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1. ROS topics

This are the topics at the ROS master of Willy. There are several communication protocols defined in ROS, but in Willy only topics are used. The topics are shown in the next table.

Topic name	Purpose	Publisher	Subscriber	Message type	Message protocol
/willy/health	Is Willy healthy or is there an issue?	All nodes	All nodes	Int32	 1 = healthy 2 = non-critical issue 3 = critical issue
/will/health_rea son	If Willy is not healthy, the reason for that is published in clear text here	All nodes	All nodes	String	Clear text
/willy/activity	What is Willy doing?	Brain SI	All nodes	Int32	 1 = cruising 2 = conversation 3 = enquête 4 = driving with a defined target
/interaction/is_ active	If the social interaction is busy?	Social interaction speech recognition	All nodes	Int32	• 0 = not active • 1 = active
/interaction/cle ar_text	The unprocessed text what the person said	Social interaction speech recognition	All nodes	String	Who are you?
/move_action	Move actions for willy	Navigation brain	SI	String	turn_around = TurnWillyaround
/human_detect	Is there a human in front of Willy?	Power node	Brain	String	1 = id2 = accuracy3 = distance