

Security Scanner App

Inventory of Components Version 3

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DOK-XCORE*-SSC***V03**-AP02-EN-P

DC-AE/PAX (TaDo/MePe)

Table of contents

1	About this documentation	4
2	Important directions on use	4
2.1	Intended use	4
2.1.1	Introduction	4
2.1.2	Areas of use and application	4
2.2	Unintended use	5
3	Safety instructions	5
4	Introduction and overview	6
5	Installation	6
6	Operating principle and use	7
6.1	Preparation	7
6.2	Creating a new scan job	7
6.3	Scan job list items and actions	9
6.4	Editing scan job	9
6.4.1	Host Discovery Scan	9
6.4.2	Port Scan	14
6.4.3	Custom Scan	16
6.5	Executing scan jobs	16
6.6	Retrieving scan results	16
7	Related documentation	20
7.1	Overview	20
7.2	ctrlX AUTOMATION	20
7.3	ctrlX WORKS	21
7.4	ctrlX OS	22
7.5	ctrlX OS Apps	22
8	Service and support	27
9	Index	29

1 About this documentation

Editions of this documentation

Edition	Release date	Note
01	2025-01	Security Scanner app version 3.2, 3.4
02	2025-05	Security Scanner app version 3.6 Revision: <ul style="list-style-type: none"> • → Chapter 6.4.1 Host Discovery Scan on page 9 • → Chapter 6.4.2 Port Scan on page 14

2 Important directions on use

2.1 Intended use

2.1.1 Introduction

Rexroth products are developed and manufactured to the state-of-the-art.

The products are tested prior to delivery to ensure operational safety and reliability.

▲ WARNING	<p>Personal injury and damage to property due to incorrect use of products!</p> <p>The products may only be used as intended.</p> <p>Failure to use the products as intended may cause situations resulting in property damage and personal injury.</p>
NOTICE	<p>Damages resulting from unintended use</p> <p>Rexroth As the manufacturer does not assume any warranty, liability or compensatory claims for damages resulting from unintended use of the products. The user alone shall bear the risks of an unintended use of the products.</p> <p>Before using Rexroth products, make sure that all the prerequisites for an intended use of the products are met:</p> <ul style="list-style-type: none"> – Personnel that in any way, shape or form uses Rexroth products must first read and understand the relevant safety instructions and be familiar with their intended use – Leave hardware products in their original state, i.e., do not make any structural modifications. It is not permitted to decompile software products or alter source codes – Do not install damaged or defective products or commission them – It has to be ensured that the products have been installed as described in the relevant documentation

2.1.2 Areas of use and application

Products of the ctrlX series are suitable for Motion/Logic applications.

NOTICE

Products of the ctrlX series may only be used with the accessories, mounting parts, and other components specified in this documentation. Components that are not expressly mentioned must neither be attached nor connected. The same applies to cables and lines.

Only to be operated with the hardware component configurations and combinations expressly specified and with the software and firmware specified in the corresponding documentations and functional descriptions.

Products of the ctrlX series are suitable for single-axis as well as for multi-axis drive and control tasks. Device types with different equipment and interfaces are available for using the system in specific applications.

Typical areas of application:

- Building automation
- IoT and Security Gateway or Device
- Handling & Robotic

Controls of the ctrlX CORE series may only be operated under the mounting and installation conditions, in the position of normal use and under the ambient conditions (temperature, degree of protection, humidity, EMC, etc.) specified in the related documentations.

2.2 Unintended use

"Unintended use" refers to using the ctrlX products outside of the above-mentioned areas of application or under operating conditions and technical data other than described and specified in the documentation.

ctrlX products must not be used if they are exposed to following conditions:

- Operating conditions that do not meet the specified ambient conditions. Operation under water, under extreme temperature fluctuations or under extreme maximum temperatures is prohibited
- Applications that have not been expressly authorized by Rexroth

3 Safety instructions

The Safety instructions contained in the available application documentation feature specific signal words (DANGER, WARNING, CAUTION or NOTICE) and, where required, a safety alert symbol (in accordance with ANSI Z535.6-2006).

The signal word is meant to draw the reader's attention to the safety instruction and identifies the hazard severity.

The safety alert symbol (a triangle with an exclamation point), which precedes the signal words DANGER, WARNING and CAUTION, is used to alert the reader to personal injury hazards.

The Safety instructions in this documentation are designed as follows:

▲ DANGER	In case of non-compliance with this safety instruction, death or serious injury will occur.
▲ WARNING	In case of non-compliance with this safety instruction, death or serious injury could occur.
▲ CAUTION	In case of non-compliance with this safety instruction, minor or moderate injury could occur.
NOTICE	In case of non-compliance with this safety instruction, property damage could occur.

4 Introduction and overview

The Security Scanner app scans connected OT components and checks whether the machine network corresponds to the required state. Scanning the network is particularly helpful during the acceptance of machines and is already mandatorily specified by many machine operators (see Bosch N51M M27 – Delivery specifications for IT security of machines). The Security Scanner app simplifies the configuration of network scans with a user-friendly interface and prepares the scan results in an audit-proof format.

The following scan types are available:

- [↔ Host Discovery Scan](#)
Detecting active network components (via IP and MAC address scan) and comparing them to expected network components.
Determining the operating system of a host
- [↔ Port Scan](#)
Detecting open ports (TCP/UDP) of active network components by scanning a single target address, a subnet or an IP range and comparing it to the expected or permitted port configuration.
- [↔ Custom Scan](#)
Defining a specific scan via the NMAP command line (see [↔ https://nmap.org/](https://nmap.org/) for more information).

5 Installation

To install the Security Scanner app, the default installation mechanisms of the ctrlX OS are used.

