

RobView 5 prerequisites:

- Microsoft .NET Framework 4.8
- Microsoft XNA Framework Redistributable 4.0
- Microsoft SQL Server 2014 Express
- Microsoft Visual C++ 2013 Runtime Libraries (x86)
- ABB Robot Communication Runtime 7.0 or ABB RobotStudio 2022.3

Installation

The preferred way of upgrading RobView is to connect the PC to internet and run the setup.exe file that will download and install all prerequisites apart from Robot Communication Runtime. All needed prerequisites are available for download from (<http://www.robview.com/?page=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.

For importing CAD models in SFE there is a need for some dll files from "XNA shared" (part of Game Studio 4.0 installation). If online and running RobView as administrator, this is possible to download and install from SFE in Workpiece Importer dialog.

In RobView version 5.2.3025 (2017) user data was moved from Program Files (x86) to ProgramData folder. When upgrading from older versions the existing user data has been automatically moved during installation. This automatic move of user files is removed in version 5.2.3791 (R22.C). If upgrading from older versions than 5.2.3025 and want to keep user data, first install a version older than 5.2.3791 (R22.C)

Offline install

RobView prerequisites are installed 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 have 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 (32-bit version):

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

SQLEXPR_x64_ENU.exe (64-bit 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" (part of Game Studio 4.0 installation). For offline install, a copy of "XNA shared" needs to be downloaded from http://www.robview.com/Prerequisites/Latest version/Microsoft XNA/Shared 4.0/xnags_shared.zip on a computer with internet access and copied to offline computer.

RobView 5 without admin

From version 5.2.3558 RobView will by default start without requesting admin rights. The application has been changed to run without the need for elevated rights. But because of the integration with SqlServer database the user running RobView need to have sysadmin rights on DB. If the users that is running RobView is also the user installing RobView then all should work ok. If another user is installing RobView with admin rights. The user that is planned to run RobView must be added to the sysadmin group on SqlServer. This can be done after install also by running the following command from an admin command prompt with a user that have admin on DB:

```
sqlcmd.exe -E -S .\SQLEXPRESS -Q "sp_addsrvrolemember '<Login>', 'sysadmin'"
```

Installation of dll files from "XNA shared" requires RobView to run with admin rights.

It is still possible to run RobView with elevated rights. This can be done by right click on application and "Run as administrator".

Incompatibilities

Not possible to run RobView 5.2 and later versions on Windows XP

RobView has been upgraded to run on Microsoft .NET Framework versions newer than 4.0. Running RobView on a PC with only .NET Framework 4.0 is no longer supported. This means it is no longer possible to run RobView 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 requires 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. Importing CAD models in SFE will only work with SQL Server 2014.

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

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.

MC Connection

After upgrade or change of RobotWare system, RobView will not be able to re-establish connection to RobAPI without a restart of RobView.

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 enabled without a restart of RobView.

Signal Analyzer

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

IPS Explorer, ShopFloor Editor and Program Visualizer

With certain graphic drivers there is a known memory issue in the following plugins: IPS Explorer, ShopFloor Editor and Program Visualizer. If these plugins are left to run for a long time RobView can get an OutOfMemory exception.

Documentation

RobView depends on Internet Explorer for PDF view. Therefore, in order to show the PDF documentation in RobView, the Internet Explorer needs to be configured with an add-on that is capable to show PDF files. To check for Adobe PDF add-on:

- Open Internet Explorer and choose Tools > Manage Add-ons
- Under Add-on Types, select Toolbars and Extensions
- In the Show menu, choose All add-ons
- In the list of add-ons, select Adobe PDF Reader.

RobView R22.D

Improvements

User Screens

- Added commands for Rotating Color Changer (RCC) in Paint command list
- Updated view templates for PixelPaint
- Status on process controls set to ON when value is different from 0, instead of when value is true

Safety Chain Viewer

- Added signal BellBrkFuncAct in evaluation of status A1BrakeV YV10 on

Signal Analyzer

- Added delta value for vertical cursors

Fixes

Color Change Sequence Editor

- Fixed: Not showing graphic view when 'proc' in module name

User Screens

Fixed: Loosing trigger fields because of color as RGB is not culture invariant

Fixed: Limitalarm process control sometimes throws an exception

RobView R22.C

Removed automatic move of user files from Program Files (x86) to ProgramData during upgrade. See more details under Installation.

