

CODESYS

AUTOMATION SERVER

**The Industry 4.0 platform
Device management. Engineering. Data analysis.**

**CODESYS Feature Briefing, October 2024
Martin Decker, Product Manager**

Recent developments

+

Future developments

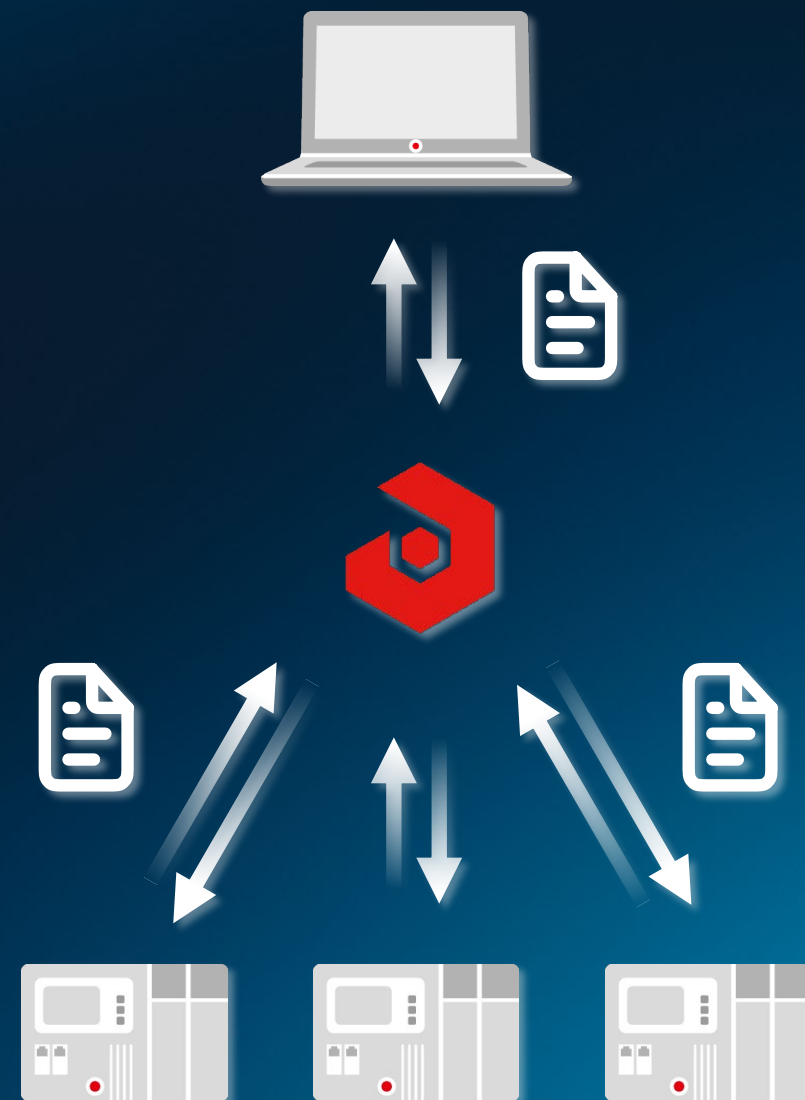
=

Your benefit

File management

Requirements:

- Remote management of files on PLCs
- Usage of custom files supplementing applications



PLCs

Topology Views

- List View
- Network Scan
- Gateways

Applications

File Management

Licenses

Template

Tickets

List View

Search

<input type="checkbox"/>	Name ↑	Status	Update available	Project	Sync	Actions
<input type="checkbox"/>	A_RaSPS_Demo_01	●		ChromaticDemo		
<input type="checkbox"/>	A_RaSPS_Demo_02	●		ChromaticDemo		
<input type="checkbox"/>	A_RaSPS_Demo_03	! 		ChromaticDemo		
<input type="checkbox"/>	A_RaSPS_Demo_04	●		ChromaticDemo		
<input type="checkbox"/>	BGH-IMX6_PMar	! 		dc2004_SP17_		
<input type="checkbox"/>	cas-techday-demo-raspi-05HQ	! 		ChromaticDemo		
<input type="checkbox"/>	cas-techday-demo-raspi-06M0	! 		ChromaticDemo		
<input type="checkbox"/>	CODESYS_CubePLC_RaSPS_1	! 		Assembly4B		
<input type="checkbox"/>	CODESYS_CubePLC_RaSPS_2	! 		Assembly4B		
<input type="checkbox"/>	Conveyor 1-7	! 		MotionControl		
<input type="checkbox"/>	DECKERMNB	! 		VisuDemoOverlay		
<input type="checkbox"/>	GrandPLC-01	! 		ChromaticDemo		

PLC Files

- PLC / List View
- PLC
- Topology View
- List View
- Network Scan
- Gateways
- Applications
- File Management
- License
- Template
- Tools

