«union» EmissionSourceGeometry
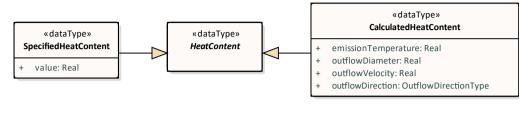
- + GM_Point: GM_Point
- + GM_Curve: GM_Curve
- + GM_Surface: GM_Surface

«dataType» NEN3610ID

- + namespace: CharacterString
- + localId: CharacterString
- + versionId: CharacterString [0..1]

«dataType» EmissionSourceCharacteristics

- + heatContent: HeatContent
- + emissionHeight: Real
- + spread: Real [0..1]
- + diurnalVariation: CharacterString [0..1]
- + building: Building [0..1]

«dataType» SpecifiedHeatContent

- + value: Real

«dataType» HeatContent

«dataType» CalculatedHeatContent

- + emissionTemperature: Real
- + outflowDiameter: Real
- + outflowVelocity: Real
- + outflowDirection: OutflowDirectionType

«dataType» Building

- + height: Real
- + width: Real
- + length: Real
- + orientation: Real [0..1]

«dataType» AeriusCalculatorMetadata

- + project: ProjectMetadata
- + situation: SituationMetadata [0..1]
- + calculation: CalculationMetadata [0..1]
- + version: VersionMetadata [0..1]

«dataType» VersionMetadata

- + aeriusVersion: CharacterString
- + databaseVersion: CharacterString

«dataType» SituationMetadata

- + name: CharacterString [0..1]
- + reference: CharacterString [0..1]

«dataType» CalculationMetadata

- + type: CalculationType
- + substance: Substance [1..*]
- + resultType: ResultType [1..*]
- + maximumRange: Real [0..1]
- + researchArea: Boolean [0..1]

«dataType» ProjectMetadata

- + year: Integer
- + temporaryPeriod: Integer [0..1]
- + permitCalculationRadiusType: CharacterString [0..1]
- + name: CharacterString [0..1]
- + corporation: CharacterString [0..1]
- + facilityLocation: Address [0..1]
- + description: CharacterString [0..1]

«dataType» Address

- + streetAddress: CharacterString
- + postcode: CharacterString
- + city: CharacterString

«enumeration» Substance

- NH3
- NOX
- NO2
- PM10
- PM25

«enumeration» TimeUnit

- HOUR
- DAY
- MONTH
- YEAR

«enumeration» ResultType

- DEPOSITION
- CONCENTRATION

«enumeration» CalculationType

- PERMIT
- NATURE_AREA
- RADIUS
- CUSTOM_POINTS

«enumeration» StandardVehicleType

- LIGHT_TRAFFIC
- NORMAL_FREIGHT
- HEAVY_FREIGHT
- AUTO_BUS

«enumeration» RoadSideBarrierType

- SCREEN
- WALL

«enumeration» RoadElevation

- NORMAL
- NORMAL_DYKE
- STEEP_DYKE
- VIADUCT
- TUNNEL

«enumeration» MaritimeShippingMovementType

- INLAND
- MARITIME

«enumeration» OutflowDirectionType

- VERTICAL
- HORIZONTAL

«enumeration» WaterwayDirectionType

- IRRELEVANT
- UPSTREAM
- DOWNSTREAM

«enumeration» InlandRouteDirectionType

- ARRIVE
- DEPART

«featureType»
OffRoadMobileSourceEmissionSource

+ emission: Emission [0..*]
+ offRoadMobileSource: OffRoadMobileSource [0..*]

«featureType»
EmissionSource

+ emission: Emission [1..*]

GeoObject
«featureType»
EmissionSourceType

+ label: CharacterString [0..1]
+ emissionSourceCharacteristics: EmissionSourceCharacteristics [0..1]
+ geometry: EmissionSourceGeometry
+ sectorId: Integer

«identificatie»
+ identifier: NEN3610ID

«featureType»
PlanEmissionSource

+ emission: Emission [0..*]
+ plan: Plan [1..*]

«featureType»
FarmLodgingEmissionSource

+ emission: Emission [0..*]
+ farmLodging: FarmLodging [0..*]

«featureType»
MaritimeShippingEmissionSource

+ emission: Emission [0..*]
+ maritimeShipping: MaritimeShipping [1..*]
+ movementType: MaritimeShippingMovementType

«featureType»
MooringMaritimeShippingEmissionSource

+ emission: Emission [0..*]
+ mooringMaritimeShipping: MooringMaritimeShipping [1..*]

+element
«featureType»
RoadEmissionSource

+ emission: Emission [0..*]
+ vehicles: Vehicle [1..*]

+inNetwork
«voidable» 0..1
0..*

«featureType»
InlandShippingEmissionSource

+ emission: Emission [0..*]
+ inlandShipping: InlandShipping [1..*]
+ waterway: InlandWaterway

GeoObject
«featureType»
RoadNetwork

+ label: CharacterString [0..1]

«identificatie»
+ identifier: NEN3610ID

«featureType»
MooringInlandShippingEmissionSource

+ emission: Emission [0..*]
+ mooringInlandShipping: MooringInlandShipping [1..*]

