Allen-Bradley

Guardmaster®

User Manual

SCD Operating Software

SafeZone™ Multizone and
SafeShield™ Safety Light Curtain

Rockwell Automation

Important User Information

Because of the variety of uses for the products described in this publication, those responsible for the application and use of this control equipment must satisfy themselves that all necessary steps have been taken to assure that each application and use meets all performance and safety requirements, including any applicable laws, regulations, codes and standards.

The illustrations, charts, sample programs and layout examples shown in this guide are intended solely for purposes of example. Since there are many variables and requirements associated with any particular installation, Rockwell Automation Allen-Bradley does not assume responsibility or liability, including intellectual property liability for actual use based upon the examples shown in this publication.

Related Safety Information

You are responsible for the safety of the entire installed control system and for meeting all applicable laws, codes, and safety requirements.

ATTENTION: As the installer of this control system, you must be knowledgeable of other applicable standards pertaining to safety recommendations related to:

- Machine Construction
- General Electrical
- Machine Guarding
- Point of Operation guards, safety light curtains, mechanical guards, and Two hand controls

In addition to local laws and codes, you are responsible for the safety recommendations detailed in all applicable codes and standards including:

- OSHA Regulations
- ANSI Standards
- NFPA
- CSA

IMPORTANT	Rockwell Automation reserves the right to make revisions to these installation instructions and disclaims liability for all incidental and consequential damages related to the furnishing, performance and use of this material.

Table of Contents

About this Documentation 4

Installation of the Software 6

Product Description 6

User Interface 6

Working with Projects 8

Communication 9

Configuration 10

Diagnosis Data 12

All specifications subject to change.

IMPORTANT: Save these instructions for use at a future time.

Generally recognized technical regulations and quality assurance system ISO 9000 are carefully applied during the development and production of Rockwell Automation products.

About This Documentation

Please read this chapter carefully before working with this documentation and the Safety Configuration & Diagnostic (SCD) software.

Function of This Document

This manual instructs the machine operator's technical personnel in the operation of the SCD software for safety devices supplied by Allen-Bradley Guardmaster.

It does not provide instructions on the operation, commissioning and maintenance of the safety devices themselves. Please refer to the documentation enclosed with the safety devices for information on operation, commissioning and maintenance.

Target Group

This software documentation addresses planners, developers and operators of systems which are to be protected by one or more safety devices supplied by Allen-Bradley Guardmaster.

It also addresses persons who integrate these safety devices into a machine, start it up for the first time, or who are in charge of servicing and maintaining the unit.

Information Depth

This software documentation contains information on the SCD software for safety devices supplied by Allen-Bradley Guardmaster. The manual provides an overview of the basic software functions. Please refer to the online help function for more detailed instructions on the configuration and diagnosis of devices.

Planning and using safety devices also require specialized technical skills which are not conveyed in this documentation.

Abbreviations

SCD Safety Configuration & Diagnostic software

Symbols and Formats Used

Throughout this manual we use the labels **ATTENTION** and **IMPORTANT** to alert you to the following:

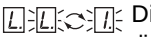
ATTENTION!
Failure to observe may result in dangerous operation

ATTENTION: Identifies information about practices of circumstances that can lead to personal injury or death, property damage, or economic loss

ATTENTION helps you

- Identify a hazard
- Avoid a hazard
- Recognize the consequences

IMPORTANT: Identifies information that is especially important for successful application and understanding of the product.

 Display indicators show the status of the 7-segment display of sender or receiver:

 Constant display of the letter F

 Flashing display of the letter F

 Alternating display of F and 2

 LED symbols denote a flashing LED (upright orientation, 7-segment display, bottom)

➢ Take action...
Instructions for taking action are shown by an arrow. Carefully read and follow the instructions for action.

Note Refer to Notes for special features of the software or of the device.

Handling the Online Help Function

The SCD software is available with an online help function which provides information on the software functions and which provides a step-by-step description of the individual actions.

