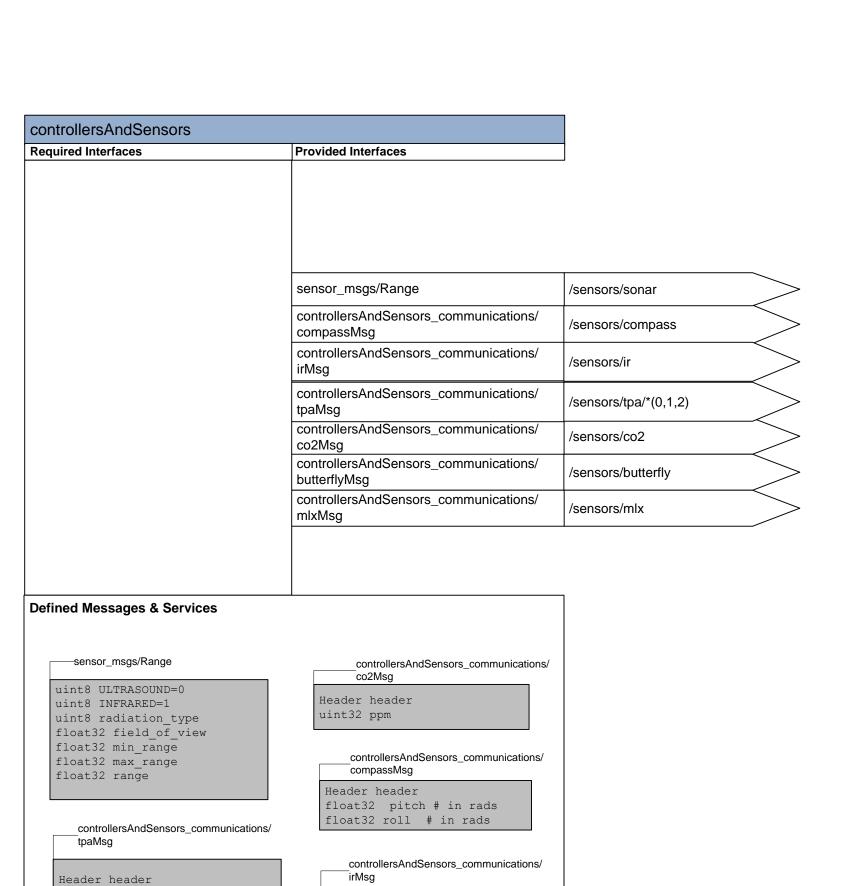
## Sensors



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

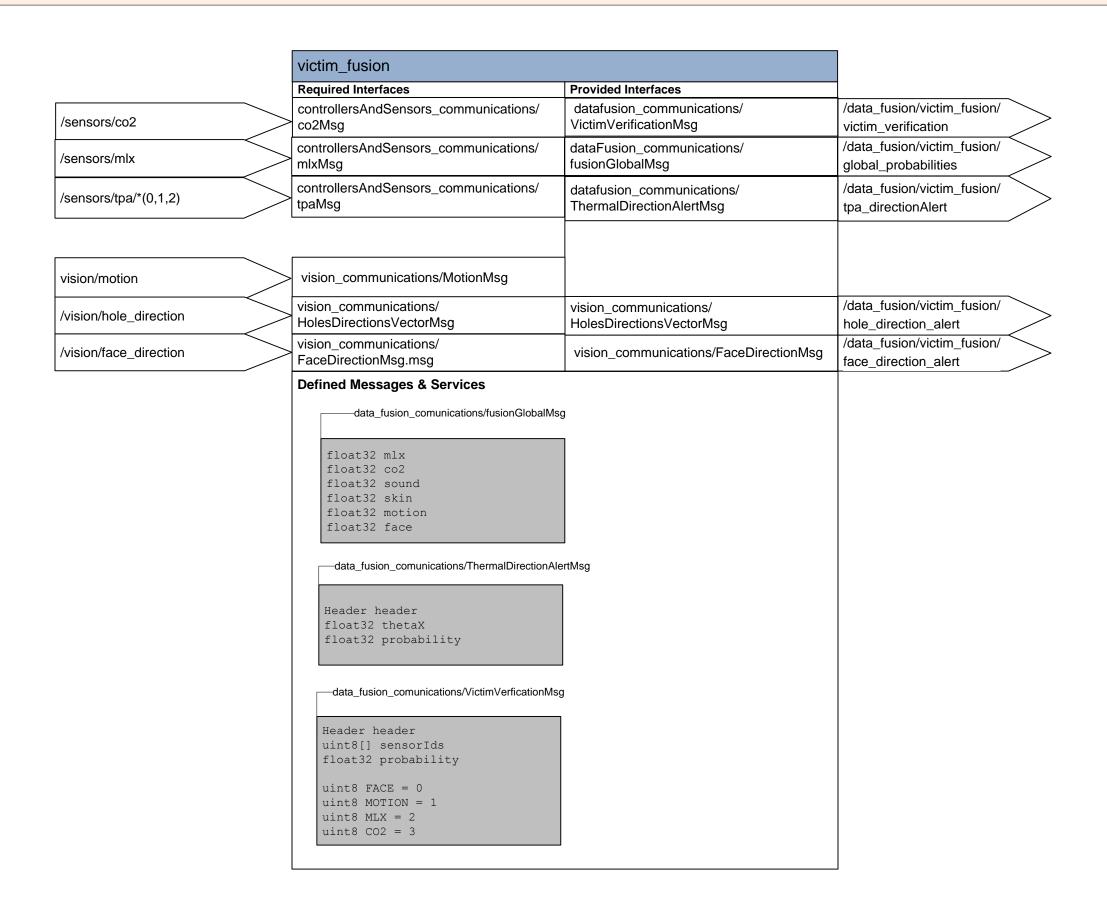