Improvements

User Screens

Added view template for Purge/PPSB debug

Safety Chain Viewer

Included RID signals in CBS chain

Added more items to pump chain

Fixes

Production Control and User Screens

Fixed: Cannot hold master when sending paint command. RWS subscriptions are sometimes not set up again after restart of robot. Fault introduced in previous version of RobView.

ShopFloor Editor

Fixed: Exception when scrolling in Graphical Editor if selected robtarget is made hidden

Fixed: Exception when shift select in Module Tree View when a hidden robtarget is selected

RobView R22.B

New features

ShopFloor Editor

Added support for IDFP next generation instructions and beaddata

In graphic mode, holding left mouse button and dragging over program selects all points in marked area

In graphic mode, holding shift key and left mouse button and dragging over program selects all brush events in marked area

User Screens

Support for import of view templates included in installation. Added preliminary templates for PixelPaint

Added preliminary cavity states for PixelPaint in Color Change control

Production Control

Added preliminary cavity states for PixelPaint

Improvements

User Screens

Control 'ABB trend' using property BackColor to set background color of graph

Process controls improvements: Changeable status colors

Control 'Pump': Added property Direction and adjusted size on figure

Control 'Valve': Added option Inside on property PaintMode

Editors

Local text files can be opened in RobView from command prompt and batch files. Now it is possible to add argument in addition to the filename to specify which editor to open in:

- Brush Editor: /be
- ShopFloor Editor: /sfe
- Color Change Sequence Editor: /ccse
- Generic Editor: /ge

Command:

```
call "C:\Program Files (x86)\ABB Robotics\RobView5\ABB.Robotics.Paint.RobView.exe"  
<filepath> <editor>
```

Fixes

ShopFloor Editor

Fixed: PaintLDO does not show in graphical view and missing in text view parser

Fixed: 'beaddata', 'robtargt' and 'tooldata' only listed when typed with lower case

Fixed: Exception if saving settings when motion data files not found (virtual controller)

Fixed: Exception when mirroring programs with MoveJ instructions

Add A Color Editor

Fixed: Showing wrong info

Signal Analyzer

Fixed: Missing events when logging data from record and array

Safety Chain Viewer

Fixed: Removed BellBrake from YV-10. Update signal mapping for IPS 4.60.32

RobView R21.D

Improvements

Life Cycle Management

Improvement on IPS restart detection

Safety Chain Viewer

YV-10 added to safety chain screen (A1BrakeV do, A1BellRotating do and A1BrakeV YV-10 on)

User Screens

Updated Process Status control to show connection problems as network icon on the background of the control

Fixes

ShopFloor Editor

Fixed scrolling to wrong robtargt when same robtargt is used multiple places in a routine

Smart Atomizer Tracking

Support saving of Rfid settings (variable RFID_ARTICLES) as decimal number with dash (hex number in older versions for rfid.sys file)

Updated to save Rfid settings (variable RFID_ARTICLES) as local const (pers in older versions of rfid.sys file)

Process Health Check

Fixed 'BellSpeed too high' with the bell just spinning from the Bearing Air

RobView v5.2.3718

Fixes

ShopFloor Editor

Fixed robtargets declared as PERS variables displayed with 'ToPoint not defined or unknown value' (PDD 13530)

Add A Color Editor

Fixed DPI/resolution settings issues with overlapping texts

RobView R21.A

New features

Communication/Security

Support for SFTP on file services on connections to RobotWare 6

Safety Chain Viewer

Support for showing status of AirDist chain

Add A Color Editor

Support for setting background color on columns

Improvements

Machine Selector

Changed color to gray when connected to Robot without IPS

Fixes

Installation

Fix to install problem with prerequisite Microsoft XNA Framework Redistributable

Communication

Fix to slow performance when many controllers are connected

Smart Atomizer Tracking

Fixed issue where it was not possible to configure RFID settings

Generic File Editor

Fix to save as button always disabled for S4P+ robots

RobView R20.D

New features

Process Health Check

New plugin with sequence to support check for ACU internal errors

Improvements

Life Cycle Management

- Added Unit on Value

- Added filter setup to select robots to display

- Added support for remove of LCM data for one robot in the database

- Improved LCM list readability

Communication

- Give informative message in operator log and communication status if Robot Communication Runtime is missing

- Display in communication status for the actual robot if maximum number of RobAPI clients has been reached

Fixes

Life Cycle Management

- Fixed offline items always displayed as normal

- Fixed mode 'peak' variant 'min' only updates value when it goes below 0

- Fixed mode 'mean' only shows mean value from IPS after last startup of IPS node