The following sections of the documentation can be opened in the list of contents:

- Manual on the SCD software in Portable Document Format (PDF)
- Operating instructions for the devices supplied by Allen-Bradley Guardmaster Safety Systems in Portable Document Format (PDF)
- Online help on the SCD
- Online help on device-specific subjects (configuration procedures)

The online help function can be opened separately using the command **Programs, Allen-Bradley Guardmaster Applications, Help on Allen-Bradley Guardmaster SCD**.

- Online help on the SCD
- Online help on device-specific subjects (e.g. configuration procedures)
- Operating instructions for the devices supplied by Allen-Bradley Guardmaster Safety Systems in Portable Document Format (PDF)

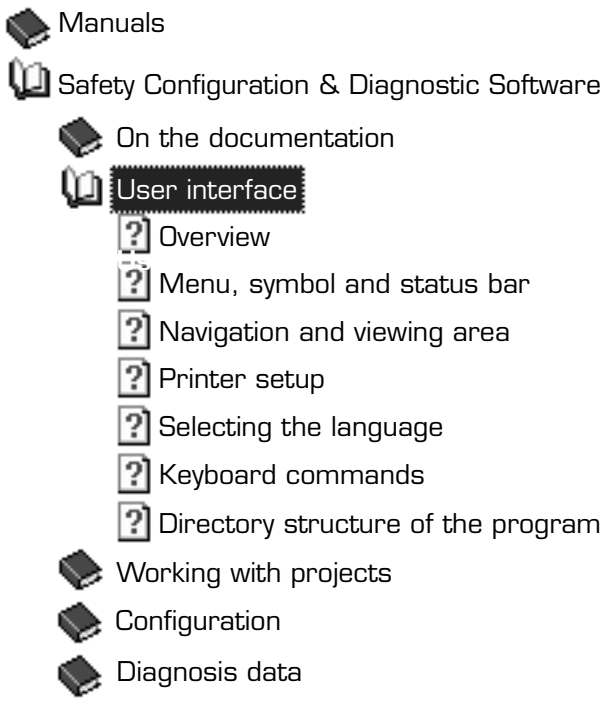


Figure 1: List of contents of the online help

The online help function can be opened separately using the command **Programs, Allen-Bradley Guardmaster Applications, Help on Allen-Bradley Guardmaster SCD** or in the SCD in the menu **?**. From one of the SCD dialog boxes, click the **Help** button in the dialog box or press the F1 key. The related description for the dialog box is then displayed automatically.

The descriptions in the online help explain the functions and relationships in the dialog boxes. Use the **Detailed instructions** button in the descriptions to go to the **step-by-step instructions** of the online help.

Figure 2: Detailed instructions button

If several sets of step-by-step instructions are available, the **Topics found** dialog box is opened. Choose there the required topic and click the **Display** button.

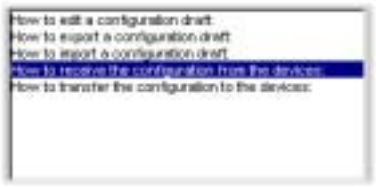


Figure 3: Topics found in dialog box

The **step-by-step instructions** describe the related procedure in detail.

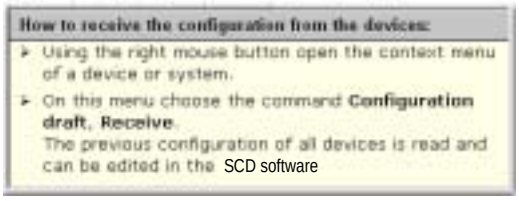


Figure 4: Example of step-by-step instructions

As the SCD is used for the **configuration** and diagnostics on a number of protective devices from Rockwell Automation, along with the basic description there are device-specific help subjects. From these basic descriptions you can open the device-specific help subjects using the **Device-specific subjects** link at the end of a dialog box description.

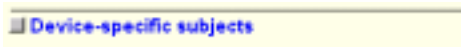


Figure 5: Device-specific subjects link

The **Contents** button in the dialog box descriptions and in the step-by-step instructions will **always** take you back to the list of contents.

Figure 6: Contents button

Once back in the **list of contents** and in the appropriate dialog box descriptions, you can also open the operating instructions for the desired protective devices.

