRUCTURAL RELATIONSHIPS
<p> Aggregation from ReportRawData to Report</p> <p style="text-align: right;">[ Name is rawData. Direction is 'Source -&gt; Destination'. ]</p>
<p> Aggregation from ReportSummary to Report</p> <p style="text-align: right;">[ Name is summary. Direction is 'Source -&gt; Destination'. ]</p>

**2.1.5.1.14 ReportRawData**

*Class in package 'AE'*

ReportRawData  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/02/2015. Last modified 25/08/2015  
 Extends ReportRawData

OUTGOING STRUCTURAL RELATIONSHIPS
<p> Generalization from ReportRawData to ReportRawData</p> <p style="text-align: right;">[ Direction is 'Source -&gt; Destination'. ]</p>
<p> Aggregation from ReportRawData to Report</p> <p style="text-align: right;">[ Name is rawData. Direction is 'Source -&gt; Destination'. ]</p>

INCOMING STRUCTURAL RELATIONSHIPS
<p> Aggregation from Fuel to ReportRawData</p> <p style="text-align: right;">[ Name is fuel. Direction is 'Source -&gt; Destination'. ]</p>
<p> Aggregation from FlightEndpointsAndFuelEmission to ReportRawData</p> <p style="text-align: right;">[ Name is flightEndpointsAndFuelEmission. Direction is 'Source -&gt; Destination'. ]</p>

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Aggregation from DataGap to ReportRawData	[ Name is dataGap. Direction is 'Source -> Destination'. ]
➔ Aggregation from AerodromePairEmission to ReportRawData	[ Name is aerodromePairEmission. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
<p>◆ aerodromePairDataConfidential : boolean Private</p> <p>Properties:            ao/r/ae = 11a            xetl =            AviationEmissionsReportDetails/AviationTotalEmissionsData/AdditionalEmissionsDataPerAerodromePair/DataConfidential</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ simplifiedProcedure : boolean Private</p> <p>Properties:            ao/r/ae = 6a</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ flightNumberPerPeriod : int Private</p> <p>Multiplicity: ( [0..3], Allow duplicates: 0, Is ordered: True )</p> <p>Constraints:            for smallEmitter : Invariant</p> <p>Properties:            ao/r/ae = 6b</p>	[ Is static False. Containment is Not Specified. ]

### 2.1.5.1.15 ReportSummary

Class in package 'AE'

ReportSummary  
 Version 1.0 Phase 1.0 Implemented  
 SWALEASE created on 06/05/2015. Last modified 01/07/2015  
 Extends ReportSummary

OUTGOING STRUCTURAL RELATIONSHIPS	
⬅ Generalization from ReportSummary to ReportSummary	[ Direction is 'Source -> Destination'. ]
⬅ Aggregation from ReportSummary to Report	[ Name is summary. Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Aggregation from FlightEndpointsEmission to ReportSummary	[ Name is flightEndpointsEmission. Direction is 'Source -> Destination'. ]

**INCOMING STRUCTURAL RELATIONSHIPS**

⇒ Aggregation from EmissionSummary to ReportSummary  
[ Name is nonDomesticFlights. Direction is 'Source -> Destination'. ]

⇒ Aggregation from EmissionSummary to ReportSummary  
[ Name is msDepartingFlights. Direction is 'Source -> Destination'. ]

⇒ Aggregation from EmissionSummary to ReportSummary  
[ Name is total. Direction is 'Source -> Destination'. ]

⇒ Aggregation from EmissionSummary to ReportSummary  
[ Name is domesticFlights. Direction is 'Source -> Destination'. ]

⇒ Aggregation from EmissionSummary to ReportSummary  
[ Name is msArrivingFlights. Direction is 'Source -> Destination'. ]

### 2.1.5.3 tkm

Package in package 'Report'

tkm  
Version 1.0 Phase 1.0 Proposed  
swalense created on 12/03/2015. Last modified 12/03/2015  
Alias

#### 2.1.5.3.1 AerodromePairtkmRawData

Class in package 'tkm'

AerodromePairtkmRawData  
Version 1.0 Phase 1.0 Implemented  
swalense created on 11/03/2015. Last modified 01/07/2015  
Extends tkmRawData

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from AerodromePairtkmRawData to ReportRawData [ Name is aerodromePairtkmRawData. Direction is 'Source -&gt; Destination'. ]</p>
<p>← Generalization from AerodromePairtkmRawData to tkmRawData [ Direction is 'Source -&gt; Destination'. ]</p>
INCOMING STRUCTURAL RELATIONSHIPS
<p>→ Aggregation from AerodromePair to AerodromePairtkmRawData [ Name is aerodromePair. Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>reference : int Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]</p>
<p>flightNumber : int Private</p> <p>Properties: ao/r/ae = 11b ao/r/tkm = 5a xetl = AviationEmissionsReportDetails/TonneKilometreData/TotalNumberOfFlightsPerAerodromePair, AviationEmissionsReportDetails/AviationTotalEmissionsData/AdditionalEmissionsDataPerAerodromePair/AdditionalEmissionDetails/TotalNumberOfFlightsPerAerodromePair [ Is static False. Containment is Not Specified. ]</p>

#### 2.1.5.3.2 AerodromePairtkmSummary

Class in package 'tkm'

AerodromePairtkmSummary  
Version 1.0 Phase 1.0 Implemented  
swalense created on 11/05/2015. Last modified 25/08/2015



OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from AerodromePairtkmSummary to ReportSummary [ Name is aerodromePairtkmSummary. Direction is 'Source -> Destination'. ]	
INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from AerodromePair to AerodromePairtkmSummary [ Name is aerodromePair. Direction is 'Source -> Destination'. ]	
⇒ Aggregation from tkmSummary to AerodromePairtkmSummary [ Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]	
◆ distance : float(3) Private Properties: ao/r/tkm = 5a [ Is static False. Containment is Not Specified. ]	

### 2.1.5.3.3 Report

Class in package 'tkm'

Report  
Version 1.0 Phase 1.0 Implemented  
swalense created on 01/06/2015. Last modified 24/08/2015

CONSTRAINTS	
🔒 Invariant. R [ Approved, Weight is 0. ]	
INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from ReportRawData to Report [ Name is rawData. Direction is 'Source -> Destination'. ]	
⇒ Aggregation from ReportSummary to Report [ Name is summary. Direction is 'Source -> Destination'. ]	

### 2.1.5.3.4 ReportRawData

Class in package 'tkm'

ReportRawData

Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/02/2015. Last modified 25/08/2015  
 Extends ReportRawData

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from ReportRawData to Report	[ Name is rawData. Direction is 'Source -> Destination'. ]
← Generalization from ReportRawData to ReportRawData	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
→ Aggregation from AerodromePairtkmRawData to ReportRawData	[ Name is aerodromePairtkmRawData. Direction is 'Source -> Destination'. ]

### 2.1.5.3.5 ReportSummary

*Class in package 'tkm'*

ReportSummary  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 11/05/2015. Last modified 29/06/2015  
 Extends ReportSummary

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from ReportSummary to ReportSummary	[ Direction is 'Source -> Destination'. ]
← Aggregation from ReportSummary to Report	[ Name is summary. Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
→ Aggregation from AerodromePairtkmSummary to ReportSummary	[ Name is aerodromePairtkmSummary. Direction is 'Source -> Destination'. ]
→ Aggregation from tkmSummary to ReportSummary	[ Direction is 'Source -> Destination'. ]
→ Aggregation from tkmRawData to ReportSummary	[ Direction is 'Source -> Destination'. ]

### 2.1.5.3.6 tkmRawData

*Class in package 'tkm'*

tkmRawData  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 11/05/2015. Last modified 16/10/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from tkmRawData to ReportSummary	[ Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
→ Generalization from AerodromePairtkmRawData to tkmRawData	[ Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ passengerNumber : int Private Properties: ao/r/tkm = 5a	[ Is static False. Containment is Not Specified. ]
◆ massPassenger : float(3) Private Properties: ao/r/tkm = 5a	[ Is static False. Containment is Not Specified. ]
◆ massFreight : float(3) Private Properties: ao/r/tkm = 5a	[ Is static False. Containment is Not Specified. ]

### 2.1.5.3.7 tkmSummary

Class in package 'tkm'

tkmSummary  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/02/2015. Last modified 25/08/2015



OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from tkmSummary to ReportSummary	[ Direction is 'Source -> Destination'. ]
← Aggregation from tkmSummary to AerodromePairtkmSummary	[ Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ passengerNumberTimesDistance : float(3) Private Properties: ao/r/tkm = 5a	[ Is static False. Containment is Not Specified. ]
◆ massFreightTimesDistance : float(3) Private	


ATTRIBUTES	
Properties: ao/r/tkm = 5a	[ Is static False. Containment is Not Specified. ]
 tkm : float(3) Private  Properties: ao/r/tkm = 5a 5b	[ Is static False. Containment is Not Specified. ]

### 2.1.5.4 Operator

*Class in package 'Report'*

Operator  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/02/2015. Last modified 29/06/2015  
Extends Operator

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from Operator to ReportRawData	[ Name is operator. Direction is 'Source -> Destination'. ]
 Generalization from Operator to Operator	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
 competentAuthority : CompetentAuthority Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  Properties: ao/r = 2g	[ Is static False. Containment is Not Specified. ]

### 2.1.5.5 ReportRawData

*Class in package 'Report'*

ReportRawData  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/02/2015. Last modified 25/08/2015  
Extends ReportRawData

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from ReportRawData to ReportRawData	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
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INCOMING STRUCTURAL RELATIONSHIPS	
➔ Generalization from ReportRawData to ReportRawData	[ Direction is 'Source -> Destination'. ]
➔ Aggregation from NonICAOAerodrome to ReportRawData	[ Name is nonICAOAerodrome. Direction is 'Source -> Destination'. ]
➔ Aggregation from Operator to ReportRawData	[ Name is operator. Direction is 'Source -> Destination'. ]
➔ Generalization from ReportRawData to ReportRawData	[ Direction is 'Source -> Destination'. ]
➔ Aggregation from AircraftFleet to ReportRawData	[ Name is fleet. Direction is 'Source -> Destination'. ]

### 2.1.5.6 ReportSummary



*Class in package 'Report'*

ReportSummary  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 12/05/2015. Last modified 01/07/2015  
 Extends ReportSummary

OUTGOING STRUCTURAL RELATIONSHIPS	
⬅ Generalization from ReportSummary to ReportSummary	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Generalization from ReportSummary to ReportSummary	[ Direction is 'Source -> Destination'. ]
➔ Generalization from ReportSummary to ReportSummary	[ Direction is 'Source -> Destination'. ]

CONNECTORS	
 <b>Usage</b> ecUniqueIdentifier Source -> Destination From: ReportSummary : Class, Public To: Operator : Class, Public	

ATTRIBUTES	
 ecUniqueIdentifier : string(50) Private	[ Is static False. Containment is Not Specified. ]
 flightNumber : int Private	

<b>ATTRIBUTES</b>
Properties: ao/r/ae = 5a 6b ao/r/tkm = 5a <p style="text-align: right;">[ Is static False. Containment is Not Specified. ]</p>

## 2.1.7 Tier

Package in package 'AircraftOperator'

Tier  
Version 1.0 Phase 1.0 Proposed  
SWALEASE created on 03/06/2015. Last modified 29/10/2015  
Alias

### 2.1.7.1 ConsumptionUncertainty

Enumeration in package 'Tier'

7a (ae)

ConsumptionUncertainty  
Version 1.0 Phase 1.0 Implemented  
swalense created on 30/01/2015. Last modified 29/10/2015

ATTRIBUTES	
1 (<5.0%): Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
2 (<2.5%): Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.1.7.2 PassengerPayload

Enumeration in package 'Tier'

6a (tkm)

PassengerPayload  
Version 1.0 Phase 1.0 Implemented  
swalense created on 30/01/2015. Last modified 29/10/2015

ATTRIBUTES	
1: Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
2: Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

## 2.1.9 Verification

Package in package 'AircraftOperator'

Verification  
Version 1.0 Phase 1.0 Proposed  
swalense created on 18/06/2015. Last modified 18/06/2015  
Alias

### 2.1.9.1 Compliance

Class in package 'Verification'

Compliance  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/06/2015. Last modified 24/08/2015  
Extends Compliance

OUTGOING STRUCTURAL RELATIONSHIPS	
↔ Generalization from Compliance to Compliance	[ Direction is 'Source -> Destination'. ]
↔ Aggregation from Compliance to VerificationReport	[ Name is compliance. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
biofuelUseAssessment : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
flightDataCompleteness : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
consistencyWithDocumentation : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
consistencyOfFuelData : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]

### 2.1.9.2 Operator

Class in package 'Verification'

Operator  
Version 1.0 Phase 1.0 Implemented  
swalense created on 23/06/2015. Last modified 24/08/2015  
Extends Operator

OUTGOING STRUCTURAL RELATIONSHIPS
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OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from Operator to Operator	[ Direction is 'Source -> Destination'. ]
← Aggregation from Operator to VerificationReport	[ Name is operator. Direction is 'Source -> Destination'. ]
← Generalization from Operator to Operator	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
◆ approvingCompetentAuthority : CompetentAuthority Private	[ Is static False. Containment is Not Specified. ]
◆ simplifiedProcedure : boolean Private	[ Is static False. Containment is Not Specified. ]
◆ support : Support Private Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.1.9.3 VerificationReport

*Class in package 'Verification'*

VerificationReport  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/06/2015. Last modified 24/08/2015  
Extends VerificationReport

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from VerificationReport to VerificationReport	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
→ Aggregation from Compliance to VerificationReport	[ Name is compliance. Direction is 'Source -> Destination'. ]
→ Aggregation from Visit to VerificationReport	[ Name is visit. Direction is 'Source -> Destination'. ]
→ Aggregation from Operator to VerificationReport	[ Name is operator. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
◆ reportType : ReportType Private	[ Is static False. Containment is Not Specified. ]

ATTRIBUTES

### 2.1.9.4 Visit

*Class in package 'Verification'*

Visit  
Version 1.0 Phase 1.0 Implemented  
swalense created on 22/06/2015. Last modified 24/08/2015  
Extends Visit

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from Visit to Visit <span style="float: right;">[ Direction is 'Source -&gt; Destination'. ]</span></p>
<p>← Aggregation from Visit to VerificationReport <span style="float: right;">[ Name is visit. Direction is 'Source -&gt; Destination'. ]</span></p>

ATTRIBUTES
<p>♦ siteName : string(250) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) <span style="float: right;">[ Is static False. Containment is Not Specified. ]</span></p>

### 2.1.9.5 Support

*Enumeration in package 'Verification'*

Support  
Version 1.0 Phase 1.0 Implemented  
swalense created on 23/06/2015. Last modified 29/10/2015

ATTRIBUTES
<p>♦ small_emitters_tool : Public <span style="float: right;">[ Stereotype is «enum». Is static False. Containment is Not Specified. ]</span></p>
<p>♦ ets_support_facility : Public <span style="float: right;">[ Stereotype is «enum». Is static False. Containment is Not Specified. ]</span></p>

### 2.1.10 Aerodrome

*Class in package 'AircraftOperator'*

Aerodrome  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 20/08/2015. Last modified 10/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from Aerodrome to AerodromePair	[ Name is arrival. Direction is 'Source -> Destination'. ]
← Aggregation from Aerodrome to FuelMeasurementDeviation	[ Name is aerodrome. Direction is 'Source -> Destination'. ]
← Aggregation from Aerodrome to AerodromePair	[ Name is departure. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
→ Generalization from NonICAOAerodromeReference to Aerodrome	[ Direction is 'Source -> Destination'. ]
→ Generalization from ICAOAerodrome to Aerodrome	[ Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.1.11 AerodromePair

*Class in package 'AircraftOperator'*

AerodromePair  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/02/2015. Last modified 10/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from AerodromePair to AerodromePairtkmSummary	[ Name is aerodromePair. Direction is 'Source -> Destination'. ]
← Aggregation from AerodromePair to AerodromePairtkmRawData	[ Name is aerodromePair. Direction is 'Source -> Destination'. ]
← Aggregation from AerodromePair to AerodromePairEmission	[ Name is aerodromePair. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
→ Aggregation from Aerodrome to AerodromePair	[ Name is arrival. Direction is 'Source -> Destination'. ]
→ Aggregation from Aerodrome to AerodromePair	[ Name is departure. Direction is 'Source -> Destination'. ]




ATTRIBUTES	
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]


## 2.1.12 Aircraft

Class in package 'AircraftOperator'

Aircraft  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/02/2015. Last modified 06/10/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from Aircraft to AircraftFleet	[ Name is aircraft. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 registrationNumber : string(20) Private  Properties: ao/r/ae = 9 ao/r/tkm = 6 xetl = AviationEmissionsReportDetails/AircraftData/AircraftRegistrationNumber	[ Is static False. Containment is Not Specified. ]
 owner : string(250) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  Properties: ao/r/ae = 9 ao/r/tkm = 6 xetl = AviationEmissionsReportDetails/AircraftData/AircraftOwner	[ Is static False. Containment is Not Specified. ]

ASSOCIATIONS	
 Association (direction: Unspecified) typeReference  Source: Public (Class) Aircraft Cardinality: [1..*]	Target: Public (Class) AircraftType Cardinality: [1]

## 2.1.13 AircraftFleet

Class in package 'AircraftOperator'

AircraftFleet

Version 1.0 Phase 1.0 Implemented  
 SWALENSE created on 15/06/2015. Last modified 29/10/2015


OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from AircraftFleet to ReportRawData	[ Name is fleet. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from AircraftType to AircraftFleet	[ Name is aircraftType. Direction is 'Source -> Destination'. ]
⇒ Aggregation from Aircraft to AircraftFleet	[ Name is aircraft. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ period : DateRange Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  Properties: ao/r/ae = 9 ao/r/tkm = 6 xetl = AviationEmissionsReportDetails/AircraftData/PeriodNotBelongTo	[ Is static False. Containment is Not Specified. ]

## 2.1.14 AircraftFleetInformation

Class in package 'AircraftOperator'

AircraftFleetInformation  
 Version 1.0 Phase 1.0 Implemented  
 SWALENSE created on 02/09/2015. Last modified 10/09/2015



OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from AircraftFleetInformation to MonitoringPlan	[ Name is aircraftFleetInformation. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from AircraftFleetInformation to AircraftFleetInformation	[ Direction is 'Source -> Destination'. ]
⇒ Aggregation from AircraftTypeInformation to AircraftFleetInformation	[ Name is aircraftTypeInformation. Direction is 'Source -> Destination'. ]
ATTRIBUTES	



ATTRIBUTES	
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]



## 2.1.15 AircraftType


Class in package 'AircraftOperator'

AircraftType  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/02/2015. Last modified 02/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from AircraftType to AircraftFleet	[ Name is aircraftType. Direction is 'Source -> Destination'. ]
 Aggregation from AircraftType to AircraftTypeInfo	[ Name is type. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
 reference : string(20) Private	[ Is static False. Containment is Not Specified. ]
 typeDesignator : string(4) Private  Properties: ao/mp = 4a 4b ao/r/ae = 9 ao/r/tkm = 6 xetl = AviationEmissionsReportDetails/AircraftData/AircraftTypeReference	[ Is static False. Containment is Not Specified. ]
 subType : string(100) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  Properties: ao/mp = 4a 4b ao/r/ae = 9 ao/r/tkm = 6 xetl = AviationEmissionsReportDetails/AircraftData/AircraftSubType	[ Is static False. Containment is Not Specified. ]


ASSOCIATIONS	
 Association (direction: Unspecified) aircraftTypeReference  Source: Public (Class) ActivityDataCalculation Cardinality: [0..1]	Target: Public (Class) AircraftType Cardinality: [1]
 Association (direction: Unspecified) aircraftTypeReference  Source: Public (Class) FuelUsageInformation Cardinality: [0..*]	Target: Public (Class) AircraftType Cardinality: [1]


ASSOCIATIONS	
 Association (direction: Unspecified) typeReference Source: Public (Class) Aircraft Cardinality: [1..*]	Target: Public (Class) AircraftType Cardinality: [1]




## 2.1.16 AircraftTypeInformation

Class in package 'AircraftOperator'

AircraftTypeInformation  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 29/01/2015. Last modified 02/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS
 Aggregation from AircraftTypeInformation to AircraftFleetInformation [ Name is aircraftTypeInformation. Direction is 'Source -> Destination'. ]


INCOMING STRUCTURAL RELATIONSHIPS
 Aggregation from AircraftType to AircraftTypeInformation [ Name is type. Direction is 'Source -> Destination'. ]

ATTRIBUTES
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]
 operatedAircraftNumber : int Private Properties: ao/mp = 4a 4b [ Is static False. Containment is Not Specified. ]
 expectedAircraftNumber : int Private [ Is static False. Containment is Not Specified. ]

## 2.1.17 AviationAuthorityIssuedDocument

Class in package 'AircraftOperator'

AviationAuthorityIssuedDocument  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 29/01/2015. Last modified 29/06/2015

OUTGOING STRUCTURAL RELATIONSHIPS
 Aggregation from AviationAuthorityIssuedDocument to Operator [ Name is operatingLicence. Direction is 'Source -> Destination'. ]

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from AviationAuthorityIssuedDocument to Operator  [ Name is airOperatorCertificate. Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>reference : string(20) Private  Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  [ Is static False. Containment is Not Specified. ]</p>
<p>issuingAuthority : IssuingAuthority Private  Properties:  xetl/mp = OperatorDetails/AircraftOperatorDetails/AOCAndOperatingLicenceData/AOCIssuingAuthority,  OperatorDetails/AircraftOperatorDetails/AOCAndOperatingLicenceData/OLIssuingAuthority  [ Is static False. Containment is Not Specified. ]</p>
<p>number : string(100) Private  Properties:  xetl/mp = OperatorDetails/AircraftOperatorDetails/AOCAndOperatingLicenceData/AirOperatorCertificateNumber,  OperatorDetails/AircraftOperatorDetails/AOCAndOperatingLicenceData/OperatingLicenceID  [ Is static False. Containment is Not Specified. ]</p>

## 2.1.18 ConsumptionEstimationTool

*Class in package 'AircraftOperator'*

ConsumptionEstimationTool  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 20/08/2015. Last modified 29/10/2015

INCOMING STRUCTURAL RELATIONSHIPS
<p>→ Aggregation from StandardConsumptionEstimationTool to ConsumptionEstimationTool  [ Name is standardTool. Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>reference : string(20) Private  Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  [ Is static False. Containment is Not Specified. ]</p>
<p>otherToolName : string(100) Private  Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  [ Is static False. Containment is Not Specified. ]</p>

## 2.1.19 FlightEndpoint

*Class in package 'AircraftOperator'*

FlightEndpoint



Version 1.0 Phase 1.0 Implemented  
swalense created on 12/03/2015. Last modified 29/10/2015

#### OUTGOING STRUCTURAL RELATIONSHIPS

← Aggregation from FlightEndpoint to FlightEndpoints

[ Name is nonDomesticFlightEndpoint. Direction is 'Source -> Destination'. ]

#### ATTRIBUTES

country : Country Private

Properties:

ao/r/ae = 8c 8d

[ Is static False. Containment is Not Specified. ]

departingFromCountry : boolean Private

[ Is static False. Containment is Not Specified. ]

## 2.1.20 FlightEndpoints

*Class in package 'AircraftOperator'*

FlightEndpoints  
Version 1.0 Phase 1.0 Implemented  
swalense created on 12/03/2015. Last modified 29/10/2015

#### INCOMING STRUCTURAL RELATIONSHIPS

⇒ Aggregation from FlightEndpoint to FlightEndpoints

[ Name is nonDomesticFlightEndpoint. Direction is 'Source -> Destination'. ]

⇒ Generalization from FlightEndpointsAndFuelEmission to FlightEndpoints

[ Direction is 'Source -> Destination'. ]

⇒ Generalization from FlightEndpointsEmission to FlightEndpoints

[ Direction is 'Source -> Destination'. ]

#### ATTRIBUTES

reference : string(20) Private

Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )

[ Is static False. Containment is Not Specified. ]

memberState : MemberState Private

Properties:

ao/r/ae = 8b 8c 8d

[ Is static False. Containment is Not Specified. ]

## 2.1.21 Fuel

*Class in package 'AircraftOperator'*

Fuel

Version 1.0 Phase 1.0 Implemented

swalense created on 16/02/2015. Last modified 15/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from Fuel to AdditionalFuel</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>
INCOMING STRUCTURAL RELATIONSHIPS
<p>→ Generalization from SourceStream to Fuel</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>◆ type : FuelType Private</p> <p>Properties: ao/r/ae = 5b</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ name : string(100) Private</p> <p>Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Constraints: for fuelType other_alternative_fuel or biomass : Invariant</p> <p>Properties: ao/r/ae = 5b xetl = AviationEmissionsReportDetails/AviationTotalEmissionsData/FuelsUsedData/NameOfFuel</p> <p>[ Is static False. Containment is Not Specified. ]</p>

**2.1.22 FuelUsageInformation***Class in package 'AircraftOperator'*

FuelUsageInformation


Version 1.0 Phase 1.0 Implemented

swalense created on 30/01/2015. Last modified 02/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from FuelUsageInformation to AircraftFleetInformation</p> <p>[ Name is fuelUsageInformation. Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>◆ reference : string(20) Private</p> <p>Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ fuelUsage : FuelType Private</p> <p>Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: False )</p>

ATTRIBUTES	
Properties: ao/mp/ae = 4a 4b	[ Is static False. Containment is Not Specified. ]


  

ASSOCIATIONS	
 Association (direction: Unspecified) aircraftTypeReference Source: Public (Class) FuelUsageInformation Cardinality: [0..*]	Target: Public (Class) AircraftType Cardinality: [1]


### 2.1.23 ICAOAerodrome

*Class in package 'AircraftOperator'*

ICAOAerodrome  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 20/08/2015. Last modified 10/09/2015  
Extends Aerodrome

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from ICAOAerodrome to Aerodrome	[ Direction is 'Source -> Destination'. ]



  

ATTRIBUTES	
 indicator : string(4) Private	[ Is static False. Containment is Not Specified. ]


### 2.1.24 NonICAOAerodrome





*Class in package 'AircraftOperator'*

NonICAOAerodrome  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 20/08/2015. Last modified 10/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from NonICAOAerodrome to ReportRawData [ Name is nonICAOAerodrome. Direction is 'Source -> Destination'. ]	
 Aggregation from NonICAOAerodrome to MonitoringPlan [ Name is nonICAOAerodrome. Direction is 'Source -> Destination'. ]	



INCOMING STRUCTURAL RELATIONSHIPS	
 Aggregation from Coordinates to NonICAOAerodrome [ Name is coordinates. Direction is 'Source -> Destination'. ]	

ATTRIBUTES	
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 code : string(4) Private	[ Is static False. Containment is Not Specified. ]
 name : string(250) Private	[ Is static False. Containment is Not Specified. ]
ASSOCIATIONS	
 Association (direction: Unspecified) code Source: Public (Class) NonICAOAerodromeReference Cardinality: [1..*]	Target: Public (Class) NonICAOAerodrome Cardinality: [1]

## 2.1.25 NonICAOAerodromeReference

*Class in package 'AircraftOperator'*

NonICAOAerodromeReference  
 Version 1.0 Phase 1.0 Implemented  
 SWALENSE created on 10/09/2015. Last modified 10/09/2015  
 Extends Aerodrome

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from NonICAOAerodromeReference to Aerodrome	[ Direction is 'Source -> Destination'. ]
ASSOCIATIONS	
 Association (direction: Unspecified) code Source: Public (Class) NonICAOAerodromeReference Cardinality: [1..*]	Target: Public (Class) NonICAOAerodrome Cardinality: [1]

## 2.1.26 Operator

*Class in package 'AircraftOperator'*

Operator  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 18/02/2015. Last modified 25/08/2015  
 Extends Operator

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS	
<p>← Generalization from Operator to Operator</p>	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
<p>→ Aggregation from RegistryAccountNumber to Operator</p>	[ Name is registryAccountNumber. Direction is 'Source -> Destination'. ]
<p>→ Generalization from Operator to Operator</p>	[ Direction is 'Source -> Destination'. ]
<p>→ Aggregation from AviationAuthorityIssuedDocument to Operator</p>	[ Name is operatingLicence. Direction is 'Source -> Destination'. ]
<p>→ Generalization from Operator to Operator</p>	[ Direction is 'Source -> Destination'. ]
<p>→ Generalization from Operator to Operator</p>	[ Direction is 'Source -> Destination'. ]
<p>→ Generalization from Operator to Operator</p>	[ Direction is 'Source -> Destination'. ]
<p>→ Aggregation from AviationAuthorityIssuedDocument to Operator</p>	[ Name is airOperatorCertificate. Direction is 'Source -> Destination'. ]

CONNECTORS	
<p>↗ Usage ecUniqueIdentifier Source -&gt; Destination</p> <p>From: ReportSummary : Class, Public</p> <p>To: Operator : Class, Public</p>	

ATTRIBUTES	
<p>◆ administeringMemberState : MemberState Private</p> <p>Properties:</p> <p>ao/mp = 2h</p> <p>xetl/mp = OperatorDetails/AircraftOperatorDetails/OperatorAdministeringMemberState</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ ecUniqueIdentifier : string(50) Private</p> <p>Properties:</p> <p>ao/mp = 2b</p> <p>ao/r = 2b</p> <p>xetl/mp = OperatorDetails/AircraftOperatorDetails/UniqueCommissionListIdentification</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ ecOperatorName : string(50) Private</p> <p>Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties:</p>	

ATTRIBUTES
ao/mp = 2e ao/r = 2c xetl/mp = OperatorDetails/AircraftOperatorDetails/UniqueCommissionListName [ Is static False. Containment is Not Specified. ]
♦ designator : string(4) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  Properties: ao/mp = 2f ao/r = 2d xetl/mp = OperatorDetails/AircraftOperatorDetails/UniqueICAODesignator [ Is static False. Containment is Not Specified. ]
♦ aircraftRegistrationNumber : string(20) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )  Properties: ao/mp = 2g ao/r = 2e xetl/mp = OperatorDetails/AircraftOperatorDetails/UniqueDesignatorRegistrationMarking [ Is static False. Containment is Not Specified. ]

