

RobView 5 requirements:

- Microsoft .NET Framework 4.7.2
- Microsoft XNA Framework Redistributable 4.0 or: Microsoft XNA Game Studio 4.0.
- Microsoft SQL Server 2014 Express or SQL Server 2008SP2 Express
- Microsoft Visual C++ 2013 Runtime Libraries (x86) and Microsoft Visual C++ 2015 Runtime Libraries (x86)
- ABB Robot Communication Runtime 6.08 or ABB Robot Studio 6.08

The preferred way of upgrading RobView 5 is to connect the PC to internet and run the setup.exe file this will download prerequisites apart from Robot Communication Runtime. All needed prerequisites are available for download from (<http://www.robview.com/Prerequisites/>).

RobView needs Robot Communication Runtime or Robot Studio to communicate with Robot controller. If Robot Studio is installed on computer there is no need to install Robot Communication Runtime. When upgrading Robot Communication Runtime it's recommended to uninstall old versions before installing latest version.

RobView R18.2+

Improvements

Brush Editor

- possible to use config file to set min max on channel

Fixes

LCM

- RobView crash with access violation exception when using LCM logger
- RobView ask virtual ICI nodes for LCM devices
- Internal log event given for each item when 'Power on time' is changed

Smart Atomizer Tracking

- Error messages overlap in RFID Setting window

Brush Editor

- Brush Table exceeds max when edited
- Error message in operator log when FolderMode and total number of brush files are more than 300

Generic File Editor

- remember what folders are expanded and closed between replications updates

User Screen

- Fix to crash on load of User Screen, with large configs

Shop Floor Editor

- Wrong color on brush path

RobView R18.2

New functions

Life cycle management (LCM)

New plugin for logging lcm data from IPS to local database. GUI for viewing status on lcm items and option to update count on change of parts.

Shopfloor Editor

Mirroring of rapid code: option to mirror a single robtarget or routine

Added brush interaction on a selected setbrush it is possible to view value of selected brush as a brush graph

Added option to show multiple modules on same workpiece

Safety chain

New view to display external safety connections

Simplified Robot Programming

Added support for new sensor HTC VIVE

Added new programming method Point to Point

Added zone supervision of programming area

Added option to move robot by teach handle to check robot position

Improvements

Improvement to menu line on lower resolution, indication given when extra icon missing

RobView Settings

All user settings are now possible to configure from new settings.xml file found under programdata. This will make it easier to backup RobView installations.

Generic File Editor

IPS config parser in editor have support for parsing LCMFunction and elogcatcher config types

Rapid parser is enabled on .sys files

Brush Editor

When opening brush files from S4P+; the first found brushtable automatically selected after file is opened

ShopFloor Editor

Possible to open .sys files in addition to .mod

Fixes

Safety Chain Viewer

Motor off switch does not have close button on the sidebar

Screen scrolls to left on clicking a switch on the 1st launch

Auto scroll to the bottom on clicking on any switch the first time

Brush Editor

Unable to delete the last line after copy/paste

Offset function also offsets the comment column

Natural sort unavailable in Open from robot

Generic File Editor

Delay in loading of files both RW6 and RW 5.15 controllers

ShopFloor Editor

SFE: Undo button is not enabled after offset

Duplicate robtarget can be created

User Screens

Exceptions when using Controller related controls

Image Led is invisible when on if OnStateColor is configured to Grey

Cavity Status is wrong on startup

IPS Explorer

Out of memory exception

Signal Analyzer

buttons missing on lower resolution

RobView R18.1.1

New features

Smart Atomizer RFID asset tracking

Works together RobotWare Smart Atomizer RFID addin, reads rfid.log from main computer, and logs this to database. For tracking of bell part usage over time

UserScreen

New controls to show vibration and rotation data from IMS

Fixes

UserScreen

Fix to jobqueue - wrong status on CommandPanel when in Inhibited

Brush Editor

Fix to option label and combobox are set on wrong location

Fix to not possible to create new brush table on a fresh robot system with no brush tables

Shop Floor Editor

Fix to exception when using user defined robot tool

RobView R18.1

New features

Possible to associate file extensions to RobView plug-ins. Brush and program files are loaded into BrushEditor and Shopfloor Editor by double clicking file in windows explorer

Commissioning Mode

Possible to connect to robot in Commissioning mode: In this mode only the FTP connection will be open. RobAPI will not be connected to robot.