RvCmd

- Fixed not possible to run application without admin rights

Replica

- Fixed missing folder on get action

Signal Analyzer

- Fixed not possible to start log because of corrupt data

RobView R20.C

New features

ShopFloor Editor

- Support selection and change of multiple SetBrush/brush events in graphical editor

- Exchange work object in module tree view on subroutine or whole module

- Display and change work object in move instruction editor

Improvements

ShopFloor Editor

- Newly added brush event is inserted in the middle and is automatically set as selected

- Support viewing up to 100 tools when multiple robtargets are selected

- Spray fan on tools displayed as blue line

- Workpiece models flickers when rotating – Added property Cull Mode in Workpiece Manager

- Tool models (xnb files) for new applicators added – RB1000i series

Program Visualizer

- Spray fan on tools displayed as blue line in center and in addition as cone when brush is on

Event log database

- Automatically delete event log messages older than 6 months

Fixes

ShopFloor Editor

- Fixed exception when trying to add optional instruction argument on MoveChangeApp
- Improved slow on GUI thread when using 'large' workpieces

User Screens

- Fixed tracking range in control Gauge does not work correct if min value not 0

Plant Structure setup/Robot UAS

- Fixed RobView does not reconnect to robot when changing robot user
- Fixed when robot user changes on one machine, it applies to all machines

Event log database

- Fixed timeout on slow delete of database when much data

Signal Analyzer and Global Mapping

- Fixed not possible to browse cached RobAPI signals in offline mode

Life Cycle Management

- Fixed LCM not updated according to changes on IPS (mode 'mean' is not fully implemented)
- Fixed LCM devices for pump pressure sensors are missing
- Fixed LCM values on IMS devices not updated after robot has been restarted

RobView R20.B

Improvements

Color Change Sequence Editor

- Improved Set Value dialog to set OK button active when value is edited
- Modified grid width steps when changing interval with up/down buttons (100->50 and 50->100)

Signal Analyzer

- Display grid width in graph view

Fixes

Installation

- Fixed Visual C++ redistributable installs even if it already exists

User Screens:

- Fixed signals not updated when starting User Screens before RobAPI2 is fully connected

IPS Parameter Editor

- Fixed IPS unit 'MPa' not displayed

Color Change Sequence Editor

- Fixed exception occurred when editing color change sequence file with error

Fixed default filename not displayed when creating new Python sequence file
Stand alone IPS: Fixed new file created as Rapid sequence
Stand alone IPS: Fixed settings file is not loaded or saved after Save As

ShopFloor Editor

Fixed user is unable to copy and paste a local procedure

RobView R20.A

New features

Added support for opening local files in new window for ShopFloor Editor, Color Change Editor, Brush Editor and Generic File Editor. Only one instance of RobView can be running in "full" mode with connection to the robots, and multiple instances may be started in "local" mode with a local file opened in one of the four editors. The "local" mode instance can be started from a button 'Open local in new window' in the editors or when opening a file with RobView in File Explorer.

ShopFloor Editor

Added Copy, Paste, and Duplicate of routine in Module Tree View

User Screen

JobQueueControl: Added support for 3 program options and 3 material options for a job

Improvements

Program Visualizer

Added manipulator models for IRB5500 Floor and IRB5510

Event View:

Support for startup setting of Severity filter

Fixes

Communication

Event logs, Rapid variables and IO signals from MC are not updating after robot has been turned off for a while and after upgrade of RobotWare. It happened even though MC communication status showed connected. This is fixed for the case when robot is turned off for a while. After RobotWare upgrade the communication status is set to not connected, and restart of RobView is required.

IPS Parameter Editor

Fix to Max/Min and Units not always found

Fix to it is possible to set a parameter value from RobView to a higher value than maximum range in IPS

Signal Analyzer

Elog messages not included in signal log when no controller name

RobView R19.D

New features

RobView can now run without administrative rights

Color Change Editor

- Open and edit multiple files

Improvements

RFID

- Add support for new location of rfid.sys

Replica

- Logs folder should be excluded from git but not from view

Alias Editor

- The robot segments.ndx file does not have a limitation on entries, the alias editor also supports this now

Add A Color Editor

- Maximum material number increased to match segments.ndx

Documentation

- Possible to select a position on disk for where doc set is located

ShopFloor Editor

- It is confusing that wizard for change of z-value is called "Modify spray distance"