float32 probability uint64 holeId

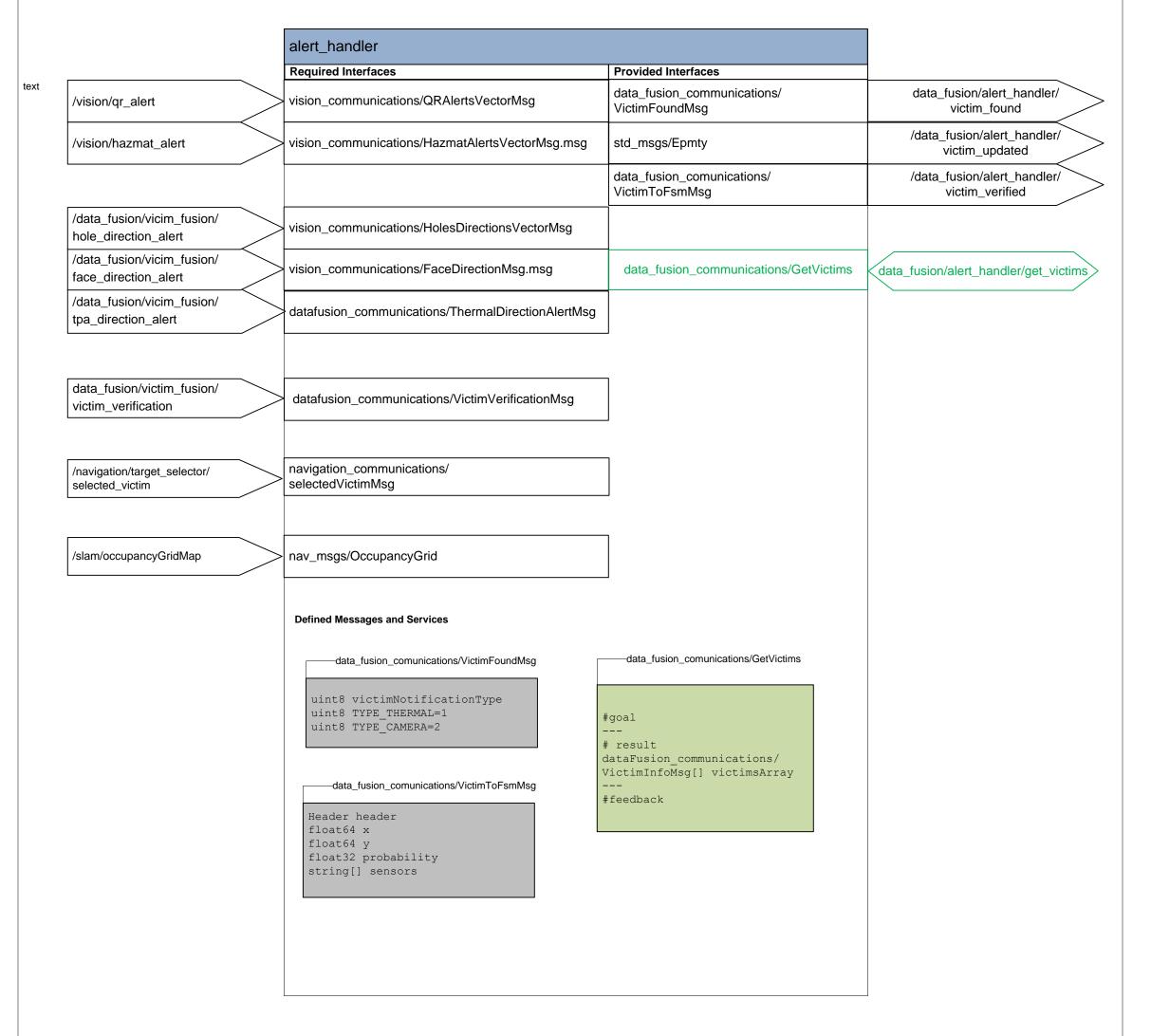
\_\_vision\_comunications/ victimIdentificationDirectionMsg

