

Release Notes
RobotStudio Online YuMi

2.1

Build: 1342

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1 Release Information

1.1 General

Release Name

The release name is RobotStudio Online YuMi and the build number is 2.1.xxxx.

Release Date

The release date is January 11th, 2016.

Documentation

We will consider to have user documentation for RobotStudio Online YuMi app in a later release but as it is right now the functionality should be obvious for the user so no user documentation is available.

1.2 System recommendation

Recommended Software

Operating System	
Microsoft Windows 10	32-bit edition
Microsoft Windows 10	64-bit edition

Recommended hardware

Item	Requirement
CPU	1.6 GHz or faster processor
Memory	2 GB or more
Disk	32 GB or more
Screen Size	8" or larger
Screen resolution	1024x768 pixels or higher is recommended
Interaction	Touch screen

2 What's new in RobotStudio Online 2.1

Overview

RobotStudio Online 2.1 contains several new features.

- Adaptations to Windows 10
 - Windows can be any size even if we recommend to execute in full screen mode or tablet mode.
 - “Hamburger” menu for faster access of functionality, see
 - All scrolling of lists is vertical to follow the default mode from Microsoft
- System modules included in the app must be used or else the app will not start.
 - The latest version of the system modules:

YuMi_App_Common.sys	1.0.1
YuMi_App_R.sys	1.0.1
YuMi_App_L.sys	1.0.1
 - You can always see the version of the system modules under “Installation Set-Up – Create New program”
- Parameterless procedures can be created, tested, inserted in the program, see Managing Procedures
- Move and MoveSync can have the optional parameter “Movement” which can be:
 - Default
The movement will be either linear or jointwise depending of the distance between the positions, if the distance is greater than 150 mm or the rotation is greater than 20 degrees it will be jointwise else linear.
 - Linear (\L)
The movement will always be linear
 - Joint (\J)
The movement will always be jointwise.
- Move and MoveSync can also have the ToPint as a named robtarget, see Creating Named RobTargets
- OpenHand and CloseHand can have a payload explicity in the instruction. The default payload is set in the “Installation Set-Up – Smart Instructions”.
- Most of the available RAPID instructions can be inserted in the program, see All Instructions.
- Open Program and Save Program will also support the disk for the device and not only the robot controller.

2.1 Hamburger Menu

To make some functionality accessible all the time we have introduced the hamburger menu instead of commands on the command bar.

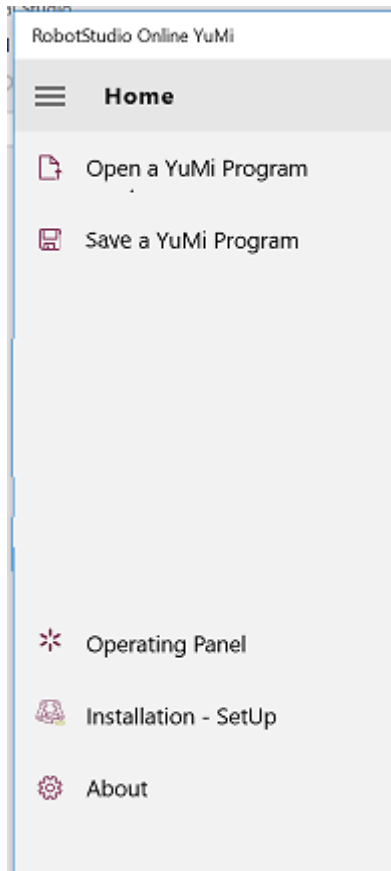


Figure 1: Hamburger Menu

2.2 Managing Procedures

In the Installation – SetUp page we have introduced some new functionality for manage parameterless procedures. It is possible to create, edit and test the procedures for one arm at the time.

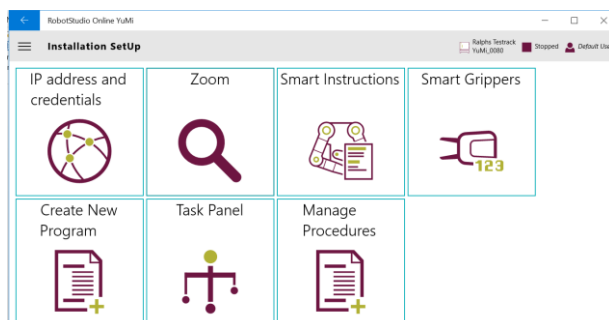


Figure 2: Installation SetUp

Tapping on the “Manage Procedures” item brings up the “Manage Procedures” page.