To do so, you must have the related file in PDF format and Adobe Acrobat® Reader™ installed on your PC. If this is not the case, a warning is displayed.

How to Use this Document

After you have carefully read the above sections, please note the following notes on the document.

- If the software is as yet not installed, please read the chapter **Installation** in this user manual.
- If you are working with the software for the first time, please read the chapter **Product description**.
- If you are familiar with the software and want to configure devices, please read the chapter **Configuration**.
- If you are familiar with the software and want to perform diagnostics on devices, please read the chapter **Diagnostics**.

Installation of the Software

An installation wizard will guide you through the installation of the software. Before beginning the installation, close all other programmes.

The minimum system requirements for the operation of the SCD Software are:

- Standard Intel Pentium PC, 233 MHz, 64 MB RAM
- Spare hard disk space (SCD = 15 MB/documentation G 100 MB)
- Graphics resolution 800 × 600 pixels with High Color (16 bit)
- RS 232 serial interface that is not used by any other programs
- Operating system MS Windows 95/98/NT4.0/2000/XP
- A printer driver of your choice must be installed.

Note During the installation you can install Acrobat® Reader™. Using this program you can read the user manual for the SCD and the operating instructions for devices from Allen-Bradley Guardmaster Safety Systems.

How to install the SCD:

- Start your PC and place the installation CD in your CD-ROM drive. The installation wizard will start automatically. It allows you to open the documentation and to install the software.
- First enter the serial number for the SCD. You will find the number on the CD jacket with the installation CD.
- Then, go to the dialog box **Allen-Bradley Guardmaster SCD** and select **Install software, Allen-Bradley Guardmaster SCD** and click the **OK** button beside the selection.
- Follow the instructions in the installation wizard.
- During the installation of the SCD, choose the software components to be installed (i.e., SafeShield, SafeZone multizone) software that has already been installed with a previous version of the SCD are selected automatically and updated as necessary.
- If Windows does not start the installation wizard automatically: Click **Run...** in the **Start** menu. Enter the following command line in the **Open** field: [Drive letter for your CD-ROM drive]:\setup.exe. The **Serial number** dialog box will open.

Product Description

Devices from Allen-Bradley Guardmaster Safety Systems such as safety light curtains or safety laser scanners can be configured differently depending on the application and operating mode.

The SCD software has a graphic user interface which allows you to configure and diagnose devices supplied by Allen-Bradley Guardmaster Safety Systems. The parameters for a configuration are transferred to the devices and saved there.

Note The software is not suitable for the configuration and diagnostics of devices supplied by other manufacturers.

The devices in the SCD software are always displayed in so-called projects. The SCD software allows you to …

- Create a **new** project, configure the devices and later transfer the configuration to the devices. You can then save the project created.
- **Identify** devices connected to the PC and receive the existing configuration of the devices, and then transfer it back to the devices. In this way a new project is created in the SCD that you can save.
- **Open** a project saved previously and transfer the configuration to devices of the same type (with the same type code) and for the same application.

The configuration of the devices is password-protected, with the effect that only the members of the appropriate **user groups** will be able to transfer configurations to the devices.

You can also use the SCD software to perform diagnostics on connected devices (e.g. in the case of an error). The diagnostics data will be displayed on the monitor.

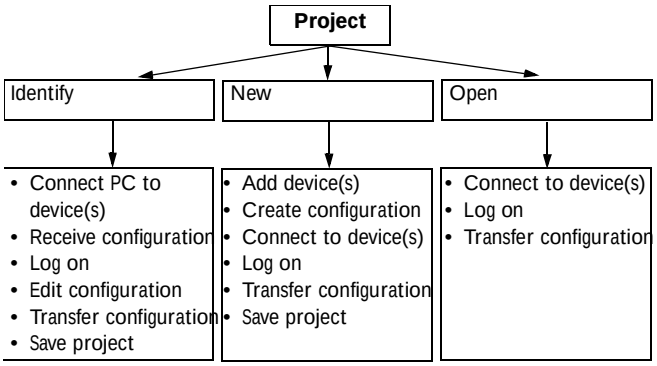


Figure 7: Typical procedure in the SCD

ATTENTION: **Test the devices for operational readiness!**

The software is unable to determine if a device is mounted operationally or not. Once you have successfully transferred the configuration drafts, check to see if the Allen-Bradley Guardmaster protective devices actually monitor your machine or system the way you intended.

