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What's New RobotStudio® 5.11.01

New Functionality RobotStudio 5.11.01

Paint robots

The following paint robots have been added to RobotStudio

Variant	Library name
52 short vertical arm	IRB52_12_475_1005_01.rslib
52 std vertical arm	IRB52_12_700_1005_01.rslib
580-12 standard arm	IRB580_12_1000_1620_01.rslib
5400-12 std arm	IRB5400_12_1200_1620_01.rslib
5400-13 std arm	IRB5400_13_1200_1620_01.rslib
5400-14 std arm	IRB5400_14_1200_1620_01.rslib
5400-22 process arm	IRB5400_22_1200_1620_01.rslib
5400-23 process arm	IRB5400_23_1200_1620_01.rslib
5400-24 process arm	IRB5400_24_1200_1620_01.rslib
5500 A b 80	IRB5500_35A_1300_1720_01.rslib
5500 B b 80	IRB5500_35B_1300_1720_01.rslib

Corresponding systems can be created using a template system, the function *System from Layout*, or the *System Builder*.

The models 5400 13, 5400 14, 5400 23 and 5400 24 are to be mounted on a *paint rail*, which is a track motion for paint robots. The paint rails are available in two variants, one for the x3 models and one for the x4 models. The rails are available in lengths ranging from two meters up to twenty meters.

Virtual Controller systems for Paint robots

Virtual Controller systems for paint robots can be created by the System Builder by checking the *Virtual Key* checkbox and pressing the *Paint* radio button.

Improvements in RobotStudio 5.11.01

General

Improved keyboard support

Authenticate dialog: Pressing the ENTER key will enable the combo box for changing activation status of users in the *UAS Administration Tool* opened from the *Edit User Account* item of the *Authenticate* group (CQ7191).

Browser command activation: Pressing the ENTER key when a node is selected in any browser will enable the default command of the node (the default command of the node is indicated by bold text in the context menu of the node) (CQ7256).

Close RobotStudio: RobotStudio can now be closed by pressing ALT + F4.

Configuration Editor: Support for the DELETE key has been added in the Configuration Editor. To *multiselect* using arrow keys in Configuration Editor - use CTRL + SHIFT + ARROW (PDD8428, CQ8277).

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Improved handling of hidden windows

Most of the RobotStudio windows (except for the graphics viewer) may use the *Auto-Hide* function that shows windows on demand and hides them otherwise. In some circumstances, the hidden windows behaved unexpectedly. This has been changed (CQ7973, CQ8296).

Unexpected behaviour when installing license file manually

RobotStudio no longer behaves unexpectedly when closing the application after manual installation of a license file (CQ8138)

Product activation time out extended

The product activation time out has been extended to ninety seconds to prevent the activation process to time out too early (CQ8388).

Improved error handling for automatic and manual license activation

The error handling for automatic and manual license activation has been improved (CQ8413, CQ8416, CQ8493).

Improved handling of tab-related, floating windows.

Floating windows related to a certain tab was not behaving as expected. Now they are (CQ8473).

Unexpected behaviour of RobotStudio at startup

A problem caused RobotStudio to behave unexpectedly on certain computers (DE081024-19341, CQ8387, GB081015-19058 CQ8384).

Context menu not always correctly shown

The context menu handling has been improved (PDD8407, CQ8276).

Online

Availability of controllers in the Add Controller dialog

Controllers will now be available in the Add Controller dialog even if they have been disconnected, and reconnected or deleted from the Online browser. This change also applies to controller for which a new system has been downloaded (CQ8085, CQ8304).

Controller automatically reconnected when switching from service port to LAN

The controller is now automatically reconnected when switching from the service port to LAN (CQ7731).

Restarting controller from second RobotStudio client could cause *Initializing* state

When connecting to a physical robot controller from one RobotStudio client, while restarting RobotStudio from a second client, the controller communication of the second RobotStudio could potentially end up in *Initializing* state (CQ8297).

Improvements in restart handling

A physical controller connected to RobotStudio will no longer cause RobotStudio to behave unexpectedly when restarted (PDD DSE8147, CQ7867, PDD DSE8349, CQ 8185, CQ8324).

The Go Offline feature no longer fails in certain environments

A problem with the Go Offline feature caused it to fail in certain environments. This has been corrected (CQ8379).

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French accents not properly displayed in the Controller Properties view

French accents was not properly displayed in the Controller Properties view of the Online tab (PDD DSE7261, CQ8371).

Configuration Editor refresh

The configuration editor will be appropriately refreshed when a change has been made to the the controller configuration database (PDD DSE8429, CQ8275).

Import and Export Controller List for Minimal installation

The Import and Export Controller List functions was not available in the Minimal installation of RobotStudio (PDD DSE8442, CQ8309).

Import of zone points in SafeMove Configurator has been improved

The import of points for the Safe Tool Zone function in SafeMove Configurator has been improved (CQ8507, CQ8286, PDD DSE8241).

Improved error handling in SafeMove Configurator

The error handling for entering values using the slider component has been improved. This component is used e.g. for the Safe Axis Range function in SafeMove Configurator. Previously, it was possible to manually enter a value in the upper limit edit box that was lower than the previously defined lower limit. This is no longer possible (PDD DSE8499, CQ8488).

EPS Wizard and SafeMove Configurator not available after controller restart

The safety configuration tools EPS Wizard and SafeMove Configurator were not always available after a restart of the controller. This has been corrected (PDD DSE8389, CQ8229).

