## **Safety Information**

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

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

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## Glossary

- AS EN54 FIRE SD = The AS EN 54 SmartDriver Kit EBO Fire Graphics that is loaded into an automation server and provides communication between EcoStruxure Building Operation and an Esmi fire detection system.
- AS EN54 CT = The AS EN 54 Configurator Tool. This is a Windows application that is used to create EcoStruxure Building Operation interfaces, devices, values, alarms, graphics and bindings in an automation server to represent the Esmi fire detection system.

## **Functional Overview**

The interface between Esmi fire detection panels and EcoStruxure Building Operation is handled by the AS EN 54 SmartDriver Kit EBO Fire Graphics (AS EN54 FIRE SD).

Event and command information is sent/received by the main fire detection panel using RS-485 communication to/from the AS EN 54 SmartDriver Kit EBO Fire Graphics.

The EcoStruxure Building Operation points and graphics for the interface can be created with the AS EN 54 Configurator Tool (AS EN54 CT).



After the TGML graphics have been created they can

be edited with the EcoStruxure Building Operation

Graphics Editor to modify the location of the fire

components on the floor plans as required.

# SmartDriver Kit Commissioning and Integration Guide

The AS EN 54 Configurator Tool is a Windows application where you can import floor plans and Esmi configuration files and create the EcoStruxure Building Operation interface, devices, points, alarms and TGML graphics.

- (2) SmartDriver Kit
- (3) Fire detection panels

(a) Ethernet

(b) INFO line RS-485

(c) FXCOMM RS-485

## **Restrictions and Limitations**

- The automation server only runs a single instance of the Schneider Esmi SmartDriver.
- The minimum EcoStruxure Building Operation version is 3.0.
- The AS EN 54 SmartDriver Kit EBO Fire Graphics uses the serial port of the automation server to connect to one Schneider Electric Esmi FX3Net panel or Esmi Sense FDP fire detection panel.
- The maximum device count limit for the driver is reduced by selections in AS EN 54 Configurator Tool, such as BACnet Write, BACnet Read, Output, and Schedule.



- The maximum number of BACnet objects per type is limited. Refer to the EcoStruxure Building Management Architectural Guidelines.
- The AS EN 54 Configurator Tool only supports certain configuration files:
  - \*.ison
  - \*.fx3, created with WinFX3Net version 7.0.1 and newer
- The INFO protocol only supports device addresses from 1 to 255. Device address 256 and above are not supported.
- Do not connect devices to the INFO board in parallel. A REP Sense Protocol Repeater is necessary when more than a single device is connected to one INFO board.
- The number of simultaneous client connections to the automation server is limited to 5.

#### Installing the AS EN 54 SmartDriver Kit EBO Fire Graphics and Creating EcoStruxure Building **Operation Fire Graphics**

You need a AS EN 54 SmartDriver Kit EBO Fire Graphics and an Esmi fire detection system (Esmi Sense FDP or FX 3NET) with an RS-485 INFO line.

You need the following software installed on a PC:

EcoStruxure Building Operation WorkStation

#### To Install AS EN 54 SmartDriver Kit EBO Fire Graphics and Create EcoStruxure Building Operation Fire Graphics

## (1)

Install EcoStruxure Building Operation WorkStation.

#### $(\mathbf{2})$

Install EcoStruxure Building Operation License Administrator.

## 3

## (4)

Log in to the automation server with EcoStruxure Building Operation WorkStation.

Default IP address is 192.168.1.99 MASK 255.255.255.0

## (5)

Create a security certificate with EcoStruxure Building Operation WorkStation (enable HTTPS communication). For more information, see further below.

- EcoStruxure Building Operation License Administrator
- Valid license
- AS EN 54 Configurator Tool
- Device Administrator Building Operation is necessary for automation server upgrade and new database creation

🔎 Building Add the Esmi Fire Evaluation License from file Licenses Add license from entitlement ID P) Add license from file

Continued

#### To Install AS EN 54 SmartDriver Kit EBO Fire Graphics and Create EcoStruxure Building Operation Fire Graphics

#### 6

Start the AS EN 54 Configurator Tool and create the interface, values, alarms, graphics, and bindings for the automation server. For more information, see further below.

## (7)

Restart the INFO line communication:

In EcoStruxure Building Operation, go to AS EN54 FIRE Interface > AS EN54 NETWORK > Esmi panel > Smart Driver Control Point.

Change the value from -1 to 1 and click the **Save** button

The value reverts to -1 after saving.

## (8)

Start the EcoStruxure Building Operation Graphics Editor and position the devices on the floor plans. For more information, see further below.

#### **Client and Browser**

The primary client for the end user to view EcoStruxure Building Operation Fire Graphics is WebStation. The recommended web browser is Google Chrome.

#### Pre-configured Users in the SmartDriver Kit Automation Server

User	Password	Rights	User Group	Disabled
admin	?5910fire	everything	Administrators	False
superuser	!5910fire	everything	Superuser Group	True
manager	manager	read, write, edit, force, command	Manager Group	True
viewer	viewer	read	Viewer Group	True



# NOTICE

#### POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, INTEGRITY, AND CONFIDENTIALITY

- Change default passwords at first use to help prevent unauthorized access to device settings, controls, and information.
- Change passwords regularly to help prevent unauthorized access to device settings, controls, and information.
- Do not share accounts. Each user must have their own account.
- When creating user names, avoid using personal information, and consider regional privacy policies.

Failure to follow these instructions can result in loss of data, unauthorized system access, or equipment damage.

## Backing up the Automation Server

#### To Back up the Automation Server

## $(\mathbf{1})$

In EcoStruxure Building Operation, log on to the automation server.