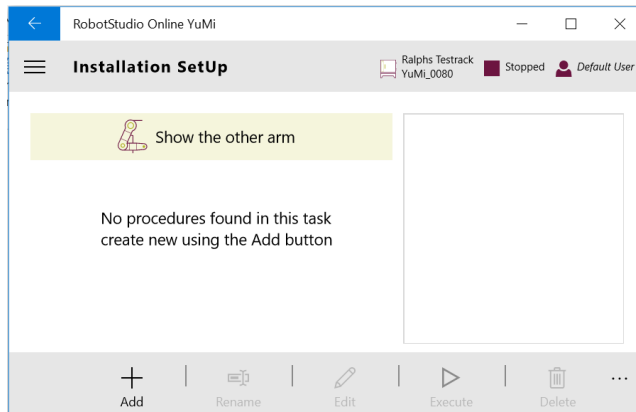


Figure 3: Manage Procedures page

Here you can add, rename, delete, edit and test your procedure.

If renaming a procedure which is in used you must also change the call it is not done automatically in this release.

2.3 Creating Named RobTargets

If the current selected instruction is a Move instruction with a robtarget as the ToPoint it is possible to create the robtarget yourself with a unique name.

The destination point of the robot and external axes. It is defined as a named position in the instruction.

ToPoint

This argument is used to describe the point to which the robot arm will move to.

Figure 4: Named RobTarget

If tapping on '+' you will get the 'Create RobTarget' field:

ToPoint

Create a robtarget from the current arm position.

Name

Figure 5: 'Create RobTarget' field.

The new robtarget can now be used in the ToPoint.

2.4 All Instructions

When tapping the 'More' instruction button on the Teach page you will get a new page where mst of the available RAPID instructions are available.

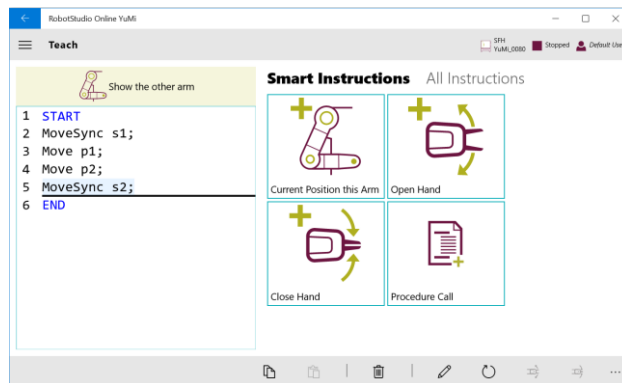


Figure 6: 'More' page

We have 2 tabs, one containing the Smart instructions and one containing almost all RAPID instructions.

Smart Instructions	All Instructions
AccSet	ActUnit
Add	AliasIOReset
BitClear	BitSet
Break	CallByVar
CancelLoad	Clear
ClearIOBuff	ClearPath
ClkReset	ClkStart

Figure 7: 'All Instructions'

By tapping on an instruction, you can modify the arguments.

3 Corrections

3.1 Corrections made in RobotStudio Online YuMi 2.1

Overview

This section describes the corrections made in RobotStudio Online YuMi 2.1

Product Defect Documents (PDD)

ID	Title
5700	Open .yumi Program in App is very hard to find
5621	YuMi App closing does not work correctly still in task manager and lead through on (RC 2.0.1321)
5619	Insert in a new Programm in YuMi App Move Sync after Open Close Gripper (RC 2.0.1321)
5620	should not be possible to select speed higher than v1500 max YuMi speed (RC 2.0.1321)
5581	Switch Motors off from YuMi App (RC 2.0.1321)
5674	Calibration data not shown in smart gripper add in (RC 2.0.1321)
5686	Change prefix setting (RC 2.0.1321)

3.2 Product Defect Documents (PDD) which cannot be reproduced

ID	Title
5622	step mode is not allways working (RC 2.0.1321)
5618	Jog in wrong direction even if arm is close by (RC 2.0.1321)

3.3 Corrections planned for next release RobotStudio Online YuMi 2.2

Product Defect Documents (PDD)

ID	Title
5688	valid values for load data (RC 2.0.1321)
5689	scrolling in App not obvious (RC 2.0.1321)
5734	stop of finepoint movement makes app stopping until error message (RC 2.0.1321)
5675	predicted collision (RC 2.0.1321)

4 Known Limitations

Overview

This section describes known limitations in RobotStudio Online YuMi 2.1

4.1 General

The YuMi app will only work with IRB 14000.

5 RobotWare Compatibility

5.1 General

5.2 RobotStudio Online YuMi 2.1

Supported RobotWare versions

RobotWare 6.02.01 or later.