In this case pay attention to the instructions on commissioning and for the daily check in the operating instructions for the related device!

All values have been computed by the PC on which the SCD runs. Allen-Bradley Guardmaster is therefore unable to warrant that no computer-specific computing errors will occur.

User Interface

How to Start the Software:

➢ Go to the Start menu and select the command **Programs**, **Allen-Bradley Guardmaster** Applications, **Allen-Bradley** Guardmaster SCD software. The Safety Configuration & Diagnostic Software will now be started.

Once the program has started, the screen is initially blank. Device combinations saved or identified will eventually be shown graphically in the user interface. These can then be used to configure or diagnose Allen-Bradley Guardmaster safety devices.

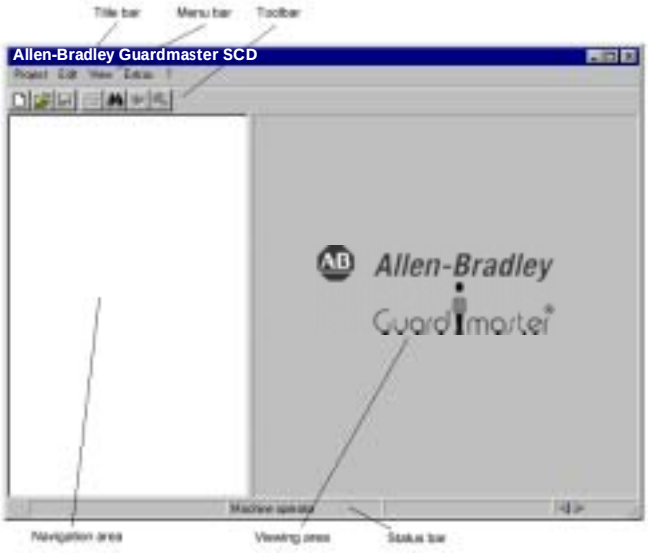


Figure 8: User Interface of the SCD software

The user interface includes title bar, menu bar, tool bar, the navigation area, the viewing area and the status bar.

How to close the software:

➢ On the **Project** menu choose the **Quit** command. The program window will be closed. If, at this point, you have not as yet saved the data of an open project, you will be prompted to do so.

Menu, Tool and Status Bars

The menu bar and the tool bar are found at the top of the software window. The menu bar includes the commands for the fundamental operation of the software, whereas the tool bar provides the most important commands in the shape of buttons. Moving over a button will open a brief information tag (tool tip) on the function of the button.

The status bar is at the bottom of the software window. There the following is displayed:

- The status of the program execution and progress if the action is protracted
- The user group to which you currently belong
- The name of the project or device in the navigation area
- Whether the SCD is connected to a device
- Whether the configuration has been verified

Figure 9: Status bar with symbols for "connected" and "configuration verified"

Figure 10: Status bar with symbols for "not connected" and "configuration not verified"

The tool bar and the status bar can be shown or hidden.

Navigation and Viewing Area

The navigation area shows the devices in a device cluster hierarchically in a project tree. This project tree consists of a project symbol and one or several device symbols.

In the navigation area you can open various commands using the context menus for the project or the devices.

Note If some commands are only displayed in grey, then the commands are currently not available (because the SCD, for example, is not connected to a device) or your access rights are inadequate.

The viewing area is located to the right of the navigation area and is initially blank. In the viewing area of the SCD...

- The diagnostics data is displayed when you have performed diagnostics.
- The configuration protocol is displayed when you have transferred a configuration to a device.
- The parameters for a device are displayed when you click one of the device parameter nodes.
- The configuration data currently in the SCD is displayed when you display the configuration draft for a device.

Note Only when it is indicated in the status line that the SCD is linked to the connected devices and that the configuration draft is verified, it is ensured that the data displayed for a parameter node or the configuration draft matches the data in the devices.

Figure 11: Status bar with symbols for "connected" and "configuration verified"

You can change the size ratio of navigation area and viewing area.

