

1 Symbolic goal 11 Reply about semantic position properties 2 Quere about current semantic robot location 12 Quere about semantic position properties 3 Reply about current semantic robot location 13 Reply about current semantic robot location 4 Quere about semantic robot location 14 Geometric sub-goal 5 Reply about semantic robot location 15 Geometric sub-goal 6 Quere about environment information 16 Sub-goal success/ failure event 7 Reply about environment information 17 Request for next sub-goal 8 Reply about environment information 18 Sub-goal failure notification 9 Reply about environment information 19 Failure cause 10 Quere about semantic position properties 20 Modification / change in subgoal 21 Failure notification (with suggestions)

Indicates data exchange with external components