List View

Search

	Name	Status	Update available	Project	Type
<input type="checkbox"/>
<input type="checkbox"/>	A_BoPS_Demo_01	●	🔄	Demomachine	...
<input type="checkbox"/>	A_BoPS_Demo_02	●		Demomachine	...
<input type="checkbox"/>	A_BoPS_Demo_03	⊘		Demomachine	...
<input type="checkbox"/>	A_BoPS_Demo_04	●	🔄	Demomachine	...
<input type="checkbox"/>	BOE-6ES7_750-1EX00	⊘		6ES7_750-1EX00	...
<input type="checkbox"/>	...	⊘		Demomachine	...
<input type="checkbox"/>	...	⊘		Demomachine	...
<input type="checkbox"/>	CODESYS_CubePLC_BoPS_1	⊘		Assembly	...
<input type="checkbox"/>	CODESYS_CubePLC_BoPS_2	⊘		Assembly	...
<input type="checkbox"/>	Control 1.1	⊘		MachineControl	...
<input type="checkbox"/>	ELC30000	⊘	🔄	VirtualMachine	...
<input type="checkbox"/>	BoPS_01	⊘		Demomachine	...

Actions

- ⚙️
- 📄
- 📁 **PLC Files**
- 🔒
- 🗑️



File Management / PLC Files

PLCs

Applications

File Management

PLC Files

Licenses

Template

Tickets

PLC Details / PLC Files for 'Power station AK7'

Power station AK7

<input type="checkbox"/>	Name	Size	Last Modified
<input type="checkbox"/>	cert		9/9/2024, 11:14:22 AM GMT+2
<input type="checkbox"/>	OPC-UA-server		9/9/2024, 11:14:22 AM GMT+2
<input type="checkbox"/>	PLCLogic		9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>	PLCLogic	229 bytes	9/21/2024, 8:18:22 PM GMT+2
<input type="checkbox"/>	CODESYS Control Win32 - user.log	4.82 KB (4,728 bytes)	9/14/2024, 12:24:10 AM GMT+2
<input type="checkbox"/>	CODESYSControl.rdy	7.26 KB (7,396 bytes)	9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>	PLCLog.rdy	285.75 KB (292,884 bytes)	9/14/2024, 12:24:10 AM GMT+2
<input type="checkbox"/>	LoadBackup.rdy	1.22 KB (1,262 bytes)	9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>	targethardware.rdy	717 bytes	7/29/2024, 6:29:22 PM GMT+2
<input type="checkbox"/>	targethardware.Standard.rdy	98 bytes	7/29/2024, 6:29:22 PM GMT+2
<input type="checkbox"/>	targethardwareoverly.Standard.rdy	257 bytes	7/29/2024, 6:29:22 PM GMT+2

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File Management / PLC Files

- PLCs
- Applications
- File Management
 - PLC Files
- Licenses
- Template
- Tickets

PLC Details / PLC Files for 'Power station AK7'

Installed PLC
Power station AK7

Location



(0)	Name ↑	Size	Last Modified
<input type="checkbox"/>	cert		9/6/2024, 11:14:33 AM GMT+2
<input type="checkbox"/>	OPCUAServer		9/6/2024, 11:14:33 AM GMT+2
<input type="checkbox"/>	PlcLogic		9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>	3S.dat	329 bytes	9/21/2024, 8:13:33 PM GMT+2
<input type="checkbox"/>	CODESYS Control Win V3 - x64.log	4.62 KB (4,728 bytes)	9/14/2024, 12:24:13 AM GMT+2
<input type="checkbox"/>	CODESYSControl.cfg	7.56 KB (7,746 bytes)	9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>	PlcLog.csv	285.75 KB (292,604 bytes)	9/14/2024, 12:24:13 AM GMT+2
<input type="checkbox"/>	SysFileMap.cfg	1.33 KB (1,362 bytes)	9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>	targetvisuextern.cfg	717 bytes	7/29/2024, 6:09:02 PM GMT+2
<input type="checkbox"/>	targetvisuextern.Standard.cfg	98 bytes	7/29/2024, 6:09:02 PM GMT+2
<input type="checkbox"/>	targetvisuexternoverlay.Standard.cfg	257 bytes	7/29/2024, 6:09:02 PM GMT+2



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- PLCs
- Applications
- File Management**
 - PLC Files
- Licenses
- Template
- Tickets

PLC Details / PLC Files for 'Power station AK7'

Installed PLC: Power station AK7 Location:



<input type="checkbox"/> (0)	Name ↑	Size	Last Modified
<input type="checkbox"/>	cert		9/6/2024, 11:14:33 AM GMT+2
<input type="checkbox"/>	OPCUAServer		9/6/2024, 11:14:33 AM GMT+2
<input type="checkbox"/>	PlcLogic		9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>	3S.dat	329 bytes	9/21/2024, 8:13:33 PM GMT+2
<input type="checkbox"/>	CODESYS Control Win V3 - x64.log	4.62 KB (4,728 bytes)	9/14/2024, 12:24:13 AM GMT+2
<input type="checkbox"/>	CODESYSControl.cfg	7.56 KB (7,746 bytes)	9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>	PlcLog.csv	285.75 KB (292,604 bytes)	9/14/2024, 12:24:13 AM GMT+2
<input type="checkbox"/>	SysFileMap.cfg	1.33 KB (1,362 bytes)	9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>	targetvisuextern.cfg	717 bytes	7/29/2024, 6:09:02 PM GMT+2
<input type="checkbox"/>	targetvisuextern.Standard.cfg	98 bytes	7/29/2024, 6:09:02 PM GMT+2
<input type="checkbox"/>	targetvisuexternoverlay.Standard.cfg	257 bytes	7/29/2024, 6:09:02 PM GMT+2