S4P+

Possible to connect to a S4P+ FTP server to view files in GFE, SFE and Brush Editor

Stand-alone IPS

Full text on event log messages in Event log viewer when only connected to IPS node

Safety Chain Viewer

To give users more in-depth understanding of the safety system and a way to explore deeper a new documentation panel with info explaining the purpose of the selected switch and link to full documentation is added

Added support for translation

IPS Parameter Editor

Added support for cff parameter file action

Home screen

Screen updated with links to plugins most commonly used.

Added support for translation to home screen

Replica Status

Added button to manually launch a replication job of a connected system. Can be used with new option to configure replica time

Brush Editor

Support for Brush folder solution in A1Brush, to allow for more brush tables on robot.

Support for editing brush file comment

Handle advanced brush map type with other factors than 100

Shop Floor Editor

Possible for users to configure how to format doc

Possible to configure colors used for brush numbers

Added Settings dialog for configuring program path, robtarget name format, etc.

Signal Analyzer

Add option to show a selected time window of the log as an XY plot with color

Fixes

Safety Chain Viewer

Fix to displays motor chain "open" even when motor power is working.

Fix to wrong status on selecting the machine 2nd time

Fix to divergence symbol is not visible.

IPS Monitor

Fix to closing IPS Monitor does not remove signal subscription from IPS, need to close RobView

Reduced the number of devices we show signals from to reduce load on system and focus IPS

Monitor on most important signals

Removed Accu, RawValu and mean signals to reduce load

Brush Editor

Fix to brush tables not always included in combobox if Brush Editor set as startup plugin

Fix to brush Map type is displayed at an odd place

Fix to opening brush table takes longer time when there are more (500) brush files

Fix to exception while opening a "read-only" brush table

Fix to all values set to zero when adding a brush, even if another value is already set

Text Editors

Fix to handling of special characters as ÅÄÖ is not compatible in different plugins

Fix to keyboard shortcuts for Open, Save does not work on opening the editors

Color Change Editor

Fix to wrong line number on error messages

Generic file editor

Fix to exception in internal log on creating folder

IPS Explorer

Fix to image goes missing when connected to IPS with large configurations

Fix to signal list on device is sometime empty

Fix to state of nodes are shown wrong sometimes

UserScreen

Fix to crash when starting view with the process status control

Fix to curveno not updating on IPS curves control when curveno is changed on IPS

Production Control

Fix to exception when opening plugin

Shop Floor Editor

Fix to routine names are always included in robtarget name when converting from inline to named.

The solution is that routines can be converted to named robtargets only on checking the Routine check box in Settings dialog, else the whole module must be converted.

Fix to exception on saving file if "Module" keyword is missing

RobView R17.2

New features

Enhanced Diagnostics, Visualize Safety Chain

State of the safety chain on the robot is shown graphically with alarm status if not in expected state to help with debugging.

Replica

Folders with many files are automatically excluded from replications. There are also new setting for control what folders to exclude, how many files to check for and how often to run.

Brush Editor

Possible to open and edit brush files used with S4P+ Controller

ShopFloor Editor

Full support for circular movement instructions MoveC, PaintC and DispC. That includes: Draw circular path, draw highlighted circular path on paintstroke and seam, adapt robtarget/moveinstruction selection, and edit, rename and convert robtargets.

Improvements

Version Control

update default exclude list for version control

Signal Analyzer

Improve automatic generation of display names for digital signals

Plant Structure

Possible to connect to multiple RW6 virtual controllers

Fixes

RvCMD: crash when running RobView in integration mode

Add a color editor

Exception on selecting an offline controller

CBS

Picture of stations are not always visible

Production Control

Move Home and Start Production does not work

not possible to append job, when running with no mc

Cannot start robot after clicking inhibit

SFE

Memory leak

Open from robot does not work if "Programs" folder is missing on robot

Null Ref with multiple MoveInstructions

Parser: Get error message when trying to do compare of two undefined in IF

DISP: Should not be possible to enter "," in a number in beadeditor
Robtargets and brush events are sometimes not selected in the expected routine
Bead data editor takes non-numeric inputs
The grouped DispL instruction does not collapse/expand on double clicking

