ATAK Bridge Communication

Legend

ROS Topic Name
(ROS MSG Type)

ROS Node

ATAK Server

Location to move to
(Latitude, Longitude, Hdng, Alt)

Current robot location.
(Latitude, Longitude, Alt)

Current Object location.
(Latitude, Longitude, Alt)

West Point ATAK Extension

atak_bridge

ROS TF

/goal_location
[atak_msgs/PoseDescription]

/robot_location
[atak_msgs/PoseDescription]

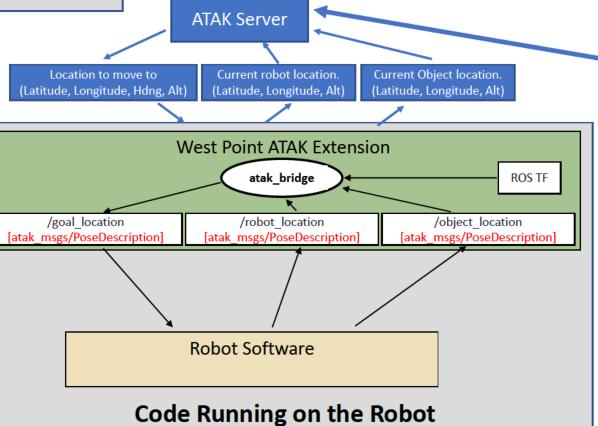/object_location
[atak_msgs/PoseDescription]

Robot Software

Code Running on the Robot

Android Phone Running ATAK

atak_msgs/PoseDescription

Message Definition
std_msgs/Header header
geometry_msgs/Pose pose
std_msgs/String description