Power station AK7'

A toolbar containing six icons: a circular arrow for Refresh, a folder with a plus sign for Create New Directory, a pencil for Rename, a downward arrow for Transfer from PLC, an upward arrow for Transfer to PLC, and a trash can for Delete. Below each icon is a dark grey button with white text. The buttons are: Refresh, Create New Directory, Rename, Transfer from PLC, Transfer to PLC, and Delete.

329 bytes

- PLCs
- Applications
- File Management**
 - PLC Files
- Licenses
- Template
- Tickets

PLC Details / PLC Files for 'Power station AK7'

Installed PLC: Power station AK7 Location



<input type="checkbox"/>	(0) Name ↑	Size	Last Modified
<input type="checkbox"/>	cert		9/6/2024, 11:14:33 AM GMT+2
<input type="checkbox"/>	OPCUAServer		9/6/2024, 11:14:33 AM GMT+2
<input type="checkbox"/>	PlcLogic		9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>	3S.dat		9/21/2024, 8:13:33 PM GMT+2
<input type="checkbox"/>	CODESYS Control Win V3 - x64.log		9/14/2024, 12:24:13 AM GMT+2
<input type="checkbox"/>	CODESYSControl.cfg		9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>	PlcLog.csv		9/14/2024, 12:24:13 AM GMT+2
<input type="checkbox"/>	SysFileMap.cfg		9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>	targetvisuextern.cfg	717 bytes	7/29/2024, 6:09:02 PM GMT+2
<input type="checkbox"/>	targetvisuextern.Standard.cfg	98 bytes	7/29/2024, 6:09:02 PM GMT+2
<input type="checkbox"/>	targetvisuexternoverlay.Standard.cfg	257 bytes	7/29/2024, 6:09:02 PM GMT+2

Create Directory

Directory name*

+ Create New Directory × Close

- PLCs
- Applications
- File Management
 - PLC Files
- Licenses
- Template
- Tickets

PLC Details / PLC Files for 'Power station AK7'

Installed PLC
Power station AK7

Location



<input type="checkbox"/>	(0)	Name ↑	Size	Last Modified
<input type="checkbox"/>		cert		9/6/2024, 11:14:33 AM GMT+2
<input type="checkbox"/>		OPCUAServer		9/6/2024, 11:14:33 AM GMT+2
<input type="checkbox"/>		PlcLogic		9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>		3S.dat		9/21/2024, 8:13:33 PM GMT+2
<input type="checkbox"/>		CODESYS Control Win V3 - x		9/14/2024, 12:24:13 AM GMT+2
<input type="checkbox"/>		CODESYSControl.cfg		9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>		PlcLog.csv		9/14/2024, 12:24:13 AM GMT+2
<input type="checkbox"/>		SysFileMap.cfg		9/21/2024, 8:17:17 PM GMT+2
<input type="checkbox"/>		targetvisuextern.cfg		7/29/2024, 6:09:02 PM GMT+2
<input type="checkbox"/>		targetvisuextern.Standard.cf		7/29/2024, 6:09:02 PM GMT+2
<input type="checkbox"/>		targetvisuexternoverlay.Stan		7/29/2024, 6:09:02 PM GMT+2

Transfer to PLC

Do you really want to transfer the following files to the path 'Custom Folder' on the PLC?

Name	Size ↓
Recs.db	21.65 MB
OpsManual.pdf	160.85 KB
Files1.png	107.71 KB
Files2.png	98.75 KB
R1PredefValues.txtrecipe	6.33 KB

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PLC Details / PLC Files for 'Power station AK7'

Installed PLC: Power station AK7
 Location: \$drive\$/Custom Folder



<input checked="" type="checkbox"/>	(4) Name ↑	Size	Last Modified
<input type="checkbox"/>	...		
<input checked="" type="checkbox"/>	Layout.png		9/21/2024, 8:29:23 PM GMT+2
<input checked="" type="checkbox"/>	Logs.pdf		8/27/2024, 10:54:59 AM GMT+2
<input checked="" type="checkbox"/>	R2_PrededefValues.txt		9/21/2024, 8:45:55 PM GMT+2
<input checked="" type="checkbox"/>	Values.db		8/22/2024, 5:52:46 PM GMT+2

Transfer from PLC

Your file transfer is being prepared.