## 2.1.27 ActivityDataDeterminationMethod

Enumeration in package 'AircraftOperator'

6a (ae)

ActivityDataDeterminationMethod  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 29/01/2015. Last modified 29/10/2015




ATTRIBUTES
♦ a : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]
♦ b : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]

## 2.1.28 ActivityDataManagementSource

Enumeration in package 'AircraftOperator'

ActivityDataManagementSource  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 29/01/2015. Last modified 29/10/2015





ATTRIBUTES
♦ taken_from_fuel_supplier : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]

ATTRIBUTES	
 recorded_in_mass_balance_documentation : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]	
 recorded_in_aircraft_technical_log : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]	
 transmitted_electronically_from_aircraft_to_operator : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]	

## 2.1.29 CompetentAuthority

Enumeration in package 'AircraftOperator'

CompetentAuthority  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 29/01/2015. Last modified 29/10/2015

ATTRIBUTES	
 environment_agency : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]	
 ministry_of_environment : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]	
 civil_aviation_authority : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]	
 ministry_of_transport : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]	


ASSOCIATIONS	
 Association (direction: Unspecified) memberState Source: Public (Enumeration) CompetentAuthority Cardinality: [0..*] Target: Public (Enumeration) MemberState Cardinality: [0..*]	

## 2.1.30 FlightScheduling

Enumeration in package 'AircraftOperator'

FlightScheduling  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 29/01/2015. Last modified 29/10/2015

ATTRIBUTES	
 scheduled : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]	




ATTRIBUTES	
 non_scheduled : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.1.31 FuelDensityDeterminationMethod

Enumeration in package 'AircraftOperator'

6e (ae)

FuelDensityDeterminationMethod  
Version 1.0 Phase 1.0 Implemented  
swalense created on 29/01/2015. Last modified 29/10/2015




ATTRIBUTES	
 density_in_aircraft_tanks : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 density_of_uplift : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 standard_value : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.1.32 FuelParameter

Enumeration in package 'AircraftOperator'

8c (ae) + 8d (ae)

FuelParameter  
Version 1.0 Phase 1.0 Implemented  
swalense created on 30/01/2015. Last modified 29/10/2015

ATTRIBUTES	
 ef : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 ncv : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 biogenic_content : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]







### 2.1.33 FuelSamplingFrequency

Enumeration in package 'AircraftOperator'

8c (ae) + 8d (ae)


FuelSamplingFrequency  
Version 1.0 Phase 1.0 Implemented  
swalense created on 30/01/2015. Last modified 29/10/2015

ATTRIBUTES	
 daily : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 weekly : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 monthly : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 annual : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]



### 2.1.34 FuelType

Enumeration in package 'AircraftOperator'

FuelType  
Version 1.0 Phase 1.0 Implemented  
swalense created on 30/01/2015. Last modified 29/10/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from FuelType to RegularFuelType	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
 other_alternative_fuel : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 biofuel : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.1.35 FuelUpliftDataSource

Enumeration in package 'AircraftOperator'

6a (ae)

FuelUpliftDataSource  
Version 1.0 Phase 1.0 Implemented  
swalense created on 29/01/2015. Last modified 29/10/2015

ATTRIBUTES	
supplier : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
onboard_equipment : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.1.36 IssuingAuthority

Enumeration in package 'AircraftOperator'

IssuingAuthority  
Version 1.0 Phase 1.0 Implemented  
swalense created on 29/01/2015. Last modified 29/10/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from IssuingAuthority to Country	[ Name is issuingAuthority. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
Afghanistan - Ministry of Transport and Civil Aviation : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
Algeria - Établissement National de la Navigation Aérienne (ENNA) : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
... : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.1.37 MeasurementUncertaintyLevel

Enumeration in package 'AircraftOperator'

MeasurementUncertaintyLevel  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 03/06/2015. Last modified 29/10/2015

ATTRIBUTES	
<2.5% : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
<5% : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

## 2.1.38 OperationScope

Enumeration in package 'AircraftOperator'

OperationScope  
Version 1.0 Phase 1.0 Implemented  
swalense created on 29/01/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ intra_EEA : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ inside_and_outside_EEA : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

## 2.1.39 OperatorStatus

Enumeration in package 'AircraftOperator'

OperatorStatus  
Version 1.0 Phase 1.0 Implemented  
swalense created on 29/01/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ commercial : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ non_commercial : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

## 2.1.40 RegularFuelType

Enumeration in package 'AircraftOperator'

RegularFuelType  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 03/06/2015. Last modified 29/10/2015

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from FuelType to RegularFuelType	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
◆ jet_kerosene : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ jet_gasoline : Public	

ATTRIBUTES	
	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
aviation_gasoline : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.1.41 ReportType

Enumeration in package 'AircraftOperator'

ReportType  
Version 1.0 Phase 1.0 Implemented  
swalense created on 22/06/2015. Last modified 29/10/2015

ATTRIBUTES	
annual_emissions : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
tkm : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.1.42 SourceStreamEmissionCategory

Enumeration in package 'AircraftOperator'

SourceStreamEmissionCategory  
Version 1.0 Phase 1.0 Implemented  
swalense created on 07/09/2015. Last modified 29/10/2015

ATTRIBUTES	
major : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
minor : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
de_minimis : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.1.43 StandardConsumptionEstimationTool

Enumeration in package 'AircraftOperator'

9a (ae) + 10b (ae)

StandardConsumptionEstimationTool  
Version 1.0 Phase 1.0 Implemented  
swalense created on 30/01/2015. Last modified 29/10/2015

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from StandardConsumptionEstimationTool to ConsumptionEstimationTool  
[ Name is standardTool. Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

◆ small\_emitters\_tool : Public  
[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

## 2.2 Common

Package in package 'Domain'

Common  
Version 1.0 Phase 1.0 Proposed  
swalense created on 15/01/2015. Last modified 19/01/2015  
Alias

### 2.2.1 Improvement

Package in package 'Common'

Improvement  
Version 1.0 Phase 1.0 Proposed  
swalense created on 22/06/2015. Last modified 22/06/2015  
Alias

#### 2.2.1.1 Action

Class in package 'Improvement'

Action  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from Action to FallbackApproach	[ Name is measure. Direction is 'Source -> Destination'. ]
← Aggregation from Action to Measure	[ Name is decision. Direction is 'Source -> Destination'. ]
← Aggregation from Action to Deviation	[ Name is measure. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ taken : boolean Private	[ Is static False. Containment is Not Specified. ]
◆ time : string(100) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.2.1.2 ImprovementMeasure

Class in package 'Improvement'

ImprovementMeasure  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends Measure

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from ImprovementMeasure to ImprovementReport [ Name is improvementMeasure. Direction is 'Source -> Destination'. ]	
← Generalization from ImprovementMeasure to Measure [ Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
◆ inactionReasonDescription : string(1000) Private [ Is static False. Containment is Not Specified. ]	
◆ inactionReason : InactionReason Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]	

### 2.2.1.3 ImprovementReport

Class in package 'Improvement'

ImprovementReport  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends BaseDocument

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from ImprovementReport to BaseDocument [ Direction is 'Source -> Destination'. ]	
INCOMING STRUCTURAL RELATIONSHIPS	
→ Generalization from ImprovementReport to ImprovementReport [ Direction is 'Source -> Destination'. ]	
→ Generalization from ImprovementReport to ImprovementReport [ Direction is 'Source -> Destination'. ]	
→ Aggregation from ImprovementMeasure to ImprovementReport [ Name is improvementMeasure. Direction is 'Source -> Destination'. ]	

**INCOMING STRUCTURAL RELATIONSHIPS**

- ➔ Aggregation from Measure to ImprovementReport  
 [ Name is nonConformityMeasure. Direction is 'Source -> Destination'. ]

**2.2.1.4 Measure**

*Class in package 'Improvement'*

Measure  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 17/06/2015. Last modified 25/08/2015

**OUTGOING STRUCTURAL RELATIONSHIPS**

- ← Aggregation from Measure to ImprovementReport  
 [ Name is nonConformityMeasure. Direction is 'Source -> Destination'. ]

**INCOMING STRUCTURAL RELATIONSHIPS**

- ➔ Aggregation from Action to Measure  
 [ Name is decision. Direction is 'Source -> Destination'. ]
- ➔ Aggregation from «Document» Documentation to Measure  
 [ Name is documentation. Direction is 'Source -> Destination'. ]
- ➔ Generalization from ImprovementMeasure to Measure  
 [ Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

- ◆ reference : string(20) Private  
 Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  
 [ Is static False. Containment is Not Specified. ]
- ◆ title : string(250) Private  
 [ Is static False. Containment is Not Specified. ]
- ◆ description : string(2000) Private  
 [ Is static False. Containment is Not Specified. ]

**2.2.1.5 DeviationReason**

*Enumeration in package 'Improvement'*

DeviationReason  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 17/06/2015. Last modified 29/10/2015

**ATTRIBUTES**

- ◆ technically\_infeasible : Public



ATTRIBUTES	
	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ unreasonable_costs : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.2.1.6 InactionReason

*Enumeration in package 'Improvement'*

InactionReason  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ technically_infeasible : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ unreasonable_costs : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ recommendation_is_no_improvement : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ other : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

## 2.2.3 MP

Package in package 'Common'

MP  
Version 1.0 Phase 1.0 Proposed  
swalense created on 22/06/2015. Last modified 22/06/2015  
Alias

### 2.2.3.1 ActivitiesDataFlowProcedure

Class in package 'MP'

ActivitiesDataFlowProcedure  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 03/06/2015. Last modified 14/07/2015  
Extends Procedure

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from ActivitiesDataFlowProcedure to Procedure</p> <p style="text-align: right;">[ Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p>primaryDataSource : string(250) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )</p> <p style="text-align: right;">[ Is static False. Containment is Not Specified. ]</p>
<p>step : string(1000) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )</p> <p style="text-align: right;">[ Is static False. Containment is Not Specified. ]</p>

### 2.2.3.2 MonitoringPlan

Class in package 'MP'

MonitoringPlan  
Version 1.0 Phase 1.0 Implemented  
swalense created on 14/01/2015. Last modified 14/07/2015  
Extends BaseDocument

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from MonitoringPlan to BaseDocument</p> <p style="text-align: right;">[ Direction is 'Source -&gt; Destination'. ]</p>

INCOMING STRUCTURAL RELATIONSHIPS
<p>→ Generalization from MonitoringPlan to MonitoringPlan</p> <p style="text-align: right;">[ Direction is 'Source -&gt; Destination'. ]</p>

INCOMING STRUCTURAL RELATIONSHIPS	
<p>➔ Generalization from MonitoringPlan to MonitoringPlan</p>	[ Direction is 'Source -> Destination'. ]
<p>➔ Aggregation from Responsibility to MonitoringPlan</p>	[ Name is responsibility. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
<p>◆ responsibilitiesAssignmentProcedure : Procedure Private 20b / 11b (ae) / 7b (tkm)</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ appropriatenessEvaluationProcedure : Procedure Private 20c / 11c (ae) / 7c (tkm)</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ dataFlowActivitiesProcedure : ActivitiesDataFlowProcedure Private 21a / 12a (ae) / 8a (tkm)</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ risksAndControlRisksAssessmentProcedure : Procedure Private 22a / 13a (ae) / 9a (tkm)</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ measurementEquipmentQAProcedure : Procedure Private 22b / 13b (ae) / 9b (tkm)</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ internalReviewAndValidationProcedure : Procedure Private 22d / 13c (ae) / 9c (tkm)</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ correctionsAndCorrectiveActionsProcedure : Procedure Private 22e / 13d (ae) / 9d (tkm)</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ outsourcedProcessControlProcedure : Procedure Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) 22f / 13e (ae) / 9e (tkm)</p>	[ Is static False. Containment is Not Specified. ]

**ATTRIBUTES**

recordKeepingAndDocumentationProcedure : Procedure Private

22g / 13f (ae) / 9f (tkm)

[ Is static False. Containment is Not Specified. ]

documentedEnvironmentalSystem : boolean Private

22i / 13h (ae) / 9h (tkm)

[ Is static False. Containment is Not Specified. ]

environmentalSystemCertification : string(100) Private  
Multiplicity: ( [0..\*], Allow duplicates: 0, Is ordered: False )

22j / 13i (ae) / 9i (tkm)

[ Is static False. Containment is Not Specified. ]

## 2.2.5 Report

Package in package 'Common'

Report  
Version 1.0 Phase 1.0 Proposed  
swalense created on 22/06/2015. Last modified 22/06/2015  
Alias

### 2.2.5.1 MonitoringPlanReference

Class in package 'Report'

The system handling the report should check that reference is that of an approved MP.  
Approval date of MP (in Excel sheet) is not given since it can be inferred from reference MP.



MonitoringPlanReference  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/02/2015. Last modified 29/06/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from MonitoringPlanReference to ReportRawData [ Name is monitoringPlanReference. Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>version : int Private</p> <p>Properties: ao/r = 4a 4b 4c inst/r = 3e 3f xetl = ReportDetails/LatestMonitoringPlanVersion</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>deviation : string(1000) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )</p> <p>Properties: ao/r = 4d inst/r = 3g xetl = AviationEmissionsReportDetails</p> <p>xetl = ReportDetails/MonitoringPlanVariations, ReportDetails/DeviationAEMPDescription, AviationEmissionsReportDetails/DeviationDescription</p> <p>[ Is static False. Containment is Not Specified. ]</p>

### 2.2.5.2 ReportRawData

Class in package 'Report'

ReportRawData  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/02/2015. Last modified 29/06/2015  
Extends BaseDocument

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from ReportRawData to BaseDocument	[ Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from MonitoringPlanReference to ReportRawData	[ Name is monitoringPlanReference. Direction is 'Source -> Destination'. ]
⇒ Aggregation from Verifier to ReportRawData	[ Name is verifier. Direction is 'Source -> Destination'. ]
⇒ Generalization from ReportRawData to ReportRawData	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from ReportRawData to ReportRawData	[ Direction is 'Source -> Destination'. ]
CONNECTORS	
 <b>Usage</b> refers to Source -> Destination From: ReportSummary : Class, Public To: ReportRawData : Class, Public	
ATTRIBUTES	
 reportingYear : int Private  Properties: ao/r = 1a inst/r = 1 xetl = ReportDetails/ReportingYear	[ Is static False. Containment is Not Specified. ]


### 2.2.5.3 ReportSummary

*Class in package 'Report'*





ReportSummary  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 06/05/2015. Last modified 10/07/2015

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from ReportSummary to ReportSummary	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from ReportSummary to ReportSummary	[ Direction is 'Source -> Destination'. ]
CONNECTORS	

**CONNECTORS**

 **Usage** refers to Source -> Destination  
 From: ReportSummary : Class, Public  
 To: ReportRawData : Class, Public

**ATTRIBUTES**

<p> <b>reference</b> : string(20) Private          Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p>	<p>[ Is static False. Containment is Not Specified. ]</p>
<p> <b>reportingYear</b> : int Private</p>	<p>[ Is static False. Containment is Not Specified. ]</p>
<p> <b>reportVersion</b> : int Private</p>	<p>[ Is static False. Containment is Not Specified. ]</p>
<p> <b>memberState</b> : MemberState Private</p>	<p>[ Is static False. Containment is Not Specified. ]</p>

## 2.2.7 Verification

Package in package 'Common'

Verification  
Version 1.0 Phase 1.0 Proposed  
swalense created on 22/06/2015. Last modified 22/06/2015  
Alias

### 2.2.7.1 AVRCompliance

Class in package 'Verification'

AVRCompliance  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/06/2015. Last modified 24/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from AVRCompliance to Compliance	[ Name is avrCompliance. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
→ Aggregation from DetailedDataVerification to AVRCompliance	[ Name is detailedDataVerification. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ controlActivities : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
◆ procedures : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
◆ dataVerification : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
◆ monitoringMethodology : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
◆ methodsForMissingData : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
◆ uncertaintyAssessment : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]

### 2.2.7.2 Compliance

Class in package 'Verification'



Compliance  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/06/2015. Last modified 25/08/2015

INCOMING STRUCTURAL RELATIONSHIPS	
→ Generalization from Compliance to Compliance	[ Direction is 'Source -> Destination'. ]
→ Generalization from Compliance to Compliance	[ Direction is 'Source -> Destination'. ]
→ Aggregation from AVRCompliance to Compliance	[ Name is avrCompliance. Direction is 'Source -> Destination'. ]
→ Aggregation from PrinciplesCompliance to Compliance	[ Name is principles. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
◆ monitoringPlanRequirements : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
◆ mrrCompliance : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
◆ competentAuthorityGuidance : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
◆ previousYearNonConformitiesCorrected : boolean Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ changeUnreportedOrNotInMonitoringPlan : string(2000) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.2.7.3 ComplianceStatement



*Class in package 'Verification'*

ComplianceStatement  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/06/2015. Last modified 24/08/2015

INCOMING STRUCTURAL RELATIONSHIPS	
→ Generalization from DetailedDataVerification to ComplianceStatement	[ Direction is 'Source -> Destination'. ]





ATTRIBUTES	
◆ reference : string(20) Private	

ATTRIBUTES	
Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 compliant : boolean Private	[ Is static False. Containment is Not Specified. ]
 nonComplianceReason : string(1000) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.2.7.4 DataGapClosureMethod

Class in package 'Verification'


DataGapClosureMethod  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/06/2015. Last modified 25/08/2015




OUTGOING STRUCTURAL RELATIONSHIPS
 Aggregation from DataGapClosureMethod to VerificationReport [ Name is dataGapClosureMethod. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS
 Aggregation from DataGapClosureMethodAspect to DataGapClosureMethod [ Name is leadToMaterialMisstatement. Direction is 'Source -> Destination'. ]
 Aggregation from DataGapClosureMethodAspect to DataGapClosureMethod [ Name is conservativeMethod. Direction is 'Source -> Destination'. ]
ATTRIBUTES
 approvedByCompetentAuthority : boolean Private [ Is static False. Containment is Not Specified. ]

### 2.2.7.5 DataGapClosureMethodAspect

Class in package 'Verification'

DataGapClosureMethodAspect  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/06/2015. Last modified 24/08/2015




OUTGOING STRUCTURAL RELATIONSHIPS
 Aggregation from DataGapClosureMethodAspect to DataGapClosureMethod [ Name is leadToMaterialMisstatement. Direction is 'Source -> Destination'. ]

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from DataGapClosureMethodAspect to DataGapClosureMethod [ Name is conservativeMethod. Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
 applies : boolean Private [ Is static False. Containment is Not Specified. ]	
 comment : string(2000) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]	

### 2.2.7.6 DetailedDataVerification

*Class in package 'Verification'*


DetailedDataVerification  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 18/06/2015. Last modified 24/08/2015  
 Extends ComplianceStatement

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from DetailedDataVerification to ComplianceStatement [ Direction is 'Source -> Destination'. ]	
 Aggregation from DetailedDataVerification to AVRCompliance [ Name is detailedDataVerification. Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
 partOfSiteVerification : boolean Private [ Is static False. Containment is Not Specified. ]	

### 2.2.7.7 DetailedFinding

*Class in package 'Verification'*

DetailedFinding  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 19/06/2015. Last modified 25/08/2015  
 Extends Finding

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from DetailedFinding to Finding [ Direction is 'Source -> Destination'. ]	
ATTRIBUTES	

ATTRIBUTES	
materialConsequences : boolean Private	[ Is static False. Containment is Not Specified. ]

### 2.2.7.8 Finding

*Class in package 'Verification'*

Finding  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/06/2015. Last modified 25/08/2015

INCOMING STRUCTURAL RELATIONSHIPS	
→ Generalization from DetailedFinding to Finding	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
reference : string(20) Private	[ Is static False. Containment is Not Specified. ]
description : string(1000) Private	[ Is static False. Containment is Not Specified. ]




### 2.2.7.9 Findings

*Class in package 'Verification'*

Findings  
Version 1.0 Phase 1.0 Implemented  
swalense created on 22/06/2015. Last modified 24/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from Findings to VerificationReport	[ Name is findings. Direction is 'Source -> Destination'. ]


ATTRIBUTES	
materialityLevel : MaterialityLevel Private	[ Is static False. Containment is Not Specified. ]
detailsOfWorkPerformed : string(2000) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
uncorrectedMisstatement : DetailedFinding Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
uncorrectedNonConformity : DetailedFinding Private	



ATTRIBUTES	
Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 uncorrectedMRRNonCompliance : DetailedFinding Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 uncorrectedPriorYearNonConformity : Finding Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 recommendedImprovement : Finding Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.2.7.10 MonitoringPlanReference

Class in package 'Verification'

MonitoringPlanReference  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 23/06/2015. Last modified 24/08/2015



OUTGOING STRUCTURAL RELATIONSHIPS
 Aggregation from MonitoringPlanReference to VerificationReport [ Name is monitoringPlanReference. Direction is 'Source -> Destination'. ]


ATTRIBUTES	
 version : int Private	[ Is static False. Containment is Not Specified. ]
 validityPeriod : DateRange Private	[ Is static False. Containment is Not Specified. ]

### 2.2.7.11 Operator

Class in package 'Verification'

Operator  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 23/06/2015. Last modified 24/08/2015


INCOMING STRUCTURAL RELATIONSHIPS	
 Generalization from Operator to Operator	[ Direction is 'Source -> Destination'. ]
 Generalization from Operator to Operator	[ Direction is 'Source -> Destination'. ]





ATTRIBUTES	
 <b>changeDuringReportingYear</b> : string(1000) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.2.7.12 Opinion

*Class in package 'Verification'*

Opinion  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 22/06/2015. Last modified 24/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from Opinion to VerificationReport	[ Name is opinion. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
 <b>opinion</b> : VerificationOpinion Private	[ Is static False. Containment is Not Specified. ]
 <b>date</b> : Date Private	[ Is static False. Containment is Not Specified. ]
 <b>qualifyingComment</b> : string(1000) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 <b>nonVerificationReason</b> : NonVerificationReason Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.2.7.13 PrinciplesCompliance

*Class in package 'Verification'*

PrinciplesCompliance  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 18/06/2015. Last modified 24/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from PrinciplesCompliance to Compliance	[ Name is principles. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
 <b>accuracy</b> : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]

ATTRIBUTES	
◆ completeness : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
◆ consistency : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
◆ comparabilityOverTime : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
◆ transparency : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
◆ methodologyIntegrity : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
◆ continuousImprovement : string(2000) Private	[ Is static False. Containment is Not Specified. ]

### 2.2.7.14 UndocumentedChanges

*Class in package 'Verification'*

UndocumentedChanges  
Version 1.0 Phase 1.0 Implemented  
swalense created on 22/06/2015. Last modified 25/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS
↵ Aggregation from UndocumentedChanges to VerificationReport [ Name is undocumentedChanges. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
◆ approvedByCompetentAuthority : string(1000) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ identifiedByVerifier : string(1000) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.2.7.15 VerificationReport

*Class in package 'Verification'*

VerificationReport  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/06/2015. Last modified 24/08/2015  
Extends BaseDocument









OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from VerificationReport to BaseDocument	[ Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from DataGapClosureMethod to VerificationReport	[ Name is dataGapClosureMethod. Direction is 'Source -> Destination'. ]
⇒ Aggregation from VerificationTeam to VerificationReport	[ Name is verificationTeam. Direction is 'Source -> Destination'. ]
⇒ Aggregation from UndocumentedChanges to VerificationReport	[ Name is undocumentedChanges. Direction is 'Source -> Destination'. ]
⇒ Generalization from VerificationReport to VerificationReport	[ Direction is 'Source -> Destination'. ]
⇒ Aggregation from MonitoringPlanReference to VerificationReport	[ Name is monitoringPlanReference. Direction is 'Source -> Destination'. ]
⇒ Aggregation from Findings to VerificationReport	[ Name is findings. Direction is 'Source -> Destination'. ]
⇒ Aggregation from Opinion to VerificationReport	[ Name is opinion. Direction is 'Source -> Destination'. ]
⇒ Generalization from VerificationReport to VerificationReport	[ Direction is 'Source -> Destination'. ]
⇒ Aggregation from Verifier to VerificationReport	[ Name is verifier. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ reportingYear : int Private	[ Is static False. Containment is Not Specified. ]
◆ reportVersion : int Private	[ Is static False. Containment is Not Specified. ]

### 2.2.7.16 VerificationTeam

*Class in package 'Verification'*

VerificationTeam  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/06/2015. Last modified 24/08/2015



OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from VerificationTeam to VerificationReport [ Name is verificationTeam. Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
 leadAuditor : string(100) Private [ Is static False. Containment is Not Specified. ]	
 auditor : string(100) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]	
 technicalExpert : string(100) Private Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]	
 independentReviewer : string(100) Private [ Is static False. Containment is Not Specified. ]	
 independentTechnicalExpert : string(100) Private Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]	
 signatory : string(100) Private [ Is static False. Containment is Not Specified. ]	
 signedOnBehalfOf : string(100) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]	

### 2.2.7.17 Verifier

*Class in package 'Verification'*

Verifier  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 22/06/2015. Last modified 24/08/2015  
 Extends Verifier

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from Verifier to Verifier [ Direction is 'Source -> Destination'. ]	
 Aggregation from Verifier to VerificationReport [ Name is verifier. Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
 verificationContractDate : Date Private [ Is static False. Containment is Not Specified. ]	

ATTRIBUTES

### 2.2.7.18 Visit

*Class in package 'Verification'*

Visit

Version 1.0 Phase 1.0 Implemented

swalense created on 22/06/2015. Last modified 24/08/2015

INCOMING STRUCTURAL RELATIONSHIPS
<p>⇒ Generalization from Visit to Visit</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Generalization from Visit to Visit</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p>◆ date : Date Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ numberOfDaysOnSite : int Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ auditor : string(100) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ justificationForNotVisiting : string(2000) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>[ Is static False. Containment is Not Specified. ]</p>

### 2.2.7.19 MaterialityLevel

*Enumeration in package 'Verification'*

MaterialityLevel

Version 1.0 Phase 1.0 Implemented

swalense created on 22/06/2015. Last modified 29/10/2015

ATTRIBUTES
<p>◆ 2% : Public</p> <p>[ Stereotype is «enum». Is static False. Containment is Not Specified. ]</p>
<p>◆ 5% : Public</p> <p>[ Stereotype is «enum». Is static False. Containment is Not Specified. ]</p>

ATTRIBUTES	
◆ annex1 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.2.7.20 NonVerificationReason

*Enumeration in package 'Verification'*

NonVerificationReason  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/06/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ uncorrected_material_misstatement : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ uncorrected_material_nonconformity : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ limitation_data : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ limitation_scope : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ unapproved_monitoring_plan : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.2.7.21 VerificationOpinion

*Enumeration in package 'Verification'*

VerificationOpinion  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/06/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ satisfactory : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ with_comments : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ not_verified : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

## 2.2.8 Abbreviation

*Class in package 'Common'*





Abbreviation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/01/2015. Last modified 29/06/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from Abbreviation to BaseDocument	[ Name is abbreviations. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 abbreviation : string(20) Private  Properties: xetl = Installation/EmissionReportDetails/DataGapReportDetails/AbbreviationUsed/Abbreviation	[ Is static False. Containment is Not Specified. ]
 definition : string(250) Private  Properties: xetl = Installation/EmissionReportDetails/DataGapReportDetails/AbbreviationUsed/Definition	[ Is static False. Containment is Not Specified. ]

## 2.2.9 Address

*Class in package 'Common'*

Address  
Version 1.0 Phase 1.0 Implemented  
swalense created on 14/01/2015. Last modified 29/06/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from Address to Installation	[ Name is address. Direction is 'Source -> Destination'. ]
 Aggregation from Address to PostRecipient	[ Name is address. Direction is 'Source -> Destination'. ]
 Aggregation from Address to Organisation	[ Name is address. Direction is 'Source -> Destination'. ]
 Aggregation from Address to Operator 21 (ao)	[ Name is addressInAdministeringMemberState. Direction is 'Source -> Destination'. ]
ATTRIBUTES	

ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ street : string(100) Private Multiplicity: ( [1..2], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ postCode : string(20) Private	[ Is static False. Containment is Not Specified. ]
◆ city : string(100) Private	[ Is static False. Containment is Not Specified. ]
◆ state : string(100) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ province : string(100) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ region : string(100) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ country : CountryEnum Private	[ Is static False. Containment is Not Specified. ]

## 2.2.10 BaseDocument

*Class in package 'Common'*

Consolidation of history and approval status (or alike) do not belong to the document but to the system handling the data and processing workflow.

The status is thus limited to draft (e.g. if the document needs to be exchanged while being prepared) and final (for submission to verifier and CA). A document in status final can possibly be rejected (by verifier or CA) if considered incorrect (a new version will be created to correct it).

The system ingesting the document should not allow ingesting the same version twice.