The Security Scanner app can be used on the following devices:

- ctrlX CORE X3
- ctrlX CORE X7

License

To operate the Security Scanner app on the ctrlX CORE device, the following license is required:

Type code	Part number
SWL-XC*-SSC-SECURITY* SCN*-Y1NN	R911422403

Further information

- "ctrlX OS Operating System for ctrlX CORE Control Devices xxVRS", Application Manual, chapter [↔ Licenses – Overview](#)
- "ctrlX OS Operating System for ctrlX CORE Control Devices xxVRS", Application Manual, chapter [↔ ctrlX OS – License information](#)

Installation

ctrlX OS side navigation *"Settings → Apps"*

For more information on how to install the app, refer to the following chapters:

- "ctrlX OS Operating System for ctrlX CORE Control Devices xxVRS", Application Manual, chapter [↔ Apps - Basics](#)

Call:

ctrlX OS side navigation *"Security Scanner"*

ctrlX OS side navigation *"Settings → Security Scanner"*

6 Operating principle and use

6.1 Preparation

Connect the network components to be scanned and ensure that the ctrlX CORE device can reach them (with installed Security Scanner app).

Configure the interface of the ctrlX CORE device as required for the subnet of the machine. It is recommended to separate the configuration interface and the scanning interface as shown.

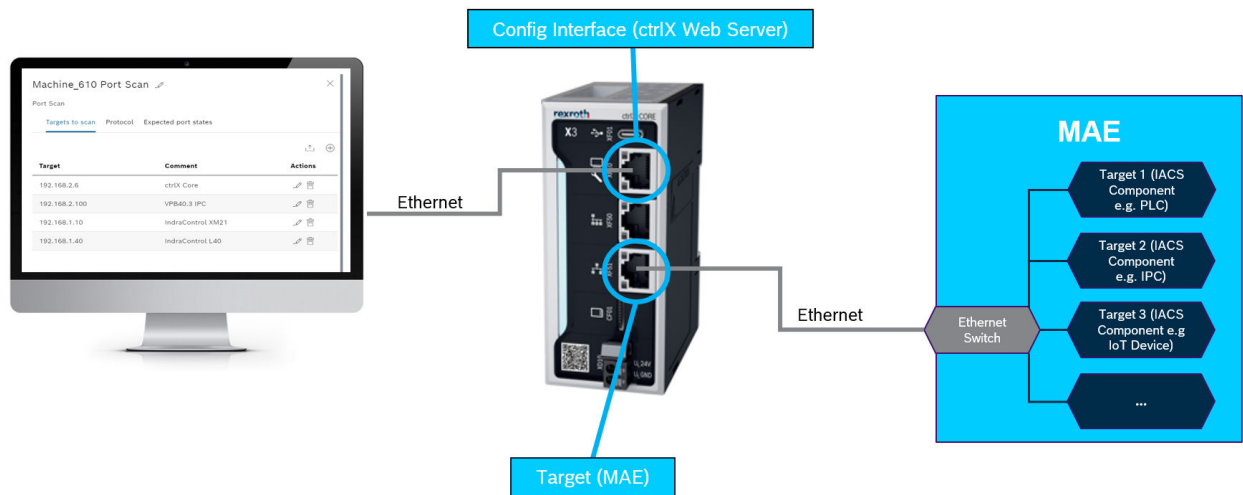
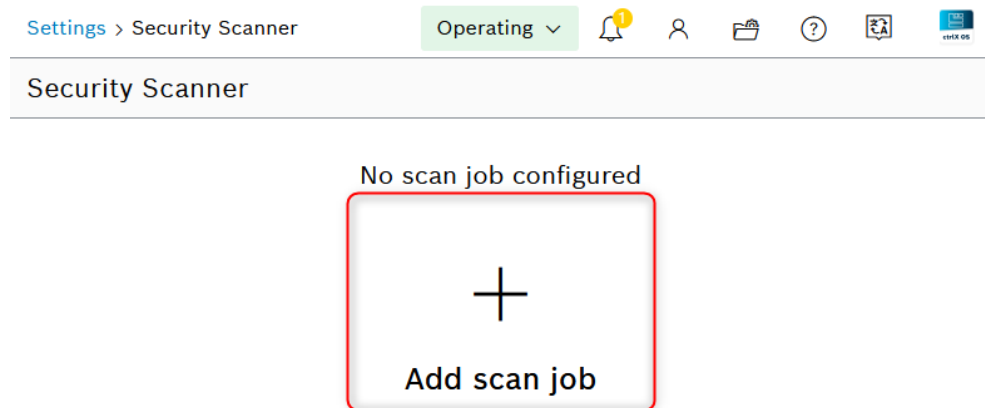


Fig. 1: Exemplary wiring of the ctrlX CORE device

6.2 Creating a new scan job

1. If there is no scan job, select the “Add scan job” button to create a new scan job.
➔

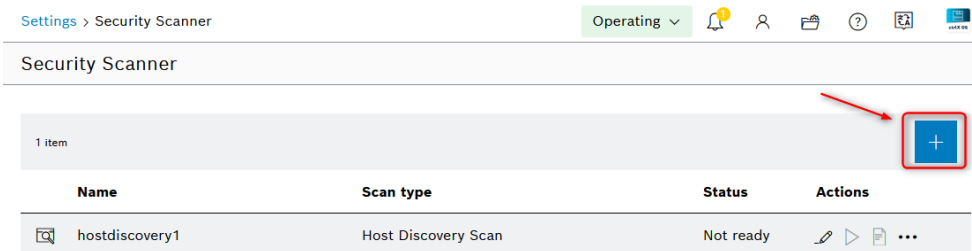


The security scanner app allows to “inventory” the components inside a machine by scanning its network for active hosts. Additionally it can evaluate the current security state of the found components (e.g. ports, services) and compare it against given policies. The app provides all the tools which are required for this task.

