

# BLUE V3.0

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## 1 VERSION

The internal version of this software is V3.0

## 2 SOFTWARE DESCRIPTION

This software provides an integrated development environment that enables you to use the PC to create a Human Machine Interface (HMI) user application. The HMI user application is used by the runtime software, and can run on multiple platforms.

## 3 SYSTEM REQUIREMENT

System Requirement	Specification
PC	Windows PC/AT compatible machine
CPU	Core2 Duo 2 GHz or faster
RAM Memory	2 GB or more
Available Disk Space	2 GB or more
Operating System	Windows 7 SP1 32-bit and 64-bit Windows 8/8.1 32-bit and 64-bit Windows 10 32-bit and 64-bit

## 4 ACCESS RIGHTS

Before you Install, Uninstall or Operate the software application, make sure you have administrator rights on your computer.

## 5 SECURITY

- Check that the network is secured before communication is established and data is transferred through the Ethernet.
- When using Windows administrator account for runtime, define the secured password and security settings.
- Runtime does not ask password for the below operations:
  - External Device - Upload (USB Storage/Upload SD Card)
  - External Device - Download (USB Storage/Upload SD Card)
  - Display the Hardware Configuration Screen

Set the security level for the Switches which are used for above operations.

## 6 LICENSE / REGISTRATION

Please refer Help on Schneider Electric License Manager.

## 7 TOOLS

Following tools from installed ([¥Tools] folder) can be distributed.

- Export Validation Tool
- User Management Tool

## 8 LIMITATIONS

### 8.1 General

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This section lists all the limitations that are applicable to both Editor and Runtime.

#### 8.1.1 Project File size

- If project file configured the following cases, please use 64 bit Windows OS.
  - Up to 40K Variables (Primitive or Complex) are supported for creation or Import
  - Up to 10K size of Symbol Import
  - Up to 10K Size of Recipe Entries
  - Up to 150 panels

#### 8.1.2 Navigation

- If slider navigation properties values are retained when again changed back to Slider from other Navigation Type. You need to confirm the Properties when Navigation is changed from Slider to other Navigation and back to Slider.
- If you change a folder hierarchy in Project Explorer, please configure Navigation Type of the folder again.
- If you change the Screen ID / Content ID then execute simulation but close the Project without save application might lose the screen / content fort which ID was changed

#### 8.1.3 Parts

- Don't use String Type operation on Properties. If you want to use, please configure in Block Script.

##### 8.1.3.1 Picture Display

- Use alphanumeric characters for image file names for Picture Display. If you use other characters, the image is not shown in Runtime.

## 8.1.4 Shape

- Don't use String Type operation on Properties. If you want to use, please configure in Block Script.

### 8.1.4.1 Image

It is not possible to view the image in simulation/RT, if the image width or height is more than 3000 pixels

## 8.1.5 Variable

- Do not set WSTRING on Internal variable
- If there are similar equipment in one Project, then same symbol file cannot be use for multiple equipment.
- Disabling IEC 61131 addressing mode after enabling base address array variable addresses are wrong. You need to re-assign the address
- Following data types are not supported/ converted to another type during Symbol Import

### Not Supported

- ENUM
- INTERFACE

### Convert to primitive types of the source

- SUBRANGE
- POINTER TO
- REFERENCE

### Convert to Structure

- UNION
- FUNCTION\_BLOCK

### 8.1.5.1 Rockwell Automation, Inc. Ethernet/IP

- NamedBasicType is imported as String type in Symbol link.

## 8.1.6 Script

- You cannot use Array operation for InActive trigger.

## 8.1.7 Bind Converter

- Do not set Date/Time type to Field Type of Range Converter and Color Converter.

- String Property is not supported in Expression Converter. (e.g. Fixed String , String Variable , any other object string Property)
- Variables used in expression converter should be with ".Value"
- Bit Shift (>>>) function is not supported in Expression Converter.
- Multi-dimension array is not supported in Expression Converter.

### 8.1.8 File name/Folder name validation

- Use alphanumeric characters for Recipe Export, Recipe Import, and Logging Export file names. If you use other characters, the file name will be distorted.

### 8.1.9 System Architecture

- Some of the Targets with certain drivers shows Com Port Type (e.g. RS-232/RS-485) selection empty or less entry than supported by Target. If any Com Port Type is missing in editor, you can change the com port type on Runtime using Hardware Configuration Object.

#### 8.1.9.1 Siemens AG SIMATIC S7 MPI Direct

- You can configure only 9600|19200 speed for ADDITIONALPORT. You can change to all supported speed (9600|19200|187.5K|1.5M|3M|6M|12M) on Runtime using Hardware Configuration Object.

### 8.1.10 GP4000 Series Model

- Modbus Organization Modbus SIO Slave driver cannot be used for GP4000 series.

### 8.1.11 SP5000 Series Model

- Before you switch the BLUE system from legacy software in the SP5000 Series Open Box (SP-5B4\*), do the following steps
  1. Run the [MiniUsbDownloadManager.exe] located in the folder [C:¥Pro-face].
  2. Confirm [Activate USB download for BLUE] is selected and click [OK].
- Schneider Electric Uni-Telway with Premium Series cannot be used for SP5000 Series Open Box (SP-5B4\*)
- Schneider Modbus TCP Master via USB driver cannot be used for IPC Series or SP5000 Series Open Box (SP-5B4\*).
- Do not use CA3-ISO232-01 on SP5000 Series Open Box (SP-5B4\*).

## 9 OPEN SOURCE SOFTWARE

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## 9.1 LUA Plus

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## 9.2 SQLCIPHER

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This package is an SSL implementation written by Eric Young ([eay@cryptsoft.com](mailto:eay@cryptsoft.com)). The implementation was written so as to conform with Netscapes SSL.

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## 9.4 mapm



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## 9.5 libpng

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libpng is used in this product.

## 9.6 SimpleCrypt

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## 9.7 libxml2

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