BaseDocument  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/02/2015. Last modified 29/06/2015

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from ReportRawData to BaseDocument	[ Direction is 'Source -> Destination'. ]
⇒ Aggregation from «Document» AdditionalInformation to BaseDocument	[ Name is additionalInformation. Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
→ Aggregation from ContactPerson to BaseDocument	[ Name is contactPerson. Direction is 'Source -> Destination'. ]
→ Aggregation from PostRecipient to BaseDocument	[ Name is recipientOfCorrespondence. Direction is 'Source -> Destination'. ]
→ Aggregation from Abbreviation to BaseDocument	[ Name is abbreviations. Direction is 'Source -> Destination'. ]
→ Generalization from MonitoringPlan to BaseDocument	[ Direction is 'Source -> Destination'. ]
→ Generalization from VerificationReport to BaseDocument	[ Direction is 'Source -> Destination'. ]
→ Aggregation from TrackChange to BaseDocument	[ Name is trackChange. Direction is 'Source -> Destination'. ]
→ Generalization from ImprovementReport to BaseDocument	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
<p>◆ version : int Private</p> <p>Properties: xetl = DocumentProperties/version</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ date : Date Private</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ status : DocumentStatus Private</p> <p>Properties: xetl = DocumentProperties/VersionStatus</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ memberState : MemberState Private</p> <p>Properties: inst/mp = 2b inst/r = 2b xetl/mp = PermitDetails/CountryCode</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ comment : string(2000) Private</p> <p>Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties: ao/r/ae = 10 ao/r/tkm = 7 inst/mp = 26 inst/r = 17</p>	[ Is static False. Containment is Not Specified. ]

## 2.2.11 ContactPerson

*Class in package 'Common'*

ContactPerson  
Version 1.0 Phase 1.0 Implemented  
swalense created on 14/01/2015. Last modified 29/06/2015  
Extends Person

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from ContactPerson to Person	[ Direction is 'Source -> Destination'. ]
← Aggregation from ContactPerson to BaseDocument	[ Name is contactPerson. Direction is 'Source -> Destination'. ]
← Aggregation from ContactPerson to Verifier	[ Name is contactPerson. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
♦ jobTitle : string(50) Private	[ Is static False. Containment is Not Specified. ]
♦ organisation : string(250) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

## 2.2.12 Coordinates

*Class in package 'Common'*

Coordinates  
Version 1.0 Phase 1.0 Implemented  
swalense created on 14/01/2015. Last modified 08/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from Coordinates to Installation	[ Name is coordinates. Direction is 'Source -> Destination'. ]
← Aggregation from Coordinates to Installation	[ Name is coordinates. Direction is 'Source -> Destination'. ]
← Aggregation from Coordinates to NonICAOAerodrome	[ Name is coordinates. Direction is 'Source -> Destination'. ]
ATTRIBUTES	

ATTRIBUTES
<p>◆ datum : Datum Private</p> <p>Properties: xetl/mp = InstallationOperationDetails/InstallationDescription/InstallationLocation/ProjectionSystem [ Is static False. Containment is Not Specified. ]</p>
<p>◆ coordinate : float Private</p> <p>Multiplicity: ( [1..2], Allow duplicates: 0, Is ordered: False )</p> <p>Properties: inst/r = 3bvii xetl/mp = InstallationOperationDetails/InstallationDescription/InstallationLocation/InstallationLatitude, InstallationOperationDetails/InstallationDescription/InstallationLocation/InstallationLongitude [ Is static False. Containment is Not Specified. ]</p>

## 2.2.13 DateRange

*Class in package 'Common'*

DateRange  
Version 1.0 Phase 1.0 Implemented  
swalense created on 13/02/2015. Last modified 29/06/2015

ATTRIBUTES
<p>◆ from : date Private</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ to : date Private</p> <p>[ Is static False. Containment is Not Specified. ]</p>

## 2.2.14 Laboratory

*Class in package 'Common'*

8e (inst) / 8e (ao ae)

Laboratory  
Version 1.0 Phase 1.0 Implemented  
swalense created on 30/01/2015. Last modified 29/10/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from Laboratory to MonitoringPlan 7e</p> <p>[ Name is laboratory. Direction is 'Source -&gt; Destination'. ]</p>
<p>← Aggregation from Laboratory to StandardProcedureMonitoringPlan</p> <p>[ Name is laboratory. Direction is 'Source -&gt; Destination'. ]</p>



INCOMING STRUCTURAL RELATIONSHIPS	
➔ Aggregation from «Document» Evidence to Laboratory	[ Name is evidence. Direction is 'Unspecified'. ]
ATTRIBUTES	
◆ reference : string(20) Private	[ Is static False. Containment is Not Specified. ]
◆ name : string(100) Private	[ Is static False. Containment is Not Specified. ]
◆ iso17025Accredited : boolean Private	[ Is static False. Containment is Not Specified. ]
◆ analysisMethod : string(250) Private	[ Is static False. Containment is Not Specified. ]
ASSOCIATIONS	
<p>✍ Association (direction: Unspecified) laboratoryReference</p> <p>8q</p> <p>Source: Public (Class) Laboratory Cardinality: [1]</p> <p>Target: Public (Class) CalculationFactorAnalysis Cardinality: [0..*]</p>	
<p>✍ Association (direction: Unspecified) laboratoryReference</p> <p>Source: Public (Class) LaboratoryAnalysis Cardinality: [0..*]</p> <p>Target: Public (Class) Laboratory Cardinality: [1]</p>	


## 2.2.15 LaboratoryAnalysis

*Class in package 'Common'*


D7e + F9e

LaboratoryAnalysis  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/01/2015. Last modified 29/10/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
⬅ Aggregation from LaboratoryAnalysis to StandardProcedureMonitoringPlan	[ Name is analysis. Direction is 'Source -> Destination'. ]
⬅ Aggregation from LaboratoryAnalysis to MeasurementBasedApproach	[ Name is analysis. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
 parameter : string(250) Private	[ Is static False. Containment is Not Specified. ]


  

ASSOCIATIONS	
 Association (direction: Unspecified) laboratoryReference	
Source: Public (Class) LaboratoryAnalysis Cardinality: [0..*]	Target: Public (Class) Laboratory Cardinality: [1]



## 2.2.16 Operator

*Class in package 'Common'*


Operator  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 14/01/2015. Last modified 02/07/2015  
 Extends Organisation

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from Operator to Organisation	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
 Generalization from Operator to Operator	[ Direction is 'Source -> Destination'. ]
 Generalization from Operator to Operator	[ Direction is 'Source -> Destination'. ]


  

ATTRIBUTES	
 registryAccountHolderIdentifier : int Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

## 2.2.17 Organisation

*Class in package 'Common'*

Organisation  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 12/03/2015. Last modified 29/06/2015

INCOMING STRUCTURAL RELATIONSHIPS	
 Generalization from Verifier to Organisation	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
→ Generalization from Operator to Organisation	[ Direction is 'Source -> Destination'. ]
→ Aggregation from Address to Organisation	[ Name is address. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ name : string(250) Private  Properties: ao/mp = 2a ao/r = 2a 3a inst/mp = 2d inst/r = 2di xetl/r = VerifierDetails/OrganisationName	[ Is static False. Containment is Not Specified. ]

## 2.2.18 Person

*Class in package 'Common'*

Person  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 14/01/2015. Last modified 29/06/2015

INCOMING STRUCTURAL RELATIONSHIPS	
→ Generalization from ContactPerson to Person	[ Direction is 'Source -> Destination'. ]
→ Generalization from PostRecipient to Person	[ Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ title : PersonTitleEnum Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ firstName : string(50) Private	[ Is static False. Containment is Not Specified. ]
◆ surname : string(50) Private	

ATTRIBUTES	
	[ Is static False. Containment is Not Specified. ]
✦ email : string(100) Private	[ Is static False. Containment is Not Specified. ]
✦ telephone : string(20) Private Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
✦ fax : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

## 2.2.19 PostRecipient

Class in package 'Common'

PostRecipient  
Version 1.0 Phase 1.0 Implemented  
swalense created on 14/01/2015. Last modified 29/06/2015  
Extends Person

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from PostRecipient to Person	[ Direction is 'Source -> Destination'. ]
← Aggregation from PostRecipient to BaseDocument	[ Name is recipientOfCorrespondence. Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from Address to PostRecipient	[ Name is address. Direction is 'Source -> Destination'. ]

## 2.2.20 Procedure

Class in package 'Common'

Procedure  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/01/2015. Last modified 02/09/2015

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from ActivitiesDataFlowProcedure to Procedure	[ Direction is 'Source -> Destination'. ]
⇒ Aggregation from «Document» ProcedureDiagram to Procedure	[ Name is diagram. Direction is 'Unspecified'. ]

ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ title : string(100) Private	[ Is static False. Containment is Not Specified. ]
◆ procedureReference : string(1000) Private	[ Is static False. Containment is Not Specified. ]
◆ description : string(1000) Private	[ Is static False. Containment is Not Specified. ]
◆ itSystemName : string(250) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ recordsLocation : string(250) Private	[ Is static False. Containment is Not Specified. ]
◆ responsibleParty : string(250) Private	[ Is static False. Containment is Not Specified. ]
◆ standardApplied : string(250) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

## 2.2.21 RegistryAccountNumber

*Class in package 'Common'*

RegistryAccountNumber  
Version 1.0 Phase 1.0 Implemented  
swalense created on 26/05/2015. Last modified 29/06/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
⇐ Aggregation from RegistryAccountNumber to Installation [ Name is registryAccountNumber. Direction is 'Source -> Destination'. ]	
⇐ Aggregation from RegistryAccountNumber to Operator [ Name is registryAccountNumber. Direction is 'Source -> Destination'. ]	

ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ registry : ISO3166-1 alpha 2 Private	

ATTRIBUTES	
	[ Is static False. Containment is Not Specified. ]
◆ type : int(3) Private	[ Is static False. Containment is Not Specified. ]
◆ identifier : int(15) Private	[ Is static False. Containment is Not Specified. ]
◆ commitmentPeriod : int(2) Private	[ Is static False. Containment is Not Specified. ]
◆ checksum : int(2) Private	[ Is static False. Containment is Not Specified. ]

## 2.2.22 Responsibility

*Class in package 'Common'*

20a

Responsibility  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/01/2015. Last modified 02/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from Responsibility to MonitoringPlan	[ Name is responsibility. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ jobTitle : Private	[ Is static False. Containment is Not Specified. ]
◆ description : Private	[ Is static False. Containment is Not Specified. ]

## 2.2.23 TrackChange

*Class in package 'Common'*

TrackChange  
Version 1.0 Phase 1.0 Implemented  
swalense created on 12/03/2015. Last modified 29/06/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from TrackChange to BaseDocument	[ Name is trackChange. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ version : int Private	[ Is static False. Containment is Not Specified. ]
◆ changeExplanation : string(1000) Private Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: False )  Properties: xetl = DocumentProperties/VersionExplanationChanges	[ Is static False. Containment is Not Specified. ]

## 2.2.24 Verifier

*Class in package 'Common'*

Verifier  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 17/02/2015. Last modified 24/08/2015  
 Extends Organisation

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from Verifier to Organisation	[ Direction is 'Source -> Destination'. ]
← Aggregation from Verifier to ReportRawData	[ Name is verifier. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
→ Generalization from Verifier to Verifier	[ Direction is 'Source -> Destination'. ]
→ Aggregation from ContactPerson to Verifier	[ Name is contactPerson. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ registrationNumber : string(50) Private  Properties: ao/r = 3c	

ATTRIBUTES
inst/r = 5cii xetl = VerifierDetails/AccreditationOrCentrifcation/RegistrationNumber [ Is static False. Containment is Not Specified. ]
◆ accreditingMemberState : MemberState Private  Properties: ao = 3c inst/r = 5ci xetl = VerifierDetails/AccreditationOrCentrifcation/CountryCode [ Is static False. Containment is Not Specified. ]

## 2.2.25 Country

Enumeration in package 'Common'

Country  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/02/2015. Last modified 29/10/2015

INCOMING STRUCTURAL RELATIONSHIPS
⇒ Aggregation from IssuingAuthority to Country [ Name is issuingAuthority. Direction is 'Source -> Destination'. ]

ATTRIBUTES
◆ afghanistan : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ albania : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ ... : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]

## 2.2.26 Datum

Enumeration in package 'Common'

Datum  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/02/2015. Last modified 29/10/2015



ATTRIBUTES
◆ wgs84 : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]



## 2.2.27 DocumentStatus

Enumeration in package 'Common'




DocumentStatus  
Version 1.0 Phase 1.0 Implemented  
swalense created on 12/03/2015. Last modified 29/10/2015

ATTRIBUTES	
 draft : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 final : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

## 2.2.28 GHG

Enumeration in package 'Common'

GHG  
Version 1.0 Phase 1.0 Implemented  
swalense created on 15/01/2015. Last modified 29/10/2015

ATTRIBUTES	
 CO2 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 N2O : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 PFC : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]




ASSOCIATIONS	
 Association (direction: Unspecified) ghgEmitted	
Source: Public (Enumeration) AnnexIAActivityType Cardinality: [1..*]	Target: Public (Enumeration) GHG Cardinality: [1..*]

## 2.2.29 MemberState

Enumeration in package 'Common'

MemberState  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/02/2015. Last modified 29/10/2015

ATTRIBUTES	
 austria : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

ATTRIBUTES	
 <b>belgium</b> : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 <b>...</b> : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
ASSOCIATIONS	
 Association (direction: Unspecified) memberState	
Source: Public (Enumeration) CompetentAuthority Cardinality: [0..*]	Target: Public (Enumeration) MemberState Cardinality: [0..*]

### 2.2.30 PersonTitle

*Enumeration in package 'Common'*

PersonTitle  
Version 1.0 Phase 1.0 Implemented  
swalense created on 14/01/2015. Last modified 29/10/2015

ATTRIBUTES	
 <b>mr</b> : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 <b>mrs</b> : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 <b>ms</b> : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 <b>miss</b> : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 <b>dr</b> : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

## 2.3 Installation

*Package in package 'Domain'*

Installation  
Version 1.0 Phase 1.0 Proposed  
swalense created on 15/01/2015. Last modified 19/01/2015  
Alias

### 2.3.1 Improvement

*Package in package 'Installation'*

Improvement  
Version 1.0 Phase 1.0 Proposed  
swalense created on 17/06/2015. Last modified 18/06/2015  
Alias

#### 2.3.1.1 ActivityDataDeviation

*Class in package 'Improvement'*

ActivityDataDeviation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends Deviation

##### OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from ActivityDataDeviation to Deviation

[ Direction is 'Source -> Destination'. ]

#### 2.3.1.2 BiomassFractionDeviation

*Class in package 'Improvement'*

BiomassFractionDeviation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends Deviation

##### OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from BiomassFractionDeviation to Deviation

[ Direction is 'Source -> Destination'. ]

#### 2.3.1.3 CarbonContentDeviation

*Class in package 'Improvement'*

CarbonContentDeviation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends Deviation

#### OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from CarbonContentDeviation to Deviation

[ Direction is 'Source -> Destination'. ]

### 2.3.1.4 ConversionFactorDeviation

*Class in package 'Improvement'*

ConversionFactorDeviation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends Deviation

#### OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from ConversionFactorDeviation to Deviation

[ Direction is 'Source -> Destination'. ]

### 2.3.1.5 DerivedData

*Class in package 'Improvement'*

DerivedData  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/06/2015. Last modified 25/08/2015

#### OUTGOING STRUCTURAL RELATIONSHIPS

← Aggregation from DerivedData to ImprovementReport

[ Name is derivedData. Direction is 'Source -> Destination'. ]

#### INCOMING STRUCTURAL RELATIONSHIPS

→ Aggregation from DeviationDerivedData to DerivedData

[ Name is deviation. Direction is 'Source -> Destination'. ]

#### ATTRIBUTES

◆ nextImprovementReportSubmissionDate : date Private

[ Is static False. Containment is Not Specified. ]

### 2.3.1.6 Deviation

*Class in package 'Improvement'*

Deviation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from NetCalorificValueDeviation to Deviation	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from MeasurementDeviation to Deviation	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from BiomassFractionDeviation to Deviation	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from ConversionFactorDeviation to Deviation	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from OxidationFactorDeviation to Deviation	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from ActivityDataDeviation to Deviation	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from CarbonContentDeviation to Deviation	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from EmissionFactorDeviation to Deviation	[ Direction is 'Source -> Destination'. ]
⇒ Aggregation from Action to Deviation	[ Name is measure. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ reference : string(20) Private	[ Is static False. Containment is Not Specified. ]
◆ reason : DeviationReason Private Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ description : string(2000) Private	[ Is static False. Containment is Not Specified. ]
◆ appliedTier : Tier Private	[ Is static False. Containment is Not Specified. ]
ASSOCIATIONS	
◆ Association (direction: Unspecified) deviationReference	
Source: Public (Class) DeviationDerivedData	Target: Public (Class) Deviation



ASSOCIATIONS	
Cardinality: [1]	Cardinality: [1]


### 2.3.1.7 DeviationDerivedData

*Class in package 'Improvement'*

DeviationDerivedData  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/06/2015. Last modified 25/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS
 Aggregation from DeviationDerivedData to DerivedData <div style="text-align: right;">[ Name is deviation. Direction is 'Source -&gt; Destination'. ]</div>


ATTRIBUTES
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) <div style="text-align: right;">[ Is static False. Containment is Not Specified. ]</div>
 requiredTier : Tier Private <div style="text-align: right;">[ Is static False. Containment is Not Specified. ]</div>

ASSOCIATIONS
 Association (direction: Unspecified) deviationReference Source: Public (Class) DeviationDerivedData Cardinality: [1] Target: Public (Class) Deviation Cardinality: [1]

### 2.3.1.8 EmissionFactorDeviation

*Class in package 'Improvement'*

EmissionFactorDeviation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends Deviation

OUTGOING STRUCTURAL RELATIONSHIPS
 Generalization from EmissionFactorDeviation to Deviation <div style="text-align: right;">[ Direction is 'Source -&gt; Destination'. ]</div>

### 2.3.1.9 FallbackApproach

*Class in package 'Improvement'*

FallbackApproach

Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from FallbackApproach to ImprovementReport	[ Name is fallbackApproach. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
→ Aggregation from Action to FallbackApproach	[ Name is measure. Direction is 'Source -> Destination'. ]
→ Aggregation from «Document» Documentation to FallbackApproach	[ Name is documentation. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ description : string(2000) Private	[ Is static False. Containment is Not Specified. ]

### 2.3.1.10 ImprovementReport

*Class in package 'Improvement'*

ImprovementReport  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends ImprovementReport

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from ImprovementReport to ImprovementReport	[ Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
→ Aggregation from Installation to ImprovementReport	[ Name is installation. Direction is 'Source -> Destination'. ]
→ Aggregation from SourceStream to ImprovementReport	[ Name is sourceStream. Direction is 'Source -> Destination'. ]
→ Aggregation from MeasurementPoint to ImprovementReport	[ Name is measurementPoint. Direction is 'Source -> Destination'. ]
→ Aggregation from Operator to ImprovementReport	[ Name is operator. Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Aggregation from FallbackApproach to ImprovementReport [ Name is fallbackApproach. Direction is 'Source -> Destination'. ]	
➔ Aggregation from DerivedData to ImprovementReport [ Name is derivedData. Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
◆ monitoringPlanVersion : int Private [ Is static False. Containment is Not Specified. ]	
◆ lastImprovementReportSubmissionDate : date Private [ Is static False. Containment is Not Specified. ]	

### 2.3.1.11 Installation

*Class in package 'Improvement'*

Installation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends Installation

OUTGOING STRUCTURAL RELATIONSHIPS	
⬅ Aggregation from Installation to ImprovementReport [ Name is installation. Direction is 'Source -> Destination'. ]	
⬅ Generalization from Installation to Installation [ Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
◆ category : InstallationCategory Private [ Is static False. Containment is Not Specified. ]	
◆ lowEmitter : boolean Private [ Is static False. Containment is Not Specified. ]	

### 2.3.1.12 MeasurementDeviation

*Class in package 'Improvement'*

MeasurementDeviation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends Deviation

OUTGOING STRUCTURAL RELATIONSHIPS
-----------------------------------



**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from MeasurementDeviation to Deviation

[ Direction is 'Source -> Destination'. ]

**2.3.1.13 MeasurementPoint**

*Class in package 'Improvement'*

MeasurementPoint  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from MeasurementPoint to ImprovementReport

[ Name is measurementPoint. Direction is 'Source -> Destination'. ]

**CONNECTORS**

↗ **Usage** reference Source -> Destination  
From: MeasurementPoint : Class, Public  
To: MeasurementPoint : Class, Public

**ATTRIBUTES**

◆ reference : string(20) Private  
Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )

[ Is static False. Containment is Not Specified. ]

◆ measurementPointReference : string(20) Private

[ Is static False. Containment is Not Specified. ]

◆ deviation : MeasurementDeviation Private

[ Is static False. Containment is Not Specified. ]

**2.3.1.14 NetCalorificValueDeviation**

*Class in package 'Improvement'*

NetCalorificValueDeviation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends Deviation

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from NetCalorificValueDeviation to Deviation

[ Direction is 'Source -> Destination'. ]

### 2.3.1.15 Operator

*Class in package 'Improvement'*

Operator  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends Operator

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from Operator to ImprovementReport	[ Name is operator. Direction is 'Source -> Destination'. ]
← Generalization from Operator to Operator	[ Direction is 'Source -> Destination'. ]
ATTRIBUTES	
reportingCompetentAuthority : string(250) Private	[ Is static False. Containment is Not Specified. ]

### 2.3.1.16 OxidationFactorDeviation

*Class in package 'Improvement'*

OxidationFactorDeviation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015  
Extends Deviation

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from OxidationFactorDeviation to Deviation	[ Direction is 'Source -> Destination'. ]


### 2.3.1.17 SourceStream

*Class in package 'Improvement'*


SourceStream  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 25/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from SourceStream to ImprovementReport	[ Name is sourceStream. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from «Document» Documentation to SourceStream	[ Name is documentation. Direction is 'Source -> Destination'. ]


**CONNECTORS**

 **Usage** reference Source -> Destination  
 From: SourceStream : Class, Public  
 To: SourceStream : Class, Public

**ATTRIBUTES**

 **reference** : string(20) Private  
 Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]

 **sourceStreamReference** : string(20) Private [ Is static False. Containment is Not Specified. ]

 **deviation** : Deviation Private  
 Multiplicity: ( [1..\*], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]

## 2.3.3 MP

Package in package 'Installation'

MP

Version 1.0 Phase 1.0 Proposed

swalense created on 04/02/2015. Last modified 04/02/2015

Alias

### 2.3.3.1 Activity



Class in package 'MP'

Activity



Version 1.0 Phase 1.0 Implemented

swalense created on 16/06/2015. Last modified 11/08/2015

Extends Activity

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from Activity to Activity	[ Direction is 'Source -> Destination'. ]
 Aggregation from Activity to Installation	[ Name is activity. Direction is 'Source -> Destination'. ]

CONNECTORS	
 <b>Usage</b> reference Source -> Destination	
From: MonitoringPlanActivity : Class, Public	
To: Activity : Class, Public	

ASSOCIATIONS	
 Association (direction: Unspecified) activityReference	
Source: Public (Class) ActivityDerivedData Cardinality: [0..1]	Target: Public (Class) Activity Cardinality: [1]
 Association (direction: Unspecified) activityReference	
Source: Public (Class) Configuration Cardinality: [1..*]	Target: Public (Class) Activity Cardinality: [1]

### 2.3.3.2 ActivityDerivedData

Class in package 'MP'

ActivityDerivedData

Version 1.0 Phase 1.0 Implemented

swalense created on 17/06/2015. Last modified 24/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS
-----------------------------------

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from ActivityDerivedData to DerivedData

[ Name is activity. Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

reference : string(20) Private

Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )

[ Is static False. Containment is Not Specified. ]

ghgEmitted : GHG Private

Multiplicity: ( [1..\*], Allow duplicates: 0, Is ordered: False )

Properties:

inst/mp = 5c

inst/r = 6

xetl/mp = InstallationOperationDetails/InstallationDescription/AnnexIActivityData/ETSPollutant

xetl/r = Installation/EmissionReportDetails/InstallationReport/ActivityEmissions/GHGTypeEmitted

[ Is static False. Containment is Not Specified. ]

**ASSOCIATIONS**

Association (direction: Unspecified) activityReference

Source: Public (Class) ActivityDerivedData

Cardinality: [0..1]

Target: Public (Class) Activity

Cardinality: [1]

**2.3.3.3 BiomassFraction**

*Class in package 'MP'*

BiomassFraction  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/06/2015. Last modified 29/10/2015  
Extends TieredCalculationFactor

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from BiomassFraction to TieredCalculationFactor

[ Direction is 'Source -> Destination'. ]

**2.3.3.4 C2F6WeightFraction**

*Class in package 'MP'*

C2F6WeightFraction  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/06/2015. Last modified 29/10/2015  
Extends TieredCalculationFactor

**OUTGOING STRUCTURAL RELATIONSHIPS**

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from C2F6WeightFraction to TieredCalculationFactor

[ Direction is 'Source -> Destination'. ]

**2.3.3.5 CO2Transfer**

Class in package 'MP'

CO2Transfer

Version 1.0 Phase 1.0 Implemented

swalense created on 16/02/2015. Last modified 11/09/2015

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from CO2Transfer to CO2TransferApproach

[ Name is transfer. Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

reference : string(20) Private

Properties:

xetl/mp = InstallationOperationDetails/InstallationDescription/CO2TransferPoint/TransferPointID

[ Is static False. Containment is Not Specified. ]

transferType : CO2TransferType Private

[ Is static False. Containment is Not Specified. ]

measurementApproach : MeasurementApproach Private

Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )

Properties:

xetl/mp = InstallationOperationDetails/InstallationDescription/CO2TransferPoint/MeasurementApproach

[ Is static False. Containment is Not Specified. ]

alignmentDescription : string(2000) Private

Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )

[ Is static False. Containment is Not Specified. ]

**ASSOCIATIONS**

Association (direction: Unspecified) remoteInstallationReference

Source: Public (Class) CO2Transfer  
Cardinality: [1..\*]

Target: Public (Class) RemoteInstallation  
Cardinality: [1]

Association (direction: Unspecified) emissionDeterminationReference

Source: Public (Class) EmissionDetermination  
Cardinality: [1]

Target: Public (Class) CO2Transfer  
Cardinality: [0..1]

**2.3.3.6 CO2TransferApproach**

*Class in package 'MP'*

CO2TransferApproach  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/01/2015. Last modified 07/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from CO2TransferApproach to MonitoringPlan	[ Name is CO2TransferApproach. Direction is 'Source -> Destination'. ]
← Aggregation from CO2TransferApproach to MassBalanceEmissionCalculation	[ Name is CO2Transfer. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
→ Aggregation from PipelineSystems to CO2TransferApproach	[ Name is pipelineSystems. Direction is 'Source -> Destination'. ]
→ Aggregation from CO2Transfer to CO2TransferApproach	[ Name is transfer. Direction is 'Source -> Destination'. ]
→ Aggregation from GeologicalStorage to CO2TransferApproach	[ Name is geologicalStorage. Direction is 'Source -> Destination'. ]
→ Aggregation from RemoteInstallation to CO2TransferApproach	[ Name is remoteInstallation. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
<p>reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p>	[ Is static False. Containment is Not Specified. ]
<p>methodologyDescription : string(1000) Private 17a</p>	[ Is static False. Containment is Not Specified. ]
<p>amountDeductionProcedure : Procedure Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) 17c</p>	[ Is static False. Containment is Not Specified. ]
<p>furtherProcedure : Procedure Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )</p>	[ Is static False. Containment is Not Specified. ]

### 2.3.3.7 CalculationBasedApproach



*Class in package 'MP'*

7

CalculationBasedApproach  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/01/2015. Last modified 14/08/2015

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from DefaultCalculationFactorsDocumentation to CalculationBasedApproach [ Name is defaultCalculationFactorsDocumentation. Direction is 'Source -> Destination'. ]	
⇒ Generalization from StandardCalculationBasedApproach to CalculationBasedApproach [ Direction is 'Source -> Destination'. ]	
⇒ Aggregation from «Document» UncertaintyCalculationsAssessment to CalculationBasedApproach [ Name is uncertaintyCalculationsAssessment. Direction is 'Unspecified'. ]	
⇒ Generalization from PFCCalculationBasedApproach to CalculationBasedApproach [ Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
◆ reference : int Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]	
◆ description : string(1000) Private Properties: inst/mp = 7a xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanApproach/CalculationApproach [ Is static False. Containment is Not Specified. ]	
◆ analysesProcedure : Procedure Private 7f [ Is static False. Containment is Not Specified. ]	
◆ instrumentTrackingProcedure : Procedure Private 7j [ Is static False. Containment is Not Specified. ]	
◆ samplingProcedure : Procedure Private 7g [ Is static False. Containment is Not Specified. ]	
◆ samplingPlanReviseProcedure : Procedure Private 7h [ Is static False. Containment is Not Specified. ]	







ATTRIBUTES	
<p>  <b>stockEstimateProcedure</b> : Procedure Private                      Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )                       Properties:                      inst/mp = 7i                      xetl/mp =                      InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedCO2/ProcessToDetermineEmission  <span style="float: right;">[ Is static False. Containment is Not Specified. ]</span> </p>	
<p>  <b>furtherProcedure</b> : Procedure Private                      Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )   <span style="float: right;">[ Is static False. Containment is Not Specified. ]</span> </p>	

### 2.3.3.8 CalculationFactor

*Class in package 'MP'*


CalculationFactor  
 Version 1.0 Phase 1.0 Implemented  
 SWALENSE created on 20/08/2015. Last modified 29/10/2015

INCOMING STRUCTURAL RELATIONSHIPS	
<p>  Generalization from TieredCalculationFactor to CalculationFactor  <span style="float: right;">[ Direction is 'Source -&gt; Destination'. ]</span> </p>	
<p>  Generalization from CollectionEfficiency to CalculationFactor  <span style="float: right;">[ Direction is 'Source -&gt; Destination'. ]</span> </p>	
<p>  Aggregation from CalculationFactorAnalysis to CalculationFactor  <span style="float: right;">[ Name is analysis. Direction is 'Source -&gt; Destination'. ]</span> </p>	
<p>  Aggregation from DefaultCalculationFactorValue to CalculationFactor  <span style="float: right;">[ Name is defaultValue. Direction is 'Source -&gt; Destination'. ]</span> </p>	

### 2.3.3.9 CalculationFactorAnalysis

*Class in package 'MP'*

CalculationFactorAnalysis  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/06/2015. Last modified 29/10/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
<p>  Aggregation from CalculationFactorAnalysis to CalculationFactor  <span style="float: right;">[ Name is analysis. Direction is 'Source -&gt; Destination'. ]</span> </p>	