Configuration of systems with track motions with EPS Wizard

A change in RobotWare and EPS Wizard version 5.11.01 will enable required parameters for safety configuration of robot systems with track motions to be automatically read from the controller configuration database. Previous versions of EPS Wizard required certain parameters to be manually input into EPS Wizard since they could not be read due to encryption. Examples of such parameters are motor calibration for the track motion, track motion axis limits, and transmission gear ratio. The change also allows EPS safety configuration files to be loaded into EPS Wizard.

The reading of synchronization position from the controller has also been corrected for systems with track motions.

Note that this change will be enabled by RobotStudio and RobotWare version 5.11.01. RobotWare versions prior to 5.11.01 will still require manual parameter input for the track motion parameters and does not allow the safety configuration file for track motions systems to be loaded. (PDD DSE8208, CQ8354, PDD DSE8454, CQ8394).

System name layout in EPS Wizard

The layout of the system name as displayed on the Select Controller page of the EPS Wizard has been improved (CQ8036).

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Offline

The CAD-import option for *Healing* is no longer enabled by default.

When importing CAD-models into RobotStudio, there is an option that can be used to heal the CAD-model if needed, i.e. the *Healing* option. This is no longer enabled by default.

Target renaming of RsTargets referencing a common Robtarget

When working with the API, it is possible to create two RsTargets that reference a common RobTarget. If you rename the RsTarget, the RobTarget will also be renamed and all RsTargets with same RobTarget will also be renamed (CQ7296).

Appropriate number of joints for IRB360_1_800_3D_STD_03

The RobotStudio model for robot IRB360_1_800_3D_STD has three degrees of freedom. The model has been changed to reflect that (CQ8161).

Copy Task Data no longer copies tool0 and wobj0

The function Copy Task Data has been changed not to copy the pre-defined, read-only objects tool0 and wobj0 (CQ8191).

Unexpected behaviour when interrupting opening of station

Interrupting the opening of a station and trying to open a new one no longer causes unexpected behaviour (CQ8213).

Simulating a station with external axis can no longer hang

Simulating a system with at least one external axes could cause RobotStudio to hang when pressing the Simulation Play button (CQ8307).

Virtual Controller now only requires limited user privileges on Windows

A regression in a RobotStudio component caused the Virtual Controller to fail for a Windows account with only limited user privileges. This has been corrected (CQ8316).

Improved performance for start of Virtual Controller

The virtual controller now starts without unexpected delays (CQ8320, CQ8321, CQ8349).

The function *System From Layout* no longer fails for RobotWare 5.10.01

The function System From Layout failed for certain RobotWare versions. This has been corrected (PDD DSE8214, CQ8069.)

Multiselection for import of Instruction Template

Multiple Instruction Templates can now be imported at the same time (PDD DSE8317, CQ8160).

Wrong item in Mechanism contextual tab

The function *Modify Curve* was erroneously part of the Mechanism contextual tab but has been removed (PDD DSE8448, CQ8317).

Wrong 3D model for IRB1600 6 and 8 kg versions

The RobotStudio models for IRB1600 6 and 8 kg had the wrong wrist. This is changed (PDD DSE8449, CQ8318).

The function *View Robot at Target* now works correctly if external axes is used.

The robot missed the targets when *View Robot at Target* was used on targets with external axes values. This has been corrected (SE081010-18925, CQ8319)

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***Jump To Target* and *Jump To Move Instruction* now sets robot position in VC**

The functions *Jump To Target* and *Jump To Move Instruction* now sets the robot position of the VC to the selected target or move instruction (SPR1033878).

No longer needed to manually jog IRB360 into its working range using the VFP

The IRB360 will no longer require manual jogging into its working range before starting program execution. The program can simply be started directly.

Small circles can be measured

Circles with a diameter less than four millimeters can now be measured in RobotStudio (CQ8362).

CATIA V5 converter now working properly for CATproducts

CATIA V5 assemblies can now be successfully imported to RobotStudio with preserved part structure. Previously, the *CAD Converter* erroneously reported the conversion to have failed even though it succeeded. This has been corrected. Note that to preserve the part structure, the assembly must be directly imported into RobotStudio. The *CAD Converter* will convert is as a flat structure (PDD DSE7428, CQ8230).

RAPID Editor

PickList only available when having Write Access

The PickList of the RAPID Editor is now only available when having Write access (CQ8141).

PickList can no longer modify read-only modules.

The PickList has been restricted to not be allowed to do any changes in read-only modules (CQ8180).

Disabled buttons in RAPID Editor toolbar no longer have any effect

A fault in RobotStudio caused some of the buttons in the RAPID Editor to be active when disabled (CQ8350).

Update problems for the RAPID program pointer

The program pointer now updates correctly at all times (CQ8366).

Improved error handling for RAPID debugging

The error handling for RAPID debugging has been improved (CQ8378).

Long response time when opening RAPID Editor

The RAPID Editor sometimes took around ten to twenty seconds to open. This has been corrected (PDD DSE8230, CQ8072)

Run mode

When starting program execution from the RAPID Editor, the run mode setting of the controller will be used, i.e. Single Cycle or Continuous. This applies both to Offline and the Online controllers. The Run mode can be changed from the RAPID Tasks Windows. In Offline, the Run mode can be changed from the context menu of the controller node in the Offline browser.