«featureType»
SRM2Road

+ isFreeway: Boolean
+ tunnelFactor: Real [0..1]
+ elevation: RoadElevation [0..1]
+ elevationHeight: Integer [0..1]
+ barrierLeft: RoadSideBarrier [0..1]
+ barrierRight: RoadSideBarrier [0..1]
+ partialChange: SRM2LinearReference [0..*]

«dataType»
Result

+ substance: Substance
+ resultType: ResultType
+ value: Real

GeoObject
«featureType»
CalculationPointType

+ GM_Point: GM_Point
+ representation: GM_Surface [0..1]
+ result: Result [0..*]

«identificatie»
+ identifier: NEN3610ID

«featureType»
ReceptorPoint

+ receptorPointId: Integer

«featureType»
CalculationPoint

+ label: CharacterString [0..1]

«dataType» SRM2LinearReference
- + isFreeway: Boolean [0..1]
- + tunnelFactor: Real [0..1]
- + elevation: RoadElevation [0..1]
- + elevationHeight: Integer [0..1]
- + barrierLeft: RoadSideBarrier [0..1]
- + barrierRight: RoadSideBarrier [0..1]

«dataType» SimpleLinearReference
- + fromPosition: Real
- + toPosition: Real

«dataType» InlandWaterway
- + type: CharacterString
- + direction: WaterwayDirectionType [0..1]

«dataType» MaritimeShippingRoute
- + shippingMovementsPerTimeUnit: Integer
- + route: GM_Curve
- + timeUnit: TimeUnit

«dataType» LodgingFodderMeasure
- + fodderMeasureType: CharacterString

«dataType» ReductiveLodgingSystem

«dataType» RoadSideBarrier
- + barrierType: RoadSideBarrierType
- + height: Real
- + distance: Real

«dataType» InlandShippingRoute
- + direction: InlandRouteDirectionType
- + percentageLaden: Integer
- + route: GM_Curve
- + shippingMovementsPerTimeUnit: Integer
- + waterway: InlandWaterway
- + timeUnit: TimeUnit

«dataType» LodgingSystem
- + lodgingSystemType: CharacterString
- + farmLodgingSystemDefinitionType: CharacterString [0..1]

«dataType» AdditionalLodgingSystem
- + numberOfAnimals: Integer

«dataType» CustomOffRoadMobileSource
- + emission: Emission [1..*]
- + emissionSourceCharacteristics: EmissionSourceCharacteristics
- + offRoadVehicleSpecification: OffRoadVehicleSpecification [0..1]

«dataType» StandardOffRoadMobileSource
- + literFuelPerYear: Integer
- + offRoadMobileSourceType: CharacterString

«dataType» StandardVehicle
- + stagnationFactor: Real
- + vehicleType: StandardVehicleType
- + maximumSpeed: Integer [0..1]
- + strictEnforcement: Boolean [0..1]

«dataType» SpecificVehicle
- + vehicleType: CharacterString

«dataType» OffRoadMobileSource
- + description: CharacterString

«dataType» Vehicle
- + vehiclesPerTimeUnit: Real
- + timeUnit: TimeUnit

«dataType» CustomVehicle
- + description: CharacterString
- + emission: Emission [1..*]

«dataType» Plan
- + description: CharacterString
- + amount: Integer
- + planType: CharacterString

«dataType» Emission
- + substance: Substance
- + value: Real

«dataType» EmissionValueType

«dataType» MooringMaritimeShipping
- + shipsPerTimeUnit: Integer
- + averageResidenceTime: Integer
- + inlandRoute: GM_Curve
- + maritimeRoute: MaritimeShippingRoute [0..*]
- + timeUnit: TimeUnit

«dataType» FarmLodging
- + numberOfAnimals: Integer

«dataType» CustomFarmLodging
- + description: CharacterString
- + emissionFactor: Emission [1..*]

«dataType» ShippingType
- + description: CharacterString
- + shipType: CharacterString

«dataType» MaritimeShipping
- + shipsPerTimeUnit: Integer
- + timeUnit: TimeUnit

«dataType» StandardFarmLodging
- + farmLodgingSystemDefinitionType: CharacterString [0..1]
- + farmLodgingType: CharacterString
- + fodderMeasure: LodgingFodderMeasure [0..*]
- + lodgingSystem: LodgingSystem [0..*]

«dataType» MooringInlandShipping
- + averageResidenceTime: Integer
- + route: InlandShippingRoute [1..*]

«dataType» InlandShipping
- + numberOfShipsAtoBperTimeUnit: Integer
- + numberOfShipsBtoAperTimeUnit: Integer
- + percentageLadenAtoB: Integer
- + percentageLadenBtoA: Integer
- + timeUnitShipsAtoB: TimeUnit
- + timeUnitShipsBtoA: TimeUnit

«dataType» ConsumptionOffRoadVehicleSpecification
+ emissionFactor: Real
+ energyEfficiency: Integer
+ consumption: Integer

«dataType» *OffRoadVehicleSpecification*
+ fuelType: CharacterString

«dataType» OperatingHoursOffRoadVehicleSpecification
+ emissionFactor: Real
+ load: Integer
+ power: Integer
+ operatingHours: Integer