Fixes

Communication

- RobAPI1: Fix to out of memory exception in PC-SDK
- RobAPI2: Fix to stability issue with RobAPI2 communication
- RobAPI2: Fix to problem with who owns master
- RobAPI2: Fix to error message when sending commands to fast
- ICI: Fix to deadlock issue with ICI communication
- ICI: Fix to hang-up on ICI _lock1 when switching to plugin Safety Chain Viewer
- ICI: Fix to exception in assert in IciData.cpp in ici.dll

Database

- Fix to exception when Internal Log database cleanup

IPS Explorer

- Fix to find function reports that no IPS device found even if it exists

User Screens

- Fix to overflow exception in IPSCurveView
- Fix to IPS curve View not showing correct curve

RobView R19.C

New features

RobView is now DPI aware so that it scales correctly on 120DPI setting

Safety Chain

- Added a new chain to show status of turbine enable
- Added diagnostics info about divergence on safety chain

Git, FileService

- Update default exclude filter for git to include log files

Color Change Editor

- Added the possibility to arrange signals in required order

Fixes

Safety Chain

- Fix to some of the buttons cannot be selected

Communication

- Fix to missing RobotWare IO signals when RobAPI2 is down
- Fix to RobView hang related to ICI communication and threading
- Fix to exception in assert in IciData.cpp in ici.dll
- Fix to MC not connected after RW upgrade
- Fix to many ICI messages with 'server not found'

Git, FileService

- Fix to exception during replication cancelled the rest of the files

IPS Explorer

- Fix to find device moved image to wrong position if image size is changed

IPS Parameter Editor

- Fix to exception when closing parameter editor when no active machine
- Fix to fault mark not removed after format fault is fixed
- Fix to error "Parameter is not settable" is given in some cases where it is settable
- Fix to when full device path is not given in command, evaluation of range is missing

User Screens

- Fix to ValueDecimals do not work when value comes from a Rapid num variable

RobView R19.B

New features

Support for IPS over Ethernet in RobView, IPS over ethernet is introduced in IPS 4.60.17

Generic File Editor

- IPS Parser: Add support for new devices

IPS Explorer

- Add option search for a device to make it easier to navigate
- Add shortcut keys
- Filter Sib and Mib instead of SPI

ShopFloor Editor

- Wizard for tooldata
- Make it possible to configure the list in move instruction editor dropdowns: Speed, zone, tool and bead
- Option to add new instructions that SFE understands to be either MoveL or MoveC. In graphical view it is possible to edit standard move params (zone, speed, pos)
- Would like to have context wizard for changing spray distance
- Users update robdata.sys with speed, tool, zone and bead data and would like to show these in dropdown in graphical mode

PIB-03 as spare part

- Added support in Replica Status to delete local replica to support moving from Pib-01 to PIB-03

Fixes

ShopFloor Editor

- Zone balls are not displayed after program load
- Bead colors are not visible when opening a program
- .MOD files are not displayed in open dialog
- Confusing that position in SetBrush changes when selecting instruction
- Exception when parsing module M5c.mod
- Paint speed and zone data not available on robot
- Open from robot option can be made user friendly
- Exception in 3d View when alias on robtarget is used
- A message should be displayed to give information about maximum value of the rotation angle

User Screen

- Crashing when opening special UserScreen (PDD11121)
- Not possible to remove image from ActionButton, ImageButton and ImageLed

Replica

- "Ignore Brush In Replica" function not working
- No files found on PIB-01

LCM

- Exception when lcm item on other than node1

Communication

- Out of memory exception - about 900 worker threads in Controllers.PC.dll

Add a Color Editor

- Exception when saving if connected to virtual controller and no IPS connected
- Exception on datagrid view
- DataGrid exception if more than 10 digits are entered

Alias Editor

- Message box pops up repeatedly on relaunching plugin

Brush Editor

The local brush file displays description in other columns
Mapped program is not selected on selecting brush table
When selecting BrushTable it will not display correct program and material, and wrong tool tip message is displayed
Brushes deleted in GFE not updated correct in Brush Editor

Generic File Editor

Exception in internal log on entering certain special characters in Folder name
Save As to robot is not enabled on stand alone IPS
Paste button is enabled even when no machine is selected
Cannot paste a deleted file

ICI Topology

Exception when saving/printing ICI Topology selection

IPS Explorer

Image not updated with offline status when machine is disconnected

Version Control

Exception in internal log when replicate on IPS filesystem with RW6 controller

IPS Parameter Editor

Parameter file names duplicated in combo box
RobView parameter editor deletes other lines
Exception occurred once when changing a cell value

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 features

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 the 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 delayup 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 it's 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 work piece 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

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 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 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

New features

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, MoveI) 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