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Release Notes for QuickTeach 5.5

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1 Introduction

This file contains release notes for QuickTeach **5.5**. The information should be considered as last minutes information and most up-to-date.

Visit also our web site at www.abb.com/robots for more information.

This CD contains the following software components:

The Virtual controller versions 2.1, 3.0, 3.1 3.2/52 and 4.0/121
Interlink 4.50.0015
RobInstall 1.31

2 Supported Platforms

Before you install QuickTeach, make sure your system conforms to the following requirements:

Software requirements

Microsoft Windows 2000 Professional with Service Pack 4 or higher

Microsoft Windows XP Professional with Service Pack 1 or higher

$TEMP folder must exist (e.g. c:\temp)

Note: Windows service-packs can be downloaded from www.microsoft.com

Recommended hardware

CPU:	2.0 GHz Intel Pentium 4 or faster processor		
Memory:	1 GB RAM or higher		
Free disc-space:	500+ MB on the system disk. 250+ MB on the installation disk.		
Graphics card:	High performance OpenGL-compatible graphics card with the corresponding up-to-date drivers installed		
Display settings:	Screen resolution:	1280 x 1024 pixels	
	Colors:	Windows 2000/XP	256 or higher
Mouse:	Three button mouse		

3 Supported Controller Versions

3.1 Full support

S4c/S4c+ with RobotWare 3.2/52, 4.0/121

3.2 Limited support

S4/S4c with RobotWare 3.0, 3.1 (3.0 is only supported for S4C). Linear jogging, View Robot at Target, Jump to Target, robot axis configuration and automatic setup of external axes are not supported.

See also Known limitations for information about controller version 2.1.

4 Installation and Compatibility

When you are installing, make sure that you have **administrator** permissions on the computer that you are using.

Compatibility with other versions and products:

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- **You must uninstall versions earlier than 5.0 of QuickTeach before you start installation of QuickTeach 5.5. This includes uninstall of RobInstall.**
- QuickTeach 5.5 cannot be installed on any version of RobotStudio (QuickTeach is included in RobotStudio and must be installed by the RobotStudio installation).
- Versions earlier than ProgramMaker 4.0 must be un-installed before installing QuickTeach 5.5.
- Versions earlier than QuickTeach 5.0 must be un-installed before installing QuickTeach 5.5.
- RobotStudio-S4 Lite 4.0 or older must be un-installed before installing QuickTeach.
- Un-install any older version of RobInstall before installing RobotStudio.
- All 4.0 controllers made before QuickTeach 5.5 must be cold-started. Backup of these controllers is required before installation. You can restore them after QuickTeach has been installed.
- It's recommended to redefine all 4.0 controllers made before QuickTeach 5.5 to a system based on the new virtual controller 4.0/121.
- If you have QuickTeach and WebWare installed on the same machine you have to make sure that Interlink is run as an **out-of-process server**. Look in the "Running InterLink as a Service" topic in the WebWare SDK Help File or the "Running InterLink as a Service" Appendix of the WebWare Server Installation pdf-file for a detailed description on how to solve this.
- All VC related files are by default placed in C:\Program Files\Common Files\ABB Automation.

5 New features since QuickTeach 5.4

Robotics	**New Virtual Controller 4.0/121** New VC 4.0/121 is included. Existing 4.0 controllers must be cold started and updated for this new revision.
Robotics	**IRB66X0 ID** The following robots are now supported. - IRB6600ID/2.55-185 - IRB6650ID/2.75-170
Robotics	**IRB5300-03** The IRB5300-03 (door openers) are now supported.
Robotics	**IRB4400S** The IRB4400S is now supported.

6 New features since QuickTeach 5.3

Robotics	**New Virtual Controller 4.0/113** New VC 4.0/113 is included. Existing 4.0 controllers must be cold started and updated for this new revision.
VC	**New Interlink 4.50.0015** A new version of Interlink is included.
Robotics	**IRB5400 Enhanced robot family** The enhanced paint robot family is now supported.

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- IRB5400-12
- IRB5400-12R
- IRB5400-13
- IRB5400-14
- IRB5400-22
- IRB5400-22R
- IRB5400-23
- IRB5400-24

Robotics **IRB6650 Shelf**
The IRB6650 Shelf robots are now supported.
- IRB6650S/3.00-200
- IRB6650S/3.50-125

7 New features since QuickTeach 5.2

Robotics **New Virtual Controller 4.0/100**
New VC 4.0/80 is included. Existing 4.0 controllers must be cold started and updated for this new revision.