Name	Progress
\$drive\$/Custom Folder/Layout.png	<div style="width: 93.46%;"><div style="width: 93.46%;"></div></div> 93.46 KB / 107.71 KB
\$drive\$/Custom Folder/Logs.pdf	<div style="width: 93.46%;"><div style="width: 93.46%;"></div></div> 93.46 KB / 160.85 KB
\$drive\$/Custom Folder/Values.db	<div style="width: 93.46%;"><div style="width: 93.46%;"></div></div> 93.46 KB / 21.65 MB
\$drive\$/Custom Folder/R2_PrededefValues.txt	File transfer finished.

- File Management / PLC Files
- PLCs
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- File Management
- PLC Files
- Licenses
- Template
- Tickets

PLC Details / PLC Files for 'Power station AK7'

Installed PLC
Power station AK7

Location
\$cdrive\$/Custom Folder



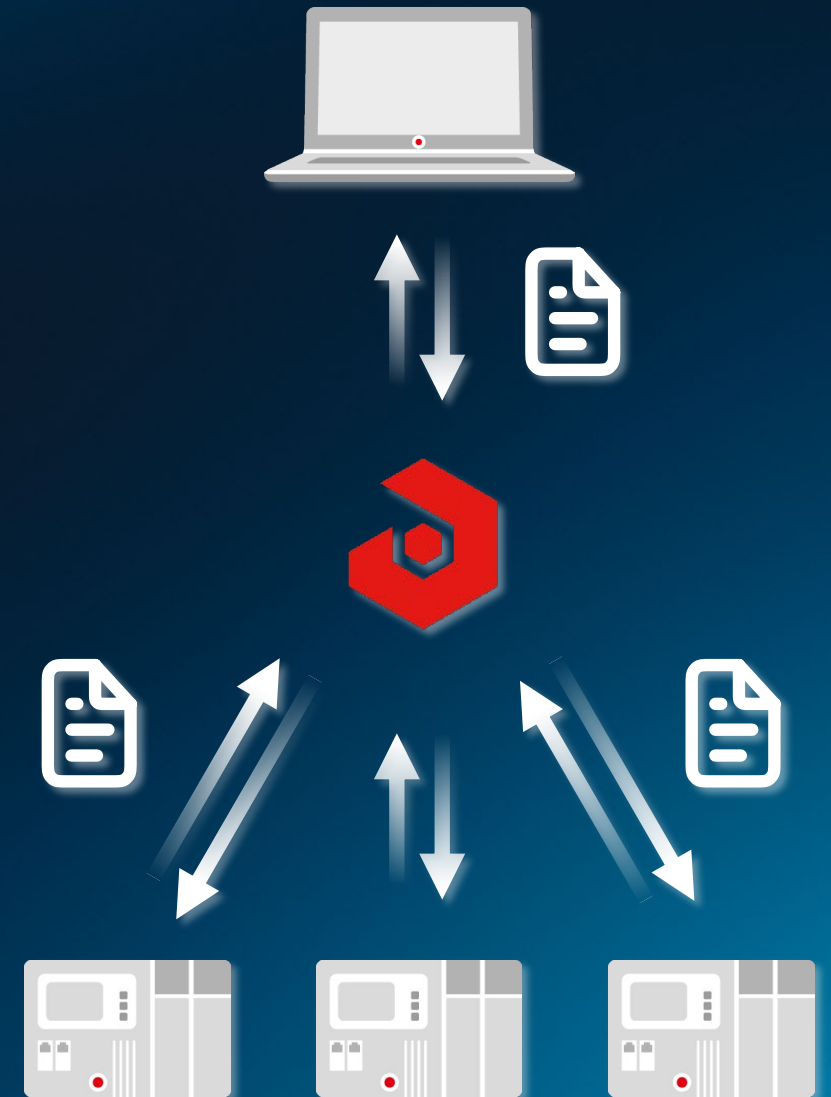
<input type="checkbox"/> (0)	Name ↑	Size	Last Modified
	↑ ...		
<input type="checkbox"/>	Layout.png	107.71 KB (110,297 bytes)	9/21/2024, 8:29:23 PM GMT+2
<input type="checkbox"/>	Logs.pdf	160.85 KB (164,714 bytes)	8/27/2024, 10:54:59 AM GMT+2
<input type="checkbox"/>	R2_PredefValues.txtrecipe	6.33 KB (6,480 bytes)	9/21/2024, 8:45:55 PM GMT+2
<input type="checkbox"/>	Values.db	21.65 MB (22,698,643 bytes)	8/22/2024, 5:52:46 PM GMT+2

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File management

Solution:

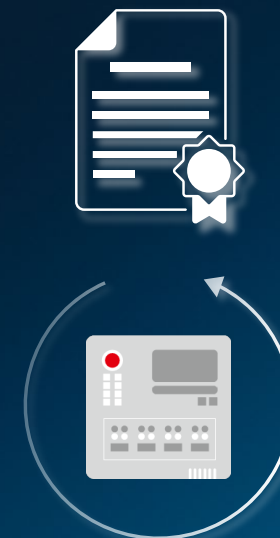
- Extensive file management possibilities
- Development in three stages
 - I) File transfer to PLCs
 - II) *Deployment of additional files & central file management*
 - III) *Backup & restore of files*
- ✓ Access to the PLCs' file system via browser – no CODESYS Development System needed
- ✓ Control of recipe management from the browser
- ✓ Enhanced capabilities through support of user-defined files on PLCs



