

Zelio Soft 2

Release Notes

Original instructions

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Safety Information

Important Information

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.





The addition of this symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

 DANGER
DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

 WARNING
WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 CAUTION
CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE
NOTICE is used to address practices not related to physical injury.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

About the Document

Document Scope

This document contains important information about the Zelio Smart Relay system and the history of previous releases. Read the complete document before you use the product or products that are described herein.

Validity Note

The information in this Release Notes document is applicable only for Zelio Soft 2 compatible products.

This document has been updated for the release of Zelio Soft 2 V5.4.3.

To find documents online, visit the Schneider Electric download center (www.se.com/ww/en/download/).

New Release Information

Zelio Soft 2 Version 5.4.3

Firmware Information

- Firmware FBD V4.14 / V4.6.00
- Firmware LADDER V4.12 / V4.3.02
- Firmware LADDER EXTENDED V4.14 / V4.4.03
- Firmware SR2COM01 V1.0.14

New Features

Compatibility with Windows 11.

Security Updates

- Addressed CVE-2024-2658 cybersecurity vulnerability by updating third-party component FlexNet Publisher.
- Encrypting of user project file (.zm2 extension).
- Secure loading of user project file (.zm2 extension).
- Encrypting of Ladder / Extended Ladder / FBD and Communication module firmware.
- Secure loading of Ladder / Extended Ladder / FBD and Communication module firmware.
- Upgrade of the FTDI drivers for SR2USB01 to the version 2.12.36.4

Mitigated Anomalies

- ZELIO-212: Fixed a stop responding issue that occurs while printing user project.
- ZELIO-217: Addition of PT-100 scale formula to Zelio Soft 2.
- ZELIO-219: Fixed a stop responding issue that occurs while saving clone view.
- ZELIO-252: Fixed licensing issues in Zelio Soft 2.
- ZELIO-533: Resolved header/footer issues while printing.
- ZELIO-537: Fixed an issue with copy-paste function in version 5.4.2.2.

Known Anomalies

ZELIO-534: The hysteresis parameter "H" is displayed as "I" on the Smart Relay screen and in the software Simulation mode for the **Analog Comparators** function block. This has no impact on the functionality.

Released Versions

Zelio Soft 2 Version 5.4.2.2

Firmware Information

- Firmware FBD V4.14 / V4.6.00
- Firmware LADDER V4.12 / V4.3.02
- Firmware LADDER EXTENDED V4.14 / V4.4.03
- Firmware SR2COM01 V1.0.14

Software New Features

The following security vulnerabilities have been addressed in this release:

- CVE-2024-8422
- CVE-2024-8518

Zelio Soft 2 Version 5.4.2

Firmware Information

- Firmware FBD V4.14 / V4.6.00
- Firmware LADDER V4.12 / V4.3.02
- Firmware LADDER EXTENDED V4.14 / V4.4.03
- Firmware SR2COM01 V1.0.14

Software New Features

Correction of the regression when setting the DISPLAY function in the Workshop in version 5.4.1 (stop responding issue).

Zelio Soft 2 Version 5.4.1

Firmware Information

- Firmware FBD V4.14 / V4.6.00
- Firmware LADDER V4.12 / V4.3.02
- Firmware LADDER EXTENDED V4.14 / V4.4.03
- Firmware SR2COM01 V1.0.14

Software New Features

IMPORTANT: Zelio Soft 2 version 5.4.1 requires Windows 10 or later for installation.

- Correction of the regression of the SUNTRACK function in version 5.4.0 (execution and simulation).
- Correction of incorrect Ladder simulation in some cases.
- Improvement of the startup time of the Workshop.
- Improvement of COM port detection.
- Added a new modem reference (TRB142). It requires a manual update of the SR2COM01 firmware through Zelio Soft 2.
- Fixed Zelio Soft 2 stop responding issue when accessing a large number of editable parameters.
- Fixed DLL injection vulnerability.
- Software signing.

Zelio Soft 2 Version 5.4.0

Firmware Information

- Firmware FBD V4.13 / V4.5.00
- Firmware LADDER V4.12 / V4.3.02
- Firmware LADDER EXTENDED V4.14 / V4.4.03
- Firmware SR2COM01 V1.0.13

Software New Features

- Improved Help.
- New FBD THERMISTANCE.
- Corrections on analog inputs.
- Minor corrections in FBD, LADDER and LADDER EXTENDED.
- SESU and license management updated.
- FBD PID V1.5 -> V1.6.
- Cybersecurity fix CVE-2020-7520.

Zelio Soft 2 Version 5.3.1

Firmware Information

- Firmware FBD V4.12 / V4.4.04
- Firmware LADDER V4.11 / V4.3.01
- Firmware LADDER EXTENDED V4.13 / V4.4.02
- Firmware SR2COM01 V1.0.13

Software New Features

- New installation.
- SESU and licensing management updated.