Keyboard Commands

The SCD allows you to execute frequently used functions via function keys or with key shortcuts.

Function Key or Shortcut	Description
Ctrl+N	Create new project
Ctrl+O	Open existing project
Ctrl+S	Save project
F1	Open the help utility
F3	Identify connected project

Function Key or Shortcut	Description
Shift+F3	Select communication connection
F4	Link connected project with open project
F6	Display properties of a project or device
F7	Open the context menu
F8	Change user group
Alt+F4	End SCD
Esc	Close dialog box without saving Cancel

Table 1: Function keys and key shortcuts

Directory Structure for the Program

To make it easier for you to navigate through created projects, device configurations, diagnostics reports, etc., the program creates a directory structure in the directory chosen during installation.

This directory structure consists of subdirectories for the individual types of files that you are allowed to save in the SCD:

- **Backup:** This directory holds the program files of an earlier version saved after an update. You must not save any other files in this directory!
- **Device-specific directories**: This directory includes subdirectories that are suggested as the directory when saving device-specific files, e.g. diagnostics report or configuration protocol.
- **Import-export:** SCD default for importing and/or exporting configuration drafts.
- **Projects:** SCD default for saving project files.
- **System:** This directory holds the system-specific SCD files. You must not save any other files in this directory!

Working with Projects

The devices which you configure, maintain or perform diagnostics with the SCD software are managed in projects and shown in a project tree.

Using the SCD software you can assemble projects offline, and then configure and save them. In this way, for example, for the initial configuration of Allen-Bradley Guardmaster protective devices for equipment, you can first plan the configuration on the screen and later transfer it to one or more (identical) devices. When the project is created, it is given a **name** that you can **change**. Add devices to the project tree of a new project.

A second way of creating a project is to have the SCD **identify** devices already wired up. In this way a project with all identified devices is displayed in the navigation area of the SCD.

The commands necessary to carry out the above-described functions are found in the **Project** menu. Please refer to the online help for a device-specific description and detailed instructions.

- During project identification, the software only identifies the type of devices connected. To ensure that you receive the configuration of the connected devices in the SCD, the software will prompt you to **receive the current configuration**. This is important as otherwise an “empty” configuration draft is displayed by the SCD, and not the configuration draft that was transferred to the device connected during earlier configuration.

Once the configuration has been received, you are prompted as to whether you want to **change to a different user group**. You can only later transfer a new or changed configuration draft if you change to the **Authorized client** user group.

IMPORTANT	Check identification of the devices! Check to make sure that all devices in the project have been correctly identified. Compare the devices connected with the data in the viewing area for the SCD.

You can **save** the projects in files and **open** them again later. Only one project at any one time can be opened in the SCD. If a project is open while opening or creating another project, the original project will be closed.

When you open an existing project or add a new project, then you should **connect** the devices displayed to the devices connected. By connecting you will be able to verify that the connected devices and the devices shown in the project tree have matching type code.

You can also compare a project saved and/or opened in the SCD with a saved **project file**.

In addition, you can open a list showing the **properties** of a project or of a single device.

How to connect the PC to a device from Allen-Bradley Guardmaster Safety Systems:

- Connect the 9-pin SubD plug of the connecting cable to a serial interface of your PC.

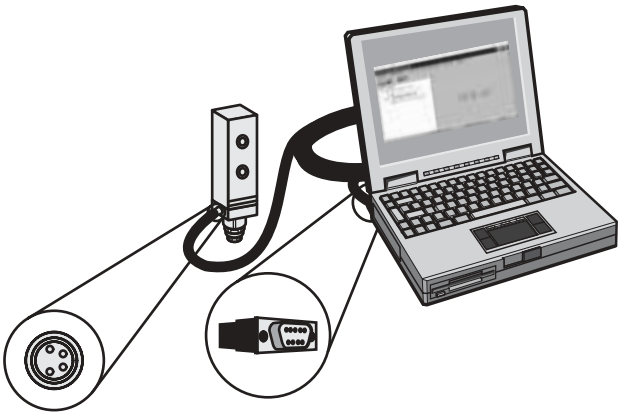


Figure 12: Connection of the PC e.g. to a device from Allen-Bradley Guardmaster Safety Systems

- Remove the protective cap on the configuration socket of the device supplied by Allen-Bradley Guardmaster Safety Systems.
- Connect the M 8 × 4 plug to the configuration socket of the device and/or the device cluster.

