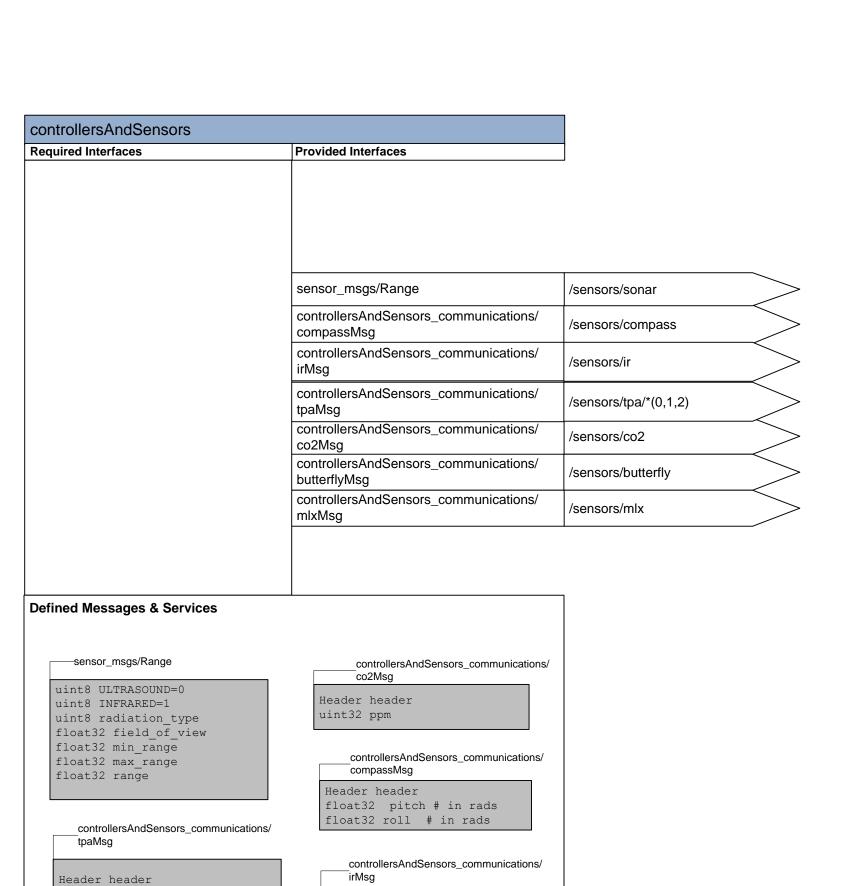
Sensors



Header header

__mlxTempMsg

Header header

int32[5] distance #in mm

float32[2] mlxTemp #Celcius

_controllersAndSensors_communications/

int32 ambientTemp #Celcius

int32[8] pixelTemp #Celcius

controllersAndSensors_communications/

float32[2] voltage #in volts

uint8 id unit8 CENTER=0 unit8 LEFT=0 uint8 RIGHT=0

uint8 LEFT_REAR=0

butterflyMsg

Header header

uint8 RIGHT_REAR=0

Vision Provided Interfaces ImageTransport /vision/image vision_communications/HolesDirectionsVectorMsg /vision/hole_direction vision_communications/QRAlertsVectorMsg /vision/qr_alert vision_communications/HazmatAlertsVectorMsg.msg /vision/hazmat_alert /vision/face_direction vision_communications/FaceDirectionMsg.msg vision_communications/MotionMsg /vision/motion _vision_comunications/ HazmatAlertsVectorMsg Header header HoleDirectionMsg[] holesDirections HazmatAlertMsg[] hazmatAlerts float32 yaw float32 pitch uint8 patternType