Fig. 2: “Add scan job” button

2. Alternative:

If scan jobs already exist, select the **+** button in the command bar to create new scan jobs.


 Fig. 3: **+** button

3. Select the **+** button and a dialog appears to specify name and scan type or the template selected for the new scan job.


Add a new scan job ✕

- Host Discovery Scan**
 Scan subnets for active hosts
- Port Scan**
 Scan hosts or subnets for open ports
- Custom Scan**
 Define a specific scan using the NMAP command line
- From template**
 Create scan job from template

↑

Add
Cancel

Fig. 4: “Add a new scan job” dialog

4. Select the “Add” button to complete the new scan job creation. The scan job is then displayed in the scan job list (see Fig. 5).


The scan type can no longer be changed after the scan job has been created.

Scan jobs can be created from templates of downloaded, already configured scan jobs of various types.

Scan jobs downloaded as templates are saved in JSON format.

6.3 Scan job list items and actions

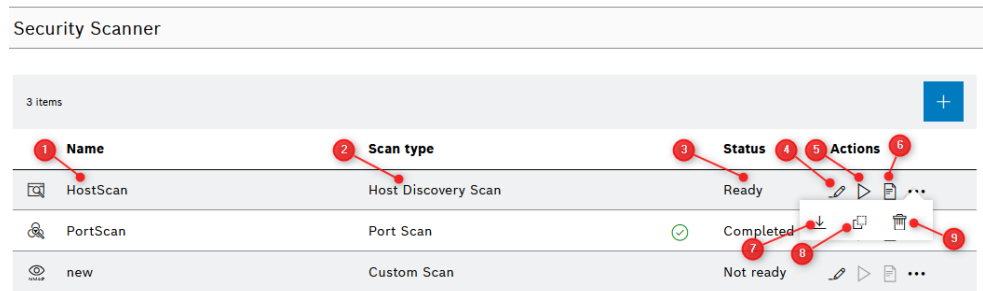


Fig. 5: Scan job list items and actions

- (1) Name of the scan job
- (2) Selected scan type: "Host Discovery Scan", "Port Scan", "Custom Scan"
- (3) Scan job status: "Not ready", "Ready", "Completed", "Failed"
- (4) Editing scan job: Setting up/configuring scan job
- (5) Starting scan job
- (6) Showing scan results
- (7) Downloading scan job as template
- (8) Duplicating scan job: A copy of the scan job is created with identical configuration
- (9) Deleting scan job: Scan job is irrevocably deleted

6.4 Editing scan job

The "Edit scan job" action (✎) can be used to configure the respective scan job. Once a scan job is fully configured, the status changes from "Not ready" to "Ready" and the scan job can be started.

Scan jobs can simply be duplicated (📄) and then edited further or downloaded as template on the engineering PC and loaded to a Security Scanner app.

6.4.1 Host Discovery Scan

The network interface to be scanned by the Security Scanner can be selected automatically by the app or permanently set to XF10 or XF51.

Optionally, the option "Detect operating system" (3) can be enabled for the Host Discovery Scan (see Fig. 6). If this option is enabled, the scanning speed is significantly reduced.

"Targets to be scanned" tab

In the "Targets to be scanned" tab of the configuration dialog (Fig. 6), the network to be scanned is set. The targets to be scanned can either be imported in .csv format via the import function (📄) (1) (one line per target, separators for the comment is " | ") or added manually via (+) (2).



Scanjob1

Host Discovery Scan

Network interface to be scanned
Select automatically

Detect operating system

Targets to be scanned

Targets to exclude

Expected hosts



Target

Comment

Actions

No targets specified

To add a target, click ⊕

To load targets from a file, click

The targets specified above will be scanned for active hosts

Save

Cancel

Fig. 6: "Targets to be scanned" tab
The target can be specified in the editor via the subnet to be scanned or the IP range.

Add target

Enter a subnet or a range of IPs

Target* Comment

Target examples:



Subnet 192.168.178.0/24

IP range 192.168.178.20-40

Add Cancel

Fig. 7: "Add target" dialog

"Targets to exclude" tab

In the "Targets to exclude" tab of the configuration dialog (Fig. 8), the targets to be excluded from the Host Discovery Scan can be specified. The targets can be specified via subnet or IP range. The import function  or manual input via  is also available here.