INCOMING STRUCTURAL RELATIONSHIPS	
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INCOMING STRUCTURAL RELATIONSHIPS	
<p>➔ Aggregation from «Document» SamplingPlan to CalculationFactorAnalysis 8g</p> <p>[ Name is samplingReference. Direction is 'Source -&gt; Destination'. ]</p>	
ATTRIBUTES	
<p>◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p>◆ analysisFrequency : CalculationFactorAnalysisFrequency Private</p> <p>Properties: xetl/mp = FactorType/AnalysisFrequency</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p>◆ latestAnalysisDate : date Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
ASSOCIATIONS	
<p>✍ Association (direction: Unspecified) laboratoryReference</p> <p>8q</p> <p>Source: Public (Class) Laboratory Cardinality: [1]</p> <p>Target: Public (Class) CalculationFactorAnalysis Cardinality: [0..*]</p>	

### 2.3.3.10 CalculationFactorDerivedData

Class in package 'MP'

CalculationFactorDerivedData  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 11/09/2015


OUTGOING STRUCTURAL RELATIONSHIPS	
<p>⬅ Aggregation from CalculationFactorDerivedData to DerivedData [ Name is calculationFactor. Direction is 'Source -&gt; Destination'. ]</p>	
ATTRIBUTES	
<p>◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p>◆ requiredTier : Tier Private</p> <p>[ Is static False. Containment is Not Specified. ]</p>	

ASSOCIATIONS	
 Association (direction: Unspecified) calculationFactorReference	
Source: Public (Class) CalculationFactorDerivedData Cardinality: [0..1]	Target: Public (Class) TieredCalculationFactor Cardinality: [1]

### 2.3.3.11 CarbonContent

Class in package 'MP'


CarbonContent  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/06/2015. Last modified 29/10/2015  
Extends TieredCalculationFactor

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from CarbonContent to TieredCalculationFactor	[ Direction is 'Source -> Destination'. ]

### 2.3.3.12 CollectionEfficiency

Class in package 'MP'


CollectionEfficiency  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/06/2015. Last modified 29/10/2015  
Extends CalculationFactor

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from CollectionEfficiency to CalculationFactor	[ Direction is 'Source -> Destination'. ]



### 2.3.3.13 CombustionEmissionCalculation

Class in package 'MP'

CombustionEmissionCalculation  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 15/06/2015. Last modified 14/08/2015  
Extends SourceStreamEmissionCalculation

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from CombustionEmissionCalculation to SourceStreamEmissionCalculation	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
 ef : EmissionFactor Private	

ATTRIBUTES	
Properties: xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedProcess/EmissionFactor [ Is static False. Containment is Not Specified. ]	
 <b>oxF</b> : OxidationFactor Private Properties: xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedProcess/OxidationFactor [ Is static False. Containment is Not Specified. ]	
 <b>ncv</b> : NetCalorificValue Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) Properties: xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedProcess/NetCalorificHeatingValue [ Is static False. Containment is Not Specified. ]	
 <b>biomassFraction</b> : BiomassFraction Private Properties: xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedProcess/BiomassFraction [ Is static False. Containment is Not Specified. ]	



### 2.3.3.14 Configuration



Class in package 'MP'

Configuration  
 Version 1.0 Phase 1.0 Implemented  
 SWALENSE created on 08/09/2015. Last modified 11/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from Configuration to Installation [ Name is configuration. Direction is 'Source -> Destination'. ]	

ATTRIBUTES	
 <b>reference</b> : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]	


ASSOCIATIONS	
 Association (direction: Unspecified) activityReference Source: Public (Class) Configuration Cardinality: [1..*] Target: Public (Class) Activity Cardinality: [1]	
 Association (direction: Unspecified) emissionSourceReference Source: Public (Class) Configuration Cardinality: [1..*] Target: Public (Class) EmissionSource Cardinality: [1]	

ASSOCIATIONS	
 Association (direction: Unspecified) sourceStreamReference Source: Public (Class) Configuration Cardinality: [1..*]	Target: Public (Class) SourceStream Cardinality: [0..1]
 Association (direction: Unspecified) emissionPointReference Source: Public (Class) EmissionPoint Cardinality: [0..1]	Target: Public (Class) Configuration Cardinality: [1..*]

### 2.3.3.15 ConversionFactor

*Class in package 'MP'*


ConversionFactor  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/06/2015. Last modified 29/10/2015  
 Extends TieredCalculationFactor

OUTGOING STRUCTURAL RELATIONSHIPS
 Generalization from ConversionFactor to TieredCalculationFactor [ Direction is 'Source -> Destination'. ]

### 2.3.3.16 CorroboratingSourceStream

*Class in package 'MP'*


CorroboratingSourceStream  
 Version 1.0 Phase 1.0 Implemented  
 SWALENSE created on 25/09/2015. Last modified 29/10/2015  
 Extends SourceStream



OUTGOING STRUCTURAL RELATIONSHIPS
 Generalization from CorroboratingSourceStream to SourceStream [ Direction is 'Source -> Destination'. ]


### 2.3.3.17 DefaultCalculationFactorValue

*Class in package 'MP'*

DefaultCalculationFactorValue  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/06/2015. Last modified 29/10/2015

OUTGOING STRUCTURAL RELATIONSHIPS
 Aggregation from DefaultCalculationFactorValue to CalculationFactor [ Name is defaultValue. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 value : float(4) Private	[ Is static False. Containment is Not Specified. ]


ASSOCIATIONS	
 Association (direction: Unspecified) sourceReference Source: Public (Class) DefaultCalculationFactorValue Cardinality: [0..*]	Target: Public (Class) DefaultCalculationFactorsDocumentation Cardinality: [1]



### 2.3.3.18 DefaultCalculationFactorsDocumentation


Class in package 'MP'

7d

DefaultCalculationFactorsDocumentation  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 20/01/2015. Last modified 14/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS
 Aggregation from DefaultCalculationFactorsDocumentation to CalculationBasedApproach [ Name is defaultCalculationFactorsDocumentation. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
 reference : string(20) Private	[ Is static False. Containment is Not Specified. ]
 description : string(1000) Private	[ Is static False. Containment is Not Specified. ]

ASSOCIATIONS	
 Association (direction: Unspecified) sourceReference Source: Public (Class) DefaultCalculationFactorValue Cardinality: [0..*]	Target: Public (Class) DefaultCalculationFactorsDocumentation Cardinality: [1]

### 2.3.3.19 DerivedData

Class in package 'MP'

DerivedData  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 11/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from DerivedData to MonitoringPlan [ Name is derivedData. Direction is 'Source -&gt; Destination'. ]</p>
INCOMING STRUCTURAL RELATIONSHIPS
<p>→ Aggregation from MeasurementPointEmissionDeterminationDerivedData to DerivedData [ Name is measurementPointEmissionDetermination. Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Aggregation from PFCActivityDataDetailsDerivedData to DerivedData [ Name is PFCActivityDataDetails. Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Aggregation from SourceStreamEmissionCalculationDerivedData to DerivedData [ Name is sourceStreamEmissionCalculation. Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Aggregation from ActivityDerivedData to DerivedData [ Name is activity. Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Aggregation from SourceStreamDerivedData to DerivedData [ Name is sourceStream. Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Aggregation from MeasurementPointDerivedData to DerivedData [ Name is measurementPoint. Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Aggregation from CalculationFactorDerivedData to DerivedData [ Name is calculationFactor. Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]</p>
<p>installationCategory : InstallationCategory Private Properties: inst/mp = 5d xetl/mp = InstallationOperationDetails/InstallationDescription/InstallationClassification [ Is static False. Containment is Not Specified. ]</p>
<p>estimatedAnnualEmission : float(4) Private Properties: inst/mp = 5d xetl/mp = InstallationOperationDetails/InstallationDescription/CO2TotalEmissionsEstimate [ Is static False. Containment is Not Specified. ]</p>


### 2.3.3.20 EmissionDetermination

## Class in package 'MP'

EmissionDetermination  
Version 1.0 Phase 1.0 Implemented  
swalense created on 20/01/2015. Last modified 09/09/2015

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Generalization from MeasurementPointEmissionDetermination to EmissionDetermination	[ Direction is 'Source -> Destination'. ]
➔ Generalization from SourceStreamEmissionCalculation to EmissionDetermination	[ Direction is 'Source -> Destination'. ]
ATTRIBUTES	
◆ reference : string(20) Private [ Is static False. Containment is Not Specified. ]	
◆ measurementApproachDescription : string(1000) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) 8b + 10b [ Is static False. Containment is Not Specified. ]	
◆ uncertaintyAchieved : float(2) Private 8e + 10e Properties: xetl/mp = ActivityDataUsedType/UncertaintyAchieved [ Is static False. Containment is Not Specified. ]	
◆ uncertaintyComment : string(1000) Private 8e + 10e [ Is static False. Containment is Not Specified. ]	
◆ tierJustification : string(1000) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) 8i + 10i Properties: xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedProcess/JustifyTierNotApplied [ Is static False. Containment is Not Specified. ]	
◆ comment : string(1000) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False ) 8h + 10h [ Is static False. Containment is Not Specified. ]	





ASSOCIATIONS	
 Association (direction: Unspecified) emissionDeterminationReference	
Source: Public (Class) EmissionDetermination Cardinality: [1]	Target: Public (Class) CO2Transfer Cardinality: [0..1]

### 2.3.3.21 EmissionFactor

Class in package 'MP'

EmissionFactor  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/06/2015. Last modified 29/10/2015  
Extends TieredCalculationFactor



OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from EmissionFactor to TieredCalculationFactor	[ Direction is 'Source -> Destination'. ]



ATTRIBUTES	
 unit : EmissionFactorUnit Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.3.3.22 EmissionPoint

Class in package 'MP'

EmissionPoint  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 11/08/2015. Last modified 21/08/2015  
Extends EmissionPoint

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from EmissionPoint to Installation	[ Name is emissionPoint. Direction is 'Source -> Destination'. ]
 Generalization from EmissionPoint to EmissionPoint	[ Direction is 'Source -> Destination'. ]


ASSOCIATIONS	
 Association (direction: Unspecified) emissionPointReference	
Source: Public (Class) EmissionPoint Cardinality: [0..1]	Target: Public (Class) Configuration Cardinality: [1..*]
 Association (direction: Unspecified) emissionPointReference	
Source: Public (Class) MeasurementPoint	Target: Public (Class) EmissionPoint


ASSOCIATIONS	
Cardinality: [0..*]	Cardinality: [1]



### 2.3.3.23 EmissionSource

*Class in package 'MP'*

EmissionSource  
Version 1.0 Phase 1.0 Implemented  
swalense created on 15/01/2015. Last modified 25/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS
 Aggregation from EmissionSource to Installation <div style="text-align: right;">[ Name is emissionSource. Direction is 'Source -&gt; Destination'. ]</div>

ATTRIBUTES
 reference : string(20) Private Properties: inst/mp = 6b xetl/mp = InstallationOperationDetails/InstallationDescription/EmissionSource/EmissionSourceID <div style="text-align: right;">[ Is static False. Containment is Not Specified. ]</div>
 nameAndDescription : string(250) Private Properties: inst/mp = 6b xetl/mp = InstallationOperationDetails/InstallationDescription/EmissionSource/EmissionSourceName <div style="text-align: right;">[ Is static False. Containment is Not Specified. ]</div>






ASSOCIATIONS
 Association (direction: Unspecified) emissionSourceReference Source: Public (Class) NonETSActivity Cardinality: [0..*] Target: Public (Class) EmissionSource Cardinality: [0..1]
 Association (direction: Unspecified) emissionSourceReference Source: Public (Class) Configuration Cardinality: [1..*] Target: Public (Class) EmissionSource Cardinality: [1]

### 2.3.3.24 FallbackApproach

*Class in package 'MP'*

FallbackApproach  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/01/2015. Last modified 24/08/2015




OUTGOING STRUCTURAL RELATIONSHIPS
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OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from FallbackApproach to MonitoringPlan [ Name is fallbackApproach. Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]	
 methodologyDescription : string(2000) Private 12a [ Is static False. Containment is Not Specified. ]	
 approachJustification : string(2000) Private 12b [ Is static False. Containment is Not Specified. ]	
 uncertaintyAnalysisProcedure : Procedure Private 12c Properties: xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/FallBackMethod/OverallUncertaintyAnalysis=ProcedureType [ Is static False. Containment is Not Specified. ]	

### 2.3.3.25 GeologicalStorage

Class in package 'MP'

GeologicalStorage  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 28/01/2015. Last modified 07/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from GeologicalStorage to CO2TransferApproach [ Name is geologicalStorage. Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]	
 waterColumnProcedure : Procedure Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) 19a	

ATTRIBUTES	
	[ Is static False. Containment is Not Specified. ]
◆ fugitiveAndVentedEmissionsProcedure : Procedure Private 19b	[ Is static False. Containment is Not Specified. ]
◆ leakageUncertaintyProcedure : Procedure Private 19c	[ Is static False. Containment is Not Specified. ]

### 2.3.3.26 Installation

Class in package 'MP'

Installation  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 17/02/2015. Last modified 11/08/2015  
 Extends Installation

OUTGOING STRUCTURAL RELATIONSHIPS	
⇐ Aggregation from Installation to MonitoringPlan	[ Name is installation. Direction is 'Source -> Destination'. ]
⇐ Generalization from Installation to Installation	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from EmissionPoint to Installation	[ Name is emissionPoint. Direction is 'Source -> Destination'. ]
⇒ Aggregation from SourceStream to Installation	[ Name is sourceStream. Direction is 'Source -> Destination'. ]
⇒ Aggregation from NonETSActivity to Installation	[ Name is nonETSActivity. Direction is 'Source -> Destination'. ]
⇒ Aggregation from Configuration to Installation	[ Name is configuration. Direction is 'Source -> Destination'. ]
⇒ Aggregation from Coordinates to Installation	[ Name is coordinates. Direction is 'Source -> Destination'. ]
⇒ Aggregation from Activity to Installation	[ Name is activity. Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS
<p>→ Aggregation from EmissionSource to Installation [ Name is emissionSource. Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Aggregation from MeasurementPoint to Installation [ Name is measurementPoint. Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Aggregation from «Document» SourceStreamDiagram to Installation [ Name is sourceStreamDiagram. Direction is 'Unspecified'. ]</p>
<p>→ Aggregation from MeasurementInstrument to Installation [ Name is measurementInstrument. Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p>◆ eprtrIdentifier : string(100) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties: inst/mp = 3aiv xetl/mp = InstallationOperationDetails/InstallationDescription/EPTRTR [ Is static False. Containment is Not Specified. ]</p>
<p>◆ descriptionOfActivities : string(1000) Private</p> <p>Properties: inst/mp = 5a xetl/mp = InstallationOperationDetails/InstallationDescription/DescriptionSummary [ Is static False. Containment is Not Specified. ]</p>

### 2.3.3.27 MassBalanceEmissionCalculation

*Class in package 'MP'*

MassBalanceEmissionCalculation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 15/06/2015. Last modified 14/08/2015  
Extends SourceStreamEmissionCalculation

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from MassBalanceEmissionCalculation to SourceStreamEmissionCalculation [ Direction is 'Source -&gt; Destination'. ]</p>

INCOMING STRUCTURAL RELATIONSHIPS
<p>→ Aggregation from CO2TransferApproach to MassBalanceEmissionCalculation [ Name is CO2Transfer. Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p>◆ carbC : CarbonContent Private</p> <p>Properties: xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedProcess/CarbonContent</p>

ATTRIBUTES	
	[ Is static False. Containment is Not Specified. ]
<p>◆ ncv : NetCalorificValue Private            Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties:            xetl/mp =            InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedProcess/NetCalorificHeatingValue</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ biomassFraction : BiomassFraction Private</p> <p>Properties:            xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedProcess/BiomassFraction</p>	[ Is static False. Containment is Not Specified. ]

### 2.3.3.28 MeasurementBasedApproach

Class in package 'MP'

MeasurementBasedApproach  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 19/01/2015. Last modified 21/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
<p>← Aggregation from MeasurementBasedApproach to MonitoringPlan</p>	[ Name is measurementBasedApproach. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
<p>⇒ Aggregation from «Document» ProcessDiagram to MeasurementBasedApproach</p>	[ Name is processDiagram. Direction is 'Source -> Destination'. ]
<p>⇒ Aggregation from MeasurementSetup to MeasurementBasedApproach</p>	[ Name is measurementSetup. Direction is 'Source -> Destination'. ]
<p>⇒ Aggregation from N2OMonitoring to MeasurementBasedApproach</p>	[ Name is N2OMonitoring. Direction is 'Source -> Destination'. ]
<p>⇒ Aggregation from «Document» UncertaintyCalculationsAssessment to MeasurementBasedApproach</p>	[ Name is uncertaintyCalculationsAssessment. Direction is 'Source -> Destination'. ]
<p>⇒ Aggregation from MeasurementPointEmissionDetermination to MeasurementBasedApproach</p>	[ Name is emissionDetermination. Direction is 'Source -> Destination'. ]
<p>⇒ Aggregation from LaboratoryAnalysis to MeasurementBasedApproach</p>	[ Name is analysis. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
<p>◆ reference : string(20) Private</p>	

ATTRIBUTES	
Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 description : string(1000) Private 9a  Properties: xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanApproach/MeasurementApproach	[ Is static False. Containment is Not Specified. ]
 calculationFormulasProcedure : Procedure Private F11a	[ Is static False. Containment is Not Specified. ]
 referencePeriodsProcedure : Procedure Private F11b	[ Is static False. Containment is Not Specified. ]
 flueGasCalculationProcedure : Procedure Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) F11c	[ Is static False. Containment is Not Specified. ]
 biomassEmissionDeterminationProcedure : Procedure Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) F11d	[ Is static False. Containment is Not Specified. ]
 corroboratingCalculationProcedure : Procedure Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) F11e	[ Is static False. Containment is Not Specified. ]
 furtherProcedure : Procedure Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.3.3.29 MeasurementPoint

*Class in package 'MP'*

MeasurementPoint  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/01/2015. Last modified 21/08/2015  
 Extends MeasurementPoint

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from MeasurementPoint to MeasurementPoint	[ Direction is 'Source -> Destination'. ]
← Aggregation from MeasurementPoint to Installation	[ Name is measurementPoint. Direction is 'Source -> Destination'. ]

CONNECTORS	
↗ Usage reference Source -> Destination From: MonitoringPlanMeasurementPoint : Class, Public To: MeasurementPoint : Class, Public	
↗ Usage reference Source -> Destination From: MeasurementPoint : Class, Public To: MeasurementPoint : Class, Public	

ATTRIBUTES	
◆ estimatedAnnualEmission : float(4) Private	
Properties: inst/mp = 6d xetl/mp = InstallationOperationDetails/InstallationDescription/MeasurementPoint/EstimatedEmissions	[ Is static False. Containment is Not Specified. ]

ASSOCIATIONS	
↗ Association (direction: Unspecified) emissionPointReference Source: Public (Class) MeasurementPoint Cardinality: [0..*]	Target: Public (Class) EmissionPoint Cardinality: [1]
↗ Association (direction: Unspecified) measurementPointReference Source: Public (Class) MeasurementPointDerivedData Cardinality: [0..1]	Target: Public (Class) MeasurementPoint Cardinality: [1]
↗ Association (direction: Unspecified) measurementPointReference Source: Public (Class) MeasurementPointEmissionDetermination Cardinality: [1]	Target: Public (Class) MeasurementPoint Cardinality: [1]

### 2.3.3.30 MeasurementPointDerivedData

*Class in package 'MP'*

MeasurementPointDerivedData  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 24/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS
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OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from MeasurementPointDerivedData to DerivedData [ Name is measurementPoint. Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]</p>
<p>possibleCategory : MeasurementPointEmissionCategory Private Properties: inst/mp = 6d xetl/mp = InstallationOperationDetails/InstallationDescription/MeasurementPoint/PossibleCategory [ Is static False. Containment is Not Specified. ]</p>
ASSOCIATIONS
<p>Association (direction: Unspecified) measurementPointReference Source: Public (Class) MeasurementPointDerivedData Cardinality: [0..1]      Target: Public (Class) MeasurementPoint Cardinality: [1]</p>

### 2.3.3.31 MeasurementPointEmissionDetermination

Class in package 'MP'

MeasurementPointEmissionDetermination  
Version 1.0 Phase 1.0 Implemented  
swalense created on 20/01/2015. Last modified 07/09/2015  
Extends EmissionDetermination

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from MeasurementPointEmissionDetermination to EmissionDetermination [ Direction is 'Source -&gt; Destination'. ]</p>
<p>← Aggregation from MeasurementPointEmissionDetermination to MeasurementBasedApproach [ Name is emissionDetermination. Direction is 'Source -&gt; Destination'. ]</p>
INCOMING STRUCTURAL RELATIONSHIPS
<p>→ Aggregation from «Document» CalculationFormulae to MeasurementPointEmissionDetermination [ Name is calculationFormulae. Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Aggregation from «Document» ReferencePeriods to MeasurementPointEmissionDetermination [ Name is referencePeriods. Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Aggregation from «Document» CorroboratingCalculations to MeasurementPointEmissionDetermination [ Name is corroboratingCalculations. Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Aggregation from «Document» FlueGasCalculation to MeasurementPointEmissionDetermination</p>

INCOMING STRUCTURAL RELATIONSHIPS
[ Name is flueGasCalculation. Direction is 'Source -> Destination'. ]
<p>➔ Aggregation from «Document» BiomassEmissionDetermination to MeasurementPointEmissionDetermination  [ Name is biomassEmissionDetermination. Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p>◆ tier : MeasurementPrecisionTier Private  10d  [ Is static False. Containment is Not Specified. ]</p>
<p>◆ operationType : MeasurementPointOperationType Private  Multiplicity: ( [1..2], Allow duplicates: 0, Is ordered: False )  10a  [ Is static False. Containment is Not Specified. ]</p>
<p>◆ appliedStandard : string(250) Private  Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: False )  10f  [ Is static False. Containment is Not Specified. ]</p>

ASSOCIATIONS
<p>◆ Association (direction: Unspecified) measurementSetupReference  8b + 10b  Source: Public (Class) MeasurementPointEmissionDetermination  Cardinality: [0..*]  Target: Public (Class) MeasurementSetup  Cardinality: [1..*]</p>
<p>◆ Association (direction: Unspecified) measurementPointReference  Source: Public (Class) MeasurementPointEmissionDetermination  Cardinality: [1]  Target: Public (Class) MeasurementPoint  Cardinality: [1]</p>
<p>◆ Association (direction: Unspecified) measurementPointEmissionDeterminationReference  Source: Public (Class) MeasurementPointEmissionDeterminationDerivedData  Cardinality: [0..1]  Target: Public (Class) MeasurementPointEmissionDetermination  Cardinality: [1]</p>

### 2.3.3.32 MeasurementPointEmissionDeterminationDerivedData

*Class in package 'MP'*

MeasurementPointEmissionDeterminationDerivedData  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 16/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from MeasurementPointEmissionDeterminationDerivedData to DerivedData [ Name is measurementPointEmissionDetermination. Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
<p>reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p>requiredTier : MeasurementPrecisionTier Private</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
ASSOCIATIONS	
<p>Association (direction: Unspecified) measurementPointEmissionDeterminationReference</p> <p>Source: Public (Class) MeasurementPointEmissionDeterminationDerivedData Cardinality: [0..1]</p>	<p>Target: Public (Class) MeasurementPointEmissionDetermination Cardinality: [1]</p>

### 2.3.3.33 MeasurementSetup

Class in package 'MP'

9c

MeasurementSetup  
Version 1.0 Phase 1.0 Implemented  
swalense created on 20/01/2015. Last modified 21/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from MeasurementSetup to MeasurementBasedApproach [ Name is measurementSetup. Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
<p>reference : string(20) Private</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p>frequency : string(100) Private</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
ASSOCIATIONS	
<p>Association (direction: Unspecified) instrumentReference</p> <p>Source: Public (Class) MeasurementSetup Cardinality: [0..1]</p>	<p>Target: Public (Class) MeasurementInstrument Cardinality: [1]</p>

ASSOCIATIONS	
<p>↗ Association (direction: Unspecified) measurementSetupReference</p> <p>8b + 10b</p> <p>Source: Public (Class) MeasurementPointEmissionDetermination Cardinality: [0..*]</p>	<p>Target: Public (Class) MeasurementSetup Cardinality: [1..*]</p>

### 2.3.3.34 MonitoringPlan

Class in package 'MP'

MonitoringPlan  
Version 1.0 Phase 1.0 Implemented  
swalense created on 15/01/2015. Last modified 25/08/2015  
Extends MonitoringPlan

OUTGOING STRUCTURAL RELATIONSHIPS
<p>↖ Generalization from MonitoringPlan to MonitoringPlan</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>

INCOMING STRUCTURAL RELATIONSHIPS
<p>⇒ Aggregation from Laboratory to MonitoringPlan 7e</p> <p>[ Name is laboratory. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from FallbackApproach to MonitoringPlan</p> <p>[ Name is fallbackApproach. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from Operator to MonitoringPlan</p> <p>[ Name is operator. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from StandardCalculationBasedApproach to MonitoringPlan</p> <p>[ Name is standardCalculationBasedApproach. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from MeasurementBasedApproach to MonitoringPlan</p> <p>[ Name is measurementBasedApproach. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from PFCCalculationBasedApproach to MonitoringPlan</p> <p>[ Name is PFCCalculationBasedApproach. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from CO2TransferApproach to MonitoringPlan</p> <p>[ Name is CO2TransferApproach. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from «Document» RiskAssessment to MonitoringPlan</p> <p>[ Name is riskAssessment. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from Installation to MonitoringPlan</p> <p>[ Name is installation. Direction is 'Source -&gt; Destination'. ]</p>

**INCOMING STRUCTURAL RELATIONSHIPS**

➔ Aggregation from DerivedData to MonitoringPlan

[ Name is derivedData. Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

◆ lowEmitter : boolean Private

Properties:

inst/mp = 5e

xetl/mp = InstallationOperationDetails/InstallationDescription/LowEmitter

[ Is static False. Containment is Not Specified. ]

◆ lowEmitterJustification : string(1000) Private

Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )

Properties:

inst/mp = 5f

xetl/mp = InstallationOperationDetails/InstallationDescription/EmissionsEstimationJustification

[ Is static False. Containment is Not Specified. ]

◆ dataFlowITQAProcedure : Procedure Private

22c

[ Is static False. Containment is Not Specified. ]

◆ changeProcedure : Procedure Private

Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )

[ Is static False. Containment is Not Specified. ]

◆ furtherProcedure : Procedure Private

Multiplicity: ( [0..\*], Allow duplicates: 0, Is ordered: False )

25

[ Is static False. Containment is Not Specified. ]

◆ furtherComments : string(2000) Private

Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )

26

[ Is static False. Containment is Not Specified. ]

**2.3.3.35 N2OMonitoring**

*Class in package 'MP'*

N2OMonitoring  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/01/2015. Last modified 25/08/2015

**OUTGOING STRUCTURAL RELATIONSHIPS**

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from N2OMonitoring to MeasurementBasedApproach  
 [ Name is N2OMonitoring. Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

reference : string(20) Private  
 Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  
 [ Is static False. Containment is Not Specified. ]

materialDeterminationProcedure : Procedure Private  
 13a  
 [ Is static False. Containment is Not Specified. ]

productionDeterminationProcedure : Procedure Private  
 13b  
 [ Is static False. Containment is Not Specified. ]

flueGasConcentrationProcedure : Procedure Private  
 13c  
 [ Is static False. Containment is Not Specified. ]

periodicUnabatedSourcesProcedure : Procedure Private  
 13d  
 [ Is static False. Containment is Not Specified. ]

furtherProcedure : Procedure Private  
 Multiplicity: ( [0..\*], Allow duplicates: 0, Is ordered: False )  
 [ Is static False. Containment is Not Specified. ]



variableLoadsProcedure : Procedure Private  
 [ Is static False. Containment is Not Specified. ]

deviationDescription : string(1000) Private  
 13f  
 [ Is static False. Containment is Not Specified. ]

**2.3.3.36 NetCalorificValue**

*Class in package 'MP'*

NetCalorificValue  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/06/2015. Last modified 29/10/2015  
 Extends TieredCalculationFactor






OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from NetCalorificValue to TieredCalculationFactor	[ Direction is 'Source -> Destination'. ]
ATTRIBUTES	
 unit : NetCalorificValueUnit Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]


### 2.3.3.37 NonETSActivity

Class in package 'MP'

C5g

NonETSActivity  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 19/01/2015. Last modified 21/08/2015



OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from NonETSActivity to Installation	[ Name is nonETSActivity. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 emissionPoint : string(250) Private Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: False )  Properties: inst/mp = 6g xetl/mp = InstallationOperationDetails/InstallationDescription/ExcludedFromETSReport/EmissionPointName	[ Is static False. Containment is Not Specified. ]
 emissionSource : string(250) Private Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: False )  Properties: inst/mp = 6g xetl/mp = InstallationOperationDetails/InstallationDescription/ExcludedFromETSReport/EmissionSourceName	[ Is static False. Containment is Not Specified. ]
 sourceStream : string(250) Private Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: False )  Properties: inst/mp = 6g xetl/mp = InstallationOperationDetails/InstallationDescription/ExcludedFromETSReport/SourceStreamName	[ Is static False. Containment is Not Specified. ]


ATTRIBUTES	
ASSOCIATIONS	
 Association (direction: Unspecified) emissionSourceReference Source: Public (Class) NonETSActivity Cardinality: [0..*]	Target: Public (Class) EmissionSource Cardinality: [0..1]

### 2.3.3.38 Operator

Class in package 'MP'

Operator  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 14/01/2015. Last modified 25/08/2015  
 Extends Operator


OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from Operator to MonitoringPlan	[ Name is operator. Direction is 'Source -> Destination'. ]
 Generalization from Operator to Operator	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
 competentAuthority : string(250) Private  2a  Properties: inst/mp = 2a xetl/mp = PermitDetails/CompetentAuthority	[ Is static False. Containment is Not Specified. ]

### 2.3.3.39 OvervoltageCoefficient

Class in package 'MP'

OvervoltageCoefficient  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/06/2015. Last modified 29/10/2015  
 Extends TieredCalculationFactor

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from OvervoltageCoefficient to TieredCalculationFactor	[ Direction is 'Source -> Destination'. ]



### 2.3.3.40 OvervoltagePFCEmissionCalculation

Class in package 'MP'

OvervoltagePFCEmissionCalculation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/06/2015. Last modified 14/08/2015  
Extends SourceStreamPFCEmissionCalculation

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from OvervoltagePFCEmissionCalculation to SourceStreamPFCEmissionCalculation [ Direction is 'Source -&gt; Destination'. ]</p>
INCOMING STRUCTURAL RELATIONSHIPS
<p>⇒ Aggregation from PFCCalculationFactorDetails to OvervoltagePFCEmissionCalculation [ Name is aeOvervoltage. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from PFCCalculationFactorDetails to OvervoltagePFCEmissionCalculation [ Name is currentEfficiency. Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>♦ ovC : OvervoltageCoefficient Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  15r  Constraints: for overvoltage method (activity) :  [ Is static False. Containment is Not Specified. ]</p>

### 2.3.3.41 OxidationFactor

Class in package 'MP'

OxidationFactor  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/06/2015. Last modified 29/10/2015  
Extends TieredCalculationFactor

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from OxidationFactor to TieredCalculationFactor [ Direction is 'Source -&gt; Destination'. ]</p>

### 2.3.3.42 PFCActivityDataDetails

Class in package 'MP'

PFCActivityDataDetails  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 17/09/2015. Last modified 29/10/2015

Extends PFCCalculationFactorDetails

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from PFCActivityDataDetails to PFCCalculationFactorDetails	[ Direction is 'Source -> Destination'. ]
← Aggregation from PFCActivityDataDetails to SourceStreamPFCEmissionCalculation	[ Name is activityData. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
reference : string(20) Private	[ Is static False. Containment is Not Specified. ]
ASSOCIATIONS	
✍ Association (direction: Unspecified) PFCActivityDataDetailsReference	
Source: Public (Class) PFCActivityDataDetailsDerivedData Cardinality: [0..1]	Target: Public (Class) PFCActivityDataDetails Cardinality: [1]

### 2.3.3.43 PFCActivityDataDetailsDerivedData

Class in package 'MP'

PFCActivityDataDetailsDerivedData  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/06/2015. Last modified 17/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from PFCActivityDataDetailsDerivedData to DerivedData	[ Name is PFCActivityDataDetails. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
requiredTier : PFCPrecision Private	[ Is static False. Containment is Not Specified. ]
ASSOCIATIONS	
✍ Association (direction: Unspecified) PFCActivityDataDetailsReference	
Source: Public (Class) PFCActivityDataDetailsDerivedData Cardinality: [0..1]	Target: Public (Class) PFCActivityDataDetails Cardinality: [1]

### 2.3.3.44 PFCCalculationBasedApproach

Class in package 'MP'

PFCCalculationBasedApproach  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/01/2015. Last modified 14/08/2015  
Extends CalculationBasedApproach

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from PFCCalculationBasedApproach to MonitoringPlan [ Name is PFCCalculationBasedApproach. Direction is 'Source -&gt; Destination'. ]</p>
<p>← Generalization from PFCCalculationBasedApproach to CalculationBasedApproach [ Direction is 'Source -&gt; Destination'. ]</p>
INCOMING STRUCTURAL RELATIONSHIPS
<p>→ Aggregation from SourceStreamPFCEmissionCalculation to PFCCalculationBasedApproach [ Name is emissionDetermination. Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Aggregation from «Document» ProcessDiagram to PFCCalculationBasedApproach [ Name is processDiagram. Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>◆ measurementScheduleProcedure : Procedure Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  16a  [ Is static False. Containment is Not Specified. ]</p>
<p>◆ specificEmissionFactorsDeterminationProcedure : Procedure Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  16b  [ Is static False. Containment is Not Specified. ]</p>
<p>◆ collectionEfficiencyDeterminationProcedure : Procedure Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  16c  [ Is static False. Containment is Not Specified. ]</p>

### 2.3.3.45 PFCCalculationFactorDetails

Class in package 'MP'

PFCCalculationFactorDetails  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/01/2015. Last modified 14/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from PFCCalculationFactorDetails to SlopePFCEmissionCalculation [ Name is aeFrequency. Direction is 'Source -&gt; Destination'. ]</p>
<p>← Aggregation from PFCCalculationFactorDetails to SlopePFCEmissionCalculation [ Name is aeDuration. Direction is 'Source -&gt; Destination'. ]</p>
<p>← Aggregation from PFCCalculationFactorDetails to OvervoltagePFCEmissionCalculation [ Name is aeOvervoltage. Direction is 'Source -&gt; Destination'. ]</p>
<p>← Aggregation from PFCCalculationFactorDetails to OvervoltagePFCEmissionCalculation [ Name is currentEfficiency. Direction is 'Source -&gt; Destination'. ]</p>

INCOMING STRUCTURAL RELATIONSHIPS
<p>→ Generalization from PFCActivityDataDetails to PFCCalculationFactorDetails [ Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p>reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]</p>
<p>tier : PFCPrecision Private 15c + 15f + 15i + 15l + 15o [ Is static False. Containment is Not Specified. ]</p>
<p>uncertaintyAchieved : float(2) Private 15d + 15g + 15j + 15m + 15p [ Is static False. Containment is Not Specified. ]</p>
<p>uncertaintyComment : string(1000) Private 15d + 15g + 15j + 15m + 15p [ Is static False. Containment is Not Specified. ]</p>

### 2.3.3.46 PipelineSystems

*Class in package 'MP'*

PipelineSystems  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/01/2015. Last modified 07/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS
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**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from PipelineSystems to CO2TransferApproach  
 [ Name is pipelineSystems. Direction is 'Source -> Destination'. ]

**INCOMING STRUCTURAL RELATIONSHIPS**

→ Aggregation from «Document» DetailedMeasurementDescription to PipelineSystems  
 [ Name is detailedMeasurementDescription. Direction is 'Source -> Destination'. ]

→ Aggregation from BaseMeasurementInstrument to PipelineSystems  
 [ Name is temperatureOrPressureMeasurementInstrument. Direction is 'Source -> Destination'. ]

→ Aggregation from «Document» UncertaintyAnalysis to PipelineSystems  
 [ Name is uncertaintyAnalysis. Direction is 'Source -> Destination'. ]

**ATTRIBUTES**



reference : string(20) Private  
 Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  
 [ Is static False. Containment is Not Specified. ]

monitoringMethod : TransportNetworkMonitoringMethod Private  
 18a  
 Properties:  
 xetl/mp = InstallationOperationDetails/MonitoringPlans/TransferredCO2/TransferViaPipeline/MonitoringType  
 [ Is static False. Containment is Not Specified. ]

leakageProcedure : Procedure Private  
 Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  
 18e  
 Properties:  
 xetl/mp =  
 InstallationOperationDetails/MonitoringPlans/TransferredCO2/TransferViaPipeline/LeakageManagementProcedure  
 [ Is static False. Containment is Not Specified. ]

validRecipientProcedure : Procedure Private  
 Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  
 18f  
 [ Is static False. Containment is Not Specified. ]



resultValidationProcedure : Procedure Private  
 Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  
 18g  
 Constraints:  
 for method\_b :  
 Properties:


ATTRIBUTES
<p>xetl/mp = InstallationOperationDetails/MonitoringPlans/TransferredCO2/TransferViaPipeline/MethodBValidationProcedure [ Is static False. Containment is Not Specified. ]</p>
<p> fugitiveEmissionsProcedure : Procedure Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>18h</p> <p>Constraints: for method_b :</p> <p>Properties: xetl/mp = InstallationOperationDetails/MonitoringPlans/TransferredCO2/TransferViaPipeline/FugitiveEmissionDeterminingProcedure [ Is static False. Containment is Not Specified. ]</p>
<p> ventedEmissionsProcedure : Procedure Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>18i</p> <p>Constraints: for method_b :</p> <p>Properties: xetl/mp = InstallationOperationDetails/MonitoringPlans/TransferredCO2/TransferViaPipeline/VentedEmissionDeterminationProcedure [ Is static False. Containment is Not Specified. ]</p>

### 2.3.3.47 PrimaryAluminiumSourceStream

Class in package 'MP'

PrimaryAluminiumSourceStream  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/01/2015. Last modified 08/09/2015  
Extends StandardSourceStream


OUTGOING STRUCTURAL RELATIONSHIPS
<p> Generalization from PrimaryAluminiumSourceStream to StandardSourceStream [ Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p> cellType : AluminiumCellType Private</p> <p>14c</p> <p>Properties: xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataPFC/CellType [ Is static False. Containment is Not Specified. ]</p>



ASSOCIATIONS	
 Association (direction: Unspecified) sourceStreamReference Source: Public (Class) SourceStreamPFCEmissionCalculation Cardinality: [0..*]	Target: Public (Class) PrimaryAluminiumSourceStream Cardinality: [1]

### 2.3.3.48 ProcessEmissionCalculation

Class in package 'MP'

ProcessEmissionCalculation  
 Version 1.0 Phase 1.0 Implemented  
 SWALENSE created on 15/06/2015. Last modified 14/08/2015  
 Extends SourceStreamEmissionCalculation


OUTGOING STRUCTURAL RELATIONSHIPS
 Generalization from ProcessEmissionCalculation to SourceStreamEmissionCalculation [ Direction is 'Source -> Destination'. ]

ATTRIBUTES
 ef : EmissionFactor Private Properties: xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedProcess/EmissionFactor [ Is static False. Containment is Not Specified. ]
 convF : ConversionFactor Private Properties: xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedProcess/ConversionFactor [ Is static False. Containment is Not Specified. ]

### 2.3.3.49 SlopeEmissionFactor

Class in package 'MP'

SlopeEmissionFactor  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/06/2015. Last modified 29/10/2015  
 Extends TieredCalculationFactor

OUTGOING STRUCTURAL RELATIONSHIPS
 Generalization from SlopeEmissionFactor to TieredCalculationFactor [ Direction is 'Source -> Destination'. ]

### 2.3.3.50 SlopePFCEmissionCalculation

Class in package 'MP'

SlopePFCEmissionCalculation  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/06/2015. Last modified 14/08/2015  
 Extends SourceStreamPFCEmissionCalculation

#### OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from SlopePFCEmissionCalculation to SourceStreamPFCEmissionCalculation  
 [ Direction is 'Source -> Destination'. ]

#### INCOMING STRUCTURAL RELATIONSHIPS

→ Aggregation from PFCCalculationFactorDetails to SlopePFCEmissionCalculation  
 [ Name is aeFrequency. Direction is 'Source -> Destination'. ]

→ Aggregation from PFCCalculationFactorDetails to SlopePFCEmissionCalculation  
 [ Name is aeDuration. Direction is 'Source -> Destination'. ]

#### ATTRIBUTES

◆ sEF : SlopeEmissionFactor Private  
 Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )

15r

Constraints:  
 for slope method (activity) : Invariant

[ Is static False. Containment is Not Specified. ]

### 2.3.3.51 SourceStream

*Class in package 'MP'*

SourceStream  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/01/2015. Last modified 25/09/2015  
 Extends SourceStream

#### OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from SourceStream to SourceStream  
 [ Direction is 'Source -> Destination'. ]

← Aggregation from SourceStream to Installation  
 [ Name is sourceStream. Direction is 'Source -> Destination'. ]

#### INCOMING STRUCTURAL RELATIONSHIPS

→ Generalization from StandardSourceStream to SourceStream  
 [ Direction is 'Source -> Destination'. ]



INCOMING STRUCTURAL RELATIONSHIPS	
Generalization from CorroboratingSourceStream to SourceStream	[ Direction is 'Source -> Destination'. ]

CONNECTORS	
<b>Usage</b> reference Source -> Destination From: SourceStream : Class, Public To: SourceStream : Class, Public	
<b>Usage</b> reference Source -> Destination From: MonitoringPlanSourceStream : Class, Public To: SourceStream : Class, Public	

ATTRIBUTES	
Properties: inst/mp = 6e xetl/mp = InstallationOperationDetails/InstallationDescription/SourceStreamDetails/SourceStreamName xetl/r = Installation/EmissionReportDetails/InstallationReport/SourceStreamDetails/SourceStreamName [ Is static False. Containment is Not Specified. ]	name : string(100) Private

ASSOCIATIONS	
Source: Public (Class) SourceStream Cardinality: [1]	Association (direction: Unspecified) sourceStreamReference Target: Public (Class) SourceStreamEmissionCalculation Cardinality: [0..*]
Source: Public (Class) SourceStreamDerivedData Cardinality: [0..1]	Association (direction: Unspecified) sourceStreamReference Target: Public (Class) SourceStream Cardinality: [1]
Source: Public (Class) Configuration Cardinality: [1..*]	Association (direction: Unspecified) sourceStreamReference Target: Public (Class) SourceStream Cardinality: [0..1]

### 2.3.3.52 SourceStreamDerivedData

Class in package 'MP'

SourceStreamDerivedData  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 17/06/2015. Last modified 24/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
Aggregation from SourceStreamDerivedData to DerivedData	[ Name is sourceStream. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
<p>reference : string(20) Private                      Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p>	[ Is static False. Containment is Not Specified. ]
<p>requiredEmissionCategory : SourceStreamEmissionCategory Private                      Properties:                      inst/mp = 6f</p>	[ Is static False. Containment is Not Specified. ]

ASSOCIATIONS	
<p>Association (direction: Unspecified) sourceStreamReference</p>	
<p>Source: Public (Class) SourceStreamDerivedData                      Cardinality: [0..1]</p>	<p>Target: Public (Class) SourceStream                      Cardinality: [1]</p>

### 2.3.3.53 SourceStreamEmissionCalculation



Class in package 'MP'




SourceStreamEmissionCalculation  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 19/01/2015. Last modified 07/09/2015  
 Extends EmissionDetermination

OUTGOING STRUCTURAL RELATIONSHIPS	
<p>← Aggregation from SourceStreamEmissionCalculation to StandardCalculationBasedApproach                      [ Name is emissionDetermination. Direction is 'Source -&gt; Destination'. ]</p>	
<p>← Generalization from SourceStreamEmissionCalculation to EmissionDetermination                      [ Direction is 'Source -&gt; Destination'. ]</p>	

INCOMING STRUCTURAL RELATIONSHIPS	
<p>⇒ Aggregation from «Document» EOYStockPilesProcedure to SourceStreamEmissionCalculation                      [ Name is eoyStockPilesProcedure. Direction is 'Unspecified'. ]</p>	
<p>⇒ Generalization from CombustionEmissionCalculation to SourceStreamEmissionCalculation                      [ Direction is 'Source -&gt; Destination'. ]</p>	
<p>⇒ Generalization from ProcessEmissionCalculation to SourceStreamEmissionCalculation                      [ Direction is 'Source -&gt; Destination'. ]</p>	
<p>⇒ Generalization from MassBalanceEmissionCalculation to SourceStreamEmissionCalculation                      [ Direction is 'Source -&gt; Destination'. ]</p>	

ATTRIBUTES	




ATTRIBUTES	
<p> activityDataAppliedTier : ActivityDataTier Private            Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>8d</p> <p>Properties:            xetl/mp = ActivityDataUsedType/AppliedTier</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p> activityDataDeterminationMethod : DataDeterminationMethod Private</p> <p>8ai</p> <p>[ Is static False. Containment is Not Specified. ]</p>	

ASSOCIATIONS	
<p> Association (direction: Unspecified) sourceStreamEmissionCalculationReference</p> <p>Source: Public (Class) SourceStreamEmissionCalculationDerivedData            Cardinality: [0..1]</p> <p>Target: Public (Class) SourceStreamEmissionCalculation            Cardinality: [1]</p>	
<p> Association (direction: Unspecified) sourceStreamReference</p> <p>Source: Public (Class) SourceStream            Cardinality: [1]</p> <p>Target: Public (Class) SourceStreamEmissionCalculation            Cardinality: [0..*]</p>	
<p> Association (direction: Unspecified) activityDataMeasurementInstrumentReference</p> <p>Source: Public (Class) ActivityDataMeasurementInstrument            Cardinality: [1..*]</p> <p>Target: Public (Class) SourceStreamEmissionCalculation            Cardinality: [0..*]</p>	


### 2.3.3.54 SourceStreamEmissionCalculationDerivedData

*Class in package 'MP'*

SourceStreamEmissionCalculationDerivedData  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 17/06/2015. Last modified 24/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
<p> Aggregation from SourceStreamEmissionCalculationDerivedData to DerivedData            [ Name is sourceStreamEmissionCalculation. Direction is 'Source -&gt; Destination'. ]</p>	
ATTRIBUTES	
<p> reference : string(20) Private            Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p> requiredActivityDataTier : ActivityDataTier Private</p>	


ATTRIBUTES	
Properties: xetl/mp = ActivityDataUsedType/RequiredTier	[ Is static False. Containment is Not Specified. ]




ASSOCIATIONS	
 Association (direction: Unspecified) sourceStreamEmissionCalculationReference	
Source: Public (Class) SourceStreamEmissionCalculationDerivedData Cardinality: [0..1]	Target: Public (Class) SourceStreamEmissionCalculation Cardinality: [1]




### 2.3.3.55 SourceStreamPFCEmissionCalculation



Class in package 'MP'


SourceStreamPFCEmissionCalculation  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 28/01/2015. Last modified 07/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from SourceStreamPFCEmissionCalculation to PFCCalculationBasedApproach [ Name is emissionDetermination. Direction is 'Source -> Destination'. ]	

INCOMING STRUCTURAL RELATIONSHIPS	
 Aggregation from PFCActivityDataDetails to SourceStreamPFCEmissionCalculation [ Name is activityData. Direction is 'Source -> Destination'. ]	
 Generalization from SlopePFCEmissionCalculation to SourceStreamPFCEmissionCalculation [ Direction is 'Source -> Destination'. ]	
 Generalization from OvervoltagePFCEmissionCalculation to SourceStreamPFCEmissionCalculation [ Direction is 'Source -> Destination'. ]	

ATTRIBUTES	
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 comment : string(1000) Private Multiplicity: ( [0..*], Allow duplicates: 0, Is ordered: False )  15t	[ Is static False. Containment is Not Specified. ]
 tierJustification : string(1000) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]



ATTRIBUTES	
<p> collectionEfficiency : CollectionEfficiency Private</p> <p>15s</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p> C2F6WeightFraction : C2F6WeightFraction Private</p> <p>15r</p> <p>[ Is static False. Containment is Not Specified. ]</p>	


ASSOCIATIONS	
<p> Association (direction: Unspecified) sourceStreamReference</p> <p>Source: Public (Class) SourceStreamPFCEmissionCalculation Cardinality: [0..*]</p>	<p>Target: Public (Class) PrimaryAluminiumSourceStream Cardinality: [1]</p>

### 2.3.3.56 StandardCalculationBasedApproach

*Class in package 'MP'*

StandardCalculationBasedApproach  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/06/2015. Last modified 14/08/2015  
Extends CalculationBasedApproach

OUTGOING STRUCTURAL RELATIONSHIPS
<p> Aggregation from StandardCalculationBasedApproach to MonitoringPlan [ Name is standardCalculationBasedApproach. Direction is 'Source -&gt; Destination'. ]</p>
<p> Generalization from StandardCalculationBasedApproach to CalculationBasedApproach [ Direction is 'Source -&gt; Destination'. ]</p>

INCOMING STRUCTURAL RELATIONSHIPS
<p> Aggregation from SourceStreamEmissionCalculation to StandardCalculationBasedApproach [ Name is emissionDetermination. Direction is 'Source -&gt; Destination'. ]</p>

### 2.3.3.57 StandardSourceStream

*Class in package 'MP'*

StandardSourceStream  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 25/09/2015. Last modified 29/10/2015  
Extends SourceStream

OUTGOING STRUCTURAL RELATIONSHIPS
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OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from StandardSourceStream to SourceStream [ Direction is 'Source -&gt; Destination'. ]</p>
INCOMING STRUCTURAL RELATIONSHIPS
<p>→ Generalization from PrimaryAluminiumSourceStream to StandardSourceStream [ Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>estimatedAnnualEmission : float(4) Private</p> <p>Properties: inst/mp = 6f xetl/mp = InstallationOperationDetails/InstallationDescription/SourceStreamDetails/SourceStreamEmissionsEstimate [ Is static False. Containment is Not Specified. ]</p>
<p>emissionCategory : SourceStreamEmissionCategory Private</p> <p>Properties: inst/mp = 6f xetl/mp = InstallationOperationDetails/InstallationDescription/SourceStreamDetails/SourceStreamClassification xetl/r = Installation/EmissionReportDetails/InstallationReport/SourceStreamDetails/SourceStreamCategory [ Is static False. Containment is Not Specified. ]</p>

### 2.3.3.58 TieredCalculationFactor

Class in package 'MP'

TieredCalculationFactor  
Version 1.0 Phase 1.0 Implemented  
swalense created on 20/01/2015. Last modified 29/10/2015  
Extends CalculationFactor

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from TieredCalculationFactor to CalculationFactor [ Direction is 'Source -&gt; Destination'. ]</p>
INCOMING STRUCTURAL RELATIONSHIPS
<p>→ Generalization from C2F6WeightFraction to TieredCalculationFactor [ Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Generalization from SlopeEmissionFactor to TieredCalculationFactor [ Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Generalization from OvervoltageCoefficient to TieredCalculationFactor [ Direction is 'Source -&gt; Destination'. ]</p>
<p>→ Generalization from NetCalorificValue to TieredCalculationFactor [ Direction is 'Source -&gt; Destination'. ]</p>

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Generalization from OxidationFactor to TieredCalculationFactor	[ Direction is 'Source -> Destination'. ]
➔ Generalization from EmissionFactor to TieredCalculationFactor	[ Direction is 'Source -> Destination'. ]
➔ Generalization from BiomassFraction to TieredCalculationFactor	[ Direction is 'Source -> Destination'. ]
➔ Generalization from ConversionFactor to TieredCalculationFactor	[ Direction is 'Source -> Destination'. ]
➔ Generalization from CarbonContent to TieredCalculationFactor	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
🔹 reference : string(20) Private	[ Is static False. Containment is Not Specified. ]
🔹 tier : Tier Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

ASSOCIATIONS	
<p>🔹 Association (direction: Unspecified) calculationFactorReference</p> <p>Source: Public (Class) CalculationFactorDerivedData Cardinality: [0..1]</p> <p>Target: Public (Class) TieredCalculationFactor Cardinality: [1]</p>	

## 2.3.5 Report

Package in package 'Installation'

Report  
Version 1.0 Phase 1.0 Proposed  
swalense created on 04/02/2015. Last modified 13/02/2015  
Alias

### 2.3.5.1 Activity

Class in package 'Report'

Activity  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/02/2015. Last modified 11/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from Activity to Installation	[ Name is activity. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from AdditionalActivity to Activity	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from MonitoringPlanActivity to Activity	[ Direction is 'Source -> Destination'. ]
ATTRIBUTES	
<p>◆ crfCategory : CRFCategory Private Multiplicity: ( [1..2], Allow duplicates: 0, Is ordered: True )</p> <p>Properties: inst/r = 6 xetl = xetl = Installation/EmissionReportDetails/InstallationReport/ActivityEmissions/CRFCategory1, Installation/EmissionReportDetails/InstallationReport/ActivityEmissions/CRFCategory2</p>	[ Is static False. Containment is Not Specified. ]
ASSOCIATIONS	
<p>✍ Association (direction: Unspecified) activityReference</p> <p>Source: Public (Class) AdditionalSourceStream Cardinality: [1..*]</p>	<p>Target: Public (Class) Activity Cardinality: [1]</p>

### 2.3.5.2 AdditionalActivity

Class in package 'Report'



AdditionalActivity  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 18/02/2015. Last modified 11/08/2015  
 Extends Activity

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from AdditionalActivity to Activity	[ Direction is 'Source -> Destination'. ]
← Generalization from AdditionalActivity to Activity	[ Direction is 'Source -> Destination'. ]

### 2.3.5.3 AdditionalMeasurementPoint

*Class in package 'Report'*

AdditionalMeasurementPoint  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 18/02/2015. Last modified 11/08/2015  
 Extends MeasurementPoint

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from AdditionalMeasurementPoint to MeasurementPoint	[ Direction is 'Source -> Destination'. ]
← Generalization from AdditionalMeasurementPoint to MeasurementPoint	[ Direction is 'Source -> Destination'. ]

### 2.3.5.4 AdditionalSourceStream

*Class in package 'Report'*

AdditionalSourceStream  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 18/02/2015. Last modified 11/08/2015  
 Extends SourceStream

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from AdditionalSourceStream to SourceStream	[ Direction is 'Source -> Destination'. ]
← Generalization from AdditionalSourceStream to SourceStream	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
→ Generalization from CorroboratingSourceStream to AdditionalSourceStream	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
<p>◆ name : string(100) Private            Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties:            inst/r = 7b            xetl = Installation/EmissionReportDetails/InstallationReport/SourceStreamDetails/SourceStreamName            [ Is static False. Containment is Not Specified. ]</p>	
ASSOCIATIONS	
<p>◆ Association (direction: Unspecified) activityReference</p> <p>Source: Public (Class) AdditionalSourceStream            Cardinality: [1..*]</p>	<p>Target: Public (Class) Activity            Cardinality: [1]</p>

### 2.3.5.5 AggregateBiomassSummary

*Class in package 'Report'*

AggregateBiomassSummary  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 28/05/2015. Last modified 10/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
<p>← Aggregation from AggregateBiomassSummary to AggregateEmissionSummary</p>	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
<p>◆ emissionCO2Biomass : float(5) Private</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ emissionCO2NonSustBiomass : float(5) Private</p>	[ Is static False. Containment is Not Specified. ]
<p>◆ energyContentBiomass : float(5) Private</p>	[ Is static False. Containment is Not Specified. ]

### 2.3.5.6 AggregateEmissionSummary

*Class in package 'Report'*

AggregateEmissionSummary  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 28/05/2015. Last modified 10/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
<p>← Aggregation from AggregateEmissionSummary to ReportSummary</p>	[ Name is total. Direction is 'Source -> Destination'. ]

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from AggregateEmissionSummary to ReportSummary [ Name is measuredCO2Transfer. Direction is 'Source -> Destination'. ]	
← Aggregation from AggregateEmissionSummary to ReportSummary [ Name is massBalance. Direction is 'Source -> Destination'. ]	
← Aggregation from AggregateEmissionSummary to ReportSummary [ Name is combustion. Direction is 'Source -> Destination'. ]	
← Aggregation from AggregateEmissionSummary to ReportSummary [ Name is fallback. Direction is 'Source -> Destination'. ]	
← Aggregation from AggregateEmissionSummary to ReportSummary [ Name is process. Direction is 'Source -> Destination'. ]	
INCOMING STRUCTURAL RELATIONSHIPS	
→ Generalization from GHGAggregateEmissionSummary to AggregateEmissionSummary [ Direction is 'Source -> Destination'. ]	
→ Aggregation from AggregateBiomassSummary to AggregateEmissionSummary [ Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ emissionCO2e : float(5) Private	[ Is static False. Containment is Not Specified. ]
◆ emissionCO2eFossil : float(5) Private	[ Is static False. Containment is Not Specified. ]
◆ energyContentFossil : float(5) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.3.5.7 AnodeEffectDuration

*Class in package 'Report'*

AnodeEffectDuration  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 29/05/2015. Last modified 29/10/2015  
 Extends CalculationFactor

#### OUTGOING STRUCTURAL RELATIONSHIPS

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from AnodeEffectDuration to CalculationFactor

[ Direction is 'Source -> Destination'. ]

**2.3.5.8 AnodeEffectFrequency**

*Class in package 'Report'*

AnodeEffectFrequency  
Version 1.0 Phase 1.0 Implemented  
swalense created on 29/05/2015. Last modified 29/10/2015  
Extends CalculationFactor

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from AnodeEffectFrequency to CalculationFactor

[ Direction is 'Source -> Destination'. ]

**2.3.5.9 AnodeEffectOvervoltage**

*Class in package 'Report'*

AnodeEffectOvervoltage  
Version 1.0 Phase 1.0 Implemented  
swalense created on 29/05/2015. Last modified 29/10/2015  
Extends CalculationFactor

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from AnodeEffectOvervoltage to CalculationFactor

[ Direction is 'Source -> Destination'. ]

**2.3.5.10 BiomassFraction**

*Class in package 'Report'*

BiomassFraction  
Version 1.0 Phase 1.0 Implemented  
swalense created on 29/05/2015. Last modified 29/10/2015  
Extends CalculationFactor

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from BiomassFraction to CalculationFactor

[ Direction is 'Source -> Destination'. ]

**2.3.5.11 BiomassFractions**

*Class in package 'Report'*

BiomassFractions  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/05/2015. Last modified 02/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from BiomassFractions to CombustionCalculatedEmission	[ Direction is 'Source -> Destination'. ]
← Aggregation from BiomassFractions to MassBalanceCalculatedEmission	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
♦ biomass : BiomassFraction Private	[ Is static False. Containment is Not Specified. ]
♦ nonSustBiomass : NonSustBiomassFraction Private	[ Is static False. Containment is Not Specified. ]

### 2.3.5.12 C2F6WeightFraction

*Class in package 'Report'*

C2F6WeightFraction  
Version 1.0 Phase 1.0 Implemented  
swalense created on 29/05/2015. Last modified 29/10/2015  
Extends DefaultableCalculationFactor