Signal Analyzer

Crash when clicking Start without any signals
Showing wrong data in live view, Graphical View not updated with the latest changes
Wrong data when logging data from IPS with dealyup or down in ips config

User Screens:

DataSetGroup and MachineServerGroup do not handle two dimensional array element as signal tag
Command Panel: Not possible to start robot from command Panel after automode stop
Command Panel: Shows wrong status on play and stop
Array control goes blank after writing if the mastership held by other client
Not possible to set 0 on arg when using CellComboBox
Crash on switching between view in the project when more than 10000 controls in project
Wrong state on triggers if using not equal operator and many controls on userscreen

Copy and paste of controls at the end of the screen is pasted outside the visible area
ABB Label does not display '&' entered in the text
IpsCurveView: Curve names is wrong for Bell regulator
SignalTracker ring buffer overflow on Gauge

RobView R17.1.1

New Features

ShopFloor Editor

New dispensing functions:

Consecutive DisPL instructions with the same bead are grouped and possible to select.

Parameters on dispensing instructions are possible to edit in graphical view.

New beads editor for beads that are declared in the same file.

Production Data

Support for "%N" in the productionlog format

Fixes

UserScreens

RobView locks up when using machineServergroup with many signals

Copy of a control will sometimes paste all the controls in the screen including the background

Copy of a control is sometimes pasted with a large offset

Cavity Status: control does not update when connected to RW5

Production Control: Exception on editing job queue with no mc

Gauge: Wrong limit for warning when using ips param signals

Gauge: Ring buffer overflow on signal tracker

Image Led copied will not display the updated image

RobView R17.1

New Features

AlarmCenter

A new plugin to help users with diagnostics of issues in the paint cell. The plugin is designed to show a list of active alarms to the user focusing on problems that are currently an issue. Users work with the alarm list by clearing the reason for the alarm and acknowledging alarms. Alarms are configured against IO signals defined in the global server group and stay active as long as the signal is active. This means that alarms have state, making it easier to see what currently active issues with the cell.

There is also a historical log feature to Alarm Center, where all changes to alarms are logged as alarm events with time stamp. This makes it possible to go back and see when and for how long the paint cell had the issue. This data is kept for a minimum of 30 days in the local RobView database. There is also an export to Excel feature to make it possible to keep data for longer.

Option to configure notification bar to be linked to AlarmCenter. User will be notified of new alarms in notification bar on alarm arrival, and have option to quickly navigate to Alarm Center by double clicking notification bar.

Color Change Editor

Possible to open and edit *.prg files from PC dialog

Program Visualizer

Last used robot or tool is automatically stored and displayed on next start up

Signal Analyzer

New search option: possible to search whole log for a specific value change on a signal and then quickly navigate to view data at this point
New option to disable auto update and configure a value for min/max of axis by right click on axis
Possible to highlight or clear all highlighted signals on an axis by right click on axis
Improved compression of logged data making it possible to store longer data series
Logger configuration is updated with natural sort signal names

User Screen

Array Control

Control updated with support for edit
Added option to trigger enable/disable of user input
Possible to set names on rows and columns and also width of columns

Conveyor Control

New control for displaying conveyor object moving on the screen. Conveyor objects can be configured to show background color or picture. Also possible to display info about conveyor object as its being tracked on screen.

Gauge

Added option to configure control to track max/min value of connected signal over a period and display as part of gauge
Added more option for configuration of display of gauge, can have hard limit on warning, error and ok zones of gauge.