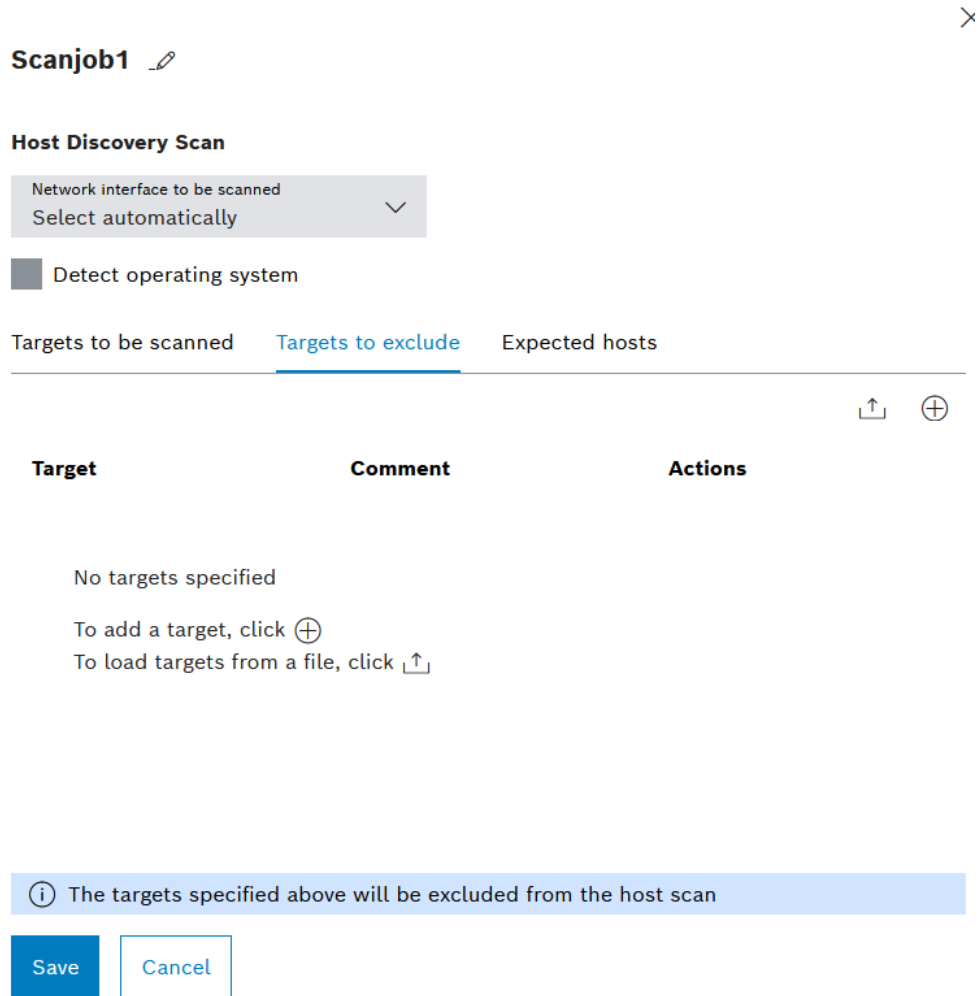


Fig. 8: "Targets to exclude" tab


"Expected hosts" tab

In the "Expected hosts" tab of the configuration dialog (Fig. 9), expected hosts can be specified (Fig. 10). The host can be specified via its IP address or MAC address. The import function ↕ or manual input via ⊕ is also available here. The Security Scanner app compares the expected hosts to the network devices found after a scan and analyzes the result. The drop-down menu (2) is used to select how hosts that are identified, but not expected, are to be analyzed.






HostScan2


Host Discovery Scan

Network interface to be scanned
Select automatically 

Detect operating system

Targets to be scanned Targets to exclude **Expected hosts** 

Host	Comment	Actions
No hosts specified		
To add a host, click  To load hosts from a file, click 		

Mark all other detected hosts in report as 

- Passed
- Failed

against the hosts specified above. Matches will be marked as passed within the report and deviations will be marked as failed.

Operating principle and use

Fig. 9: "Expected hosts" tab

Add host



Enter a IP address or a MAC address

Host*	Comment
-------	---------

Host examples:

IP address	192.168.178.0
MAC address	00:80:41:ae:fd:7e

Add	Cancel
-----	--------

Fig. 10: "Add host" dialog

6.4.2 Port Scan

The network interface to be scanned by the Security Scanner can be selected automatically by the app or permanently set to XF10 or XF51.



Optionally, the option "Intense scan" (1) can be enabled for the Port Scan (see Fig. 11). If this option is enabled, the service running on the port is determined (see <https://nmap.org/book/man-version-de> → [tection.html](#) for more information). Enabling the option significantly reduces the scanning speed.

"Targets to be scanned" tab

Similar to the Host Discovery Scan, the target network is defined in the "Targets to be scanned" tab of the configuration dialog for the Port Scan. However, entire networks do not have to be selected for the Port Scan. Individual hosts can also be defined.

"Targets to exclude" tab

In the "Targets to exclude" tab of the configuration dialog for the Port Scan, the targets to be excluded from the Port can be specified.

The targets can be specified via subnet or IP range. The import function  or manual input via  is also available here.

"Protocol" tab

In the "Protocol" tab of the configuration dialog for the Port Scan, the protocol to be checked is defined (see Fig. 11).

It can be selected between the following protocols:

- TCP
- UDP
- TCP + UDP



Selecting a UDP scan can extend the execution time of the scan to multiple hours per host.