Zelio Soft 2 Version 5.3

Firmware Information

- Firmware FBD V4.12 / V4.4.04
- Firmware LADDER V4.11 / V4.3.01
- Firmware LADDER EXTENDED V4.13 / V4.4.02
- Firmware SR2COM01 V1.0.13

Software New Features

- Cybersecurity improvement: protection against some incorrect Zeliosoft application files (CVE-2019-6822).
- Cybersecurity improvement: update of the license manager.
- Improved Ladder printing.
- Fixed bug: impossible to deposit a block at the place of a block erased if this one was placed on a drawing.
- Displaying a message when inserting or deleting a Ladder line if a graph is cut in line 120.

Zelio Soft 2 Version 5.2

Firmware Information

- Firmware FBD V4.12 / V4.4.04
- Firmware LADDER V4.11 / V4.3.01
- Firmware LADDER EXTENDED V4.13 / V4.4.02
- Firmware SR2COM01 V1.0.13

Software New Features

Cybersecurity improvement: protection against some incorrect Zeliosoft application files (CVE-2018-7817, CVE-2018-7818).

Zelio Soft 2 Version 5.1

Firmware Information

- Firmware FBD V4.12 / V4.4.04
- Firmware LADDER V4.11 / V4.3.01
- Firmware LADDER EXTENDED V4.13 / V4.4.02
- Firmware SR2COM01 V1.0.13

Software New Features

- Add of PID Application Function Block (AFB)
- Driver for the new SR2USB01 cable (USB01_H2)
- Windows 10 transfer issue fixed
- Integration of SESU (Schneider Electric Software Update)
- Customer registration for License management

Zelio Soft 2 Version 5.0

Firmware Information

- Firmware FBD V4.07 / V4.3.01
- Firmware LADDER V4.05 / V4.2.05
- Firmware LADDER EXTENDED V4.09 / V4.4.03
- Firmware SR2COM01 V1.0.13

Software New Features

- Capacity of LADDER has been increased to 240 lines if SR2COM01 is not used.
- LADDER resources have been increased to 28 Timers, 28 Counters, and 56 Internal bits (M,N) if SR2COM01 is not used.

NOTE: If SR2COM01 is used, the capacities and resources remain identical to the previous version of Zelio Soft 2.

- Memory capacity of FBD has been increased and the maximum number of blocks is now 500 blocks.
- Compatibility with Windows 10 (32 and 64 bits) – see important note below:

IMPORTANT: The USB driver furnished with Zelio Soft 2 is not compatible with Windows 10. Windows 10 installs its own USB driver. On certain PCs running Windows 10, the transfer times may be longer.

NOTE: An application created with a previous version of Zelio Soft 2 and opened with version V5.0 may increase cycle times by as much as 2 ms.

Zelio Soft 2 Version 4.6

Firmware Information

- Firmware FBD V4.2.05
- Firmware LADDER V4.2.05
- Firmware SR2COM01 V1.0.13

Software New Features

- Compatibility with Windows 7 (64 bits) and Windows 8.1 (64 bits).
- Added 64-bit driver for SR2USB01 cable.
- New DLL of communication for SR2BTC01 Bluetooth module.
- Bug correction of TIME PROG function.

Zelio Soft 2 Version 4.5

Firmware Information

- Firmware FBD V4.2.04
- Firmware LADDER V4.2.04
- Firmware SR2COM01 V1.0.13

Software New Features

- Brand migration Schneider Electric (new splash screen & logo).
- Correction of TIME PROG function modification by front panel.
- Evolution of firmware compatibility test before memory cartridge transfer.

Zelio Soft 2 Version 4.4

Firmware Information

- Firmware FBD V4.2.03
- Firmware LADDER V4.2.03
- Firmware SR2COM01 V1.0.13

Software New Features

- Added Suntrack and Sunrise/Sunset FBD functions.
- Correction of initialization file Modem GSM SR2MOD02.
- Improvement of Z2 boot.
- Improvement of online help.
- Corrections of display issues on Japanese OS.

Compatibility with Windows Vista (32 bits) and Windows 7 (32 bits):

- Added drivers for SR2CBL06 USB-serial converter cable for Windows Vista and Windows 7.
- Added modem drivers for Windows Vista and Windows 7.

NOTE: See the readme file (*INSTALLATION_PATH*)\DriverModem\MODEM_DRIVER_INSTALL_xxV1.txt where:

- (*INSTALLATION_PATH*) is the name of the folder you chose to install Zelio Soft 2 software,
- xx reflects the installation language (EN/ES/DE/FR/IT/PT).

Zelio Soft 2 Version 4.3

Firmware Information

- Firmware FBD V4.02
- Firmware LADDER V4.02
- Firmware SR2COM01 V1.0.12

Software New Features

Bugs correction and compiler improvement.

Zelio Soft 2 Version 4.2

Firmware Information

- Firmware FBD V4.01
- Firmware LADDER V4.01
- Firmware SR2COM01 V1.0.12

Software New Features

SR2MOD01 PSTN modem initialization file correction.