Renew expired Edge Gateway certificates

Requirements:

- Shelf life of Edge Gateways > 6 months
- Renew expired Edge Gateway certificates



Gateways

Connection logs for 'Edge'

Message	Timestamp	Edge Certificate Thumbprint
✔ Edge gateway connected successfully.	4/8/2024, 10:07:53 AM GMT+2	C054D35248F21...
⚠ Edge connected with expired certificate. Only renewal of certificate is allowed.	4/8/2024, 10:07:23 AM GMT+2	E408D1D99D761...
⚠ The edge certificate is configured in the Automation Server but expired.	4/8/2024, 10:06:52 AM GMT+2	E408D1D99D761...
⚠ The edge certificate is configured in the Automation Server but expired.	4/8/2024, 10:06:22 AM GMT+2	E408D1D99D761...
⚠ The edge certificate is configured i		9D761...
⚠ The edge certificate is configured i		9D761...
⚠ The edge certificate is configured i		9D761...
⚠ The edge certificate is configured i		9D761...
⚠ The edge certificate is configured in the Autom...	4/8/2024, 10:03:52 AM GMT+2	E408D1D99D761...

Allow Temporary Connection

Do you really want to allow an edge with expired certificate to connect temporarily, so it can renew its certificate?
This operation may take a few minutes.

Certificate thumbprint: E408D1D99D...

Refresh **⚠ Allow Temporary Connection** Close

Renew expired Edge Gateway certificates

Solution:

Temporary, functionally restricted connection, only for renewing the certificate

- ✓ **Full functionality with new certificate**
- ✓ **“Old” Edge Gateways still usable**



UX improvements

- “New features” tile on start page





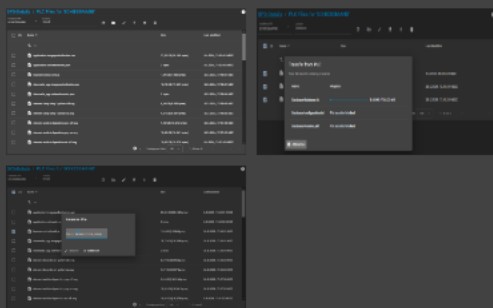
- PLCs
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New Feature: File Management

Use the Automation Server to easily exchange files between PLCs and clients.

It is now possible to exchange one or more files between devices directly via the browser of your host device. When transferring multiple files from a PLC to a host, they are automatically packed as a zip archive. Needless to say, you can also create new folders or delete files as required.

A special highlight: You can even enter file paths as free text and thus have the option of using \$placeholders\$.



My PLCs, Projects, and more

Basic

Advanced Features

With the CODESYS Automation Server, you manage your PLC landscapes together with the associated projects and applications. The following steps form the basis for this:

- Connect Edge Gateways to the CODESYS Automation Server
- Connect PLCs to the CODESYS Automation Server
 - To the network scan: Scan for PLCs
 - To the list view: Overview over connected PLCs
- Upload projects and boot applications
 - To the project list: Overview of all connected projects and boot applications
- Load applications on PLCs
 - To the project list: Applications of a project

Once PLCs are connected to the CODESYS Automation Server and applications are deployed, numerous other CODESYS Automation Server functions are available to you.

→ [Advanced Features](#)

My PLC Data

With the Data Analyzer of the CODESYS Automation Server you can quickly and easily create comprehensive dashboards to display your PLC data.


Core features:

- Simply drag & drop variables onto dashboards
- Write variables
- Record and export data
- Analyze data
- Link variables between several PLCs

[How to get started](#)

[Click here to go directly to your Data Analyzer](#)

Getting Help

- Each page and each dialog is marked with a  symbol that takes you directly to the appropriate place in the documentation.
- [Detailed documentation on the CODESYS Automation Server.](#)
- Directly ask questions to the CODESYS community in [CODESYS Talk](#).
- [Information on changing passwords.](#)

UX improvements

- “New features” tile on start page
- Additional warning when changing applications
- Display of the current user role
- Accelerated addition of PLCs
- Default application status changed to “stop” after application reset



Upcoming feature: certificate management

Requirements:

- Overview of all existing certificates
- Easier handling of certificates
- Notifications before certificates expire



- PLCs
- Applications
- File Management
- Security**
 - Device Certificates
- Licenses
- Template
- Tickets