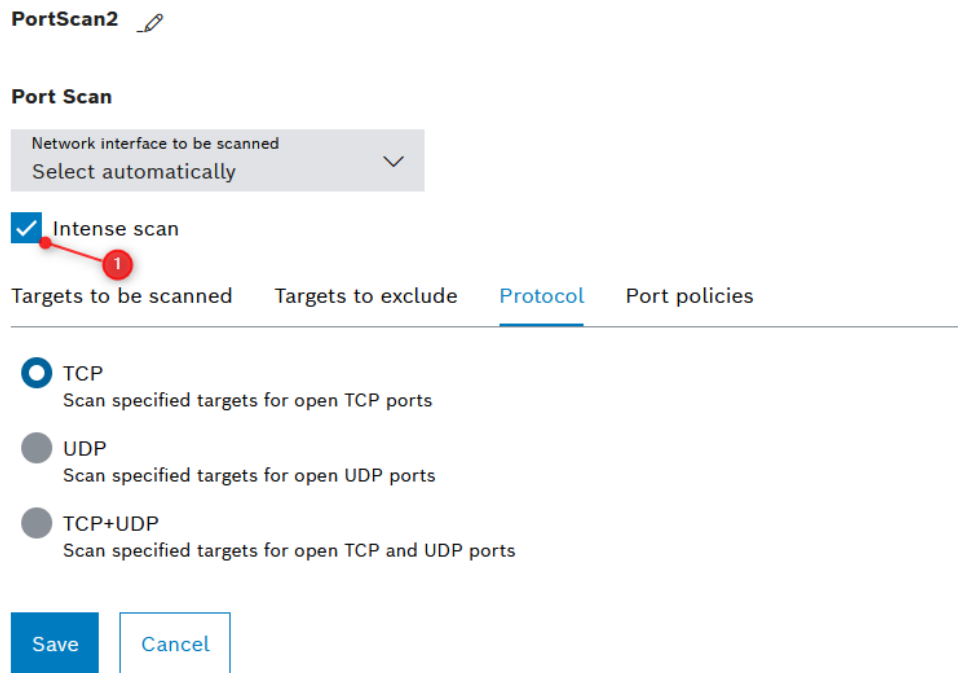




Fig. 11: "Port Scan" sidebar

"Port policies" tab

Expected port statuses can be specified (1) in the "Port policies" tab of the configuration dialog (refer to Fig. 12). The import function  or manual input via  is also available here. The Security Scanner app compares the detected port statuses (open or closed ports) with the statuses expected in the port policy after a scan and analyzes the result. In the drop-down menu (2) in the editor of the "Port policies", it can be selected how detected, open ports that have not been defined in the list of expected port statuses should be analyzed.

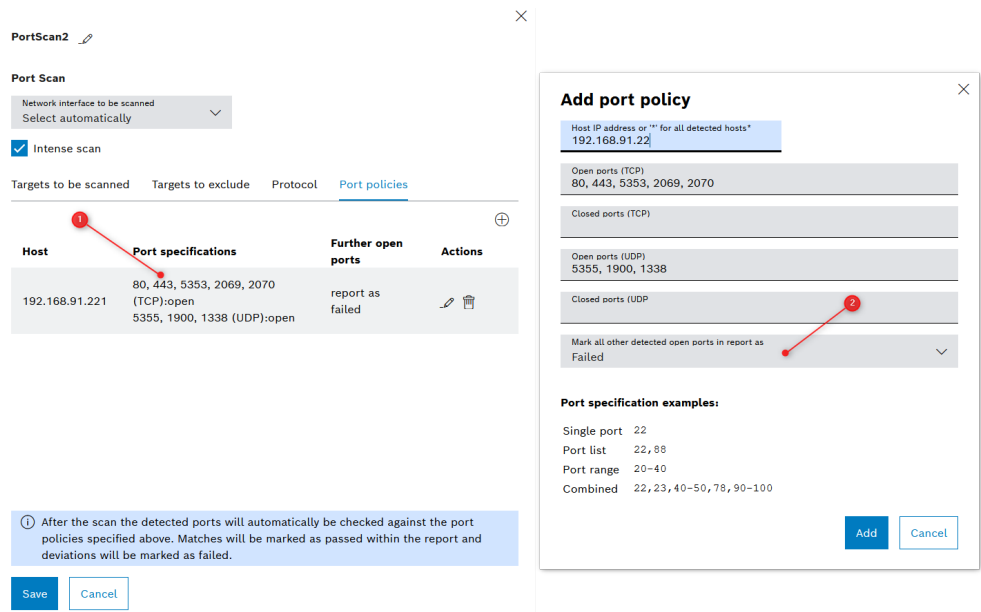


Fig. 12: "Port policies" tab

6.4.3 Custom Scan

The Custom Scan allows to define a scan via the NMAP command line (see <https://nmap.org/> for more information).

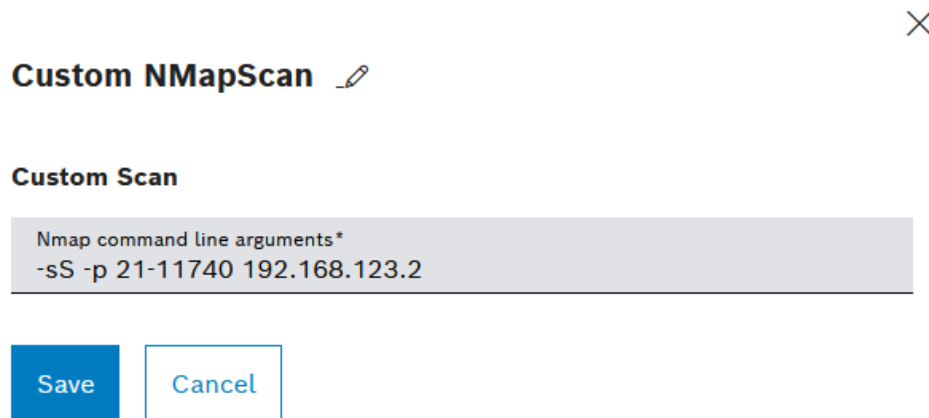


Fig. 13: “Custom Scan” sidebar

6.5 Executing scan jobs

After a successful scan job configuration, the scan job can be started using the button . When the button is pressed, a warning window is displayed, indicating that a network scan should only be started if the machine or the end devices are in a safe state and permission to perform the scan has been granted, as the scan might have a negative impact on the network devices (see Fig. 14).