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from C2F6WeightFraction to DefaultableCalculationFactor	[ Direction is 'Source -> Destination'. ]

### 2.3.5.13 CO2MeasuredEmission



*Class in package 'Report'*

CO2MeasuredEmission  
Version 1.0 Phase 1.0 Implemented  
swalense created on 21/04/2015. Last modified 02/07/2015  
Extends MeasuredEmission

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from CO2MeasuredEmission to MeasuredEmission	[ Direction is 'Source -> Destination'. ]


INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from MeasuredEmissionDetails to CO2MeasuredEmission	[ Name is biomass. Direction is 'Source -> Destination'. ]


ATTRIBUTES
<p> <b>fractionBiomass</b> : float(2) Private</p> <p>Properties:  inst/r = 9a  xetl =  InstallationEmissionsReportDetails/EmissionsReportCO2Details/MeasurementProcess/CO2CEMSType/BiogenicCO2  [ Is static False. Containment is Not Specified. ]</p>
<p> <b>fractionNonSubstBiomass</b> : float(2) Private</p> <p>Properties:  inst/r = 9a  xetl = InstallationEmissionsReportDetails/EmissionsReportCO2Details/MeasurementProcess/CO2CEMSType/Non-sustainableBiogenicCO2  [ Is static False. Containment is Not Specified. ]</p>



### 2.3.5.14 CO2Transfer

*Class in package 'Report'*

CO2Transfer  
Version 1.0 Phase 1.0 Implemented  
swalense created on 27/05/2015. Last modified 15/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p> Aggregation from CO2Transfer to ReportRawData  [ Name is CO2Transfer. Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p> <b>type</b> : CO2TransferType Private</p> <p>Properties:  xetl/mp = InstallationOperationDetails/InstallationDescription/CO2TransferPoint/TypeOfTransfer  xetl/r =  InstallationEmissionsReportDetails/EmissionsReportCO2Details/EmissionsReportTransferredCO2Details/DestinationInstallationDetails/TypeOfTransfer  [ Is static False. Containment is Not Specified. ]</p>

ASSOCIATIONS
<p> Association (direction: Unspecified) <b>emissionReference</b></p> <p>Source: Public (Class) CO2Transfer  Cardinality: [0..1]</p> <p>Target: Public (Class) Emission  Cardinality: [1]</p>
<p> Association (direction: Unspecified) <b>remoteInstallationReference</b></p> <p>Source: Public (Class) RemoteInstallation  Cardinality: [1]</p> <p>Target: Public (Class) CO2Transfer  Cardinality: [1..*]</p>

### 2.3.5.15 CalculatedEmission

Class in package 'Report'

CalculatedEmission  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 13/02/2015. Last modified 02/07/2015  
 Extends Emission

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from CalculatedEmission to Emission	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from StandardCalculatedEmission to CalculatedEmission	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from PFCEmission to CalculatedEmission	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
<p>♦ tierValidity : DateRange Private                      Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties:                      inst/r = 8                      xetl = InstallationEmissionsReportDetails/EmissionsReportCO2Details/CalculationProcess/TierValidFrom,                      InstallationEmissionsReportDetails/EmissionsReportCO2Details/CalculationProcess/TierValidTo</p>	[ Is static False. Containment is Not Specified. ]

ASSOCIATIONS	
<p>✍ Association (direction: Unspecified) sourceStreamReference</p> <p>Source: Public (Class) CalculatedEmission                      Cardinality: [1..*]</p> <p>Target: Public (Class) SourceStream                      Cardinality: [1]</p>	

### 2.3.5.16 CalculationFactor

Class in package 'Report'

CalculationFactor  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 13/02/2015. Last modified 29/10/2015

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from AnodeEffectFrequency to CalculationFactor	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from BiomassFraction to CalculationFactor	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Generalization from NonSustBiomassFraction to CalculationFactor	[ Direction is 'Source -> Destination'. ]
➔ Generalization from EmissionFactor to CalculationFactor	[ Direction is 'Source -> Destination'. ]
➔ Generalization from CurrentEfficiency to CalculationFactor	[ Direction is 'Source -> Destination'. ]
➔ Generalization from AnodeEffectOvervoltage to CalculationFactor	[ Direction is 'Source -> Destination'. ]
➔ Generalization from AnodeEffectDuration to CalculationFactor	[ Direction is 'Source -> Destination'. ]
➔ Generalization from CarbonContent to CalculationFactor	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ tier : Tier Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ value : float(5) Private	[ Is static False. Containment is Not Specified. ]

### 2.3.5.17 CarbonContent

*Class in package 'Report'*

CarbonContent  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 28/05/2015. Last modified 29/10/2015  
 Extends CalculationFactor

OUTGOING STRUCTURAL RELATIONSHIPS	
⬅ Aggregation from CarbonContent to MassBalanceCalculatedEmission	[ Direction is 'Source -> Destination'. ]
⬅ Generalization from CarbonContent to CalculationFactor	[ Direction is 'Source -> Destination'. ]



### 2.3.5.18 CombustionCalculatedEmission

Class in package 'Report'

CombustionCalculatedEmission  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/05/2015. Last modified 02/07/2015  
Extends StandardCalculatedEmission

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from CombustionCalculatedEmission to StandardCalculatedEmission	[ Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from BiomassFractions to CombustionCalculatedEmission	[ Direction is 'Source -> Destination'. ]
ATTRIBUTES	
ef : EmissionFactor Private	[ Is static False. Containment is Not Specified. ]
oxF : OxidationFactor Private	[ Is static False. Containment is Not Specified. ]
ncv : NetCalorificValue Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.3.5.19 ConversionFactor

Class in package 'Report'

ConversionFactor  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/05/2015. Last modified 29/10/2015  
Extends DefaultableCalculationFactor

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from ConversionFactor to DefaultableCalculationFactor	[ Direction is 'Source -> Destination'. ]

### 2.3.5.20 CorroboratingSourceStream

Class in package 'Report'

CorroboratingSourceStream  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 25/09/2015. Last modified 29/10/2015  
Extends AdditionalSourceStream

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from CorroboratingSourceStream to AdditionalSourceStream [ Direction is 'Source -> Destination'. ]

**2.3.5.21 CurrentEfficiency**

*Class in package 'Report'*

CurrentEfficiency  
Version 1.0 Phase 1.0 Implemented  
swalense created on 29/05/2015. Last modified 29/10/2015  
Extends CalculationFactor

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from CurrentEfficiency to CalculationFactor [ Direction is 'Source -> Destination'. ]

**2.3.5.22 DataGap**

*Class in package 'Report'*

DataGap  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/02/2015. Last modified 02/07/2015

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Aggregation from DataGap to ReportRawData [ Name is dataGap. Direction is 'Source -> Destination'. ]

**INCOMING STRUCTURAL RELATIONSHIPS**



→ Aggregation from DataGapOtherSource to DataGap [ Name is otherSource. Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

◆ period : DateRange Private  
Properties:  
inst/r = 13  
xetl = Installation/EmissionReportDetails/DataGapReportDetails/DataGapOfSourceStream/PeriodOfDataGap,  
Installation/EmissionReportDetails/DataGapReportDetails/DataGapOfEmissionSource/PeriodOfDataGap  
[ Is static False. Containment is Not Specified. ]

◆ reason : string(1000) Private  
Properties:  
inst/r = 13  
xetl = Installation/EmissionReportDetails/DataGapReportDetails/DataGapOfSourceStream/Details,  
Installation/EmissionReportDetails/DataGapReportDetails/DataGapOfEmissionSource/Details  
[ Is static False. Containment is Not Specified. ]

ATTRIBUTES	
<p> emissionCO2e : float(4) Private</p> <p>Properties:                      inst/r = 13                      xetl = Installation/EmissionReportDetails/DataGapReportDetails/DataGapOfSourceStream/Emission, Installation/EmissionReportDetails/DataGapReportDetails/DataGapOfEmissionSource/Emission                      [ Is static False. Containment is Not Specified. ]</p>	
<p> methodology : string(1000) Private</p> <p>Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )                      [ Is static False. Containment is Not Specified. ]</p>	


ASSOCIATIONS	
<p> Association (direction: Unspecified) measurementPointReference</p> <p>Source: Public (Class) DataGap                      Target: Public (Class) MeasurementPoint                      Cardinality: [0..1]</p>	
<p> Association (direction: Unspecified) sourceStreamReference</p> <p>Source: Public (Class) DataGap                      Target: Public (Class) SourceStream                      Cardinality: [0..1]</p>	

### 2.3.5.23 DataGapOtherSource

*Class in package 'Report'*

DataGapOtherSource  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 26/05/2015. Last modified 02/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
<p> Aggregation from DataGapOtherSource to DataGap</p> <p>[ Name is otherSource. Direction is 'Source -&gt; Destination'. ]</p>	

ATTRIBUTES	
<p> description : text(1000) Private</p> <p>[ Is static False. Containment is Not Specified. ]</p>	

### 2.3.5.24 DefaultableCalculationFactor

*Class in package 'Report'*

DefaultableCalculationFactor  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 29/05/2015. Last modified 29/10/2015

INCOMING STRUCTURAL RELATIONSHIPS	
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INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from OxidationFactor to DefaultableCalculationFactor	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from OvervoltageCoefficient to DefaultableCalculationFactor	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from C2F6WeightFraction to DefaultableCalculationFactor	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from NetCalorificValue to DefaultableCalculationFactor	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from ConversionFactor to DefaultableCalculationFactor	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from SlopeEmissionFactor to DefaultableCalculationFactor	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ appliedTier : Tier Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
◆ value : float(5) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.3.5.25 Emission

*Class in package 'Report'*

Emission  
Version 1.0 Phase 1.0 Implemented  
swalense created on 27/05/2015. Last modified 07/09/2015



OUTGOING STRUCTURAL RELATIONSHIPS	
⇐ Aggregation from Emission to ReportRawData	[ Name is emission. Direction is 'Source -> Destination'. ]


  

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from FallbackEmission to Emission	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Generalization from MeasuredEmission to Emission	[ Direction is 'Source -> Destination'. ]
➔ Generalization from CalculatedEmission to Emission	[ Direction is 'Source -> Destination'. ]

CONNECTORS
<p> <b>Usage</b> reference Source -&gt; Destination                      From: EmissionSummary : Class, Public                      To: Emission : Class, Public</p>

ATTRIBUTES
<p> reference : string(20) Private</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p> comment : string(1000) Private                      Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties:                      inst/r = 12</p> <p>[ Is static False. Containment is Not Specified. ]</p>

ASSOCIATIONS
<p> Association (direction: Unspecified) emissionReference</p> <p>Source: Public (Class) CO2Transfer                      Cardinality: [0..1]</p> <p>Target: Public (Class) Emission                      Cardinality: [1]</p>


### 2.3.5.26 EmissionCalculationResult

Class in package 'Report'

EmissionCalculationResult  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 07/07/2015. Last modified 10/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from EmissionCalculationResult to RegularCalculatedEmissionSummary</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>
<p>← Aggregation from EmissionCalculationResult to MeasuredEmissionSummary</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p> emissionCO2eFossil : float(5) Private</p> <p>Properties:</p>

ATTRIBUTES	
inst/r = 8	[ Is static False. Containment is Not Specified. ]
 emissionCO2Biomass : float(5) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )  Properties: inst/r = 8	[ Is static False. Containment is Not Specified. ]

### 2.3.5.27 EmissionFactor

*Class in package 'Report'*

EmissionFactor  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 28/05/2015. Last modified 29/10/2015  
 Extends CalculationFactor


OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from EmissionFactor to CalculationFactor	[ Direction is 'Source -> Destination'. ]



ATTRIBUTES	
 unit : EmissionFactorUnit Private	[ Is static False. Containment is Not Specified. ]




### 2.3.5.28 EmissionSummary

*Class in package 'Report'*

EmissionSummary  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 28/05/2015. Last modified 10/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from EmissionSummary to ReportSummary	[ Name is emission. Direction is 'Source -> Destination'. ]


INCOMING STRUCTURAL RELATIONSHIPS	
 Generalization from RegularCalculatedEmissionSummary to EmissionSummary	[ Direction is 'Source -> Destination'. ]
 Generalization from MeasuredEmissionSummary to EmissionSummary	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Generalization from PFCEmissionSummary to EmissionSummary	[ Direction is 'Source -> Destination'. ]
CONNECTORS	
 <b>Usage</b> reference Source -> Destination From: EmissionSummary : Class, Public To: Emission : Class, Public	
ATTRIBUTES	
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 emissionReference : string(20) Private	[ Is static False. Containment is Not Specified. ]

### 2.3.5.29 FallbackEmission

Class in package 'Report'

FallbackEmission  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/02/2015. Last modified 02/07/2015  
 Extends Emission

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from FallbackEmission to Emission	[ Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
➔ Aggregation from «Document» UncertaintyAssessment to FallbackEmission	[ Name is uncertaintyAssessment. Direction is 'Source -> Destination'. ]
➔ Aggregation from FallbackEmissionSource to FallbackEmission	[ Name is fossilSource. Direction is 'Source -> Destination'. ]
➔ Aggregation from FallbackEmissionSource to FallbackEmission	[ Name is biomassSource. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
 emissionNonSustBiomass : float(4) Private  Properties: inst/r = 10 xetl = InstallationEmissionsReportDetails/EmissionsReportCO2Details/CO2FallBack/Non-sustainableBiogenicCO2	[ Is static False. Containment is Not Specified. ]





### 2.3.5.31 GHGAggregateEmissionSummary

Class in package 'Report'

GHGAggregateEmissionSummary  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/05/2015. Last modified 09/09/2015  
Extends AggregateEmissionSummary

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from GHGAggregateEmissionSummary to AggregateEmissionSummary	[ Direction is 'Source -> Destination'. ]
← Aggregation from GHGAggregateEmissionSummary to ReportSummary	[ Name is measuredGHG. Direction is 'Source -> Destination'. ]
← Aggregation from GHGAggregateEmissionSummary to ReportSummary	[ Name is totalGHG. Direction is 'Source -> Destination'. ]
ATTRIBUTES	
ghg : GHG Private	[ Is static False. Containment is Not Specified. ]

### 2.3.5.32 Installation

Class in package 'Report'

Installation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/02/2015. Last modified 25/08/2015  
Extends Installation

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from Installation to Installation	[ Direction is 'Source -> Destination'. ]
← Aggregation from Installation to ReportRawData	[ Name is installation. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from MeasurementPoint to Installation	[ Name is measurementPoint. Direction is 'Source -> Destination'. ]
⇒ Aggregation from Activity to Installation	[ Name is activity. Direction is 'Source -> Destination'. ]
⇒ Aggregation from SourceStream to Installation	[ Name is sourceStream. Direction is 'Source -> Destination'. ]
⇒ Aggregation from Coordinates to Installation	

INCOMING STRUCTURAL RELATIONSHIPS	
	[ Name is coordinates. Direction is 'Source -> Destination'. ]
→ Aggregation from EPRTRIdentification to Installation	[ Name is eprtrIdentification. Direction is 'Source -> Destination'. ]

### 2.3.5.33 MassBalanceCalculatedEmission

Class in package 'Report'

MassBalanceCalculatedEmission  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/05/2015. Last modified 02/07/2015  
Extends StandardCalculatedEmission

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from MassBalanceCalculatedEmission to StandardCalculatedEmission	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
→ Aggregation from CarbonContent to MassBalanceCalculatedEmission	[ Direction is 'Source -> Destination'. ]
→ Aggregation from BiomassFractions to MassBalanceCalculatedEmission	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
carbC : CarbonContent Private	[ Is static False. Containment is Not Specified. ]
ncv : NetCalorificValue Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.3.5.34 MeasuredEmission

Class in package 'Report'


MeasuredEmission  
Version 1.0 Phase 1.0 Implemented  
swalense created on 13/02/2015. Last modified 02/07/2015  
Extends Emission

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from MeasuredEmission to Emission	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
<p>➔ Generalization from CO2MeasuredEmission to MeasuredEmission</p>	[ Direction is 'Source -> Destination'. ]
<p>➔ Aggregation from MeasuredEmissionDetails to MeasuredEmission</p>	[ Name is fossil. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
<p>◆ appliedTier : MeasurementPrecisionTier Private</p> <p>xetl = InstallationEmissionsReportDetails/EmissionsReportCO2Details/MeasurementProcess/CO2CEMSType/TierApplied</p>	<p>Properties: inst/r = 9a</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ ghgConcentration : float(4) Private</p> <p>xetl = InstallationEmissionsReportDetails/EmissionsReportCO2Details/MeasurementProcess/CO2CEMSType/ConcentrationOfFlueGas</p>	<p>Properties: inst/r = 9a</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ hoursOperation : int Private</p> <p>xetl = InstallationEmissionsReportDetails/EmissionsReportCO2Details/MeasurementProcess/CO2CEMSType/OperationHours</p>	<p>Properties: inst/r = 9a</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ flueGasFlowAnnualHourlyAverage : float(2) Private</p> <p>xetl = InstallationEmissionsReportDetails/EmissionsReportCO2Details/MeasurementProcess/CO2CEMSType/VolumeFlowRate</p>	<p>Properties: inst/r = 9a</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ gwp : float(2) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p>	<p>Properties: inst/r = 9a</p> <p>[ Is static False. Containment is Not Specified. ]</p>



ASSOCIATIONS	
<p>◆ Association (direction: Unspecified) sourceStreamReference</p> <p>Source: Public (Class) MeasuredEmission Cardinality: [0..*]</p>	<p>Target: Public (Class) SourceStream Cardinality: [0..*]</p>




ASSOCIATIONS	
<p> Association (direction: Unspecified) measurementPointReference</p> <p>Source: Public (Class) MeasuredEmission Cardinality: [1..*]</p>	<p>Target: Public (Class) MeasurementPoint Cardinality: [1]</p>

### 2.3.5.35 MeasuredEmissionDetails

Class in package 'Report'

MeasuredEmissionDetails  
Version 1.0 Phase 1.0 Implemented  
swalense created on 13/02/2015. Last modified 02/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p> Aggregation from MeasuredEmissionDetails to CO2MeasuredEmission [ Name is biomass. Direction is 'Source -&gt; Destination'. ]</p>
<p> Aggregation from MeasuredEmissionDetails to MeasuredEmission [ Name is fossil. Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p> reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]</p>
<p> energyContent : float(4) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties: inst/r = 9 xetl = InstallationEmissionsReportDetails/EmissionsReportCO2Details/MeasurementProcess/CO2CEMSType/FossilEnergyEmission, InstallationEmissionsReportDetails/EmissionsReportCO2Details/MeasurementProcess/CO2CEMSType/BiomassEnergyEmission</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p> corroboratingCalculationResult : float(4) Private</p> <p>Properties: inst/r = 9a xetl = InstallationEmissionsReportDetails/EmissionsReportCO2Details/MeasurementProcess/CO2CEMSType/CorroboratingCalculationOfFossilMeasurement, idem Biomass</p> <p>[ Is static False. Containment is Not Specified. ]</p>

### 2.3.5.36 MeasuredEmissionSummary

Class in package 'Report'

MeasuredEmissionSummary  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/05/2015. Last modified 10/07/2015

Extends EmissionSummary

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from MeasuredEmissionSummary to EmissionSummary	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Aggregation from EmissionCalculationResult to MeasuredEmissionSummary	[ Direction is 'Source -> Destination'. ]

### 2.3.5.37 MeasurementPoint

Class in package 'Report'

MeasurementPoint  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 13/02/2015. Last modified 11/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from MeasurementPoint to Installation	[ Name is measurementPoint. Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from MonitoringPlanMeasurementPoint to MeasurementPoint	[ Direction is 'Source -> Destination'. ]
⇒ Generalization from AdditionalMeasurementPoint to MeasurementPoint	[ Direction is 'Source -> Destination'. ]

ASSOCIATIONS	
/ Association (direction: Unspecified) measurementPointReference Source: Public (Class) DataGap Target: Public (Class) MeasurementPoint Cardinality: [0..1]	
/ Association (direction: Unspecified) measurementPointReference Source: Public (Class) MeasuredEmission Cardinality: [1..*] Target: Public (Class) MeasurementPoint Cardinality: [1]	

### 2.3.5.38 MonitoringPlanActivity

Class in package 'Report'

MonitoringPlanActivity  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 18/02/2015. Last modified 11/08/2015  
 Extends Activity

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from MonitoringPlanActivity to Activity

[ Direction is 'Source -> Destination'. ]

**CONNECTORS**

↗ **Usage** reference Source -> Destination  
 From: MonitoringPlanActivity : Class, Public  
 To: Activity : Class, Public

**ATTRIBUTES**

◆ activityReference : string(20) Private

[ Is static False. Containment is Not Specified. ]

**2.3.5.39 MonitoringPlanMeasurementPoint**

*Class in package 'Report'*

MonitoringPlanMeasurementPoint  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 13/02/2015. Last modified 11/08/2015  
 Extends MeasurementPoint

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from MonitoringPlanMeasurementPoint to MeasurementPoint

[ Direction is 'Source -> Destination'. ]

**CONNECTORS**

↗ **Usage** reference Source -> Destination  
 From: MonitoringPlanMeasurementPoint : Class, Public  
 To: MeasurementPoint : Class, Public

**ATTRIBUTES**

◆ measurementPointReference : string(20) Private

[ Is static False. Containment is Not Specified. ]

**2.3.5.40 MonitoringPlanSourceStream**

*Class in package 'Report'*

MonitoringPlanSourceStream  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 13/02/2015. Last modified 11/08/2015  
 Extends SourceStream

**OUTGOING STRUCTURAL RELATIONSHIPS**

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from MonitoringPlanSourceStream to SourceStream

[ Direction is 'Source -> Destination'. ]

**CONNECTORS**

↗ **Usage** reference Source -> Destination

From: MonitoringPlanSourceStream : Class, Public

To: SourceStream : Class, Public

**ATTRIBUTES**

💡 sourceStreamReference : string(20) Private

[ Is static False. Containment is Not Specified. ]

**2.3.5.41 NetCalorificValue**

*Class in package 'Report'*

NetCalorificValue  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/05/2015. Last modified 29/10/2015  
Extends DefaultableCalculationFactor

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from NetCalorificValue to DefaultableCalculationFactor

[ Direction is 'Source -> Destination'. ]

**2.3.5.42 NonSustBiomassFraction**

*Class in package 'Report'*

NonSustBiomassFraction  
Version 1.0 Phase 1.0 Implemented  
swalense created on 29/05/2015. Last modified 29/10/2015  
Extends CalculationFactor

**OUTGOING STRUCTURAL RELATIONSHIPS**

← Generalization from NonSustBiomassFraction to CalculationFactor

[ Direction is 'Source -> Destination'. ]

**2.3.5.43 Operator**

*Class in package 'Report'*

Operator  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/02/2015. Last modified 02/07/2015  
Extends Operator

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from Operator to ReportRawData	[ Name is operator. Direction is 'Source -> Destination'. ]
← Generalization from Operator to Operator	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
<p>reportingCompetentAuthority : string(250) Private</p> <p>Properties:  inst/r = 2a  xetl = Installation/EmissionReportDetails/InstallationReport/CompetentAuthorityToReport</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p>permittingCompetentAuthority : string(250) Private</p> <p>Properties:  inst/r = 3d</p> <p>[ Is static False. Containment is Not Specified. ]</p>	

### 2.3.5.44 OvervoltageCoefficient

Class in package 'Report'

OvervoltageCoefficient  
Version 1.0 Phase 1.0 Implemented  
swalense created on 29/05/2015. Last modified 29/10/2015  
Extends DefaultableCalculationFactor

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from OvervoltageCoefficient to DefaultableCalculationFactor	[ Direction is 'Source -> Destination'. ]

### 2.3.5.45 OvervoltagePFCEmission




Class in package 'Report'

OvervoltagePFCEmission  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/02/2015. Last modified 29/10/2015  
Extends PFCEmission

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from OvervoltagePFCEmission to PFCEmission	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	




ATTRIBUTES	
 aeOvervoltage : AnodeEffectOvervoltage Private	[ Is static False. Containment is Not Specified. ]
 currentEfficiency : CurrentEfficiency Private	[ Is static False. Containment is Not Specified. ]
 ovC : OvervoltageCoefficient Private	[ Is static False. Containment is Not Specified. ]

### 2.3.5.46 OxidationFactor

Class in package 'Report'



OxidationFactor  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/05/2015. Last modified 29/10/2015  
Extends DefaultableCalculationFactor




OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from OxidationFactor to DefaultableCalculationFactor	[ Direction is 'Source -> Destination'. ]

### 2.3.5.47 PFCCompoundEmissionSummary

Class in package 'Report'

PFCCompoundEmissionSummary  
Version 1.0 Phase 1.0 Implemented  
swalense created on 12/05/2015. Last modified 10/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
 Aggregation from PFCCompoundEmissionSummary to PFCEmissionSummary [ Name is CF4Emission. Direction is 'Source -> Destination'. ]	
 Aggregation from PFCCompoundEmissionSummary to PFCEmissionSummary [ Name is C2F6Emission. Direction is 'Source -> Destination'. ]	

ATTRIBUTES	
 reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 emission : float(2) Private	[ Is static False. Containment is Not Specified. ]
 emissionCO2e : int Private	[ Is static False. Containment is Not Specified. ]



### 2.3.5.49 PFCEmissionSummary

Class in package 'Report'

PFCEmissionSummary  
Version 1.0 Phase 1.0 Implemented  
swalense created on 12/05/2015. Last modified 10/07/2015  
Extends EmissionSummary

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from PFCEmissionSummary to EmissionSummary [ Direction is 'Source -&gt; Destination'. ]</p>
INCOMING STRUCTURAL RELATIONSHIPS
<p>⇒ Aggregation from PFCCompoundEmissionSummary to PFCEmissionSummary [ Name is CF4Emission. Direction is 'Source -&gt; Destination'. ]</p>
<p>⇒ Aggregation from PFCCompoundEmissionSummary to PFCEmissionSummary [ Name is C2F6Emission. Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>◆ emissionCO2e : float(5) Private Properties: inst/r = 12 [ Is static False. Containment is Not Specified. ]</p>

### 2.3.5.50 ProcessCalculatedEmission

Class in package 'Report'

ProcessCalculatedEmission  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/05/2015. Last modified 02/07/2015  
Extends StandardCalculatedEmission

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from ProcessCalculatedEmission to StandardCalculatedEmission [ Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>◆ ef : EmissionFactor Private [ Is static False. Containment is Not Specified. ]</p>
<p>◆ convF : ConversionFactor Private [ Is static False. Containment is Not Specified. ]</p>

### 2.3.5.51 RegularCalculatedEmissionSummary

*Class in package 'Report'*

RegularCalculatedEmissionSummary  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/05/2015. Last modified 10/07/2015  
Extends EmissionSummary

#### OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from RegularCalculatedEmissionSummary to EmissionSummary  
[ Direction is 'Source -> Destination'. ]

#### INCOMING STRUCTURAL RELATIONSHIPS

⇒ Aggregation from EmissionCalculationResult to RegularCalculatedEmissionSummary  
[ Direction is 'Source -> Destination'. ]

### 2.3.5.52 Report

*Class in package 'Report'*

Report  
Version 1.0 Phase 1.0 Implemented  
swalense created on 01/06/2015. Last modified 24/08/2015

#### INCOMING STRUCTURAL RELATIONSHIPS

⇒ Aggregation from ReportRawData to Report  
[ Name is rawData. Direction is 'Source -> Destination'. ]

⇒ Aggregation from ReportSummary to Report  
[ Name is summary. Direction is 'Source -> Destination'. ]

### 2.3.5.53 ReportRawData

*Class in package 'Report'*

ReportRawData  
Version 1.0 Phase 1.0 Implemented  
swalense created on 02/02/2015. Last modified 25/08/2015  
Extends ReportRawData

#### OUTGOING STRUCTURAL RELATIONSHIPS

← Aggregation from ReportRawData to Report  
[ Name is rawData. Direction is 'Source -> Destination'. ]

← Generalization from ReportRawData to ReportRawData  
[ Direction is 'Source -> Destination'. ]

#### INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Aggregation from CO2Transfer to ReportRawData	[ Name is CO2Transfer. Direction is 'Source -> Destination'. ]
➔ Aggregation from Emission to ReportRawData	[ Name is emission. Direction is 'Source -> Destination'. ]
➔ Aggregation from Product to ReportRawData	[ Name is product. Direction is 'Source -> Destination'. ]
➔ Aggregation from Operator to ReportRawData	[ Name is operator. Direction is 'Source -> Destination'. ]
➔ Aggregation from Installation to ReportRawData	[ Name is installation. Direction is 'Source -> Destination'. ]
➔ Aggregation from DataGap to ReportRawData	[ Name is dataGap. Direction is 'Source -> Destination'. ]
➔ Aggregation from RemoteInstallation to ReportRawData	[ Name is CO2TransferRemoteInstallation. Direction is 'Source -> Destination'. ]

### 2.3.5.54 ReportSummary

Class in package 'Report'

ReportSummary  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 12/05/2015. Last modified 10/07/2015  
 Extends ReportSummary

OUTGOING STRUCTURAL RELATIONSHIPS	
⬅ Generalization from ReportSummary to ReportSummary	[ Direction is 'Source -> Destination'. ]
⬅ Aggregation from ReportSummary to Report	[ Name is summary. Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Aggregation from AggregateEmissionSummary to ReportSummary	[ Name is total. Direction is 'Source -> Destination'. ]
➔ Aggregation from AggregateEmissionSummary to ReportSummary	[ Name is measuredCO2Transfer. Direction is 'Source -> Destination'. ]
➔ Aggregation from EmissionSummary to ReportSummary	[ Name is emission. Direction is 'Source -> Destination'. ]
➔ Aggregation from AggregateEmissionSummary to ReportSummary	

