Command	Return value	Description	Supported from	Only remote control
Load <program.urp></program.urp>	On Success:	Returns when both program and associated installation has loaded (or failed). The load command fails if the associated installation requires confirmation of safety. The return value in this case will be 'Error while loading program'.	SW3.4.0 & 5.0.0	X
Play	On success:	Returns failure if the program fails to start. In previous versions this did not happen in all cases.	SW3.4.0 & 5.0.0	Х
Stop	On success:	Returns failure if the program fails to stop. In previous versions this did not happen in all cases.	SW3.4.0 & 5.0.0	
Pause	On success:	Returns failure if the program fails to pause. In previous versions this did not happen in all cases.	SW3.4.0 & 5.0.0	
Quit	"Disconnected"	Closes connection	SW1.4 & 5.0.0	
Shutdown	"Shutting down"	Shuts down and turns off robot and controller	SW1.4 & 5.0.0	
Running	"Program running: true" OR "Program running: false"	Execution state enquiry	SW1.6 & 5.0.0	

Robotmode	text is returned "Robotmode: <mode>", where <mode> is • NO_CONTROLLER • DISCONNECTED • CONFIRM_SAFETY • BOOTING • POWER_OFF • POWER_ON • IDLE • BACKDRIVE • RUNNING</mode></mode>	Robot mode enquiry	SW1.6 & 5.0.0	
get loaded program	"Loaded program: <path file="" loaded="" program="" to="">" OR "No program loaded"</path>	Which program is loaded	SW1.6 & 5.0.0	
popup <popup-text></popup-text>	"showing popup"	The popup-text will be translated to the selected language, if the text exists in the language file	SW1.6 & 5.0.0	
close popup	"closing popup"	Closes the popup	SW1.6 & 5.0.0	
addToLog <log-message></log-message>	"Added log message" Or "No log message to add"	Adds log-message to the Log history	SW1.8.1 & 5.0.0	
isProgramSaved	"true <program.name>" OR "false <program.name>"</program.name></program.name>	Returns the save state of the active program and path to loaded program file.	SW1.8.1 & 5.0.0	
programState	"STOPPED" if no program is running "PLAYING" if program is running "PAUSED" if program is paused	Returns the state of the active program and path to loaded program file, or STOPPED in no programs is loaded.	SW1.8.1 & 5.0.0	
PolyscopeVersion	"version number, like "3.0.15547"	Returns the version of the Polyscope software	SW1.8.1 & 5.0.0	

set operational mode <mode>, where <mode> is</mode></mode>	"Setting operational mode: <mode>" OR "Failed setting operational mode: <mode>" • manual = Loading and editing programs is allowed • automatic = Loading and editing programs and installations is not allowed, only playing programs If this function is called the operational mode cannot be changed from PolyScope, and the user password is disabled.</mode></mode>	Controls the operational mode. See User manual for details. Warning: This functionality is intended for using e.g. Ethernet based Key Card Readers to switch operational modes. The device for switching operational mode should be placed in vicinity to the robot.	5.0.0	
clear operational mode	"operational mode is no longer controlled by Dashboard Server" If this function is called the operational mode can again be changed from PolyScope, and the user password is enabled.		5.0.0	
power on	"Powering on"	Powers on the robot arm	SW3.0.0 & 5.0.0	Х
power off	"Powering off"	Powers off the robot arm	SW3.0.0 & 5.0.0	
brake release	"Brake releasing"	Releases the brakes	SW3.0.0 & 5.0.0	Х