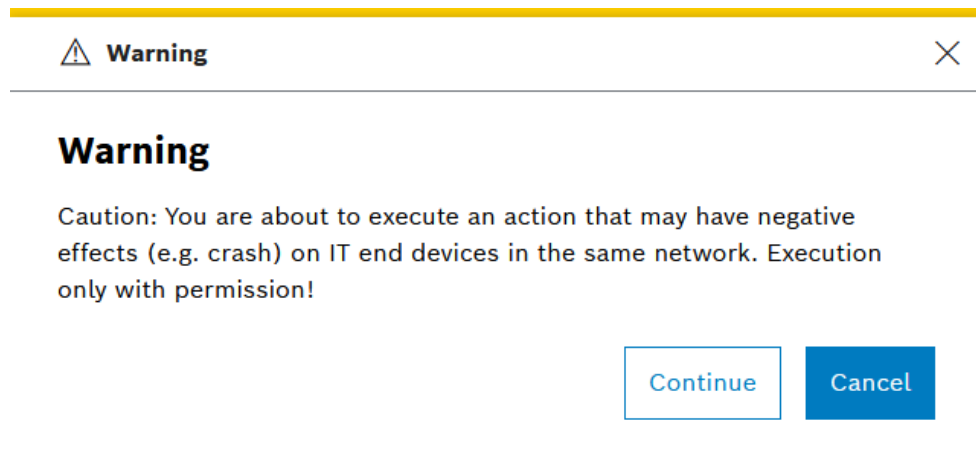


Fig. 14: Warning when executing scan jobs

When the scan is complete, the status “Completed” is signaled.

6.6 Retrieving scan results

After at least one scan run of a scan job has been completed successfully, the scan results can be retrieved via the button (Fig. 15).

The result list shows the start date, the execution time and the status of the scan runs.

The scan result can be downloaded () or deleted () using the action buttons. If the scan result is downloaded, it is provided as zip archive containing the scan result in PDF format and in JSON format.

	Start (UTC)	Duration	Status	Actions
✔	2025-01-09T14:25:34Z	110s	Completed	↓ 🗑️
✔	2025-01-09T14:50:10Z	17s	Completed	↓ 🗑️

Fig. 15: Result list of the scan job

Fig. 16 shows an exemplary PDF report of a host discovery scan, Fig. 17 shows an exemplary PDF report of a port scan.

The PDF report contains all important details on the scan configuration in the “Scan Information” section:

- Name
- Type
- Start time
- Execution time
- Scan parameters of scan job

The “Scan Findings” section lists all information found for the network components and classifies the result in the “Result” column as FAILED or PASSED.

The total result is indicated with “Total Result” at the end of the report.

Security Scanner Report

Scan Information

Name: Host Scan 1
Type: Host Discovery Scan
Start Time: 2024-05-03T10:04:12+02:00
Duration: 14 Seconds
Nmap Arguments: -O 192.168.91.0/24

Scan Findings

Ip Address	MAC Address	Vendor	OS	Comment	State	Expected	Result
192.168.91.1	00:50:B6:8A:A6:4B	Good WAY IND.		Engineering PC	UP	UP	PASSED
192.168.91.217	00:60:34:1A:CA:19	Robert Bosch Gmbh	Linux 4.15 - 5.6		UP	DOWN	FAILED
192.168.91.218			Linux 2.6.32	X3	UP	UP	PASSED
192.168.91.220	00:60:34:8D:6D:54	Robert Bosch Gmbh	Linux 4.15 - 5.6	X3 plus	UP	UP	PASSED
192.168.91.221	00:60:34:92:4A:98	Robert Bosch Gmbh	Linux 4.15 - 5.6	X3 LTS	UP	UP	PASSED

Total Result: FAILED

Fig. 16: Sample PDF report of a host discovery scan

Security Scanner Report

Scan Information

Name: FT_PortScan_TCP
Type: Port Scan
Start Time: 2024-07-04T15:25:35+02:00
Duration: 38 Seconds
Nmap Arguments: -O -p 1-65535 -sS --defeat-rst-ratelimit -sV 192.168.91.221

Scan Findings

Host: 192.168.91.221

IP Address: 192.168.91.221
MAC Address: 00:80:34:92:4A:98
Vendor: Robert Bosch GmbH
OS: Linux 4.15 - 5.19
Comment: Its core
State: UP

Port	Protocol	Service	Version	State	Expected state	Result
22	tcp	ssh	OpenSSH 8.2p1 Ubuntu 4ubuntu0.5 Ubuntu Linux; protocol 2.0	open	closed	FAILED
80	tcp	http	Caddy httpd	open	open	PASSED
443	tcp	http	Caddy httpd	open	open	PASSED
2069	tcp	zntp	ZeroMQ ZMTP 2.0	open	open	PASSED
2070	tcp	zntp	ZeroMQ ZMTP 2.0	open	open	PASSED
33459	tcp	http	Golang net/http server	open	open	PASSED
34737	tcp	http	Golang net/http server	open	open	PASSED
44403	tcp	http	Golang net/http server	open	open	PASSED
46555	tcp	http	Golang net/http server	open	open	PASSED