Note Ensure that the configuration cable is not laid in close proximity to high power electrical drives or cables carrying high power. In this way you will avoid EMC effects on the configuration cable.

Note When devices—consisting of senders and receivers—are involved, initially connect the receiver because it needs to be configured first.

The Project Tree

The project tree of the devices is shown in the navigation area.

The devices existing in the project tree can be displayed in the “active” or in the “passive” mode:

Example Symbols	Meaning
	**Active devices are shown in color.** Active means that the device has a complementary unit to which a connection has been made via the interface and that the complementary unit has been identified by the SCD.
	**Passive devices are shown in gray.** Passive means that there is at present no connection to this device, either because it is currently disconnected or because it could not be identified. This is important particularly in devices such as the SafeShield safety light curtain that consists of sender and receiver. As the PC with the SCD can be connected only to the sender or the receiver, the complementary unit is always shown in the passive mode.
	You can identify the device to which the PC is connected by the device symbol showing a PC.
	Unknown or unidentified devices are shown with a question mark.

Table 2: Meaning of the symbols

The device status is symbolized by the color of the lettering:

Font Color	Meaning
(Blue) [protective device]	Configured devices are shown with blue lettering.
(Red) [protective device]	Nonconfigured devices or devices in which a malfunction has occurred are shown with red lettering.
(Grey) [protective device]	Devices where the SCD is unable to identify their status (not connected, not identified) are shown with grey lettering.

Table 3: Meaning of the font colors

Changing Project Names

You can change the name of a project. When a project is saved, the SCD uses the project name as the default file name. For the project name, use names, for instance, with which you can allocate your projects to the machines or equipment that are protected.

Comparing with a Project File

You can also compare a project saved and/or opened in the SCD with a saved project file.

A dialog box will show the saved project on the left and on the right a comparison protocol.

In this dialog box you can **open** the project file compared with the open project.

Adding Devices

If you have created your own project in the SCD, you can also **add** one or several devices. The device selection wizard will assist you in this step.

The class of devices you can select there will depend on which device classes have been installed.

Added devices can be **deleted** again from the project.

IMPORTANT The commands necessary to carry out the above-described functions are found in the context menu of the project. Please refer to the online help for detailed instructions.

Properties

To check the type codes and the serial numbers of the devices, you can display the **properties** of a project and/or the properties of a single device. The list shows all type codes and the serial numbers of the devices.

Communication

The software communicates with the devices via a cable link. To make sure that the data communication between your PC and the connected devices functions properly, you must select a communication protocol.

IMPORTANT On the **Extras** menu of the SCD, you will find the **Communication connection...** command. Please refer to the online help for detailed instructions.

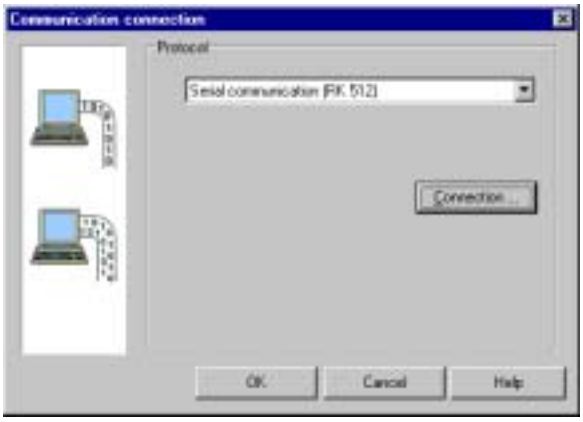


Figure 13: Selecting the communication protocol

- **For the other Allen-Bradley Guardmaster devices, choose the communication protocol Serial communication (RK 512).**

In addition, you must specify one COM port of your PC as the connection for the devices.

Also, from the connections available on your PC, select the one where the devices are connected.