Zelio Soft 2 Version 4.1

Firmware Information

- Firmware FBD V4.01
- Firmware LADDER V4.01
- Firmware SR2COM01 V1.0.12

Software New Features

No new feature.

Zelio Soft 2 Version 3.1

Firmware Information

- Firmware FBD V3.09
- Firmware LADDER V3.09
- Firmware SR2COM01 V1.0.12

Software New Features

IMPORTANT: During firmware update operation (through memory card SR2MEM02 or PC), module power supply must not be interrupted before firmware transfer is completed. In case of power loss during firmware transfer, product could seem to be damaged: loss of display (on LCD controller) or flashing LED (on controller without display). In this instance, switch on module power supply and repeat firmware transfer operation (Menu: Module/ Update module firmware).

IMPORTANT: Connection of extensions must be done with power disconnected to the module. Refer to the instruction sheet provided with the extension.

- When sending email via SMS, the SR2COM01 communication interface builds its messages using the following frame:

```
<recipient email adress> <remote station name> <date hour>  
<alarm message subject> <alarm message body>
```

(Above characters '<' and '>' are only used to delimit frame fields, they are not included in the sent frame).

Therefore, you must comply with email service syntax related to the selected provider. Include these specifics characters in directories (recipients and/or remote stations) and/or message (subject and/or body).

- SR2COM01 communication interface must be reinitialized at each link type change (SR2CBL01 or SR2CBL07 cables). Program transfer or Module run can't be proceeded until LED flashing is not achieved.
- For SR2COM01 communication interface used on a phone network requiring prefix, include additional characters in phone number syntax (recipients and/or remote station).
- In order to send commands from Zelio Logic Alarm, phone number syntax (international format, prefix) must match with those used in Zelio Soft 2 remote station configuration.
- In order to receive alarm message from SR1COM01 communication interface on Zelio Logic Alarm, PC Modem must be configured with following parameters: 9600 Bauds, 8 bits and no parity.

Zelio Soft 2 Version 2.4

Firmware Information

- Firmware FBD V2.18
- Firmware LADDER V2.19

Software New Features

No new feature.

Zelio Soft 2 Version 2.2

Firmware Information

No firmware information.

Software New Features

- The CHANGE D/T and CHANGE SUMM/WINT menus, as well as the PARAMETER menu in LADDER mode only, are no longer password-protected.
- The clock for SR2 and SR3 modules works differently to the one for SR1 modules.

If the clock is set to ON on Monday at 11 p.m. and set to OFF on Monday at 1 a.m., it does not switch OFF on Tuesday at 1 a.m. but on the following Monday at 1 a.m..

If no other command has been executed, the clock remains set to ON all the other days of the week.

You must check that the clocks are working using the help function when transferring programs running on SR1 modules to SR2 and SR3 modules.

Zelio Soft 2 Version 2.1

Firmware Information

- Firmware FBD V2.16
- Firmware LADDER V2.16

Software New Features

No new feature.

Zelio Soft 2 Version 2.0

Firmware Information

No firmware information.

Software New Features

This version can be used to program automation applications either by using LADDER diagrams as with Zelio Soft or by using FBD (Functional Block Diagram) language.

Online help can be accessed by clicking on the question marks in the toolbars, the function block configuration windows or by using the F1 key on the keyboard in the designated menus (reverse video).

This version provides assistance with transferring programs running on SR1 smart relays to SR2 and SR3 smart relays. Only programs generated using version 1.5 of Zelio Soft are supported. To make the transfer, simply open the .zel program in Zelio Soft 2.

The software workshop makes the following matches:

Zelio Logic 1	Zelio Logic 2	Additional inputs
SR1 B121JD	SR2 B121JD	2 additional mixed inputs
SR1 A101BD	SR2 A101BD	–
SR1 B121BD	SR2 B121BD	2 additional mixed inputs
SR1 B122BD	SR2 B122BD	2 additional mixed inputs
SR1 B101B	SR2 B121B	2 additional discrete inputs
SR1 A101FU	SR2 A101FU	–
SR1 B101FU	SR2 B121FU	2 additional discrete inputs
SR1 A201BD	SR2 A201BD	2 additional mixed inputs
SR1 B201BD	SR2 B201BD	4 additional mixed inputs
SR1 B201B	SR2 B201B	–
SR1 A201FU	SR2 A201FU	–
SR1 B201FU	SR2 B201FU	–

The matching of inputs and the functionality of the transferred program should be checked. The user can then save the program in Zelio Soft 2. From the "Module" menu it is also possible to replace the SR2 smart relay by a SR3 smart relay with the same or a greater number of inputs/outputs.

NOTE: With Windows 95 and 98 operating systems, "non-intelligent" device drivers may overload the serial port and cause interruptions in communication between the PC and the module.

NOTE: It is not allowed to set the module time between 2 a.m. and 3 a.m. the day of the change to wintertime.

NOTE: Anomaly identified and still to be corrected: the Zx keys used in the program cannot be accessed from the front panel of the relay in MONITORING mode.

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