Total Result: PASSED

Operating principle and use

Fig. 17: Sample PDF report of a port scan

7 Related documentation

7.1 Overview

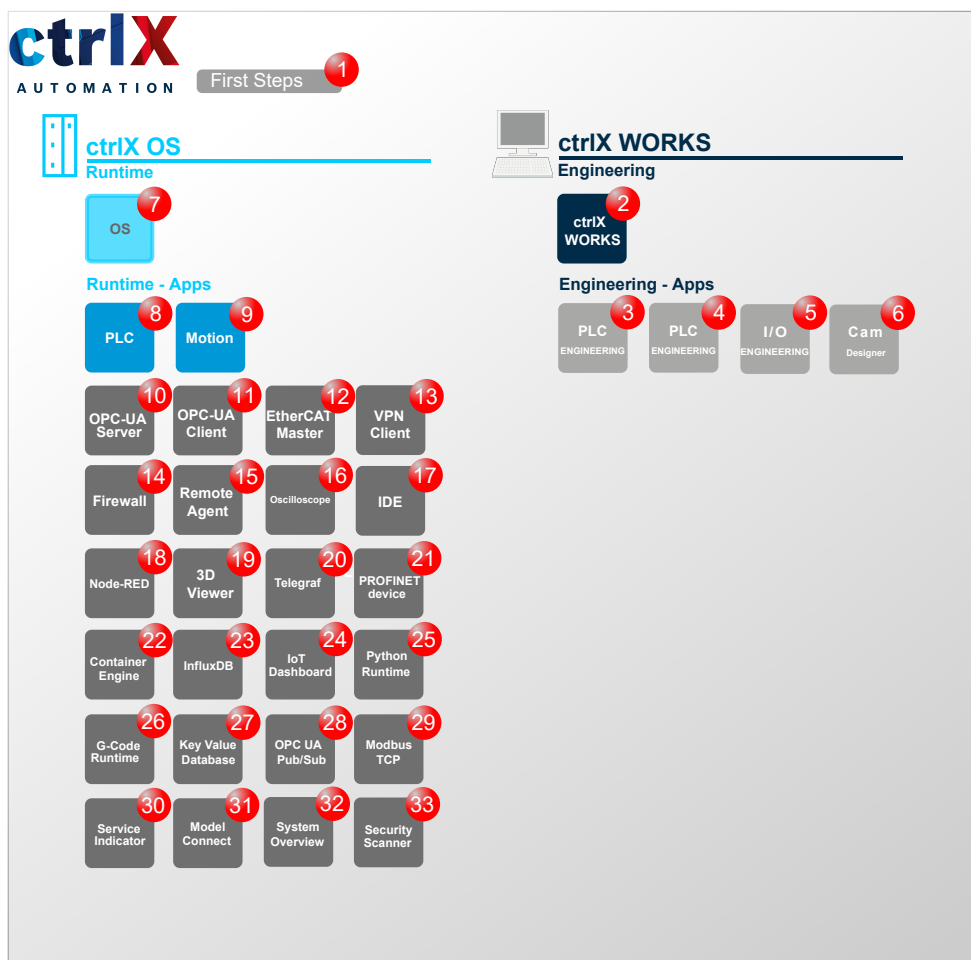


Fig. 18: Overview of the related documentation

7.2 ctrlX AUTOMATION

No.	Documentation
1	<p>ctrlX WORKS - First Steps</p> <p>Quick Start Guide</p> <p>↔ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> • DOK-XWORKS-F*STEP*****-QU01-EN-P • R911403760

7.3 ctrlX WORKS

No.	Documentation
2	ctrlX WORKS - Basic System Version 3 Application manual ↗ Link to the web documentation Ordering information: <ul style="list-style-type: none">• DOK-XWORKS-WRK***V03**-APRS-EN-P• R911423376
3	ctrlX PLC Engineering - PLC Programming System Version 3 Application manual ↗ Link to the web documentation Ordering information: <ul style="list-style-type: none">• DOK-XPLC**-PLE***V03**-APRS-EN-P• R911423378
4	ctrlX PLC Engineering - PLC Libraries Version 3 Reference ↗ Link to the web documentation Ordering information: <ul style="list-style-type: none">• DOK-XPLC**-LIB***V03**-RERS-EN-P• R911423456
5	ctrlX I/O Engineering - Field Bus Configuration for ctrlX OS Version 3 Application manual ↗ Link to the web documentation Ordering information: <ul style="list-style-type: none">• DOK-XIO***-IOE***V03**-APRS-EN-P• R911423380
6	ctrlX Cam Designer - Configuring the ctrlX MOTION Cams Version 3 Application manual ↗ Link to the web documentation Ordering information: <ul style="list-style-type: none">• DOK-XWORKS-CAM***V03**-APRS-EN-P• R911427217

7.4 ctrlX OS

No.	Documentation
7	ctrlX OS - Operating System for ctrlX CORE Control Devices Version 3 Application manual ↪ Link to the web documentation Ordering information: <ul style="list-style-type: none"> • DOK-XCORE*-XCR***V03**-APRS-EN-P • R911423382
	ctrlX OS - Nodes of the Data Layer Version 3 Reference ↪ Link to the web documentation Ordering information: <ul style="list-style-type: none"> • DOK-XCORE*-DL****V03**-RERS-EN-P • R911423384
	ctrlX OS - Diagnostics Version 3 Reference ↪ Link to the web documentation Ordering information: <ul style="list-style-type: none"> • DOK-XCORE*-DIAG**V03**-RERS-EN-P • R911423386

7.5 ctrlX OS Apps

No.	Documentation
8	PLC App - PLC Runtime Environment for ctrlX OS Version 3 Application manual ↪ Link to the web documentation Ordering information: <ul style="list-style-type: none"> • DOK-XCORE*-PLC***V03**-APRS-EN-P • R911423401
9	Motion App - Motion Runtime Environment for ctrlX CORE Version 3 Application manual ↪ Link to the web documentation Ordering information: <ul style="list-style-type: none"> • DOK-XCORE*-MOT***V03**-APRS-EN-P • R911423405
10	OPC UA Server App - OPC UA Server for ctrlX OS Version 3 Application manual ↪ Link to the web documentation Ordering information: <ul style="list-style-type: none"> • DOK-XCORE*-UAS***V03**-APRS-EN-P • R911423392