safetymode (deprecated from software 3.11 – use "safetystatus" instead)	"Safetymode: <mode>", where <mode> Is • NORMAL • REDUCED • PROTECTIVE_STOP • RECOVERY • SAFEGUARD_STOP • SYSTEM_EMERGENCY_STOP • ROBOT_EMERGENCY_STOP • VIOLATION • FAULT</mode></mode>	Safety mode inquiry. A Safeguard Stop resulting from any type of safeguard I/O or a configurable I/O three position enabling device result in SAFEGUARD_STOP. This function is deprecated. Instead, use 'safetystatus'.	SW3.0.0 & 5.0.0	
safetystatus	 "Safetystatus: <status>", where <status> is</status></status> NORMAL REDUCED PROTECTIVE_STOP RECOVERY SAFEGUARD_STOP SYSTEM_EMERGENCY_STOP ROBOT_EMERGENCY_STOP VIOLATION FAULT AUTOMATIC_MODE_SAFEGUARD_STOP SYSTEM_THREE_POSITION_ENABLING_STOP 	Safety status inquiry. This differs from 'safetymode' by specifying if a given Safeguard Stop was caused by the permanent safeguard I/O stop, a configurable I/O automatic mode safeguard stop or a configurable I/O three position enabling device stop. Thus, this is strictly more detailed than 'safetymode'.	SW3.11.0 & 5.4.0	

unlock protective stop IMPORTANT: It is the responsibility of the integrator to ensure the cause of the protective stop is resolved before using the "unlock protective stop" command	On succes:	Closes the current popup and unlocks protective stop. The unlock protective stop command fails if less than 5 seconds has passed since the protective stop occurred.	SW3.1.0 & 5.0.0	
close safety popup	"closing safety popup"	Closes a safety popup	SW3.1.0 & 5.0.0	
load installation <default.installation></default.installation>	On success: "Loading installation: <default.installation>" On failure: "File not found: <default.installation>" "Failed to load installation: <default.installation>"</default.installation></default.installation></default.installation>	Loads the specified installation file but does not return until the load has completed (or failed). The load command fails if the associated installation requires confirmation of safety. The return value will be 'Failed to load installation'.	SW3.4.0 & 5.0.0	X
restart safety IMPORTANT: You should always ensure it is okay to restart the system. It is highly recommended to check the error log before using this command (either via PolyScope or e.g. ssh connection).	Restarting safety	Used when robot gets a safety fault or violation to restart the safety. After safety has been rebooted the robot will be in Power Off.	SW3.7.0 & 5.1.0	X

get operational mode	MANUAL, AUTOMATIC or NONE	Returns the operational mode as MANUAL or AUTOMATIC if the password has been set for Mode in Settings. Returns NONE if the password has not been set.	5.6.0	
is in remote control	"true" or "false"	Returns the remote-control status of the robot. If the robot is in remote control it returns false and if remote control is disabled or robot is in local control it returns false.	5.6.0	
get serial number	Serial number like "20175599999"	Returns serial number of the robot.	SW3.12.0 & 5.6.0	
get robot model	UR3, UR5, UR10, UR16	Returns the robot model	SW3.12.0 & 5.6.0	
generate flight report <report type=""> where possible report types are:</report>	On success report id is printed. Error Message on a failure. Command can take few minutes to complete.	 Triggers a Flight Report of the following type: Controller - report with information specific for diagnosing controller errors. For example, in case of protective stops, faults or violations. Software - report with information specific for polyscope software failures. System - report with information about robot configuration, programs, installations etc. It is required to wait at least 30 seconds between triggering software or controller reports. 	SW3.13.0 & 5.8.0	

generate support file <directory path=""></directory>	On success "Completed successfully: <result file="" name="">" is printed otherwise an error message with possible cause</result>	Generates a flight report of the type "System" and creates a compressed collection of all the existing flight reports on the robot along with the generated		
where <directory path=""> represents path to an already</directory>	of the error is shown.	flight report.		
existing directory location inside the programs directory.	Command can take up to <u>10 minutes</u> to complete.	Result file ur_[robot serial number]_YYYY-MM-DD_HH- MM-SS.zip is saved inside <directory path=""></directory>	SW3.13.0 & 5.8.0	
In particular path can point to special usbdisk subfolders inside programs folder.				