Signal Setter

Possible to set align on text input box

ABB Button

Support for more button colors

Designer

Both Machine and Data Server group have natural sort on signal names for configuration
Added Deselecting all controls on pressing Esc button

Add A Color Editor

Support for AdvProgMtrl brush mapping

Shop Floor Editor

Parsing helps with feedback on potential process errors, to help fix trig errors
Option to open programs when they are stored in sub folders under Program folder on Robot
Support for offset translation of a routine
Added navigation buttons to zoom, rotate and pan in 3D view
Added redo in graphical view
Support for both Perspective and parallel view and option to switch between
Added support for lower resolution 1024x768
Improved parsing and error messages for RAPID

Fixes

Fixed issues related to memory in Signal Analyzer, IPS Explorer, and User Screen
Improved performance against PIB with large number of brush files
Fixed crash when saving to a memory stick that is full

Communication

Connection to controller, do not get connection after offline/online after restart or power cycle

OPC not finding all tags in server

It is not possible to connect to OPC server when other server names does not exist.

OPC Signals have missing "." in name if a level of the tree is empty

Setup

RobView setup installation fails while installing Robot Communication Runtime 6.0

Translation

Fix to text not translated in UserScreen, Brush Editor, Color Change, Shop Floor Editor and more

User Screens

AccuVol Control

Not possible to send commands from Accuvol control when PLC have master

Selection is not updated when selecting a new machine

Trend

Scrollbar is missing for signal Setup

Cell Control

Cell input box does not accept negative values, not possible to send -1 argument for endless jobqueue

Not sending correct command number to RW6 when using command signal

CellInputBox resizing do not display properly in Run mode.

Cell Group commands intermittently not working with RW6

Jobqueue

Cannot delete single jobs from Job queue

IPS commands

IPS, UserScreen: Get wrong operator log message when sending commands that take a long time to run or have long return text

Designer

Back color changed on all controls (labels) even if not marked

Not possible to move or resize a shape control

Unsaved changes are lost when Project is changed

Add a color editor

Program index does not list programs present in home/programs folder

Program index and brush table mapping gets lost

Programs are not listed for RW5.15 controller

Program list is not updated with the latest programs

A1BTab.ndx file has wrong mapping index

"Loading" is displayed after opening the screen without selecting any machine

Brush Editor

Changes made to the local brush file is not saved correctly

BrushMapType is displayed as "Unknown"

Changing brush table value adds duplicate brush at the bottom

Wrong tool tip message

CBS

Baseplate in GUI not updating as input string is not parsed correctly

If screen is selected as startup and only 1 machine with CBS, get message about missing CBS option

Event Log

"Customize Event log" window has the wrong name

Headers for eventlog message is not translated

Eventlog messages not present. Robview shows "Message title is not available in current version of the RobotWare XML files

Source of event log message is blank on RW6

Color Change Editor

Open a sequence, then pressing settings results in an exception.

Bug in drag function for extending/ shortening signals:

Signals created under "Settings" stick in the editor forever, even when creating new file or opening another file

Scroll missing in settings window while adding more signals

Drag/ update of segment is wrong when click at start of segment and dragging to right

Generic File Editor

File tree does a lot of updates when you first connect to Robot

Click on enter in text view changes indentation

Does not refresh even after replication to check for new files

SaveAs does not work with RW5 IPS replica

IPS Explorer

IPS devices are missing in picture if IPS hardware is missing on RobView startup

Signals from ANIB are missing

Text in filter box is cropped and not displayed properly

Is behaving erratic when switching from one machine to other machine.

Signal Analyzer

Wrong value on digital signals when they do not change and circular buffer deletes initial value

Deleted signal is not updated in the graphical view

Missing scroll bar in the signal list in Graphical view

If log is left running for a long time, some signals are missing at start of log

Crash when clicking on import button in graph view

Wrong state of signal Analyzer if using Auto refresh and other plugin is used

Crash if left running and computer goes to sleep or hibernate mode

Wrong data from IPS is shown on screen when emystop is pressed

Global Server Group

Severity of missing signals are displayed wrongly

"Server is not running" message even if controller is re-added

2 different machines with different servers are considered as same

Error shows on wrong row if column is sorted and then doing validate active mapping

Copy tags to the newly added controller is not possible

Error messages reported because it take long time to establish connection to the controllers

Global Server Group: Does not show signals in offline mode

PlantStructure

Should not be possible to have 2 servers with same name

Machine status image is wrong, process is shown as green when IPS and mc is red

Production Control

Exception dialog when adding Job

Shop Floor Editor

Exception on clicking Open when no file is selected

Import dialog have ref to ProgramFilesX86 that have issues on win32 systems

Navigation buttons Rotate Right and Left are opposite in direction

Navigation pane issue with Zoom out

Changes are not saved on clicking on Yes on the warning message box while closing