_vision_comunications/

motionMsg

float32 probability

Header header

vision_comunications/

faceDirectionMsg

Header header

float32 yaw

float32 pitch

float32 probability

Required Interfaces

Defined Messages & Services

Header header

float32 yaw

Header header

float32 yaw float32 pitch

string QRcontent

float32 pitch

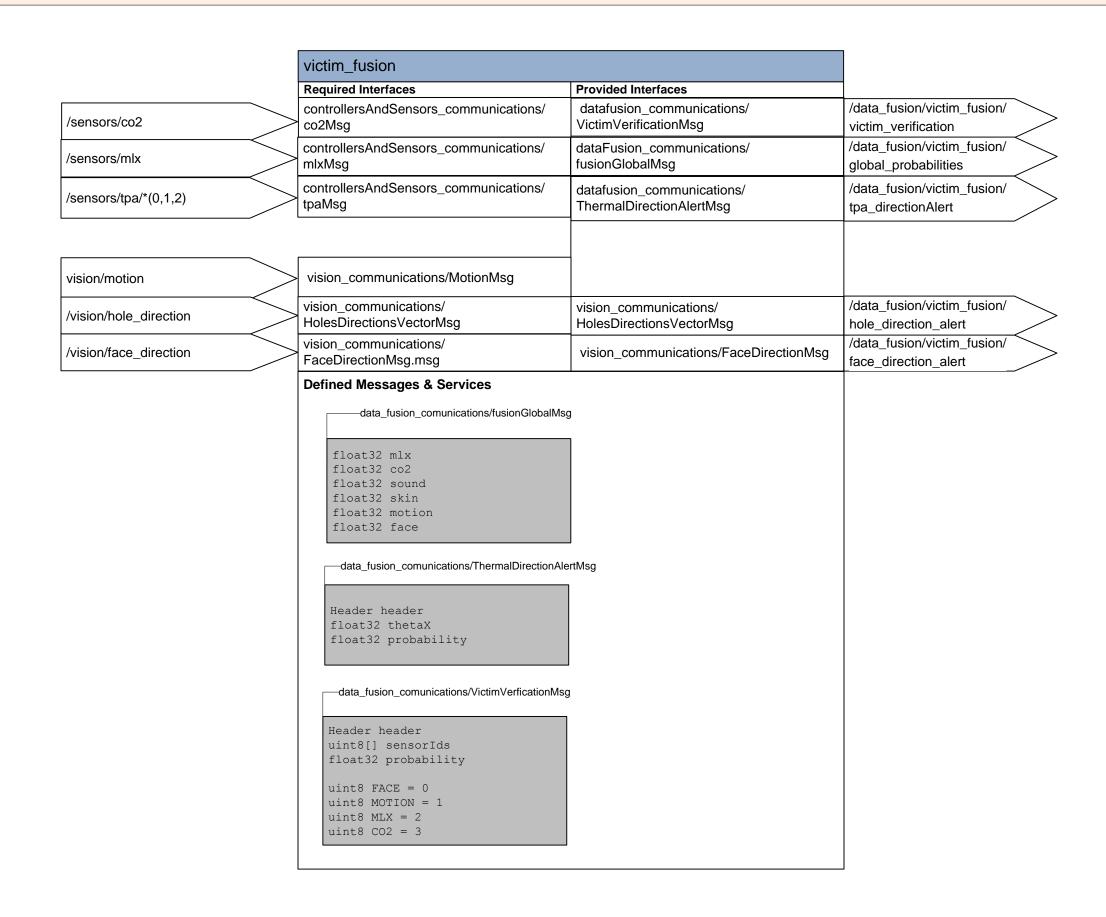
float32 probability uint64 holeId

__vision_comunications/ victimIdentificationDirectionMsg

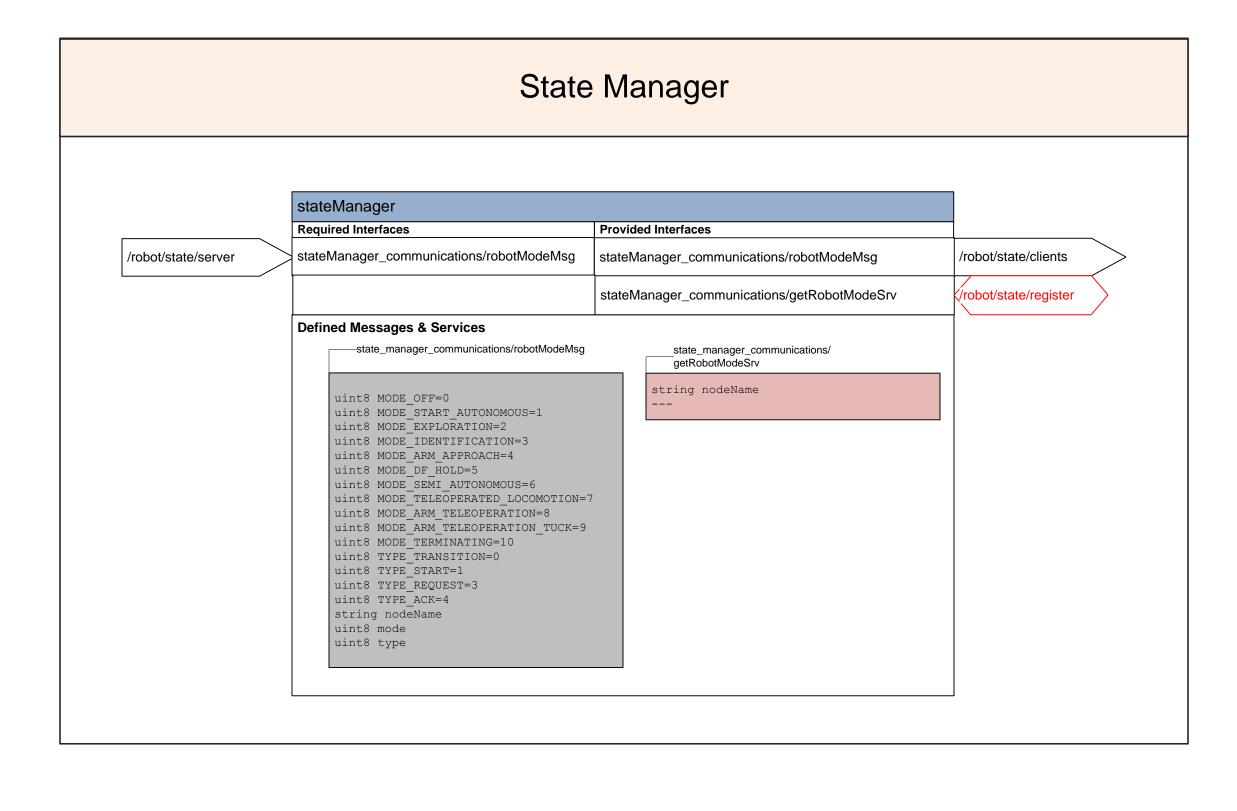
QRAlertMsg[] qrAlerts

__vision_comunications/ HolesDirectionsVectorMsg

Data Fusion



Required Interfaces vision_communications/QRAlertsVectorMsg vision_communications/HazmatAlertsVectorMsg.msg	Provided Interfaces data_fusion_communications/ VictimFoundMsg std_msgs/Epmty	data_fusion/alert_handler/ victim_found /data_fusion/alert_handler/
	VictimFoundMsg	victim_found
vision_communications/HazmatAlertsVectorMsg.msg	std_msgs/Epmty	/data_fusion/alert_handler/
	ota_maga/_pmty	victim_updated
	data_fusion_comunications/ VictimToFsmMsg	/data_fusion/alert_handler/ victim_verified
vision_communications/HolesDirectionsVectorMsg		