Device Certificates

PLCs Edge Gateways

Search

Trust level

Expires before GMT+2

MM/DD/YYYY, hh:mm AM/PM

Filter PLCs



Encoding for transfer

.der

<input type="checkbox"/> (0)	Device Name	Last Refresh	Thumbprint	Valid Until	Use Cases	Trust Level	Actions
<input type="checkbox"/>	<u>schiess-developer-vm</u>	9/4/2024, 10:09:21 AM GMT+2	4F912698D8934CD9DB2EF79EEB4BB93F0A9D11FE	8/7/2025, 12:21:45 PM GMT+2		Trusted	
<input type="checkbox"/>	<u>schiess-developer-vm</u>	9/4/2024, 10:09:21 AM GMT+2	3DB9CB026FFFC3E79E1CD21D9A71431F8FAB749E	7/30/2027, 9:26:21 AM GMT+2	Encrypted Application	Own	
<input type="checkbox"/>	<u>schiess-developer-vm</u>	9/4/2024, 10:09:21 AM GMT+2	A13F7C2549D76DDBF0E144CC91C71374EE8ADA88	7/30/2027, 9:26:26 AM GMT+2	Web Server, Encrypted Communication	Own	
<input type="checkbox"/>	<u>schiess-developer-vm</u>	9/4/2024, 10:09:21 AM GMT+2	AD7E1C28B064EF8F6003402014C3D0E3370EB58A	6/29/2034, 7:39:16 PM GMT+2		Quarantine	
<input type="checkbox"/>	<u>schiess-developer-vm</u>	9/4/2024, 10:09:21 AM GMT+2	C9D6ACC5F46A0CE0021CB82785FA06DFE5EF28BF	8/7/2025, 12:21:30 PM GMT+2		Quarantine	
<input type="checkbox"/>	<u>SCHIESSMANB</u>	9/4/2024, 10:09:21 AM GMT+2	4F912698D8934CD9DB2EF79EEB4BB93F0A9D11FE	8/7/2025, 12:21:45 PM GMT+2		Trusted	
<input type="checkbox"/>	<u>SCHIESSMANB</u>	9/4/2024, 10:09:21 AM GMT+2	AD7E1C28B064EF8F6003402014C3D0E3370EB58A	6/29/2034, 7:39:16 PM GMT+2		Trusted	
<input type="checkbox"/>	<u>SCHIESSMANB</u>	9/4/2024, 10:09:21 AM GMT+2	2ED84B93AEEE85D717C3326A1432F6250F30D5B0	4/11/2027, 11:32:43 AM GMT+2	Web Server, Encrypted Communication	Own	
<input type="checkbox"/>	<u>SCHIESSMANB</u>	9/4/2024, 10:09:21 AM GMT+2	F1C89C51C9218DE411039CFC1982C4FCD13EBEC3	7/30/2027, 9:26:45 AM GMT+2	Encrypted Application	Own	
<input type="checkbox"/>	<u>SCHIESSMANB</u>	9/4/2024, 10:09:21 AM GMT+2	AD7E1C28B064EF8F6003402014C3D0E3370EB58A	6/29/2034, 7:39:16 PM GMT+2		Quarantine	
<input type="checkbox"/>	<u>SCHIESSMANB</u>	9/4/2024, 10:09:21 AM GMT+2	C9D6ACC5F46A0CE0021CB82785FA06DFE5EF28BF	8/7/2025, 12:21:30 PM GMT+2		Quarantine	



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- Security / Device Certificates
- PLCs
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- Device Certificates
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- Tickets




Device Certificates

PLCs
 Edge Gateway
 Search
 Trust Level
 Expires before
 GMT+2

Filter PLCs
 DevVmVirtualControl, schie... (3)

Device Name	Last Refresh	Thumbnail	Valid Until	User Groups	Trust Level	Actions
schlessmann	5/4/2024, 10:25:21 AM GMT+2		2:21:45 PM GMT+2		Trusted	
schlessmann	5/4/2024, 10:25:21 AM GMT+2		9:26:21 AM GMT+2	Enabled Application	Dev	
schlessmann	5/4/2024, 10:25:21 AM GMT+2		7:26:26 AM GMT+2	Enabled Communication, Web Server	Dev	
DevVmVirtualControl	5/4/2024, 10:25:21 AM GMT+2		7:26:16 PM GMT+2		Quarantine	
schlessmann	5/4/2024, 10:25:21 AM GMT+2		2:21:30 PM GMT+2		Quarantine	
schlessmann	5/4/2024, 10:25:21 AM GMT+2		2:21:45 PM GMT+2		Trusted	
schlessmann	5/4/2024, 10:25:21 AM GMT+2		7:26:16 PM GMT+2		Trusted	
schlessmann	5/4/2024, 10:25:21 AM GMT+2		11:22:42 AM GMT+2	Web Server, Enabled Communication	Dev	
schlessmann	5/4/2024, 10:25:21 AM GMT+2		9:26:42 AM GMT+2	Enabled Application	Dev	
schlessmann	5/4/2024, 10:25:21 AM GMT+2		7:26:16 PM GMT+2		Quarantine	
schlessmann	5/4/2024, 10:25:21 AM GMT+2		8:17:02S, 12:21:30 PM GMT+2		Quarantine	

Refresh Certificates

Device Name	Status ↑
<u>DevVmVirtualControl</u>	 PLC not connected.
<u>schlessmann</u>	
<u>SCHLESSMANB</u>	

