STDR Simulator architecture overview

load_nodelet

unload_nodelet

robot_manager

map

active_robots

stdr_server

load_nodelet

unload_nodelet

register_robot

spawn_robot

delete_robot

stdr_gui

map

active_robots

tf

replace

register_robot

replace

robot0

robot0/cmd_vel

map

robot0/laser_0

robot0/sonar_0

tf

register_robot

replace

robot1

robot1/cmd_vel

map

robot1/laser_0

robot1/sonar_0

tf

register_robot

replace

robotN

robotN/cmd_vel

map

robotN/laser_0

robotN/sonar_0

tf

Legend

Subscribed topic

Published topic

Action/Srv call