INCOMING STRUCTURAL RELATIONSHIPS	
	[ Name is massBalance. Direction is 'Source -> Destination'. ]
⇒ Aggregation from AggregateEmissionSummary to ReportSummary	[ Name is combustion. Direction is 'Source -> Destination'. ]
⇒ Aggregation from GHGAggregateEmissionSummary to ReportSummary	[ Name is measuredGHG. Direction is 'Source -> Destination'. ]
⇒ Aggregation from AggregateEmissionSummary to ReportSummary	[ Name is fallback. Direction is 'Source -> Destination'. ]
⇒ Aggregation from GHGAggregateEmissionSummary to ReportSummary	[ Name is totalGHG. Direction is 'Source -> Destination'. ]
⇒ Aggregation from AggregateEmissionSummary to ReportSummary	[ Name is process. Direction is 'Source -> Destination'. ]

CONNECTORS	
↗ <b>Usage</b> identifier Source -> Destination	
From: ReportSummary : Class, Public	
To: Installation : Class, Public	

ATTRIBUTES	
♦ installationIdentifier : string(20) Private	[ Is static False. Containment is Not Specified. ]

### 2.3.5.55 SlopeEmissionFactor

*Class in package 'Report'*

SlopeEmissionFactor  
Version 1.0 Phase 1.0 Implemented  
swalense created on 29/05/2015. Last modified 29/10/2015  
Extends DefaultableCalculationFactor

OUTGOING STRUCTURAL RELATIONSHIPS	
⇐ Generalization from SlopeEmissionFactor to DefaultableCalculationFactor	[ Direction is 'Source -> Destination'. ]

### 2.3.5.56 SlopePFCEmission

*Class in package 'Report'*

SlopePFCEmission  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/02/2015. Last modified 02/07/2015  
Extends PFC Emission




OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from SlopePFCEmission to PFCEmission	[ Direction is 'Source -> Destination'. ]
ATTRIBUTES	
aeDuration : AnodeEffectDuration Private	[ Is static False. Containment is Not Specified. ]
aeFrequency : AnodeEffectFrequency Private	[ Is static False. Containment is Not Specified. ]
sEF : SlopeEmissionFactor Private	[ Is static False. Containment is Not Specified. ]

### 2.3.5.57 SourceStream

*Class in package 'Report'*

SourceStream  
Version 1.0 Phase 1.0 Implemented  
swalense created on 13/02/2015. Last modified 11/08/2015


OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from SourceStream to Installation	[ Name is sourceStream. Direction is 'Source -> Destination'. ]
INCOMING STRUCTURAL RELATIONSHIPS	
→ Generalization from MonitoringPlanSourceStream to SourceStream	[ Direction is 'Source -> Destination'. ]
→ Generalization from AdditionalSourceStream to SourceStream	[ Direction is 'Source -> Destination'. ]
ATTRIBUTES	
category : SourceStreamCategory Private	
Properties: inst/r = 7b xetl = Installation/EmissionReportDetails/InstallationReport/SourceStreamDetails/SourceStreamCode	[ Is static False. Containment is Not Specified. ]
ASSOCIATIONS	
Association (direction: Unspecified) sourceStreamReference	
Source: Public (Class) FallbackEmission Cardinality: [0..1]	Target: Public (Class) SourceStream Cardinality: [0..*]





ASSOCIATIONS	
<p> Association (direction: Unspecified) sourceStreamReference</p> <p>Source: Public (Class) DataGap</p>	<p>Target: Public (Class) SourceStream Cardinality: [0..1]</p>
<p> Association (direction: Unspecified) sourceStreamReference</p> <p>Source: Public (Class) MeasuredEmission Cardinality: [0..*]</p>	<p>Target: Public (Class) SourceStream Cardinality: [0..*]</p>
<p> Association (direction: Unspecified) sourceStreamReference</p> <p>Source: Public (Class) CalculatedEmission Cardinality: [1..*]</p>	<p>Target: Public (Class) SourceStream Cardinality: [1]</p>


### 2.3.5.58 StandardCalculatedEmission

*Class in package 'Report'*

StandardCalculatedEmission  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/05/2015. Last modified 02/07/2015  
Extends CalculatedEmission

OUTGOING STRUCTURAL RELATIONSHIPS
<p> Generalization from StandardCalculatedEmission to CalculatedEmission</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>

INCOMING STRUCTURAL RELATIONSHIPS
<p> Aggregation from ActivityData to StandardCalculatedEmission</p> <p>[ Name is activityData. Direction is 'Source -&gt; Destination'. ]</p>
<p> Generalization from CombustionCalculatedEmission to StandardCalculatedEmission</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>
<p> Generalization from ProcessCalculatedEmission to StandardCalculatedEmission</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>
<p> Generalization from MassBalanceCalculatedEmission to StandardCalculatedEmission</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p> wasteCatalogNumber : string(100) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties: inst/r = 8 xetl = InstallationEmissionsReportDetails/EmissionsReportCO2Details/CalculationProcess/WasteCatalogNumberCode [ Is static False. Containment is Not Specified. ]</p>



### 2.3.5.59 CRFCategory

*Enumeration in package 'Report'*

CRFCategory  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/02/2015. Last modified 29/10/2015

ATTRIBUTES	
1.AA.1.A Public... : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
1.AA.1.B Petroleum... : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
... : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.5.60 EPRTRActivity

*Enumeration in package 'Report'*

EPRTRActivity  
Version 1.0 Phase 1.0 Implemented  
swalense created on 17/02/2015. Last modified 29/10/2015

## 2.3.7 Tier

Package in package 'Installation'

Tier  
Version 1.0 Phase 1.0 Proposed  
swalense created on 19/01/2015. Last modified 29/05/2015  
Alias

### 2.3.7.1 ActivityDataTier

Enumeration in package 'Tier'

ActivityDataTier  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/01/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ 1 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 2 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 3 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 4 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.7.2 BiomassFraction

Enumeration in package 'Tier'

Annex II 2.4

BiomassFraction  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/01/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ 1 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 2 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.7.3 CarbonContent

*Enumeration in package 'Tier'*

Annex II 3.1

CarbonContent  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/01/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ 1 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 2a : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 2b : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 3 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.7.4 ConversionFactor

*Enumeration in package 'Tier'*

Annex II 4.2 + 4.4

ConversionFactor  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/01/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ 1 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 2 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.7.5 EmissionFactor

*Enumeration in package 'Tier'*

Annex II 2.1 + 4.1 + 4.3

EmissionFactor  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/01/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ 1 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 2 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 2a : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 2b : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 3 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.7.6 MeasurementPrecisionTier

*Enumeration in package 'Tier'*

MeasurementPrecisionTier  
Version 1.0 Phase 1.0 Implemented  
swalense created on 20/01/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ 1 (10%) : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 2 (7.5%) : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 3 (5%) : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 4 (2.5%) : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.7.7 NetCalorificValue

*Enumeration in package 'Tier'*

Annex II 2.2

NetCalorificValue  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/01/2015. Last modified 29/10/2015

ATTRIBUTES	

ATTRIBUTES	
◆ 1 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 2a : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 2b : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 3 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.7.8 OxidationFactor

*Enumeration in package 'Tier'*

Annex II 2.3

OxidationFactor  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/01/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ 1 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 2 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 3 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.7.9 PFCFactorType

*Enumeration in package 'Tier'*



PFCFactorType  
Version 1.0 Phase 1.0 Implemented  
swalense created on 12/05/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ 1 (default) : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ 2 (specific) : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.7.10 PFCPrecision

*Enumeration in package 'Tier'*

PFCPrecision  
Version 1.0 Phase 1.0 Implemented  
swalense created on 12/05/2015. Last modified 29/10/2015

ATTRIBUTES	
 1 (2.5%) : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 2 (1.5%) : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

## 2.3.9 Verification

Package in package 'Installation'

Verification  
Version 1.0 Phase 1.0 Proposed  
swalense created on 18/06/2015. Last modified 18/06/2015  
Alias

### 2.3.9.1 Compliance

Class in package 'Verification'

Compliance  
Version 1.0 Phase 1.0 Implemented  
swalense created on 18/06/2015. Last modified 24/08/2015  
Extends Compliance

OUTGOING STRUCTURAL RELATIONSHIPS	
↔ Generalization from Compliance to Compliance	[ Direction is 'Source -> Destination'. ]
↔ Aggregation from Compliance to VerificationReport	[ Name is compliance. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
🔹 permitConditions : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]
🔹 changesReporting : ComplianceStatement Private	[ Is static False. Containment is Not Specified. ]

### 2.3.9.2 Installation

Class in package 'Verification'

Installation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 23/06/2015. Last modified 24/08/2015  
Extends Installation

OUTGOING STRUCTURAL RELATIONSHIPS	
↔ Aggregation from Installation to VerificationReport	[ Name is installation. Direction is 'Source -> Destination'. ]
↔ Generalization from Installation to Installation	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES
------------

ATTRIBUTES	
category : InstallationCategory Private	[ Is static False. Containment is Not Specified. ]
lowEmitter : boolean Private	[ Is static False. Containment is Not Specified. ]

### 2.3.9.3 Operator

*Class in package 'Verification'*

Operator  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 23/06/2015. Last modified 24/08/2015  
 Extends Operator

OUTGOING STRUCTURAL RELATIONSHIPS	
↔ Generalization from Operator to Operator	[ Direction is 'Source -> Destination'. ]
↔ Aggregation from Operator to VerificationReport	[ Name is operator. Direction is 'Source -> Destination'. ]
↔ Generalization from Operator to Operator	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
approvingCompetentAuthority : string(250) Private	[ Is static False. Containment is Not Specified. ]

### 2.3.9.4 VerificationReport

*Class in package 'Verification'*

VerificationReport  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 18/06/2015. Last modified 24/08/2015  
 Extends VerificationReport

OUTGOING STRUCTURAL RELATIONSHIPS	
↔ Generalization from VerificationReport to VerificationReport	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
→ Aggregation from Compliance to VerificationReport	[ Name is compliance. Direction is 'Source -> Destination'. ]



INCOMING STRUCTURAL RELATIONSHIPS	
➔ Aggregation from Installation to VerificationReport	[ Name is installation. Direction is 'Source -> Destination'. ]
➔ Aggregation from Operator to VerificationReport	[ Name is operator. Direction is 'Source -> Destination'. ]
➔ Aggregation from Visit to VerificationReport	[ Name is visit. Direction is 'Source -> Destination'. ]

### 2.3.9.5 Visit

*Class in package 'Verification'*

Visit  
Version 1.0 Phase 1.0 Implemented  
swalense created on 22/06/2015. Last modified 24/08/2015  
Extends Visit

OUTGOING STRUCTURAL RELATIONSHIPS	
⬅ Aggregation from Visit to VerificationReport	[ Name is visit. Direction is 'Source -> Destination'. ]
⬅ Generalization from Visit to Visit	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
🔹 visited : boolean Private	[ Is static False. Containment is Not Specified. ]
🔹 competentAuthorityApprovalDateForWaive : Date Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]

### 2.3.10 Activity

*Class in package 'Installation'*

Activity  
Version 1.0 Phase 1.0 Implemented  
swalense created on 15/01/2015. Last modified 11/08/2015

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Generalization from Activity to Activity	[ Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS
<p>➔ Generalization from AdditionalActivity to Activity</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>◆ reference : string(20) Private</p> <p>Properties:  inst/mp = 5c  inst/r = 6  xetl/mp = InstallationOperationDetails/InstallationDescription/Annex1ActivityData/Annex1ActivityID  xetl/r = Installation/EmissionReportDetails/InstallationReport/ActivityEmissions/Annex1ActivityID</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ type : Annex1ActivityType Private</p> <p>Properties:  inst/mp = 5c  inst/r = 6  xetl/r = Installation/EmissionReportDetails/InstallationReport/ActivityEmissions/Annex1ActivityClassification</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ totalActivityCapacity : float(4) Private</p> <p>Properties:  inst/mp = 5c  inst/r = 6  xetl/mp = InstallationOperationDetails/InstallationDescription/Annex1ActivityData/ActivityCapacity  xetl/r = Installation/EmissionReportDetails/InstallationReport/ActivityEmissions/InstallationCapacity</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>◆ capacityUnit : string(20) Private</p> <p>Properties:  inst/mp = 5c  inst/r = 6  xetl/mp = InstallationOperationDetails/InstallationDescription/Annex1ActivityData/ActivityCapacityUnits  xetl/r = Installation/EmissionReportDetails/InstallationReport/ActivityEmissions/CapacityUnit</p> <p>[ Is static False. Containment is Not Specified. ]</p>

### 2.3.11 ActivityData

*Class in package 'Installation'*

ActivityData  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/05/2015. Last modified 29/10/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from ActivityData to StandardCalculatedEmission</p> <p>[ Name is activityData. Direction is 'Source -&gt; Destination'. ]</p>
INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Generalization from ActivityDataValue to ActivityData	[ Direction is 'Source -> Destination'. ]
➔ Generalization from ActivityDataBalance to ActivityData	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
<p>reference : string(20) Private                      Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p>	[ Is static False. Containment is Not Specified. ]
<p>appliedTier : ActivityDataTierEnum Private                      Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties:                      inst/r = 8iii                      xetl =                      InstallationEmissionsReportDetails/EmissionsReportCO2Details/CalculationProcess/Consumption/ValueType/TierNumber</p>	[ Is static False. Containment is Not Specified. ]
<p>unit : ActivityDataUnit Private</p> <p>Properties:                      inst/r = 8iii                      xetl =                      InstallationEmissionsReportDetails/EmissionsReportCO2Details/CalculationProcess/MassBalanceDetails/QuantityUnit</p>	[ Is static False. Containment is Not Specified. ]



### 2.3.12 ActivityDataBalance

*Class in package 'Installation'*

ActivityDataBalance  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 13/02/2015. Last modified 29/10/2015  
 Extends ActivityData

OUTGOING STRUCTURAL RELATIONSHIPS	
↔ Generalization from ActivityDataBalance to ActivityData	[ Direction is 'Source -> Destination'. ]





ATTRIBUTES	
<p>open : float(5) Private</p> <p>Properties:                      xetl =                      InstallationEmissionsReportDetails/EmissionsReportCO2Details/CalculationProcess/MassBalanceDetails/OpenQuantity</p>	[ Is static False. Containment is Not Specified. ]
<p>close : float(5) Private</p>	

ATTRIBUTES
<p>Properties:  xetl =  InstallationEmissionsReportDetails/EmissionsReportCO2Details/CalculationProcess/MassBalanceDetails/CloseQuantity</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p> import : float(5) Private</p> <p>Properties:  xetl =  InstallationEmissionsReportDetails/EmissionsReportCO2Details/CalculationProcess/MassBalanceDetails/ImportQuantity</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p> export : float(5) Private</p> <p>Properties:  xetl =  InstallationEmissionsReportDetails/EmissionsReportCO2Details/CalculationProcess/MassBalanceDetails/ExportQuantity</p> <p>[ Is static False. Containment is Not Specified. ]</p>

### 2.3.13 ActivityDataMeasurementInstrument

Class in package 'Installation'

ActivityDataMeasurementInstrument  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 09/09/2015. Last modified 11/09/2015  
Extends MeasurementInstrument

OUTGOING STRUCTURAL RELATIONSHIPS
<p> Generalization from ActivityDataMeasurementInstrument to MeasurementInstrument</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>
INCOMING STRUCTURAL RELATIONSHIPS
<p> Aggregation from TradePartnerRelation to ActivityDataMeasurementInstrument</p> <p>[ Name is tradePartnerRelation. Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p> supervisor : InstrumentSupervisor Private</p> <p>Properties:  inst/mp = 8aai  xetl/mp =  InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedCO2/WhoControlInstrument</p> <p>[ Is static False. Containment is Not Specified. ]</p>
ASSOCIATIONS
<p> Association (direction: Unspecified) activityDataMeasurementInstrumentReference</p>

ASSOCIATIONS	
Source: Public (Class) ActivityDataMeasurementInstrument Cardinality: [1..*]	Target: Public (Class) SourceStreamEmissionCalculation Cardinality: [0..*]

### 2.3.14 ActivityDataValue

Class in package 'Installation'

ActivityDataValue  
Version 1.0 Phase 1.0 Implemented  
swalense created on 13/02/2015. Last modified 29/10/2015  
Extends ActivityData

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from ActivityDataValue to PFCEmission	[ Name is activityData. Direction is 'Source -> Destination'. ]
← Generalization from ActivityDataValue to ActivityData	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
<p>◆ value : float(5) Private</p> <p>Properties: inst/r = 8iii xetl = InstallationEmissionsReportDetails/EmissionsReportCO2Details/CalculationProcess/Consumption</p>	[ Is static False. Containment is Not Specified. ]

### 2.3.15 BaseMeasurementInstrument

Class in package 'Installation'

BaseMeasurementInstrument  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 07/09/2015. Last modified 11/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from BaseMeasurementInstrument to PipelineSystems	[ Name is temperatureOrPressureMeasurementInstrument. Direction is 'Source -> Destination'. ]

INCOMING STRUCTURAL RELATIONSHIPS	
→ Generalization from MeasurementInstrument to BaseMeasurementInstrument	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
◆ reference : string(20) Private	

ATTRIBUTES
Properties: xetl/mp = InstallationOperationDetails/InstallationDescription/MeasurementInstrument/MeasurementInstrumentID [ Is static False. Containment is Not Specified. ]
◆ location : string(40) Private Properties: xetl/mp = InstallationOperationDetails/InstallationDescription/MeasurementInstrument/LocationInternalID [ Is static False. Containment is Not Specified. ]
◆ type : string(40) Private Properties: xetl/mp = InstallationOperationDetails/InstallationDescription/MeasurementInstrument/TypeOfMeasurementInstrument [ Is static False. Containment is Not Specified. ]

### 2.3.16 EPRTIdentification

*Class in package 'Installation'*

EPRTIdentification  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 17/02/2015. Last modified 02/07/2015

OUTGOING STRUCTURAL RELATIONSHIPS
⇐ Aggregation from EPRTIdentification to Installation [ Name is eprtrIdentification. Direction is 'Source -> Destination'. ]

ATTRIBUTES
◆ identifier : string(50) Private Properties: inst/r = 3cii xetl = Installation/EmissionReportDetails/InstallationReport/EPRTDetails/EPRTID [ Is static False. Containment is Not Specified. ]
◆ activity : EPRTActivity Private Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: True ) Properties: inst/r = 3ciii xetl = Installation/EmissionReportDetails/InstallationReport/EPRTDetails/MainAnnexIActivityClassification, Installation/EmissionReportDetails/InstallationReport/EPRTDetails/OtherAnnexIActivities [ Is static False. Containment is Not Specified. ]

### 2.3.17 EmissionPoint

*Class in package 'Installation'*

EmissionPoint  
 Version 1.0 Phase 1.0 Implemented

swalense created on 15/01/2015. Last modified 21/08/2015







INCOMING STRUCTURAL RELATIONSHIPS
<p>➔ Generalization from EmissionPoint to EmissionPoint</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>reference : string(20) Private</p> <p>Properties:  inst/mp = 6c  xetl/mp = InstallationOperationDetails/InstallationDescription/EmissionPoint/EmissionPointID</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>description : string(250) Private</p> <p>Properties:  inst/mp = 6c  xetl/mp = InstallationOperationDetails/InstallationDescription/EmissionPoint/EmissionPointName</p> <p>[ Is static False. Containment is Not Specified. ]</p>
<p>ghgEmitted : GHG Private</p> <p>Multiplicity: ( [1..*], Allow duplicates: 0, Is ordered: False )</p> <p>Properties:  inst/mp = 6c  xetl/mp = InstallationOperationDetails/InstallationDescription/EmissionPoint/EmissionPointID/ETSPollutant</p> <p>[ Is static False. Containment is Not Specified. ]</p>

## 2.3.18 Installation

*Class in package 'Installation'*

Installation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 14/01/2015. Last modified 02/07/2015

INCOMING STRUCTURAL RELATIONSHIPS
<p>➔ Generalization from Installation to Installation</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>
<p>➔ Aggregation from RegistryAccountNumber to Installation</p> <p>[ Name is registryAccountNumber. Direction is 'Source -&gt; Destination'. ]</p>
<p>➔ Aggregation from Address to Installation</p> <p>[ Name is address. Direction is 'Source -&gt; Destination'. ]</p>
<p>➔ Generalization from Installation to Installation</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>
<p>➔ Generalization from Installation to Installation</p> <p>[ Direction is 'Source -&gt; Destination'. ]</p>

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Generalization from Installation to Installation	[ Direction is 'Source -> Destination'. ]
CONNECTORS	
 <b>Usage</b> identifier Source -> Destination From: ReportSummary : Class, Public To: Installation : Class, Public	
ATTRIBUTES	
 <b>reference</b> : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )	[ Is static False. Containment is Not Specified. ]
 <b>identifier</b> : string(20) Private  Properties: inst/mp = 3aiii inst/r = 3aiii xetl/mp = InstallationOperationDetails/InstallationDescription/InstallationID xetl/r = Installation/EmissionReportDetails/InstallationReport/InstallationID	[ Is static False. Containment is Not Specified. ]
 <b>name</b> : string(250) Private  Properties: inst/mp = 3ai inst/r = 3ai xetl/mp = InstallationOperationDetails/InstallationDescription/InstallationName	[ Is static False. Containment is Not Specified. ]
 <b>permitNumber</b> : int Private  Properties: inst/mp = 2c inst/r = 2c xetl/mp = PermitDetails/ETSPermitNumber	[ Is static False. Containment is Not Specified. ]
 <b>siteName</b> : string(250) Private  Properties: inst/mp = 3aii inst/r = 3aii xetl/mp = InstallationOperationDetails/InstallationDescription/SiteName	[ Is static False. Containment is Not Specified. ]

### 2.3.19 MeasurementInstrument

Class in package 'Installation'

7b + 9c



MeasurementInstrument  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/01/2015. Last modified 21/08/2015  
 Extends BaseMeasurementInstrument

#### OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from MeasurementInstrument to BaseMeasurementInstrument  
 [ Direction is 'Source -> Destination'. ]

← Aggregation from MeasurementInstrument to Installation  
 [ Name is measurementInstrument. Direction is 'Source -> Destination'. ]

#### INCOMING STRUCTURAL RELATIONSHIPS

⇒ Aggregation from MeasurementRange to MeasurementInstrument  
 [ Name is typicalUseRange. Direction is 'Source -> Destination'. ]

⇒ Generalization from ActivityDataMeasurementInstrument to MeasurementInstrument  
 [ Direction is 'Source -> Destination'. ]

⇒ Aggregation from MeasurementInstrumentRange to MeasurementInstrument  
 [ Name is range. Direction is 'Source -> Destination'. ]

#### ATTRIBUTES

◆ rangeUnit : string(20) Private  
 [ Is static False. Containment is Not Specified. ]

#### ASSOCIATIONS

✍ Association (direction: Unspecified) instrumentReference  
 Source: Public (Class) MeasurementSetup  
 Cardinality: [0..1]      Target: Public (Class) MeasurementInstrument  
 Cardinality: [1]

## 2.3.20 MeasurementInstrumentRange

*Class in package 'Installation'*

MeasurementInstrumentRange  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/01/2015. Last modified 29/10/2015  
 Extends MeasurementRange

#### OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from MeasurementInstrumentRange to MeasurementRange  
 [ Direction is 'Source -> Destination'. ]

← Aggregation from MeasurementInstrumentRange to MeasurementInstrument  
 [ Name is range. Direction is 'Source -> Destination'. ]

ATTRIBUTES
<p>◆ uncertainty : float(4) Private</p> <p>Properties:  xetl/mp = InstallationOperationDetails/InstallationDescription/MeasurementInstrument/UncertaintyPercentage  [ Is static False. Containment is Not Specified. ]</p>

## 2.3.21 MeasurementPoint

Class in package 'Installation'

MeasurementPoint  
Version 1.0 Phase 1.0 Implemented  
swalense created on 13/02/2015. Last modified 08/09/2015

INCOMING STRUCTURAL RELATIONSHIPS
<p>➔ Generalization from MeasurementPoint to MeasurementPoint  [ Direction is 'Source -&gt; Destination'. ]</p>
<p>➔ Generalization from AdditionalMeasurementPoint to MeasurementPoint  [ Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES
<p>◆ reference : string(20) Private</p> <p>Properties:  inst/mp = 6d  inst/r = 7c  xetl/mp = InstallationOperationDetails/InstallationDescription/MeasurementPoint/MeasurementPointID  [ Is static False. Containment is Not Specified. ]</p>
<p>◆ description : string(1000) Private</p> <p>Properties:  inst/mp = 6d  inst/r = 7c  xetl/mp = InstallationOperationDetails/InstallationDescription/MeasurementPoint/MeasurementPointDescription  [ Is static False. Containment is Not Specified. ]</p>
<p>◆ ghgMeasured : GHG Private</p> <p>Properties:  inst/mp = 6d  inst/r = 7c  xetl/mp = InstallationOperationDetails/InstallationDescription/MeasurementPoint/GHGMeasured  [ Is static False. Containment is Not Specified. ]</p>

## 2.3.22 MeasurementRange

Class in package 'Installation'

MeasurementRange

Version 1.0 Phase 1.0 Implemented  
 swalense created on 16/01/2015. Last modified 11/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
← Aggregation from MeasurementRange to MeasurementInstrument [ Name is typicalUseRange. Direction is 'Source -> Destination'. ]	
INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from MeasurementInstrumentRange to MeasurementRange [ Direction is 'Source -> Destination'. ]	
ATTRIBUTES	
◆ lowerEnd : float(4) Private [ Is static False. Containment is Not Specified. ]	
◆ upperEnd : float(4) Private [ Is static False. Containment is Not Specified. ]	

### 2.3.23 Operator

*Class in package 'Installation'*

Operator  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 02/07/2015. Last modified 25/08/2015  
 Extends Operator

OUTGOING STRUCTURAL RELATIONSHIPS	
← Generalization from Operator to Operator [ Direction is 'Source -> Destination'. ]	
INCOMING STRUCTURAL RELATIONSHIPS	
	⇒ Generalization from Operator to Operator [ Direction is 'Source -> Destination'. ]
	⇒ Generalization from Operator to Operator [ Direction is 'Source -> Destination'. ]
	⇒ Generalization from Operator to Operator [ Direction is 'Source -> Destination'. ]
	⇒ Generalization from Operator to Operator [ Direction is 'Source -> Destination'. ]

### 2.3.24 Product

*Class in package 'Installation'*

Product  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/02/2015. Last modified 25/08/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from Product to ReportRawData [ Name is product. Direction is 'Source -&gt; Destination'. ]</p>
ATTRIBUTES
<p>◆ reference : string(20) Private Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False ) [ Is static False. Containment is Not Specified. ]</p>
<p>◆ identifier : string(200) Private Properties: xetl = Installation/EmissionReportDetails/DataGapReportDetails/ProductionDetails/productName [ Is static False. Containment is Not Specified. ]</p>
<p>◆ prodcomCode : string(100) Private Properties: xetl = Installation/EmissionReportDetails/DataGapReportDetails/ProductionDetails/PRODCOMCode [ Is static False. Containment is Not Specified. ]</p>
<p>◆ unit : string(100) Private Properties: xetl = Installation/EmissionReportDetails/DataGapReportDetails/ProductionDetails/Unit [ Is static False. Containment is Not Specified. ]</p>
<p>◆ activityLevel : string(100) Private Properties: xetl = Installation/EmissionReportDetails/DataGapReportDetails/ProductionDetails/ActivityLevel [ Is static False. Containment is Not Specified. ]</p>

### 2.3.25 RemoteInstallation

*Class in package 'Installation'*

RemoteInstallation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/01/2015. Last modified 11/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Aggregation from RemoteInstallation to ReportRawData [ Name is CO2TransferRemoteInstallation. Direction is 'Source -&gt; Destination'. ]</p>
<p>← Aggregation from RemoteInstallation to CO2TransferApproach [ Name is remoteInstallation. Direction is 'Source -&gt; Destination'. ]</p>

ATTRIBUTES	
<p> identifier : string(20) Private            Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Properties:            xetl/mp = InstallationOperationDetails/InstallationDescription/CO2TransferPoint/TransferPointInstallationID            xetl/r =            InstallationEmissionsReportDetails/EmissionsReportCO2Details/EmissionsReportTransferredCO2Details/DestinationInstallationDetails/InstallationID</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p> name : string(250) Private            Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Made optional following comment from DE; operator name deduced from unique ID.</p> <p>Properties:            xetl/mp = InstallationOperationDetails/InstallationDescription/CO2TransferPoint/TransferPointInstallationName            xetl/r =            InstallationEmissionsReportDetails/EmissionsReportCO2Details/EmissionsReportTransferredCO2Details/DestinationInstallationDetails/InstallationName</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p> operatorName : string(250) Private            Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>Made optional following comment from DE; operator name deduced from unique ID.</p> <p>Properties:            xetl/mp = InstallationOperationDetails/InstallationDescription/CO2TransferPoint/TransferPointOperatorName            xetl/r =            InstallationEmissionsReportDetails/EmissionsReportCO2Details/EmissionsReportTransferredCO2Details/DestinationInstallationDetails/OperatorName</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
ASSOCIATIONS	
<p> Association (direction: Unspecified) remoteInstallationReference</p> <p>Source: Public (Class) RemoteInstallation            Cardinality: [1]</p> <p>Target: Public (Class) CO2Transfer            Cardinality: [1..*]</p>	
<p> Association (direction: Unspecified) remoteInstallationReference</p> <p>Source: Public (Class) CO2Transfer            Cardinality: [1..*]</p> <p>Target: Public (Class) RemoteInstallation            Cardinality: [1]</p>	

### 2.3.26 SourceStream

*Class in package 'Installation'*

SourceStream  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 13/02/2015. Last modified 11/08/2015

INCOMING STRUCTURAL RELATIONSHIPS	
➔ Generalization from SourceStream to SourceStream	[ Direction is 'Source -> Destination'. ]
➔ Generalization from AdditionalSourceStream to SourceStream	[ Direction is 'Source -> Destination'. ]

