

AGENTINTERFACE

Why are the following methods not supported by the World_OSI::AgentAdapter

CONST METHODS

- GetAccelerationAbsolute -> Use GetAcceleration
- GetAccelerationX -> Use GetVelocity
- GetAccelerationY -> Use GetVelocity
- GetAgentId -> Modules get AgentInterfaces instead for other queries
- GetAgentTypeId -> GetVehicleModelType
- GetCollisionData -> GetCollisionPartners
- GetCollisionState -> GetCollisionPartners
- GetDistanceCOGtoFrontAxle -> COG currently not implemented (use GetDistanceReferencePointToFrontAxle instead)
- GetDistanceCOGtoLeadingEdge -> COG currently not implemented (use GetDistanceReferencePointToLeadingEdge instead)
- GetVelocityX -> Use GetVelocity
- GetVelocityY -> Use GetVelocity
- IsBicycle -> Specialization of type not supported (or you get IsCar, IsTruck, IsPedestrian, IsScooter, ...)
- IsFirstCarInLane -> Needs to be augmented by driver ("where does the lane start?"). In addition, such generic questions are elevated into the WorldInterface

"INTENTION"

An agent should not be able to query the intentions of another agent. Further, this is very specific for cars

- GetAccelerationIntention
- GetAngleIntention
- GetDecelerationIntention

"NEAREST"

Should be handled over Sensors or augmented by Driver. See also GetObjectInFront, GetObjectBehind, GetDistanceToObject

- GetAgentViewDirectionToNearestMark
- GetDistanceToNearestAgentInViewRange
- GetDistanceToNearestMark
- GetDistanceToNearestMarkInViewDirection
- GetDistanceToNearestMarkInViewRange
- GetDistanceToNearestObjectInViewRange
- GetIdOfNearestAgent
- GetOrientationOfNearestMark
- GetOrientationOfNearestMarkInViewDirection
- GetOrientationOfNearestMarkInViewRange
- GetTypeOfNearestMark
- GetTypeOfNearestMarkString
- GetTypeOfNearestObject
- GetViewDirectionToNearestAgentInViewRange
- GetViewDirectionToNearestMark
- GetViewDirectionToNearestMarkInViewRange
- GetViewDirectionToNearestObjectInViewRange
- GetVisibilityToNearestAgentInViewRange

"TRAJECTORY"

Handled by TrajectoryFollower component

- GetTrajectoryAngle
- GetTrajectoryTime
- GetTrajectoryVelocity
- GetTrajectoryXPos
- GetTrajectoryYPos

NONCONST METHODS

- GetAllAgentsInLane -> GetAllWorldObjectsInFront
- GetDistanceFrontAgentToEgo -> GetDistanceToObject
- GetDistanceToFrontAgent-> GetDistanceToObject
- GetDistanceToRearAgent-> GetDistanceToObject
- GetDistanceToSpecialAgent -> No differentiation of special or ego anymore
- GetYawAcceleration
- HasTwoLeftLanes
- HasTwoRightLanes
- InitAgentParameter
- IsAgentAtEndOfRoad
- IsObstacle
- EstimateLaneChangeState

VOID NONCONST METHODS

- RemoveSpecialAgentMarker
- SetAccelerationIntention
- SetAccelerationX
- SetAccelerationY
- SetAngleIntention
- SetCollisionState
- SetDecelerationIntention
- SetDistanceCOGtoFrontAxle
- SetDistanceCOGtoLeadingEdge
- SetObstacleFlag
- SetSpecialAgentMarker
- SetVelocityX
- SetVelocityY
- SetYawAcceleration

SUPPORTED METHODS

- ExistsLaneLeft
- ExistsLaneRight
- GetAgentCategory
- GetAgentInFront
- GetAgentsInRange
- GetAgentsInRangeAbsolute

- GetAgentTypeName
- GetAllAgentsInFront
- GetAllWorldObjectsInFront
- GetBrakeLight
- GetCollisionPartners
- GetDistanceReferencePointToFrontAxle
- GetDistanceReferencePointToLeadingEdge
- GetDistanceToConnectorDeparture
- GetDistanceToConnectorEntrance
- GetDistanceToEndOfExit
- GetDistanceToEndOfLane
- GetDistanceToEndOfRamp
- GetDistanceToNextJunction
- GetDistanceToStartOfRoad
- GetDistanceTraveled
- GetDriverProfileName
- GetEffAccelPedal
- GetEffBrakePedal
- GetEngineSpeed
- GetFlasher
- GetFrictionCoeff
- GetGear
- GetHeadLight
- GetHeightCOG
- GetHighBeamLight
- GetHorn
- GetId
- GetIndicatorState
- GetLaneCurvature
- GetLaneDirection
- GetLaneIdLeft
- GetLaneIdRight
- GetLaneMarkingsInRange
- GetLaneRemainder
- GetLaneWidth
- GetLaneWidthRightDrivingAndStopLane
- GetLightState
- GetMainLaneId
- GetMaxAcceleration
- GetMaxDeceleration
- GetMomentInertiaPitch
- GetMomentInertiaRoll
- GetMomentInertiaYaw
- GetNumberOfLanes
- GetObjectBehind
- GetObjectInFront
- GetObjectsInRange
- GetPositionLateral
- GetRelativeJunctions
- GetRelativeLanes
- GetRelativeYaw

- GetRoadId
- GetRoadPosition
- GetRoute
- GetScenarioName
- GetSecondaryCoveredLanes
- GetSensorParameters
- GetSpeedGoalMin
- GetSteeringWheelAngle
- GetTrackWidth
- GetTrafficSignsInRange
- GetType
- GetVehicleModelParameters
- GetVehicleModelType
- GetVehicleType
- GetVelocity
- GetWeight
- GetWheelbase
- GetYawRate
- InitAgentParameter
- IsAgentInWorld
- IsCrossingLanes
- IsEgoAgent
- IsLaneDrivingLane
- IsLaneExitLane
- IsLaneRamp
- IsLaneStopLane
- IsLeavingWorld
- IsValid
- Locate
- RemoveAgent
- SetAcceleration
- SetBrakeLight
- SetDistanceReferencePointToFrontAxle
- SetDistanceReferencePointToLeadingEdge
- SetDistanceTraveled
- SetEffAccelPedal
- SetEffBrakePedal
- SetEngineSpeed
- SetFlasher
- SetFrictionCoeff
- SetGear
- SetHeadLight
- SetHeight
- SetHeightCOG
- SetHighBeamLight
- SetHorn
- SetIndicatorState
- SetLength
- SetMaxAcceleration
- SetMaxDeceleration
- SetMomentInertiaPitch

- SetMomentInertiaRoll
- SetMomentInertiaYaw
- SetPosition
- SetPositionX
- SetPositionY
- SetSensorParameters
- SetSteeringRatio
- SetSteeringWheelAngle
- SetTrackWidth
- SetVelocity
- SetWeight
- SetWheelbase
- SetWidth
- SetYaw
- SetYawRate
- Unlocate
- Unregister
- Update
- UpdateCollision