No.	Documentation
11	<p>OPC UA Client App - OPC UA Client for ctrlX OS Version 3</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-UAC***V03**-APRS-EN-P ● R911423390
12	<p>EtherCAT Master App - EtherCAT Master for ctrlX OS Version 3</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-ECM***V03**-APRS-EN-P ● R911423394
13	<p>VPN Client App - Remote Maintenance Software for ctrlX OS Version 3</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-VPN***V03**-APRS-EN-P ● R911423388
14	<p>Firewall App - Security Functions for ctrlX OS Version 3</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-FRW***V03**-APRS-EN-P ● R911423397
15	<p>Remote Agent App - ctrlX Device Portal Connection for ctrlX OS Devices Version 3</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-RMA***V03**-APRS-EN-P ● R911423399
16	<p>Oscilloscope App - Oscilloscope Function for ctrlX OS Devices Version 3</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-OSC***V03**-APRS-EN-P ● R911423407
17	<p>IDE App - Integrated Development Environment Version 2</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-IEN***V02**-APRS-EN-P ● R911421612

No.	Documentation
18	<p>Node-RED App - Graphical Programming for ctrlX OS Version 3</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-RED***V03**-APRS-EN-P ● R911423403
19	<p>3D Viewer App - Browser-based 3D Kinematics Simulation for ctrlX OS Version 3</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-3DV***V03**-APRS-EN-P ● R911423411
20	<p>Telegraf App - Server Agent for Collecting Data in the Data Layer Version 3</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-TSA***V03**-APRS-EN-P ● R911425238
21	<p>PROFINET Device App - PROFINET Device for ctrlX OS Version 3</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-PND***V03**-APRS-EN-P ● R911425232
22	<p>Container Engine App - Using Docker® Images on the ctrlX OS Version 3</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-DOE***V03**-APRS-EN-P ● R911425234
23	<p>InfluxDB App - Influx Database Connection for ctrlX OS Version 3</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-IDB***V03**-APRS-EN-P ● R911425240
24	<p>IoT Dashboard App - Data Visualization in Dynamic, Interactive Dashboards Version 3</p> <p>Application manual</p> <p>↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-GDB***V03**-APRS-EN-P ● R911425248

No.	Documentation
25	<p>Python Runtime App - Python Runtime Environment for ctrlX CORE Version 3</p> <p>Application manual ↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-PYR***V03**-APRS-EN-P ● R911425244
26	<p>G-Code Runtime App - G-Code Interpreter for ctrlX OS Version 3</p> <p>Application manual ↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-GCO***V03**-APRS-EN-P ● R911425246
27	<p>Key Value Database App - Managing Data in the Data Layer Version 3</p> <p>Application manual ↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-KVD***V03**-APRS-EN-P ● R911425250
28	<p>OPC UA Pub/Sub App - OPC UA Pub/Sub for ctrlX OS Version 3</p> <p>Application manual ↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-UAP***V03**-APRS-EN-P ● R911423409
29	<p>Modbus TCP App - Modbus TCP Communication for ctrlX OS Version 3</p> <p>Application manual ↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-MBT***V03**-APRS-EN-P ● R911425236
30	<p>Service Indicator App -Service Indicator for ctrlX OS Version 3</p> <p>Application manual ↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-SIN***V03**-APRS-EN-P ● R911425242
31	<p>Model Connect App - Target for Model-Based Development and Simulation for ctrlX OS Version 3</p> <p>Application manual ↪ Link to the web documentation</p> <p>Ordering information:</p> <ul style="list-style-type: none"> ● DOK-XCORE*-MOC***V03**-APRS-EN-P ● R911425252

No.	Documentation
32	System Overview App - System Topology and System Information Version 3 Application manual ↗ Link to the web documentation Ordering information: <ul style="list-style-type: none">● DOK-XCORE*-SOV***V03**-APRS-EN-P● R911425254
33	Security Scanner App - Inventory of Components Version 3 Application manual ↗ Link to the web documentation Ordering information: <ul style="list-style-type: none">● DOK-XCORE*-SSC***V03**-APRS-EN-P● R911427698

8 Service and support

Our worldwide service network provides an optimized and efficient support. Our experts provide you with advice and assistance. You can contact us **24/7**.

Service Germany

Our technology-oriented Competence Center in Lohr, Germany, is responsible for all your service-related queries for electric drive and controls.

Contact the **Service Hotline** and **Service Helpdesk** under:

Phone: **+49 9352 40 5060**
Fax: **+49 9352 18 4941**
Email: ↪ service.svc@boschrexroth.de
Internet: ↪ <http://www.boschrexroth.com>

Additional information on service, repair (e.g. delivery addresses) and training can be found on our internet sites.

Service worldwide

Outside Germany, please contact your local service office first. For hotline numbers, refer to the sales office addresses on the internet.

Preparing information

To be able to help you more quickly and efficiently, please have the following information ready:

- Detailed description of malfunction and circumstances
- Type plate specifications of the affected products, in particular type codes and serial numbers
- Your contact data (phone and fax number as well as your e-mail address)

9 Index

C

Creating a new scan job. 7

ctrlX AUTOMATION

Related documentation. 20

Custom Scan. 16

E

Editing scan job. 9

Executing scan jobs. 16

H

Helpdesk. 27

Host Discovery Scan. 9

Hotline. 27

I

Installation. 6

Intended use

Areas of application. 4

Areas of use. 4

Introduction. 4

Introduction. 6

O

Operating principle and use

Preparation. 7

P

Port Scan. 14

Preparation. 7

R

Retrieving scan results. 16

S

Safety instructions. 5

Scan job list items and actions. 9

Security Scanner app

Introduction. 6

Security Scanner App

Installation. 6

Service hotline. 27

Support. 27

U

Unintended use. 5

Consequences, disclaimer. 4

Bosch Rexroth AG
Bgm.-Dr.-Nebel-Str. 2
97816 Lohr a.Main
Germany
Tel. +49 9352 18 0
Fax +49 9352 18 8400
www.boschrexroth.com/electrics



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