Note The connection you select must not be used by any other peripheral (e.g. a mouse). If you do, the system will not function properly.

Configuration

Using the SCD you can configure the Allen-Bradley Guardmaster protective devices.

ATTENTION: Plan your configuration carefully!
The configuration of Allen-Bradley Guardmaster safety devices must be carried out with ultimate accuracy and must match the status and the condition of the machine or system to be monitored.
Incorrect configurations may result in injury or death.

Always begin by creating a new configuration draft in the SCD software or by **editing** a configuration draft received from the devices.

Generate or edit the configuration draft either with the help of the **configuration wizard** or in a **configuration dialog box with file cards**.

For the actual configuration of the devices supplied by Allen-Bradley Guardmaster Safety Systems, transfer the configuration draft to the connected devices. After sending the configuration draft, a **configuration protocol** will be displayed which you must first release before the configuration is enabled in the devices.

Note You can transfer the configuration draft to devices or a device system only if your PC is connected to the devices and if you are registered as user in the appropriate user group of the devices.

The configuration draft of a single device can also be **exported** and **imported** to other devices with the same type code.

Verified Configuration Draft

As soon as a configuration draft has been sent and released by an Authorized client, it is deemed to be **verified**. You can see this by a green tick or check in the status bar.

Figure 14: Status bar with checkmark for "configuration verified"

The project with the verified configuration draft can then be saved and later be sent also to other devices by the machine maintenance personnel.

Note When a project is opened the green check mark in the status line is only displayed after the SCD is linked to the related device.

If the open configuration draft is changed, a red cross appears in the status line. The configuration draft can no longer be transferred by machine maintenance personnel.

IMPORTANT The commands necessary to carry out the above-described functions are found in the context menus of the device symbols. Please refer to the online help for a device-specific description and detailed instructions.

File Cards or Assistant

You can create the configuration draft per device from Allen-Bradley Safety Systems either with the help of the **configuration wizard** or with the **file cards**.

- The configuration wizard will guide you step-by-step through the configuration, from the first to the last setting. You will find explanatory text on the individual configuration steps in the related dialog box.
- The file cards allow you specifically change one or several configuration parameters.

IMPORTANT Check the content of all file cards!
Unlike the configuration wizard, in the file card view you are not automatically guided through all configuration points.
For this reason check the content on all file cards to ensure that the configuration data matches your application.

Note The commands necessary to carry out the above-described functions are found in the menu **View**, **Dialog Box** menu

Note A system with several devices (for example a cascaded system) is in general configured in **one single** configuration wizard or **one single** dialog box with file cards. Several runs through the setting dialog boxes will be completed. Respectively the file cards will be repeatedly offered.

Figure 15: Dialog box for the configuration wizard based on the example of the SafeZone multizone

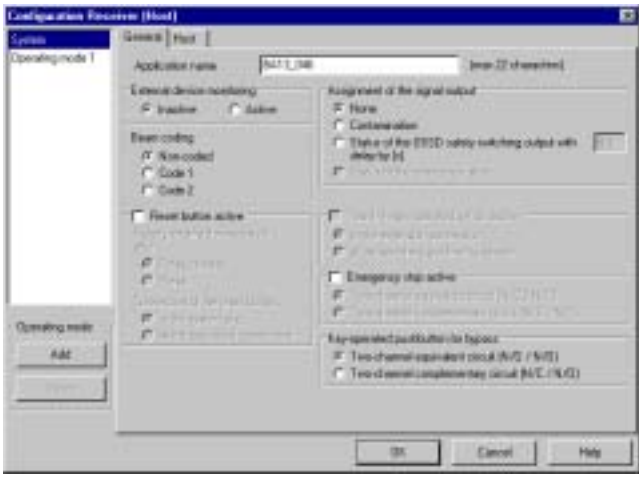


Figure 16: Dialog with file cards based on the example of the SafeShield

Configuration Protocol

As soon as the configuration protocol or the view containing the configuration draft is displayed, the standard menus in the software are hidden. Only the **Project** menu with the appropriate buttons will then be available. The navigation area of the SCD can no longer be used.