Close

- Security / Device Certificates
- PLCs
- Applications
- File Management
- Security
- Device Certificates
- Licenses
- Templates
- Tickets

Device Certificates

PLCs Edge Gateway Search Trust level Expires before 08/14/2025

Device Name	Last Refresh	Trust Level
SCHIESSMANB	9/14/2024, 10:09:21 AM GMT+2	Trusted
SCHIESSMANB	9/14/2024, 10:09:21 AM GMT+2	Trusted
SCHIESSMANB	9/14/2024, 10:09:21 AM GMT+2	Trusted
SCHIESSMANB	9/14/2024, 10:09:21 AM GMT+2	Trusted
SCHIESSMANB	9/14/2024, 10:09:21 AM GMT+2	Trusted
SCHIESSMANB	9/14/2024, 10:09:21 AM GMT+2	Trusted
SCHIESSMANB	9/14/2024, 10:09:21 AM GMT+2	Trusted



Create Certificate

This operation creates a self-signed certificate.

Use Case*
OPC UA Server

Days of validity*
365

Key length (bit)*
2048

Device Name Status ↑

SCHIESSMANB

+ Create Certificate X Close

Use Cases	Trust Level	Actions
OPC UA Server	Trusted	⌵ ⌵ ⌵ ⌵
OPC UA Server	Trusted	⌵ ⌵ ⌵ ⌵
Web Server, Encrypted Communication	Dev	⌵ ⌵ ⌵ ⌵
Encrypted Application	Dev	⌵ ⌵ ⌵ ⌵
OPC UA Server	Quarantine	⌵ ⌵ ⌵ ⌵
OPC UA Server	Quarantine	⌵ ⌵ ⌵ ⌵

- PLCs
- Applications
- File Management
- Security
 - Device Certificates
- Licenses
- Template
- Tickets

Device Certificates

PLCs Edge Gateways

 GMT+2

Filter PLCs
 SCHIESSMANB

Encoding for transfer
 .der

(6)	Device Name	Last Refresh	Thumbprint	Valid Until	Use Cases	Trust Level	Actions
<input checked="" type="checkbox"/>	SCHIESSMANB	9/4/2024, 10:09:21 AM GMT+2	4F912698D8934CD9DB2EF79EEB4BB93F0A9D11FE	8/7/2025, 12:21:45 PM GMT+2		Trusted	
<input checked="" type="checkbox"/>	SCHIESSMANB	9/4/2024, 10:09:21 AM GMT+2	AD7E1C28B064EF8F6003402014C3D0E3370EB58A	6/29/2034, 7:39:16 PM GMT+2		Trusted	
<input checked="" type="checkbox"/>	SCHIESSMANB	9/4/2024, 10:09:21 AM GMT+2	2ED84B93AEEE85D717C3326A1432F6250F30D5B0	4/11/2027, 11:32:43 AM GMT+2	Web Server, Encrypted Communication	Own	
<input checked="" type="checkbox"/>	SCHIESSMANB	9/4/2024, 10:09:21 AM GMT+2	F1C89C51C9218DE411039CFC1982C4FCD13EBEC3	7/30/2027, 9:26:45 AM GMT+2	Encrypted Application	Own	
<input checked="" type="checkbox"/>	SCHIESSMANB	9/4/2024, 10:09:21 AM GMT+2	AD7E1C28B064EF8F6003402014C3D0E3370EB58A	6/29/2034, 7:39:16 PM GMT+2		Quarantine	
<input checked="" type="checkbox"/>	SCHIESSMANB	9/4/2024, 10:09:21 AM GMT+2	C9D6ACC5F46A0CE0021CB82785FA06DFE5EF28BF	8/7/2025, 12:21:30 PM GMT+2		Quarantine	

Transfer Certificate from Device

Trust level [dropdown] Expires before GMT+2 [calendar icon]
MM/DD/YYYY, hh:mm AM/PM

Encoding for transfer [dropdown]
.der [dropdown]
[download icon] [share icon] [trash icon]
Transfer Certificate from Device

	Thumbprint	Valid Until	Use Cases	Trust Level	Actions
AM GMT+2	4F912698D8934CD9DB2EF79EEB4BB93F0A9D11FE	8/7/2025, 12:21:45 PM GMT+2		Trusted	[download] [refresh] [share] [trash]
AM GMT+2	AD7E1C28B064EF8F6003402014C3D0E3370EB58A	6/29/2034, 7:39:16 PM GMT+2		Trusted	[download] [refresh] [share] [trash]
AM GMT+2	2ED84B93AEEEE85D717C3326A1432F6250F30D5B0	4/11/2027, 11:32:43 AM GMT+2	Web Server, Encrypted Communication	Own	[download] [refresh] [share] [trash]
AM GMT+2	F1C89C51C9218DE411039CFC1982C4FCD13EBEC3	7/30/2027, 9:26:45 AM GMT+2	Encrypted Application	Own	[download] [refresh] [share] [trash]
AM GMT+2	AD7E1C28B064EF8F6003402014C3D0E3370EB58A	6/29/2034, 7:39:16 PM GMT+2		Quarantine	[download] [refresh] [share] [trash]
AM GMT+2	C9D6ACC5F46A0CE0021CB82785FA06DFE5EF28BF	8/7/2025, 12:21:30 PM GMT+2		Quarantine	[download] [refresh] [share] [trash]