Robotics **New Virtual Controller 3.2/52**
New VC 3.2/52 is included. Existing 3.2 controller must be cold started and updated for this new version.

Robotics **Irb5400-02 Process Arm**
The Irb5400-02 manipulator with process arm is now supported.

Robotics **Irb5400-03 Process Arm**
The Irb5400-03 manipulator with process arm is now supported.

Robotics **Irb5400-04 Process Arm**
The Irb5400-04 manipulator with process arm is now supported.

8 New features since QuickTeach 5.1

Robotics **New Virtual Controller 4.0/80**
New VC 4.0/80 is included. Existing 4.0 controllers must be cold started and updated for this new revision.

Robotics **Irb6600/2.80-175 now supported**
The Irb6600/2.80-175 manipulator is now supported.

Robotics **Irb6650/3.20-125 now supported**
The Irb6650/3.20-125 manipulator is now supported.

Robotics **Irb7600/2.80-340 now supported**
The Irb7600/2.80-340 manipulator is now supported.

Robotics **Irb940 (Tricept) now supported**
The Irb940 manipulator is now supported.

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9 Known limitations

ROL 1003149 **IODisable and IOEnable Instructions**
The RAPID instruction IODisable and IOEnable are not supported.

IOF 1002453 **Disable simulated board**
All I/O units are simulated and therefore they are not possible to disable.

IOF 1003084 IOF 1003114 **DSQC351, DSQC350, DSQC352 I/O Boards**
All gateways are simulated, just as all other boards are. No simulations of field busses are made. This means that they are acting as digital board.

IOF 1002378 **Backup/Restore**
Making restore from a previously backed up controller configuration can sometimes fail. It has been observed that program modules or the I/O configuration are not restored.
Workaround: Load the missing parameter files manually from TeachPendant or redo Restore. Note! Please report if you experience problems on backup/restore.

AWD 1003009 **Sensor interface**
It's not possible to use the Sensor interface option. This option requires additional hardware connected to the controller.

RSE 1003 **Screen not updated when starting the Teach Pendant**
Sometimes the TPU screen is not updated when the Teach Pendant is started up.
Workaround: Press any button to redraw the screen.

RSN 1007 **Don't restart a new controller before the old one has shut down**
Please allow approximately 5 seconds for the controller to shut down before starting a new controller.

RSN 1025 **Execution time of logic instructions is not supported**
The execution time for logical instructions is not simulated. This will result in shorter cycle times compared to the real cycle time. This mean for example that for a RAPID Wait times instruction the simulated time will be close to zero independent of the programmed wait time.

RSN 1035 **Search**
It is not possible to use the Sensor interface option. This option requires additional hardware connected to the controller.

Restart VC from TPU requires restart of QuickTeach
If the VC is restarted from the TPU QuickTeach must also be restarted.

SUP 1007504 **Downloading an VC-key to RC causes pagefault**
If a key.id created for a VC is downloaded to the controller, the root script cannot load the file and will crash and the installation will fail. This will only occur if download is done with a 3rd party ftp-client. RobInstall handles this case.

1010189 **PaintWare and Irb5xx-robots are not fully supported**
PaintWare and simulation of Irb5xx robots are not fully supported in VC 3.2.

Virtual Controller 2.1
Due to startup problem on some PC configurations the virtual controller 2.1 is no longer supported. Since VC 2.1 will run without problem on most PC, we provide VC 2.1 to be used as is.

Independent move is not supported

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The VirtualController does not support axes with independent movement

WebWare and QuickTeach 5.0
To have full compatibility between WebWare 3.0 and QuickTeach 5.0 you need to have WebWare 3.0 SP1 or later release installed.

10 License manager error codes

The following most common error numbers are reported by the license-manager :

Error number	Description
-1	The license file cannot be opened.
-2	Invalid license file syntax.
-5	The license file does not contain the requested license.
-8	Bad encryption code.
-9	The host ID in the license does not match the machine on which the software is running.
-10	The license has expired.
-21	The version requested is greater than the highest version supported in the license file.
-30	The license file cannot be read.
-76	Internal FlexLM error.
-88	System clock has been set back.
-99	The internal checksum on a decimal license has indicated the license has been typed in incorrectly.
-111	License is neither date locked nor node locked.