After the configuration data has been transferred to one or several devices, the configuration protocol will be shown automatically. During this process the actual data is read out from the device and displayed.

If the data read does not match the data in the configuration draft, it will be shown in black. If the data read out differs from that in the configuration draft, it will be shown in red. In this case the configuration protocol cannot be released.

You can **print** and **save** the configuration protocol. You can also insert a **comment** via an additional dialog box. This comment will also be printed and saved.

IMPORTANT	Carefully check the configuration protocol! Carefully check to make sure that the configuration data displayed comply with those you actually wanted to enter. Check for typing and transfer errors! Once you have successfully transferred the configuration, the machine or equipment must be checked and released by specialist personnel.

Note The new configuration will be activated on the device only after release. If you **reject** the configuration, then the device or device cluster receives an invalid configuration.

The commands necessary to carry out the above-described functions are found in the **Project** menu and in the **context menus** of the devices.

- Carefully check each individual item of the configuration protocol.
- Some configuration protocols for devices have several pages. In this case page to the previous/following pages using the buttons at the bottom of the scroll bar or using the Page up/Page down keys.

Figure 17: Buttons for paging through the configuration protocol

- Also carefully check the following pages of the configuration protocol. The **Acknowledge** button only becomes available when you have paged through to the last page of the configuration protocol.
- Click the **Acknowledge** button. The configuration data will be loaded to the device/devices and initialized with the new configuration.
  If the loading has been successful, an appropriate message will appear.
- Click the **OK** button. The configuration loaded to the device/ devices is now active.
- Test whether the device(s) monitor the machine or equipment as you expect. Only after completing this step, go to real-time operation.

User Groups

There are various user groups in the devices from Allen-Bradley Guardmaster Safety Systems. These user groups have different authorizations, e.g. for transferring configurations to the devices or to perform diagnostics on the devices.

If the devices in a project have been identified by the SCD software, or the SCD is linked to the devices for a project, you can change to these user groups. When the SCD is started, you will automatically

belong to the user group Machine operator. To be able to send configurations, log in with the device or the device system as Machine maintenance personnel or as Authorized client, using the appropriate project password.

The factory-set password ABGM has been entered for the user group Authorized client.

Note If a device cluster has been assembled using devices which have already been configured, the individual devices may have different passwords. In this case you will be asked for your password separately for each device.
Once you have entered the correct passwords for all devices, the password for the first device will be assigned to all devices.

ATTENTION: **Change the Machine operator user group!**

If you leave the PC unattended when it is connected to devices, you must change to the Machine operator user group in order that no unauthorized persons can transfer configurations to the devices!

Change Project Password

The user group Authorized client can enter/change the passwords for the user groups Machine maintenance personnel and Authorized client. The passwords will be saved in the devices. This allows the devices to be protected from being configured by unauthorized persons.

Reset Password

If you have forgotten the password for a device, you can reset the password. To do so, you need what is called a reset password. You will get this password once you have identified yourself in writing to the manufacturer.

For this purpose use the form Faxform.pdf on the SCD CD-ROM. For the identification you will need the serial number of the device and the number of the device counter (Device-counter-nr.). Both numbers can be found in the **Reset password** dialog box.

Note When you reset the password for a device, it is configured as on delivery! For operation to be possible you must re-edit the configuration as delivered, or transfer a suitable previously saved and verified configuration to the device.

Diagnosis Data

With the aid of the SCD you can perform diagnostics on devices connected and linked to the SCD (or identified by the SCD). To do so, load the diagnostics data to the viewing area of the monitor.

As soon as the diagnostics data is displayed, the standard menus of the software will disappear. Then only the **Project** menu and the related buttons are available. The navigation area of the SCD can no longer be used.

You can **print** and **save** the diagnostics data. You can also insert a **comment** via an additional dialog box. This comment will also be printed and saved.

The commands necessary to carry out the above-described functions are found in the context menu of the devices under **Diagnostics**. Please refer to the online help for a specific description and detailed instructions.

Comments

You can add comments to the reports displayed in the viewing area of the SCD. These comments are also printed with the appropriate report and saved.

Allen-Bradley

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