Upcoming feature: certificate management

Solution:

- Overview of existing certificates and important details
 - Central location for common actions with certificates
 - Wide range of search and filter possibilities
 - Browser-based certificate management
 - Multi-edit possibilities for certificates and devices
-
- ✓ Certificates of all devices always in view
 - ✓ Automatic notification before certificate expiration
 - ✓ Clear handling and workflow

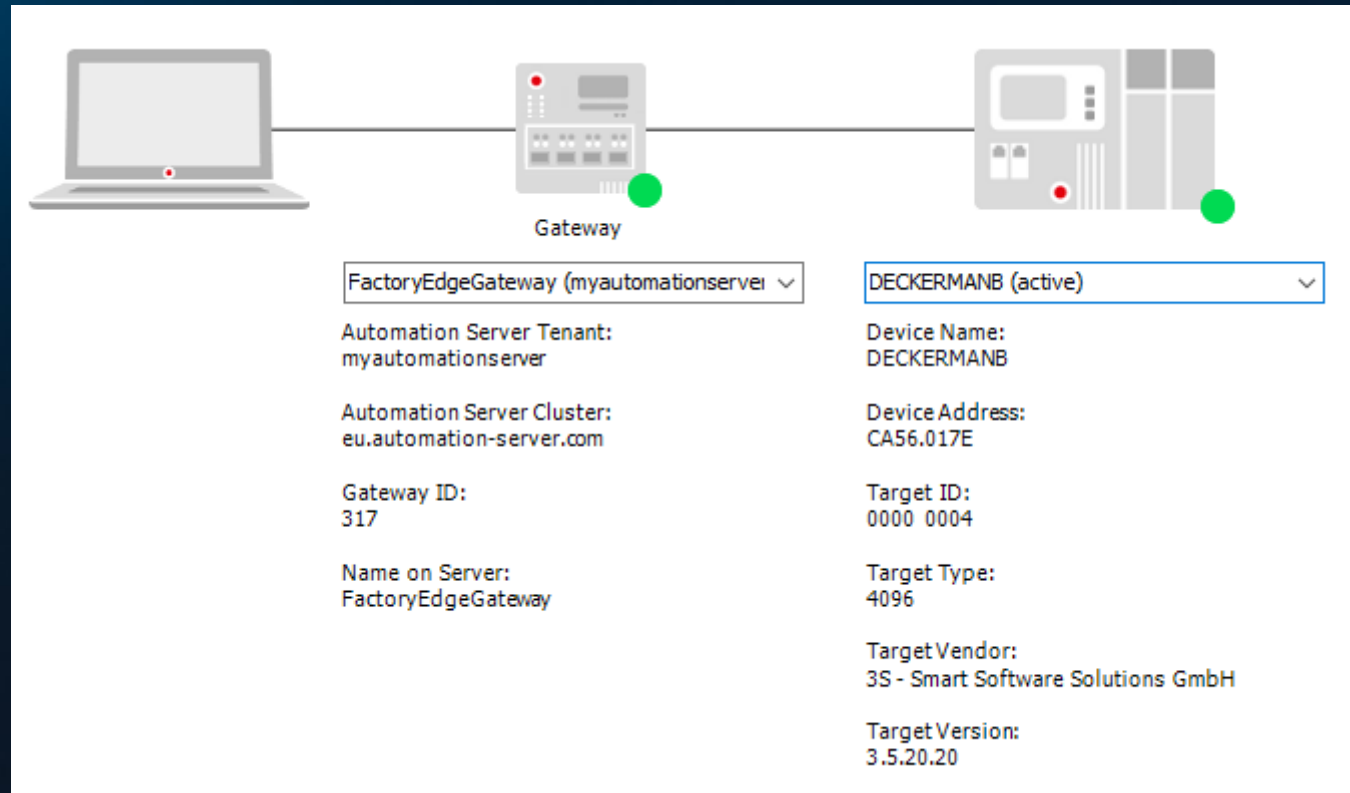


Upcoming feature: encrypted communication

Requirements:

- Encryption of all connections
- End-to-end encrypted connection
- Easy establishment of encrypted communication















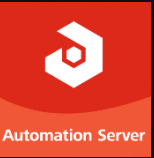
**End-to-end encryption from
CODESYS Development System
to PLC**

Upcoming feature: encrypted communication

Solution:

- Fully encrypted connection – end-to-end or via CODESYS Automation Server
- Simple workflow thanks to quick setup
- Mandatory encryption possible for all PLCs connected with a specific Edge Gateway
- Options for connection testing
- Bulk operations





Enjoy the new features!

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