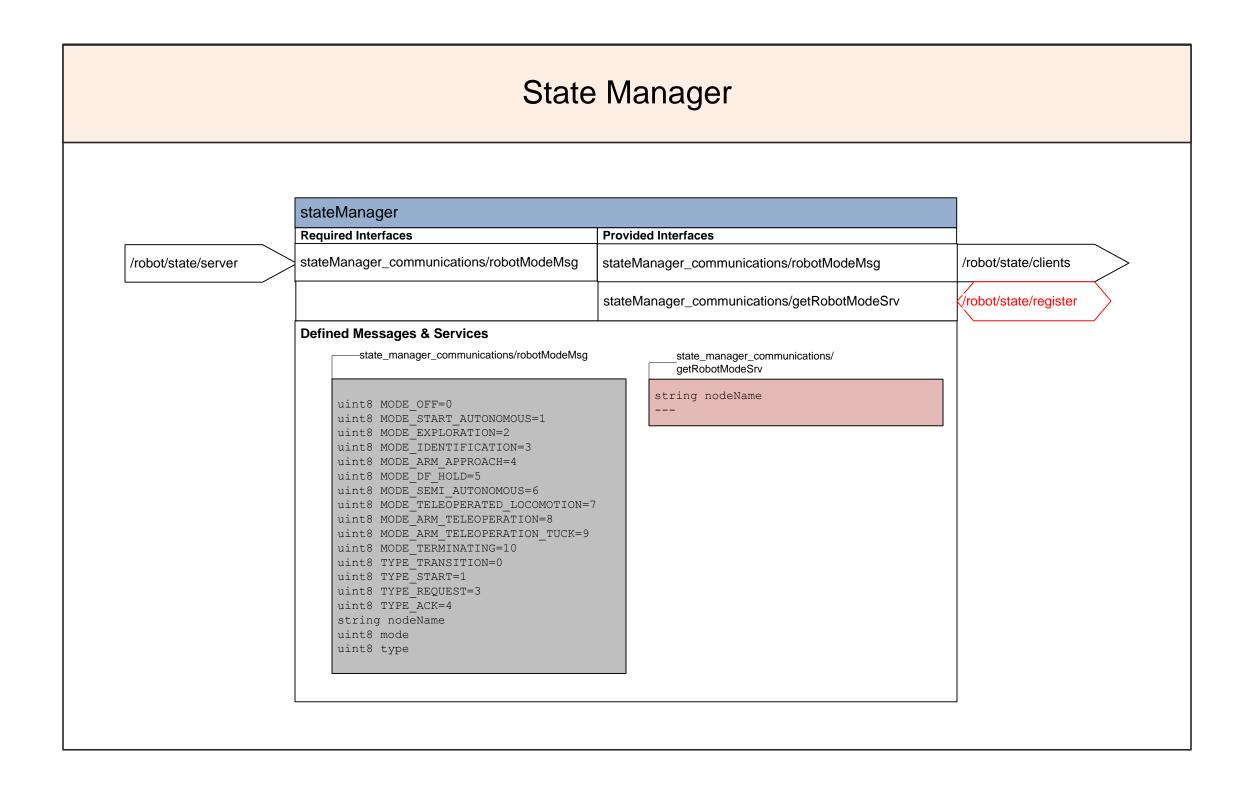
QRAlertMsg[] qrAlerts

\_\_vision\_comunications/ HolesDirectionsVectorMsg

## Data Fusion







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