ATTRIBUTES	
<p>◆ reference : string(20) Private</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>inst/mp = 6e</li> <li>inst/r = 7b</li> <li>xetl/mp = InstallationOperationDetails/InstallationDescription/SourceStreamDetails/SourceStreamID</li> <li>xetl/r = Installation/EmissionReportDetails/InstallationReport/SourceStreamDetails/SourceStreamID</li> </ul> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p>◆ type : SourceStreamType Private</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>inst/mp = 6e</li> <li>inst/r = 7b</li> <li>xetl/mp = InstallationOperationDetails/InstallationDescription/SourceStreamDetails/SourceStreamType</li> <li>xetl/r = Installation/EmissionReportDetails/InstallationReport/SourceStreamDetails/SourceStreamType</li> </ul> <p>[ Is static False. Containment is Not Specified. ]</p>	

### 2.3.27 TradePartnerRelation

Class in package 'Installation'

8aii

TradePartnerRelation  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/01/2015. Last modified 11/09/2015

OUTGOING STRUCTURAL RELATIONSHIPS	
⬅ Aggregation from TradePartnerRelation to ActivityDataMeasurementInstrument	[ Name is tradePartnerRelation. Direction is 'Source -> Destination'. ]

ATTRIBUTES	
<p>◆ reference : string(20) Private</p> <p>Multiplicity: ( [0..1], Allow duplicates: 0, Is ordered: False )</p> <p>[ Is static False. Containment is Not Specified. ]</p>	
<p>◆ art29(1)Satisfied : boolean Private</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedCO2/Article29-1Satisfied</li> </ul> <p>[ Is static False. Containment is Not Specified. ]</p>	

ATTRIBUTES
<p>◆ independent : boolean Private</p> <p>Properties:  xetl/mp =  InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedCO2/IfTradePartnerIsIndependent  [ Is static False. Containment is Not Specified. ]</p>
<p>◆ invoiceUsed : boolean Private</p> <p>Properties:  xetl/mp = InstallationOperationDetails/MonitoringPlans/MonitoringPlanDataCO2/CalculatedCO2/FuelByInvoices  [ Is static False. Containment is Not Specified. ]</p>

### 2.3.28 ActivityDataUnit

Enumeration in package 'Installation'

ActivityDataUnit  
Version 1.0 Phase 1.0 Implemented  
swalense created on 13/02/2015. Last modified 29/10/2015

ATTRIBUTES
<p>◆ t : Public</p> <p>[ Stereotype is «enum». Is static False. Containment is Not Specified. ]</p>
<p>◆ 1000Nm3 : Public</p> <p>[ Stereotype is «enum». Is static False. Containment is Not Specified. ]</p>

### 2.3.29 AluminiumCellType

Enumeration in package 'Installation'




AluminiumCellType  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/01/2015. Last modified 29/10/2015




ATTRIBUTES
<p>◆ CWPB : Public</p> <p>[ Stereotype is «enum». Is static False. Containment is Not Specified. ]</p>
<p>◆ SWPB : Public</p> <p>[ Stereotype is «enum». Is static False. Containment is Not Specified. ]</p>
<p>◆ VSS : Public</p> <p>[ Stereotype is «enum». Is static False. Containment is Not Specified. ]</p>
<p>◆ HSS : Public</p> <p>[ Stereotype is «enum». Is static False. Containment is Not Specified. ]</p>

### 2.3.30 AnnexIActivityType

Enumeration in package 'Installation'

AnnexIActivityType  
Version 1.0 Phase 1.0 Implemented  
swalense created on 15/01/2015. Last modified 29/10/2015




ATTRIBUTES	
 combustion_of_fuels : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 refining_of_mineral_oil : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 ... : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

ASSOCIATIONS	
 Association (direction: Unspecified) methodology	
Source: Public (Enumeration) AnnexIActivityType Cardinality: [1..*]	Target: Public (Enumeration) Methodology Cardinality: [1]
 Association (direction: Unspecified) ghgEmitted	
Source: Public (Enumeration) AnnexIActivityType Cardinality: [1..*]	Target: Public (Enumeration) GHG Cardinality: [1..*]
 Association (direction: Unspecified) sourceStreamType	
Source: Public (Enumeration) AnnexIActivityType Cardinality: [1]	Target: Public (Enumeration) SourceStreamType Cardinality: [1..*]

### 2.3.31 CO2TransferType

Enumeration in package 'Installation'

CO2TransferType  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/01/2015. Last modified 29/10/2015

ATTRIBUTES	
 receiving_inherent_CO2 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 exporting_inherent_CO2_to_ETS_installation : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 exporting_inherent_CO2_to_nonETS_consumer : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]



ATTRIBUTES	
◆ receiving_transferred_CO2 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ exporting_transferred_CO2 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.32 CalculationFactorAnalysisFrequency

*Enumeration in package 'Installation'*

CalculationFactorAnalysisFrequency  
Version 1.0 Phase 1.0 Implemented  
swalense created on 20/01/2015. Last modified 29/10/2015

ATTRIBUTES	
◆ continuous : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ daily : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ weekly : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ monthly : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ quaterly : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ biannual : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
◆ annual : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.33 DataDeterminationMethod

*Enumeration in package 'Installation'*

DataDeterminationMethod  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/01/2015. Last modified 29/10/2015




ATTRIBUTES	
◆ batch : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

ATTRIBUTES	
 continuous : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.34 EmissionFactorUnit

*Enumeration in package 'Installation'*




EmissionFactorUnit  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/01/2015. Last modified 29/10/2015

ATTRIBUTES	
 tCO2_TJ : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 tCO2_t : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 tCO2_1000Nm3 : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.35 InstallationCategory

*Enumeration in package 'Installation'*



InstallationCategory  
Version 1.0 Phase 1.0 Implemented  
swalense created on 30/04/2015. Last modified 29/10/2015

ATTRIBUTES	
 A : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 B : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 C : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.36 InstrumentSupervisor

*Enumeration in package 'Installation'*




InstrumentSupervisor  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/01/2015. Last modified 29/10/2015

ATTRIBUTES	
 operator : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 trade_partner : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.37 MeasurementApproach

*Enumeration in package 'Installation'*



MeasurementApproach  
Version 1.0 Phase 1.0 Implemented  
swalense created on 28/01/2015. Last modified 29/10/2015

ATTRIBUTES	
 own_instruments : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 other_installation_instruments : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 both_partners_instruments : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.38 MeasurementPointEmissionCategory

*Enumeration in package 'Installation'*



MeasurementPointEmissionCategory  
Version 1.0 Phase 1.0 Implemented  
SWALENSE created on 28/04/2015. Last modified 29/10/2015

ATTRIBUTES	
 major : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 minor : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.39 MeasurementPointOperationType

*Enumeration in package 'Installation'*





MeasurementPointOperationType  
Version 1.0 Phase 1.0 Implemented  
swalense created on 20/01/2015. Last modified 29/10/2015


ATTRIBUTES	
 typical : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 non_typical : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.40 Methodology

*Enumeration in package 'Installation'*

Methodology  
Version 1.0 Phase 1.0 Implemented  
swalense created on 27/05/2015. Last modified 29/10/2015



ATTRIBUTES	
 combustion : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 mass_balance : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 process_emissions : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 pfc_emissions : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

ASSOCIATIONS	
 Association (direction: Unspecified) methodology	
Source: Public (Enumeration) AnnexIAActivityType Cardinality: [1..*]	Target: Public (Enumeration) Methodology Cardinality: [1]

### 2.3.41 NetCalorificValueUnit

*Enumeration in package 'Installation'*

NetCalorificValueUnit  
Version 1.0 Phase 1.0 Implemented  
swalense created on 19/01/2015. Last modified 29/10/2015



ATTRIBUTES	
 GJ_t : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 GJ_1000Nm3 : Public	


ATTRIBUTES
[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 2.3.42 SourceStreamCategory

Enumeration in package 'Installation'

SourceStreamCategory  
Version 1.0 Phase 1.0 Implemented  
swalense created on 13/02/2015. Last modified 29/10/2015




ATTRIBUTES
 solid_ethane : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 ... : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]

ASSOCIATIONS
 Association (direction: Unspecified) sourceStreamCategory Source: Public (Enumeration) SourceStreamCategory Cardinality: [0..*] Target: Public (Enumeration) SourceStreamType Cardinality: [1]

### 2.3.43 SourceStreamEmissionCategory

Enumeration in package 'Installation'

SourceStreamEmissionCategory  
Version 1.0 Phase 1.0 Implemented  
swalense created on 16/01/2015. Last modified 29/10/2015




ATTRIBUTES
 major : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 minor : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 de_minimis : Public [ Stereotype is «enum». Is static False. Containment is Not Specified. ]



### 2.3.44 SourceStreamType

Enumeration in package 'Installation'

SourceStreamType

Version 1.0 Phase 1.0 Implemented  
 swalense created on 13/02/2015. Last modified 29/10/2015



ATTRIBUTES	
 combustion_solid_fuels : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 combustion_gas_processing_terminals : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 ... : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

ASSOCIATIONS	
 Association (direction: Unspecified) sourceStreamType	
Source: Public (Enumeration) AnnexIActivityType Cardinality: [1]	Target: Public (Enumeration) SourceStreamType Cardinality: [1..*]
 Association (direction: Unspecified) sourceStreamCategory	
Source: Public (Enumeration) SourceStreamCategory Cardinality: [0..*]	Target: Public (Enumeration) SourceStreamType Cardinality: [1]

## 2.3.45 TransportNetworkMonitoringMethod

*Enumeration in package 'Installation'*

TransportNetworkMonitoringMethod  
 Version 1.0 Phase 1.0 Implemented  
 swalense created on 28/01/2015. Last modified 29/10/2015

ATTRIBUTES	
 method_a : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]
 method_b : Public	[ Stereotype is «enum». Is static False. Containment is Not Specified. ]

### 3 XETL modularity

Package in package 'XETL'

XETL modularity  
Version Phase 1.0 Proposed  
created on 10/06/2015. Last modified 04/11/2015  
Alias

#### 3.1 Package layers diagram

Class diagram in package 'XETL modularity'

Package layers  
Version 1.0  
BOVEROUP created on 10/06/2015. Last modified 22/06/2015

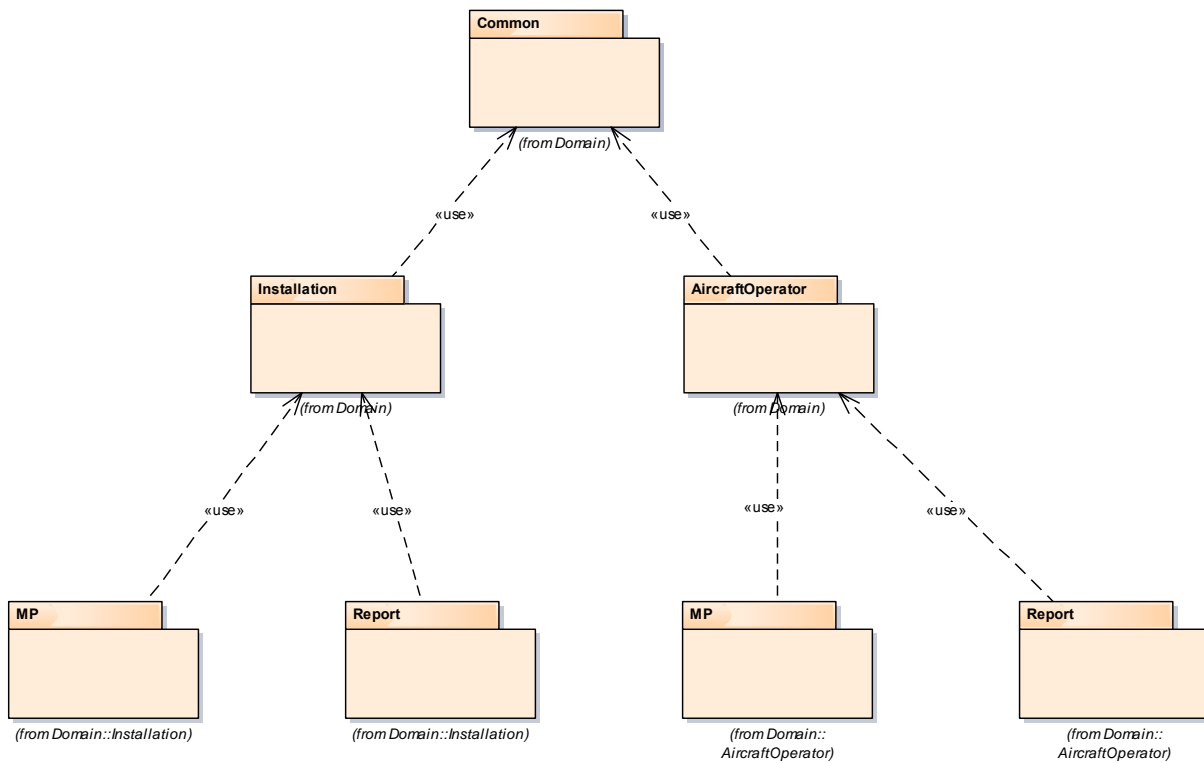


Figure 48: Package layers

#### 3.2 XML modules - aircraft operator diagram

Class diagram in package 'XETL modularity'

XML modules - aircraft operator  
Version 1.0  
BOVEROUP created on 02/09/2015. Last modified 04/11/2015

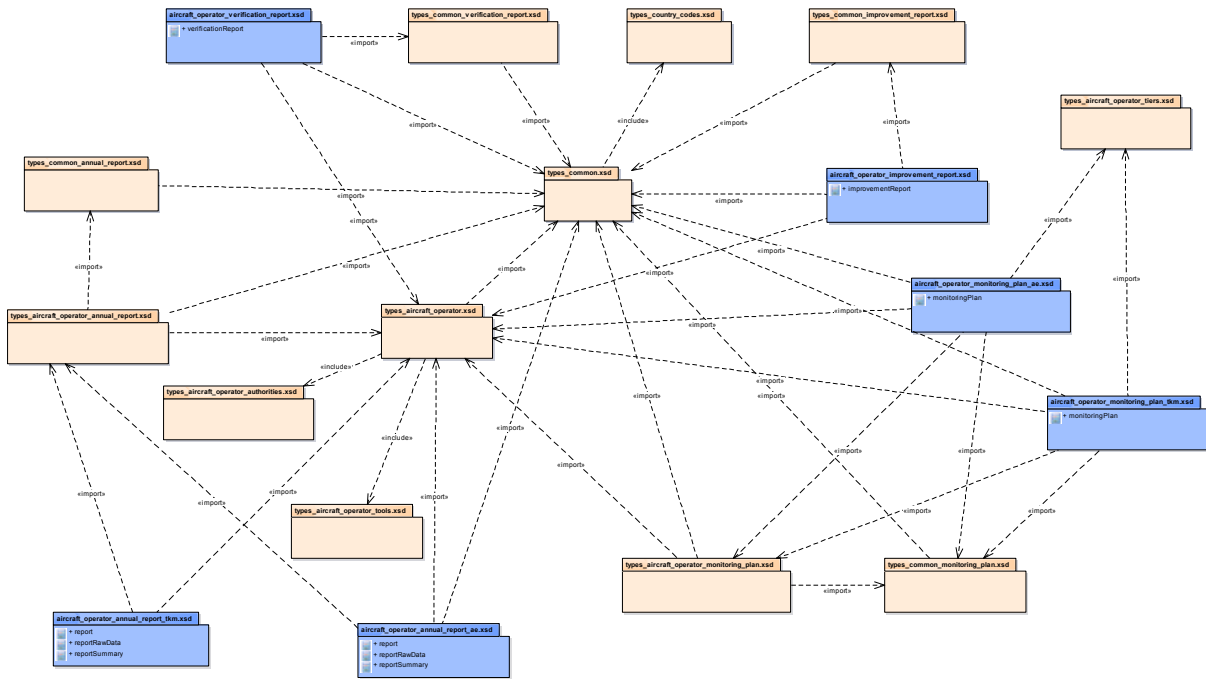


Figure 49: XML modules - aircraft operator

### 3.3 XML modules - installation diagram

Class diagram in package 'XETL modularity'

XML modules - installation  
Version 1.0

BOVEROUP created on 02/09/2015. Last modified 04/11/2015

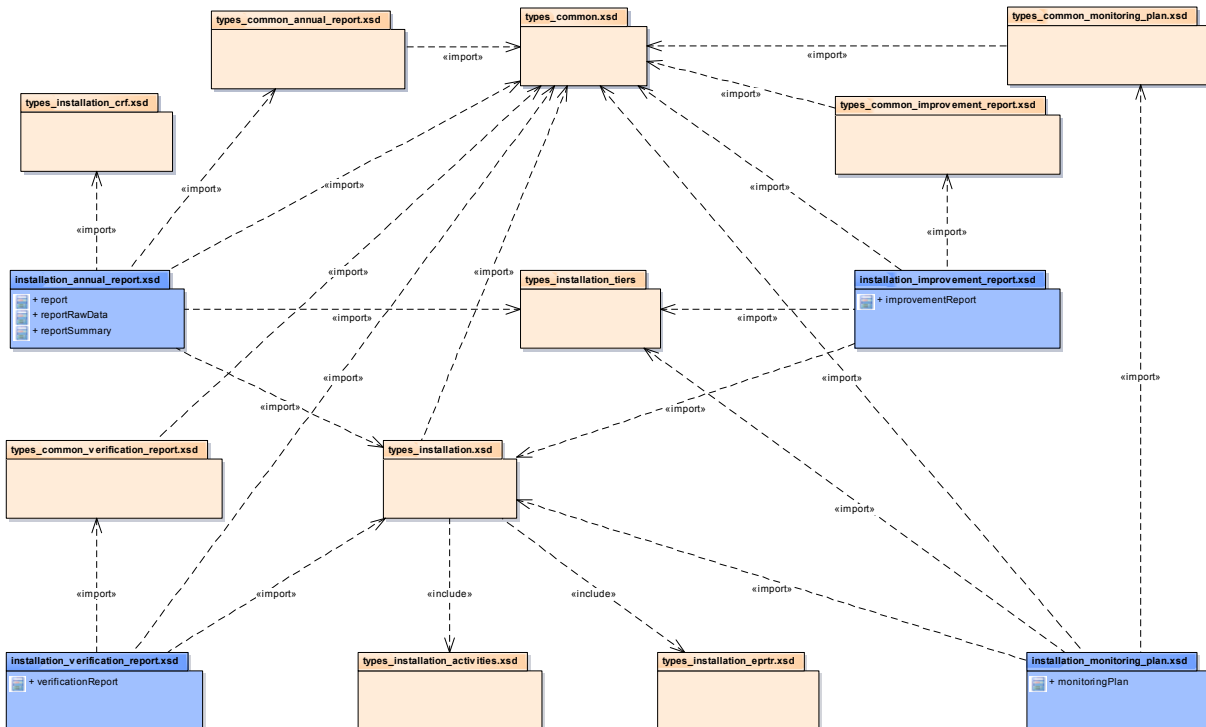


Figure 50: XML modules - installation



### 3.4 XML modules - installation annual report diagram

Class diagram in package 'XETL modularity'

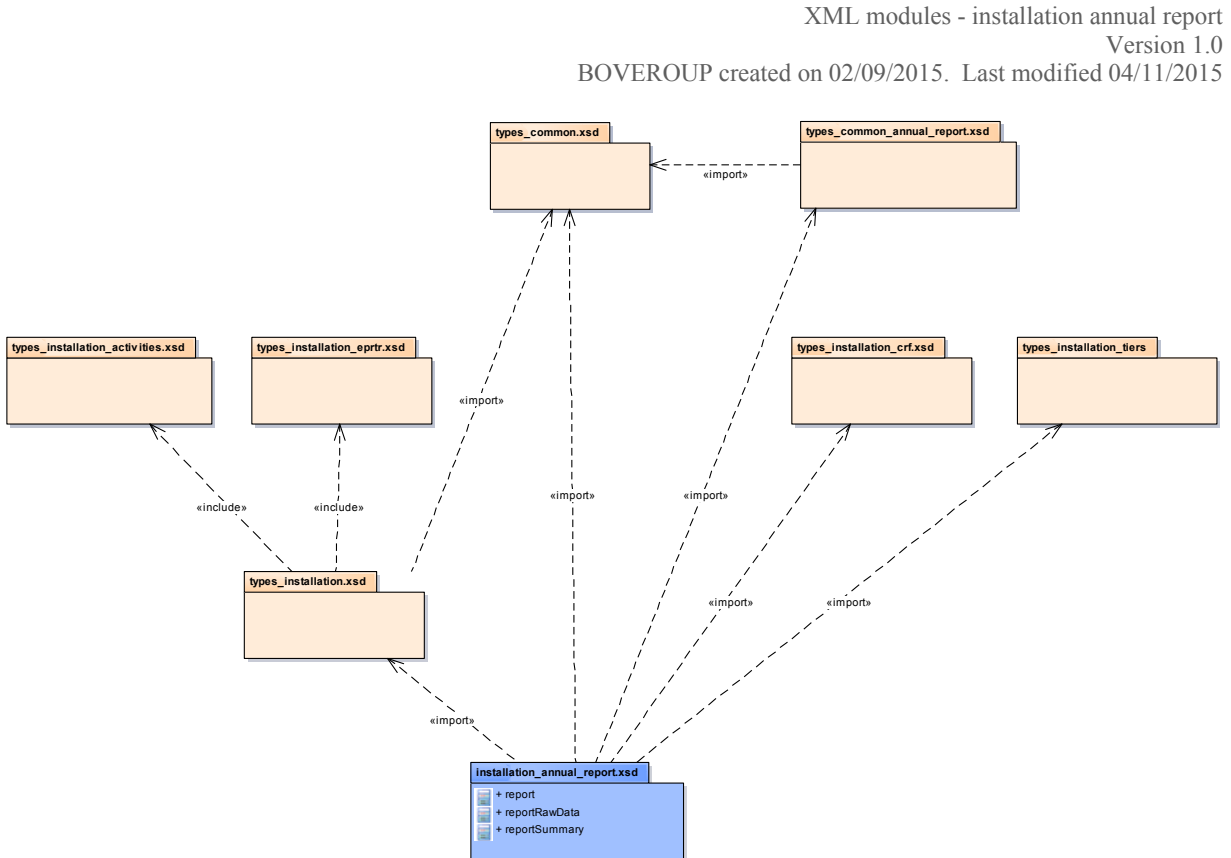


Figure 51: XML modules - installation annual report

### 3.5 aircraft\_operator\_annual\_report\_ae.xsd

Package in package 'XETL modularity'

aircraft\_operator\_annual\_report\_ae.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/09/2015  
Alias

#### 3.5.1 report

Class «XSDelement» in package 'aircraft\_operator\_annual\_report\_ae.xsd'

report  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 04/11/2015. Last modified 04/11/2015

### 3.5.2 reportRawData

*Class «XSDelement» in package 'aircraft\_operator\_annual\_report\_ae.xsd'*

reportRawData  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 04/11/2015. Last modified 04/11/2015

### 3.5.3 reportSummary

*Class «XSDelement» in package 'aircraft\_operator\_annual\_report\_ae.xsd'*

reportSummary  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 04/11/2015. Last modified 04/11/2015

## 3.6 aircraft\_operator\_annual\_report\_tkm.xsd

*Package in package 'XETL modularity'*

aircraft\_operator\_annual\_report\_tkm.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/09/2015  
Alias

### 3.6.1 report

*Class «XSDelement» in package 'aircraft\_operator\_annual\_report\_tkm.xsd'*

report  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 04/11/2015. Last modified 04/11/2015

### 3.6.2 reportRawData

*Class «XSDelement» in package 'aircraft\_operator\_annual\_report\_tkm.xsd'*

reportRawData  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 04/11/2015. Last modified 04/11/2015

### 3.6.3 reportSummary

*Class «XSDelement» in package 'aircraft\_operator\_annual\_report\_tkm.xsd'*

reportSummary  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 04/11/2015. Last modified 04/11/2015

## 3.7 aircraft\_operator\_improvement\_report.xsd

*Package in package 'XETL modularity'*

aircraft\_operator\_improvement\_report.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/09/2015  
Alias

### 3.7.1 improvementReport

*Class «XSDelement» in package 'aircraft\_operator\_improvement\_report.xsd'*

improvementReport  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 04/11/2015. Last modified 04/11/2015

## 3.8 aircraft\_operator\_monitoring\_plan\_ae.xsd

*Package in package 'XETL modularity'*

aircraft\_operator\_monitoring\_plan\_ae.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/09/2015  
Alias

### 3.8.1 monitoringPlan

*Class «XSDelement» in package 'aircraft\_operator\_monitoring\_plan\_ae.xsd'*

monitoringPlan  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 04/11/2015. Last modified 04/11/2015

## 3.9 aircraft\_operator\_monitoring\_plan\_tkm.xsd

*Package in package 'XETL modularity'*

aircraft\_operator\_monitoring\_plan\_tkm.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/09/2015  
Alias

### 3.9.1 monitoringPlan

*Class «XSDelement» in package 'aircraft\_operator\_monitoring\_plan\_tkm.xsd'*

monitoringPlan  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 04/11/2015. Last modified 04/11/2015

## 3.10 aircraft\_operator\_verification\_report.xsd

*Package in package 'XETL modularity'*

aircraft\_operator\_verification\_report.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/09/2015  
Alias

### 3.10.1 verificationReport

*Class «XSDelement» in package 'aircraft\_operator\_verification\_report.xsd'*

verificationReport  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 04/11/2015. Last modified 04/11/2015

## 3.11 installation\_annual\_report.xsd

*Package in package 'XETL modularity'*

installation\_annual\_report.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/09/2015  
Alias

### 3.11.1 report

*Class «XSDelement» in package 'installation\_annual\_report.xsd'*

report  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 02/09/2015. Last modified 04/11/2015

### 3.11.2 reportRawData

*Class «XSDelement» in package 'installation\_annual\_report.xsd'*

reportRawData  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 02/09/2015. Last modified 11/09/2015

### 3.11.3 reportSummary

*Class «XSDelement» in package 'installation\_annual\_report.xsd'*

reportSummary  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 02/09/2015. Last modified 11/09/2015



## 3.12 installation\_improvement\_report.xsd

*Package in package 'XETL modularity'*

installation\_improvement\_report.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/09/2015  
Alias

### 3.12.1 improvementReport

*Class «XSDelement» in package 'installation\_improvement\_report.xsd'*

improvementReport  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 04/11/2015. Last modified 04/11/2015

## 3.13 installation\_monitoring\_plan.xsd

*Package in package 'XETL modularity'*

installation\_monitoring\_plan.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/09/2015  
Alias

### 3.13.1 monitoringPlan

*Class «XSDelement» in package 'installation\_monitoring\_plan.xsd'*

monitoringPlan  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 04/11/2015. Last modified 04/11/2015

## 3.14 installation\_verification\_report.xsd

*Package in package 'XETL modularity'*

installation\_verification\_report.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/09/2015  
Alias

### 3.14.1 verificationReport

*Class «XSDelement» in package 'installation\_verification\_report.xsd'*

verificationReport  
Version 1.0 Phase 1.0 Implemented  
BOVEROUP created on 04/11/2015. Last modified 04/11/2015

### 3.15 types\_aircraft\_operator\_authorities.xsd

*Package in package 'XETL modularity'*

types\_aircraft\_operator\_authorities.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/11/2015. Last modified 02/11/2015  
Alias

### 3.16 types\_aircraft\_operator.xsd

*Package in package 'XETL modularity'*

types\_aircraft\_operator.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias

### 3.17 types\_aircraft\_operator\_annual\_report.xsd

*Package in package 'XETL modularity'*

types\_aircraft\_operator\_annual\_report.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias

### 3.18 types\_aircraft\_operator\_monitoring\_plan.xsd

*Package in package 'XETL modularity'*

types\_aircraft\_operator\_monitoring\_plan.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias

### 3.19 types\_aircraft\_operator\_tools.xsd

*Package in package 'XETL modularity'*

types\_aircraft\_operator\_tools.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias



### 3.20 types\_aircraft\_operator\_tiers.xsd

*Package in package 'XETL modularity'*

types\_aircraft\_operator\_tiers.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias

### 3.21 types\_common.xsd

*Package in package 'XETL modularity'*

types\_common.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias

### 3.22 types\_common\_annual\_report.xsd

*Package in package 'XETL modularity'*

types\_common\_annual\_report.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias

### 3.23 types\_common\_improvement\_report.xsd

*Package in package 'XETL modularity'*

types\_common\_improvement\_report.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias

### 3.24 types\_common\_monitoring\_plan.xsd

*Package in package 'XETL modularity'*

types\_common\_monitoring\_plan.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias

### 3.25 types\_common\_verification\_report.xsd

*Package in package 'XETL modularity'*

types\_common\_verification\_report.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias

### 3.26 types\_installation.xsd

*Package in package 'XETL modularity'*

types\_installation.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias

### 3.27 types\_installation\_activities.xsd

*Package in package 'XETL modularity'*

types\_installation\_activities.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias



### 3.28 types\_installation\_crf.xsd

*Package in package 'XETL modularity'*

types\_installation\_crf.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias

### 3.29 types\_installation\_eprtr.xsd

*Package in package 'XETL modularity'*

types\_installation\_eprtr.xsd  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias

### 3.30 types\_installation\_tiers

*Package in package 'XETL modularity'*

types\_installation\_tiers  
Version 1.0 Phase 1.0 Proposed  
BOVEROUP created on 02/09/2015. Last modified 02/11/2015  
Alias

## 3.31 types\_country\_codes.xsd

*Package in package 'XETL modularity'*

types\_country\_codes.xsd  
Version Phase 1.0 Proposed  
created on 02/09/2015. Last modified 02/11/2015  
Alias