«union»
EmissionSourceGeometry

+ GM_Point :GM_Point
+ GM_Curve :GM_Curve
+ GM_Surface :GM_Surface

«dataType»
AeriusCalculatorMetaData

+ year :Integer
+ version :CharacterString [0..1]
+ databaseVersion :CharacterString [0..1]
+ situationName :CharacterString [0..1]
+ reference :CharacterString [0..1]
+ projectName :CharacterString [0..1]
+ corporation :CharacterString [0..1]
+ facilityLocation :Address [0..1]
+ temporaryPeriod :Integer [0..1]
+ description :CharacterString [0..1]
+ submitter :CharacterString [0..1]

«dataType»
EmissionSourceCharacteristics

+ heatContent :Real
+ emissionHeight :Real
+ buildingHeight :Real [0..1]
+ spread :Real [0..1]
+ diurnalVariation :EmissionDiurnalVariation [0..1]
+ heatContentSpecification :HeatContentSpecification [0..1]

«dataType»
NEN3610ID

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

«dataType»
Address

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

«dataType»
HeatContentSpecification

+ emissionTemperature :Real
+ outflowSurface :Real
+ outflowVelocity :Real

«enumeration»
Substance

NH3
NOX
NO2
PM10
PM25

«enumeration»
EmissionDiurnalVariation

CONTINUOUS
INDUSTRIAL_ACTIVITY
SPACE_HEATING
TRAFFIC
ANIMAL_HOUSING
FERTILISER

«enumeration»
ResultType

DEPOSITION
CONCENTRATION

«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»
SRM1SpeedType

URBAN_STAGNATING
URBAN_NORMAL
URBAN_LOW_CONGESTION
NON_URBAN

«enumeration»
SRM1RoadType

TYPE_1
TYPE_2
TYPE_3
TYPE_4

«enumeration»
SRM1TreeType

NONE_OR_FEW
SEPARATED
PACKED

«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..*]

«featureType»
RoadEmissionSource
+ emission :Emission [0..*]
+ vehicles :Vehicle [1..*]

«featureType»
InlandShippingEmissionSource
+ emission :Emission [0..*]
+ inlandShipping :InlandShipping [1..*]

+element
+inNetwork
«voidable»   0..1   0..*

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..*]

«featureType»
SRM1Road
+ speedType :SRM1SpeedType
+ roadType :SRM1RoadType
+ treeType :SRM1TreeType
+ tunnelFactor :Real [0..1]
+ partialChange :SRM1LinearReference [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 :Length
+ toPosition :Length

«dataType» SRM1LinearReference
+ speedType :SRM1SpeedType [0..1]
+ roadType :SRM1RoadType [0..1]
+ treeType :SRM1TreeType [0..1]
+ tunnelFactor :Real [0..1]

«dataType» MaritimeShippingRoute
+ shippingMovements :Integer
+ route :GM_Curve

«dataType» LodgingFodderMeasure
+ fodderMeasureType :CharacterString

«dataType» ReductiveLodgingSystem

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

«dataType» InlandShippingRoute
+ direction :InlandRouteDirectionType
+ percentageLaden :Integer
+ route :GM_Curve
+ shippingMovements :Integer

«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
+ vehiclesPerDay :Real

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

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

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

«dataType» EmissionValueType

«dataType» FarmLodging
+ numberOfAnimals :Integer

«dataType» MooringMaritimeShipping
+ shipsPerYear :Integer
+ averageResidenceTime :Integer
+ inlandRoute :GM_Curve
+ maritimeRoute :MaritimeShippingRoute [0..*]

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

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

«dataType» MaritimeShipping
+ shipsPerYear :Integer

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

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

«dataType» InlandShipping
+ numberOfShipsAtoB :Integer
+ numberOfShipsBtoA :Integer
+ percentageLadenAtoB :Integer
+ percentageLadenBtoA :Integer

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

«dataType» *OffRoadVehicleSpecification*
+ fuelType :CharacterString

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