vision_communications/FaceDirectionMsg.msg	data_fusion_communications/GetVictims	data_fusion/alert_handler/get_victin
datafusion_communications/ThermalDirectionAlertMsg	data_fusion_communications/ ValidateCurrentObject	data_fusion/alert_handler/ validate_current_object
	data_fusion_communications/ DeleteCurrentVictim	data_fusion/alert_handler/ delete_current_victim
datafusion_communications/VictimVerificationMsg		
navigation_communications/ selectedVictimMsg		
> nav_msgs/OccupancyGrid		
Defined Messages and Services		
uint8 TYPE_CAMERA=2		
data_fusion_comunications/VictimToFsmMsg -	VictimInfoMsg[] victimsArray	
	vision_communications/FaceDirectionMsg.msg datafusion_communications/ThermalDirectionAlertMsg datafusion_communications/VictimVerificationMsg navigation_communications/ selectedVictimMsg nav_msgs/OccupancyGrid Defined Messages and Services	vision_communications/FaceDirectionMsg.msg data_fusion_communications/



		SLAM		
	crsm_ Required Interfaces	_slam_node Provided Interfaces		
slam/scan	sensor_msgs::LaserScan	nav_msgs/OccupancyGrid	/slam/occupancyGridMap	
			/tf/base_link	$\overline{}$