Syntax fault on instruction MoveReadyApp in text editor - missing switch StopMoving

Error list displays a wrong line number

Load workpiece give operator log "... could not be found"

Possible to use a zone variable as argument for robtarget on a PaintL

SaveAs do not work with changes in Text mode

Incompatibilities

Not possible to run latest RobView 5 on Windows XP

RobView 5 has been upgraded to run on Microsoft .NET 4.5. Running RobView 5 on a PC with only .NET 4 is no longer supported. This means it is no longer possible to run RobView 5 on Windows XP.

Microsoft SQL Server

RobView setup.exe will install Microsoft SQL Server 2014 Express on PCs where SQL Server is not installed. If an upgrade of SQL Server is wanted, install the new version separately. An upgrade from SQL Server 2008 to 2014 require SP3 for SQL Server 2008 to be installed in advance. SQL Server 2014 is not supported on Windows Vista. But it's possible to run RobView with SQL Server 2008 on Vista, but this must be installed manually before RobView

Known Issues

OPC signals

Slow updates on OPC signals on user screen: There is an issue with using OPC signals in data server groups that are not always active. If always active property on the data server group is set to false when the user screen that have this group goes out of focus, signals will no longer be updated. When switching back to this screen there will be a 2 - 10 seconds period where signals can be in the wrong state.

Workaround: Use global Server group or set the data server group property to always active to True

GFE

Possible to create folders with special characters like "*" that are not supported on RW FTP.

Warning message will only be shown in internal log.

Production Log

If Inhibit is pressed on JobQueue control it is only possible to start the production again by pressing play button on toolbar. Or by sending Paint command "ControllerStartContinueProgExec" from Cell Group under user screen.

IPS Connection

If the network adapter used to communicate with IPS is disabled in Windows, RobView will not be able to re-establish connection to IPS when adapter is enable without a restart of RobView.

Signal Analyzer

Running Signal Analyzer with a large number of signals (250 or more) for over 24 hours can result in an OutOfMemory Exception

Offline install

RobView 5 prerequisites are install automatically if online and this is the recommended method of installing. If in an offline environment prerequisites should be available on DVD or available for download from www.robview.com. Check top of document for list of required prerequisites. When installing in an offline environment there will be no check if a prerequisite is already installed, this has to be done manually.

SQL Server

To install Microsoft SQL server in silent mode with correct option for RobView the following commands can be executed from the command line under the same folder as the SQL Server exe:

SQLEXPR_x86_ENU.exe: x86 version

```
SQLEXPR_x86_ENU.exe /q /hideconsole /action=Install /features=SQL  
/instancename=SQLEXPRESS /enableranu=1 /AddCurrentUserAsSqlAdmin  
/IAcceptSqlServerLicenseTerms /skiprules=RebootRequiredCheck
```

SQLEXPR_x64_ENU.exe: x86 version

```
SQLEXPR_x64_ENU.exe /q /hideconsole /action=Install /features=SQL  
/instancename=SQLEXPRESS /enableranu=1 /AddCurrentUserAsSqlAdmin  
/IAcceptSqlServerLicenseTerms /skiprules=RebootRequiredCheck
```

Shop Floor Editor CAD

For importing CAD models in SFE there is a need for "XNA shared" this is possible to download and install from SFE if online. For offline install a copy of "XNA shared" needs to be downloaded from http://www.robview.com/Prerequistics/XNA/xnags_shared.zip on a computer with internet access and copied to offline computer.

RobView 5.2

RobView version 5.2 and later can communicate with RW6 controllers, using RobAPI2, while version 5.1 or earlier cannot.

Note: RobView 5.2 is still backwards compatible with RW5.

User data

All data created by RobView 5 will now be stored under the ProgramData folder, separate from the program files. The goal of this is to separate application from data to make it easier to backup and restore user data. Instead of having multiple folders spread in the program files we will now have, one folder that only contains user data.

On upgrade to new version of RobView 5 old user data files will be moved to new location automatically.

