«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]
+ monitorSrm2Year: Integer [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
EC

«enumeration» TimeUnit
HOUR
DAY
MONTH
YEAR

«enumeration» ResultType
DEPOSITION
CONCENTRATION
EXCEEDANCE_DAYS
EXCEEDANCE_HOURS

«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» RejectionGrounds
NONE
COMPLIANCE_CRITERION
EXPOSURE_CRITERION
OTHER

«enumeration» MonitorSubstance
NONE
PM10_ONLY
ALL

«enumeration» WaterwayDirectionType
IRRELEVANT
UPSTREAM
DOWNSTREAM

«enumeration» InlandRouteDirectionType
ARRIVE
DEPART

«enumeration» TreeProfile
NONE_OR_FEW
SEPARATED
PACKED

«enumeration» SpeedProfile
URBAN_TRAFFIC_STAGNATING
URBAN_TRAFFIC_NORMAL
URBAN_TRAFFIC_FREE_FLOW
NON_URBAN_TRAFFIC

«enumeration» RoadProfile
WIDE_STREET_CANYON
NARROW_STREET_CANYON
ONE_SIDE_BUILDINGS
OTHER

«enumeration» RoadManager
MUNICIPALITY
PROVINCE
STATE
WATER_AUTHORITY
PRIVATE

«featureType» OffRoadMobileSourceEmissionSource
+ emission: Emission [0..*]
+ offRoadMobileSource: OffRoadMobileSource [0..*]

«featureType» EmissionSource
+ emission: Emission [1..*]

«featureType» EmissionSourceType — *GeoObject*
+ label: CharacterString [0..1]
+ description: CharacterString [0..1]
+ emissionSourceCharacteristics: EmissionSourceCharacteristics [0..1]
+ sectorId: Integer
+ jurisdictionId: Integer [0..1]
+ geometry: EmissionSourceGeometry
«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» InlandShippingEmissionSource
+ emission: Emission [0..*]
+ inlandShipping: InlandShipping [1..*]
+ waterway: InlandWaterway

«featureType» MooringInlandShippingEmissionSource
+ emission: Emission [0..*]
+ mooringInlandShipping: MooringInlandShipping [1..*]

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

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

«featureType» RoadNetwork — *GeoObject*
+ label: CharacterString [0..1]
«identificatie»
+ identifier: NEN3610ID

«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
+ speedProfile: SpeedProfile
+ tunnelFactor: Real [0..1]
+ partialChange: SRM1LinearReference [0..*]

+road 1
+connection 0..*

«featureType» SRM1RoadDispersionLine — *GeoObject*
+ label: CharacterString [0..1]
+ description: CharacterString [0..1]
+ jurisdictionId: Integer [0..1]
+ roadProfile: RoadProfile
+ treeProfile: TreeProfile
+ geometry: GM_Curve [0..1]
«identificatie»
+ identifier: NEN3610ID

+connection 0..*
+calculationPoint 1

«dataType» CalculationPointCorrection
+ label: CharacterString [0..1]
+ description: CharacterString [0..1]
+ jurisdictionId: Integer [0..1]
+ substance: Substance
+ resultType: ResultType
+ value: Real

«dataType» CalculationResult
+ substance: Substance
+ resultType: ResultType
+ sourceCategory: CharacterString [0..1]
+ value: Real

«featureType» CalculationPointType — *GeoObject*
+ GM_Point: GM_Point
+ representation: GM_Surface [0..1]
+ result: CalculationResult [0..*]
+ label: CharacterString [0..1]
+ description: CharacterString [0..1]
+ jurisdictionId: Integer [0..1]
+ correction: CalculationPointCorrection [0..*]
«identificatie»
+ identifier: NEN3610ID

«featureType» ReceptorPoint
+ receptorPointId: Integer

«featureType» CalculationPoint

«featureType» NSLCalculationPoint
+ rejectionGrounds: RejectionGrounds [0..1]
+ monitorSubstance: MonitorSubstance [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» SRM1LinearReference
+ speedProfile: SpeedProfile [0..1]
+ tunnelFactor: Real [0..1]

«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

GeoObject
«featureType»
SRM1RoadMeasureArea

+ label: CharacterString [0..1]
+ description: CharacterString [0..1]
+ jurisdictionId: Integer [0..1]
+ measure: SRM1RoadMeasure [1..*]
+ geometry: GM_Surface

«identificatie»
+ identifier: NEN3610ID

«dataType»
SRM1RoadMeasure

+ vehicleType: StandardVehicleType
+ speedProfile: SpeedProfile
+ reduction: EmissionReduction [1..*]

«dataType»
EmissionReduction

+ substance: Substance
+ factor: Real