Release Notes for ProgramMaker 4.5

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1 Introduction

This file contains release notes for ProgramMaker **4.5**. 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.

2 Supported Platforms

Before you install ProgramMaker, 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.

3 Supported Controller Versions

S4/S4c with RobotWare 3.0, 3.1 and 3.2/52

S4c+ with RobotWare 4.0/121

4 Installation and Compatibility

When you are installing, make sure that you have administrator permissions on the computer that you are using. **You must uninstall versions earlier than 4.0 of ProgramMaker before you start installation of ProgramMaker 4.5.**

Compatibility with other versions and products:

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- ProgramMaker 4.5 is compatible with RobotStudio 2.x, 3.x and QuickTeach 5.x. It's recommended to use it together with RobotStudio 4.0 and QuickTeach 5.5.

- Versions <u>earlier</u> than ProgramMaker 4.0 and RobotStudio 2.0 must be uninstalled before you start installation of ProgramMaker 4.5.

- Any version of RobotStudio-S4 Lite must be uninstalled before installing ProgramMaker.

- It's recommended to uninstall ProgramMaker 4.5 before any subsequent installation of RobotStudio.

- All 4.0 controllers made before ProgramMaker 4.5 must be cold-started. Backup of these controllers is required before installation. You can restore them after ProgramMaker 4.5 has been installed.

- It's recommended to redefine all 4.0 controllers made before ProgramMaker 4.5 to a system based on the new virtual controller 4.0/121.

- All VC related files are by default placed in C:\Program Files\Common Files\ABB Automation.

- Note: Uninstallation of a ProgramMaker 4.5 that has been installed on top of RobotStudio requires the corresponding RobotStudio CD.

5 New features, improvements and changes

5.1 New features since ProgramMaker 4.4
New Virtual Controller 4.0/121
A new version of the 4.0 virtual controller is included

5.2 New features since ProgramMaker 4.3
New Virtual Controller 4.0/113
A new version of the 4.0 virtual controller is included

6 Solved limitations since ProgramMaker 4.4

DSE5975 **T+ editor changes structure in program and thus generates RAPID errors**
This problem is now corrected

DSE5248 **Fail to read a module correctly in the code window**
This problem is now corrected

7 Known limitations

Old VC versions does not warm-start (after installation)
Old VC versions must be cold-started after installation

Windows –95 and –98 not fully supported
Windows –95 and –98 is not supported for VC4.0

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

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

IOF **DSQC351, DSQC350, DSQC352 I/O Boards**
1003084   All gateways are simulated, just as all other boards are. No simulations of field busses

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IOF 1003114	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.

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

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.

Internationalization
Help text for the Wizards and ConfigEdit are only available in English. Please refer to the ProgramMaker reference manual for complete help information in German and French.

ProgramMaker can not take focus with QuickTeach in Manual
If QuickTeach is used the Teach Pendant must be in AUTO mode before ProgramMaker can access the virtual controller.
The Virtual Controller may freeze in AUTO mode. *Workaround: Bring the Virtual Controller to Manual- and then back to AUTO-mode.*

1008552   **Filename of programs must not exceed 16 characters**
When a program is saved (*.prg or *.mod) the filename must not exceed 16 characters. The Virtual Controller does not support Filenames with more than 16 characters.

8 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.

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-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.

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