The path to user data will be "C:\ProgramData\ABB Industrial IT\Robotics IT\RobView5"

RobView R16.2

Global Server Group

New screen under PlantStructure setup with option to configure a global tag list that can be shared across all user screen views. Screen also allows for easy reconfigure of tags to new servers when moving projects between sites, and info about availability of tags.

User Screen

Dropdown Box

New control that allows a mapping between a number and display string for more user friendly screens.

Global data server group to share between screens (setup once use multiple times)

Cell control

Option to clear(set signal to 0) after sending a command

Added option to send arg9 and arg10 in RW6

Signal Setter

Possible to disable user Input in design and on triggers

Improvements to design options; max width of display text, control what side label is shown.

Led

Added design option to control what color the led is when signal is 0

Triggers

Added option to change location of signal Setter and action button using triggers

Socket Command signal

possible to send PCP commands using SocketCommand signal on RW6

Generic File Editor

Option to check Rapid (mod) file for syntax errors

Improvements to error window

Added undo and redo buttons, actions also available on keyboard shortcuts (CTRL+C, CTRL+V)

Shop Floor Editor

Added option to edit program in text mode and check program for syntax errors

Option to do search and find and replace in text window

Support for users to configure custom tools to be shown in 3d view

Support for more move instructions (MoveLSync, MoveLAO, MoveLDO, MoveLGO, MoveJ) as part of 3d view to understand path of robot

Design

Consistent look across plugins for Save/SaveAs/Load from Robot and PC

Consistent question across plugins for save when leaving a modified file

Fixes

Settings

not possible to save files without doing restart if changed between using and not using version control

Activation link for manual activation is wrong in some languages

Improvements to memory usage of RobView, also a number of fixes to OutOfMemory Exceptions

Installation

Error message if Visual C++ 2015 redistributable already installed

Installation failed if RobotStudio is installed before installing Communication Runtime

Editors:

RobView: Save dialogue message box missing for Add a color editor, alias editor and IPS Parameter editor

UserScreens:

CellGroup: not possible to send argument 9 and 10 that RW6 supports

CellGroup: Calibrate IPS Curve is not sent correctly to robot

Problem with Minimizing and maximizing RobView with User Screen

Improvements to performance when switching between the Edit and Run Mode

Duplicate Entry in Job Queue control when a new program is appended

Minor improvements to Process Status control; Colour number missing, wrong status on Applicator

Triggers: <, > triggers does not work with OPC tags if value is set from RobView

Alias Editor

Exception on saving with null character in Index column

Brush Editor:

Can't Edit Brush Tables when running with IPS 4.30, always get tempstorage dialog

Exception if number of brush input is empty

Selecting/Deselecting a machine closes the local brush table

CBS

unnecessary log messages written every 2 sec to internal log

RobView crash on sending reset CBS

Color Change Editor

if empty value is entered RobView crashes

Space is added in front of value when going to text mode with python files

Exception when trying to open file on robot

Generic File Editor

Ambiguity in the selection of file and the content displayed

Error indicating line is not removed even after correcting the error

IPS Explorer

Displays IPS structure of a machine even after machine is unselected

data values are remembered on controller warm start

Production Data:

Argument "%U" is not parsed correctly

Shop Floor Editor

Improvements to Translation of plugin

Scroll when a brush event is selected, jumps to first or last robtarget

Clear selection only clears selection in graphical view

- Pressing delete key in instruction edit removes moveinstruction/setbrush
- Slow update response on undo
- Not possible to close SFE if the error provider reports an error
- Motion path is changed if converting to robtarget in program with MoveC or PaintC
- RobView crash when pressing column header in robtarget table view
- Opening the same module to discard all the changes made is not possible
- Exception when saving readonly file
- Shift+ Arrow key does not select move instructions after selecting a Move Instruction in Tree Structure
- Aspect ratio of 3d drawing is usually wrong after resize

Program Visualizer

- Error loading "Tools\Paint\Bell_G1". File not found

S4pConverter

- Not possible to convert brushdata

Signal Analyzer

- Signals cannot be logged message are displayed multiple time in internal log
- Get multiple trigger events for simple trigger when signal does not change value
- RobView crash when putting computer to sleep
- Out of memory exception when adding to data change list