

Open SDV API

Driver API

バージョン 202603 α
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
変更履歴

バージョン	発行日	備考
202503 α	2025年3月31日	初版
202509 α	2025年9月30日	第2版
202603 α	2026年3月31日	第3版

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①対象 (オブジェクト)	API要素		③論理レベル (セマンティックレベル)				④物理レベル (シグナックスレベル)				②対象に関する情報・考察 (API)
			名称	引数	戻り値	ビークルOSカーネル / (ビークルライブラリ / ビークルミドルウェア) に実装する機能等 (安全性に関する考察等)	名称	引数 単位 (LSB) ・ 型 ・ ビット長	戻り値 単位 (LSB) ・ 型 ・ ビット長	ビークルOSカーネル / (ビークルライブラリ / ビークルミドルウェア) に実装する機能等 (安全性に関する考察等)	
Vehicle.Driver	サイ ビ ス コ ー ル	Configuration Overall Driver Observation, State Estimation, and Intent Estimation Capability	getConfig()	none	<ul style="list-style-type: none"> Counts of supported observation signals, state estimations, intent estimations, and personalization profiles For each supported item: <ul style="list-style-type: none"> parameter name data type / unit / coordinate frame confidence or uncertainty model operating range and preconditions sensing modality and measurement principle update rate and latency privacy classification and access policy 	Returns static capability metadata. Raw biometric templates shall not be exposed to applications. Safety- and privacy-relevant items shall be policy controlled.					TBD
Vehicle.Driver.Device	サイ ビ ス	Configuration Sensor Device Configuration	getDeviceConfig()	none	<ul style="list-style-type: none"> DriverDeviceCount Device[] [DeviceId, DeviceType, IsPrimary, MountingPosition(X,Y,Z), MountingOrientation(Rol, Pitch, Yaw)] (VSS) MountingPositionReferencePoint ; (ISO8855) RoadLevelCenterOfRearAxle DeviceType : Camera / NIR Camera / FIR Camera / Microphone / WeightSensor / TouchSensor / HapticsSensor 	静的な値を返すことを想定する。					TBD
Vehicle.Driver	サイ ビ ス コ ー ル	Status Overall Driver Observation, State Estimation, and Intent Estimation Summary	getStatus()	none	<ul style="list-style-type: none"> Counts of currently available observation signals, state estimations, and intent estimations Timestamp Notification of items whose values or confidence models changed For each changed item: <ul style="list-style-type: none"> parameter name current value uncertainty or confidence level update rate reason for change 						TBD
	イ ト ー ン	Status Overall Driver Observation, State Estimation, and Intent Estimation Summary	onStatusChanged()	none	Triggered when supported driver-related status items change. The event shall identify the changed item, the new value, the associated uncertainty or confidence level, and the reason for change.						
Vehicle.Driver.IdentityProfile	サイ ビ ス コ ー ル	Status Driver Identity and Profile ドライバーの個人的情報	getStatus()	none	<ul style="list-style-type: none"> Identifier(M) 個人認証 Identifier attributes based on OAuth 2.0 IdentifierSubject(M) 個人認証 Subject for the authentication of the occupant e.g. UserID 7331677 IdentifierIssuer(M) 個人認証 Unique issuer for the authentication of the occupant e.g. https://accounts.fincorp.com AuthenticationConfidenceLevel (O) Confidence level for driver identification 信頼度 Sex (O) Declared or inferred sex 個人性別 SexConfidenceLevel (O) Confidence level for sex estimation 個人性別 信頼度 AgeEstimate (O) Estimated driver age 個人年齢 AgeUncertainty (O) Uncertainty of age estimation (2σ) 個人年齢 誤差(2σ) DrivingLicenseStatus (O) Driving license status or class 個人運転免許 DrivingLicenseConfidenceLevel (O) Confidence level for driving license estimation 個人運転免許 信頼度 UserProfileId (O) User profile identifier for IVI personalization UserProfileConfidenceLevel (O) Confidence level for user profile identification LanguagePreference (O) Preferred language LanguagePreferenceConfidenceLevel (O) Confidence level for preferred language AccessibilityProfile (O) Accessibility profile for HMI presentation AccessibilityProfileConfidenceLevel (O) Confidence level for accessibility profile SeatMemoryProfileId (O) Seat memory profile identifier SeatMemoryProfileConfidenceLevel (O) Confidence level for seat memory profile CabinComfortProfileId (O) Cabin comfort profile identifier CabinComfortProfileConfidenceLevel (O) Confidence level for cabin comfort profile RoutePreferenceProfileId (O) Route preference profile identifier RoutePreferenceProfileConfidenceLevel (O) Confidence level for route preference profile MediaPreferenceProfileId (O) Media preference profile identifier MediaPreferenceProfileConfidenceLevel (O) Confidence level for media preference profile DrivingStyleProfileId (O) Driving style profile identifier DrivingStyleProfileConfidenceLevel (O) Confidence level for driving style profile TraitProfileId (O) Trait profile identifier TraitProfileConfidenceLevel (O) Confidence level for trait profile 	Normative identity fields shall be minimized. Protected personal data shall not be exposed unless explicitly authorized and required by policy.					TBD
	サイ ビ ス コ ー ル	Status Driver Identity and Profile ドライバーの個人的情報	getStatus()	none	<ul style="list-style-type: none"> LanguagePreferenceConfidenceLevel (O) Confidence level for preferred language AccessibilityProfileConfidenceLevel (O) Confidence level for accessibility profile SeatMemoryProfileConfidenceLevel (O) Confidence level for seat memory profile CabinComfortProfileConfidenceLevel (O) Confidence level for cabin comfort profile RoutePreferenceProfileConfidenceLevel (O) Confidence level for route preference profile MediaPreferenceProfileConfidenceLevel (O) Confidence level for media preference profile DrivingStyleProfileConfidenceLevel (O) Confidence level for driving style profile TraitProfileConfidenceLevel (O) Confidence level for trait profile 	Use profile identifiers instead of directly exposing protected personal attributes that are unnecessary for vehicle operation or IVI personalization.					TBD
Vehicle.Driver.PreferenceProfile	サイ ビ ス	Status Driver Preference Profile ドライバーの経路選択・運転に対する個人特性	getStatus()	none	<ul style="list-style-type: none"> RoutePreferenceWeights (O) Weights for safety, travelTime, comfort, energyEfficiency, tollCost 経路選択における重要要素 (それぞれ重み) RoutePreferenceWeightsConfidenceLevel (O) Confidence level for route preference weights 経路選択における重要要素の信頼度 (それぞれ重みの信頼度) RouteSelectionHistory (O) Route selection history DrivingStylePreference (O) smooth, sporty, defensive, efficient 運転に対する好み DrivingStylePreferenceConfidenceLevel (O) Confidence level for driving style preference 運転に対する好みの信頼度 DrivingStylePreferenceHistory (O) Driving style preference history 	Preference weights are long-term personalization data and may be learned over time from repeated user behavior.					TBD
	サイ ビ ス コ ー ル	Status Driver Physical Observation	getStatus()	none	<ul style="list-style-type: none"> HeadPoseAndFaceBox (M) head position [x,y,z], head pose [yaw,pitch,roll], face bounding box [height,width] 顔位置・向き・顔高さ・幅 HeadPoseAndFaceBoxUncertainty (M) Uncertainty of head position, head pose, and face bounding box 顔位置・向き・顔高さ・幅の誤差 EyeStateAndGaze (O) eye position, pupil position, gaze direction, eye openness 目位置, 瞳孔位置, 視線方向, 瞳孔開度 EyeStateAndGazeUncertainty (O) Uncertainty of eye state and gaze 目位置, 瞳孔位置, 視線方向, 瞳孔開度 誤差 EyewearState (O) glasses, sunglasses, contact lenses, eyepatch メガネ, サングラス, コンタクトレンズ, 眼帯 EyewearConfidenceLevel (O) Confidence level for eyewear state メガネ, サングラス, コンタクトレンズ, 眼帯 信頼度 MouthStateAndSpeechActivity (O) mouth position, mouth openness, speech activity 口位置, 発話 MouthStateAndSpeechActivityUncertainty (O) Uncertainty of mouth state and speech activity 口位置, 発話 誤差 HandPosition (O) Left and right hand position 手位置 (右, 左) HandPositionUncertainty (O) Uncertainty of left and right hand position 手位置 (右, 左) 誤差 SteeringWheelGripState (M) Steering wheel grip state ステアリング把持状態 SteeringWheelGripStateConfidenceLevel (M) Confidence level for steering wheel grip state ステアリング把持状態 信頼度 TorsoPose (O) Torso center position and orientation 胴体姿勢 (中心位置と方位) TorsoPoseUncertainty (O) Uncertainty of torso pose 胴体姿勢 (中心位置と方位) 誤差 LegPositionAndPedalOperation (O) Leg position and pedal operation state 足位置, ペダル操作状況 LegPositionAndPedalOperationUncertainty (O) Uncertainty of leg position and pedal operation state 足位置, ペダル操作状況 誤差 HeightEstimate (O) Estimated driver height 個人身長 HeightUncertainty (O) Uncertainty of height estimation (2σ) 個人身長 誤差(2σ) WeightEstimate (O) Estimated driver weight 個人体重 WeightUncertainty (O) Uncertainty of weight estimation (2σ) 個人体重 誤差(2σ) 	Continuous observation values should provide coordinate frame, update rate, and uncertainty or confidence semantics. Gaze-related fields should align with ISO 15007 vocabulary where applicable.					TBD
Vehicle.Driver.PhysiologicalMeasurement	サイ ビ ス	Status Driver Physiological Measurement ドライバーの生理量計測情報	getStatus()	none	<ul style="list-style-type: none"> HeartRate (O) Heart rate 心拍数 HeartRateUncertainty (O) Uncertainty of heart rate 心拍数 誤差 RespirationRate (O) Respiration rate 呼吸数 RespirationRateUncertainty (O) Uncertainty of respiration rate 呼吸数 誤差 	Physiological measurements are optional and highly privacy-sensitive. Implementations should prefer on-device processing and policy-based access control.					TBD
Vehicle.Driver.CognitiveState	サイ ビ ス コ ー ル	Status Driver Cognitive State Estimation ドライバーの論理状態推定情報	getStatus()	none	<ul style="list-style-type: none"> FatigueLevel (M) Estimated fatigue level 疲労度 FatigueUncertainty (M) Uncertainty of fatigue estimation 疲労度 誤差 Drowsiness (M) Estimated drowsiness 眠気レベル DrowsinessUncertainty (M) Uncertainty of drowsiness estimation 眠気レベル 誤差 AttentionState (O) Estimated attention state 注意度 AttentionUncertainty (O) Uncertainty of attention estimation 注意度 誤差 DistractionState (M) none, visual, manual, cognitive 注意散漫状態 DistractionConfidenceLevel (M) Confidence level for driver distraction state 注意散漫状態 誤差 AffectiveState (O) Affective state and intensity 感情とその強度 AffectiveStateConfidenceLevel (O) Confidence level for emotional state 感情度とその度合 誤差 PanicLevel (O) Estimated panic level ハニック度 PanicUncertainty (O) Uncertainty of panic estimation ハニック度 誤差 UnresponsiveState (M) Unresponsive driver state 運転不能状態 UnresponsiveConfidenceLevel (M) Confidence level for unresponsive driver state 運転不能状態 信頼度 	Cognitive state items are estimated states, not ground truth. Definitions, thresholds, and confidence models shall be implementation documented and safety reviewed.					TBD
Vehicle.Driver.IntentAndCompliance	サイ ビ ス	Status	getStatus()	IntentEstimation (O) Current driving intent and predicted next driving intent 運転意図推定 (現在の運転意図と次の運転意図)	Intent and compliance estimates should be clearly						

Compliance Violation	 Driver Intent and Compliance Violation Estimation ドライバーの意図推定情報	getStatus()	なし	IntentEstimationUncertainty (O) Uncertainty of driving intent estimation <small>運転意図推定 誤差</small>	<small>Intention and compliance estimates should be clearly separated from direct actuation commands. Regulatory use requires jurisdiction-specific interpretation.</small>
				ComplianceViolationState (O) Traffic rule violation state <small>運転違反</small>	
				ComplianceViolationConfidenceLevel (O) Confidence level for traffic rule violation state <small>運転違反 信頼度</small>	

TBD

