Integration and Openness for Engineering Productivity

– Reduce risk and save time: Improved integration of Drives, PLC and HMI
– Stay flexible: New features to build your distinct solution and tool chain
– Be productive: Better support for teams and fast-track solution engineering

What is Automation Builder?
ABB Automation Builder is the software for machine builders and system integrators wanting to automate their machines and systems in a unified and efficient way. Automation Builder stands for Integration, Openness and Engineering Productivity.

Integrated engineering is key for letting products, technology and people work seamlessly. Automation Builder connects the engineering tools for PLC, safety, drives, motion, robotics and HMI. Automation Builder integrates products into solutions that create value for your customers. Integration brings you in control of your project, reduces risk and saves time.

Open systems win. They lead to more innovation, value, and freedom of choice for your business. Automation Builder enables you to adapt the tool chain to your needs and workflows. Automation Builder is open for your specific product and communication technology to build your distinct solution.

With the release of Automation Builder 1.2 we continue to success story of Engineering Productivity for discrete automation solutions.

What is new in Automation Builder 1.2 SR2?
Improvements contained in this service release are described below. For the various new features introduced with the release of Automation Builder 1.2.2 please refer to the respective sales information issued with Automation Builder 1.2.0 and Automation Builder 1.2.1. Beyond the improvements below the service release delivers improved user documentation and software usability.

Automation Builder installation
Automation Builder setup now directly supports the uninstallation of previous Automation Builder versions. A manual uninstallation before launching the installation is not required any more.

PLC engineering
We have adjusted the Advanced IO device handling with structures to be prepared for the next generation PLCs.

Libraries and Solutions
The following library packages are now available from the Automation Builder installation and are using the Automation Builder licensing mechanism

– Water Library
– Temperature Control Library
– BACnet-ASC Library (new; as technology preview)
– Solar Library (available from week 20)
– Motion Control Library (new version 3.1 extended by additional Function Blocks; available from week 20)

Activate library licenses via the existing “Install additional License” feature – available 24/7. The license itself will be checked during compilation of your IEC61131 application.
The PS565 BACnet-ASC Library package is now available as a Technology Preview. Please contact sales for a preview license. This library allows to integrate an AC500 CPU into a BACnet network and to exchange data between the AC500 CPU and other devices connected to BACnet network.

The PS562 Solar Library contains Function Blocks to calculate sun position at defined location and time as well as position the active area (solar panels) towards the sun in order to maximize energy harvest. A so-called mode manager controls different operations e.g. homing, calibration, cleaning, tracking etc. A function block to move tracker using hydraulics is also available.

The PS564 Temperature Control Library package contains Function Blocks for advanced temperature control for critical processes, which need precise temperature control and e.g. adaptive tuning for ease of handling and changing environmental or process conditions.

The PS563 Water Library package contains
- Function Blocks for advanced time-stamped data logging of different use cases including storing data when communication is interrupted
- Function Blocks for smaller and medium sized pump stations (or pump skids) covering basic functionalities as well as advanced functions for very different applications.
- Pump Station Configuration Tool as Technology Preview now including boost control.

The PS552-MC-E Motion Control Library is a set of libraries to create Motion Control applications based on the standard of PLCopen Motion Control. These Function Blocks can be used for PLC-based (Central) Motion Control as well as for drive-based axis implementations.

PackML is now available as a pre-defined template project in two variants: with or without CP600. The template project holds a PackML library which saves your time in setting up PackML projects. The status of being a Technology Preview has been removed.

Safety Engineering
We have received the “Letter of Conformance” for Automation Builder 1.2 from TÜV SÜD. Therefore, Automation Builder 1.2 Service Release 2 is containing the Safety PLC AC500-S feature for the latest version. Also, AC500 Firmware V2.5 will now support safety components.

As you are already aware, functional safety is only supported with the Standard and Premium edition of Automation Builder 1.2. The users still need to order the PSS01-S License enabling package for successfully compiling and downloading a safety project with safety libraries in the IEC61131-3 programming editor.

Drive engineering
Drive Management improved the support for F-series I/O modules for IEC-programming purpose as well as support of formatted number type parameters when using the “Application Parameters and Events” tool.

This release contains Drive Composer Pro 1.11.2 which brings various improvements, including updated system library function blocks and further functional enhancements.

Delivery and ordering information
Automation Builder 1.2 SR1 is available for download from www.abb.com/automationbuilder.

The download contains the Installation Manager that handles all installation and update relevant tasks and ensures the installation of the latest available packages.

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<th>Order No.</th>
<th>Product</th>
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<tr>
<td>1SAS010000R0101 (replacing 1SAP193000R0101)</td>
<td>Automation Builder 1.x Standard Single license</td>
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<tr>
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<td>Motion Control Library 3.x Single license</td>
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<td>1SAP193600R0001</td>
<td>DM-KEY (USB-Dongle)</td>
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BOLD indicates new products.

As announced beginning of the year the special offer to upgrade from Control Builder Plus to Automation Builder for free has ended.

Learn more about Automation Builder
Automation Builder 1.2 is available from now on at www.abb.com/automationbuilder

For detailed information on the features, improvements and limitations please refer to the release notes. The release notes can be found within Automation Builder and in the ABB Library.

Christopher Stamas
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