## (2)

In the System Tree pane, right-click Automation Server and click Backup Options.

3	Backup Option	s prefix			
In the Backup content box, click Configuration only or All data.	Backup set name	suffix 20	201023-093942		
For new installations, it is recommended to copy all data to the backup		3 O			
file.	Server name	Include	Backup set name	Backup content	Backup set description
	AS Fire		AS Fire_20201023-0938 Confi All da	42 Configuration only guration only ta (Configuration and Histor	ca)
<b>(4)</b>	Backup	0	ancel		
Click the <b>Backup</b> button.					

A backup is generated on the automation server.



Continued

#### To Back up the Automation Server

#### (5)

Copy the backup file to your PC:

- In the System Tree pane, go to
  - [Automation server] > System > Backup and Restore > Backup sets > Local > [backup file]
- Right-click the backup file and click Save to.
- Navigate to a folder on your PC and save the backup file.
   The file format for the backup file is \*.xbk.

# Installing SmartDriver Software on an Existing Automation Server

The SmartDriver Esmi Fire EN54 is a licensed software. Without a valid license a license violation is detected.

#### To Enable AS EN 54 SmartDriver Kit EBO Fire Graphics

## 1

In EcoStruxure Building Operation, log on to the automation server.

2

Open the Control Panel and click Security Settings.

You must enable a setting in EcoStruxure Building Operation for the SmartDriver to work.



Continued

#### To Enable AS EN 54 SmartDriver Kit EBO Fire Graphics

## 3

Scroll to the bottom of the page, to SmartDriver deployment, and make sure that the Enable SmartDriver deployment check box is selected.

If the Enable SmartDriver deployment check box is clear, select it and then click the Save button

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Connect Settings	Display security banner					
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Groups	SSH Consola Lockout					
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EcoStruxure Web Services     Extended Derminsions	Release 3311 lockout alter	To minutes				
External Log Storage	Caracter devices devices and					
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Alarms Fuents Wetch						3 alarms

#### To Load AS EN 54 SmartDriver Kit EBO Fire Graphics into an Existing Automation Server

## 1

In EcoStruxure Building Operation, in the System Tree pane, expand the automation server. Right-click the SmartDrivers folder, point to New and then click Driver.

In an Enterprise Server hierarchy, each automation server has a SmartDrivers folder

🚟 Esmi FDP Demo - B	uildin	g Operation WorkStat	tion			– o ×
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Alarms Events Wat	Ø	Properties	Ctrl+R			Jaiamis

## (2)

Type a name and click the **Next** button.

3

Navigate to the AS EN54 FIRE SD\_XX.sdrv file and click it to load the driver.

#### To Set the Connection Details

1

In EcoStruxure Building Operation, in the **System Tree** pane, expand **AS EN54 FIRE Interface**. Right-click **AS EN54 NETWORK** and then click **Properties**.

**AS EN54 FIRE Interface** is added to the **System Tree** pane when the EcoStruxure Building Operation Interface and Graphics are created.

×

# SmartDriver Kit Commissioning and Integration Guide

Continued

#### To Set the Connection Details

2

After the Driver reference box, click the ... button.

ESMI Network				?
Semantics		References		
Basic	Licensing		Advanced	
General Informatio	n			
Status Information				
Status	Online	Ŧ		
Configuration stat	Valid	~		
Configuration Sett	ings			
Driver reference	~/System/SmartDrivers/	Driver		12
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Custom paran Mame Name Port reference Baud rate Data bits Parity Stop bits	Index number Index number  Cysystem/Ports/Serial/R  9600  8  None  1	Vak S485-COMA v v v	ie	

(3) 🚝 Select Object ? Navigate to the SmartDrivers folder, click Driver, and then click the Interface Manager LicenseManager Select button. LonWorks Binding Profile Modules Notification Files Performance Ports
Progress Manager
Report Manager Semantics SmartDrivers 🗟 Driver Tasks Time Settings

#### Lock path Path ~/System/SmartDrivers/Driver

Upgrade History

4

After the **Port reference** box, click the ... button.

Select Cancel

Continued

#### To Set the Connection Details



(6)

#### In the Baud rate box, select 9600.

(7)

In the Data bits box, select 8.

(8)

#### In the Parity box, select None.

(9)

In the Stop bits box, select 1.

The Esmi SmartDriver communicates with the Esmi fire detection panel through an RS-485 port on the automation server (INFO line).

## Licensing

#### To Add a Demo License to the Automation Server

 $(\mathbf{1})$ 

Download the SmartDriver Esmi Fire Demo license.

2

Open Device Administrator.



Continued

#### To Add a Demo License to the Automation Server

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Click Entitlements.			
Building Operation Device Administrator			- 🗆 X
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+ Add Server 🕸 SSL Root Certificate 🕸 Ser	ver SSL Certificate Defaults (ඉි Si	te Specific Password	Show licenses
Name Connection Pr	oduct ID Software version State		Progress License status
Esmi FDP Demo ssh://11.111.11.11:11 A	S-P 3.2.3.9005 Rea	dy	

**(4**)

#### Click Add Demo License.

🐼 Buil	ding Operation Device	e Administrator						- 🗆 ×
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Serve	rs Entitlemer	ıts						
+ /	Add Entitlement	Add Demo License						Show licenses
	Name	Connection	Product ID	Software version	State		Progress	License status
	Esmi FDP Demo	ssh://11.111.11.11:11	AS-P	3.2.3.9005	Ready			8

(5)

In the **Open** dialog box, navigate to the folder with the SmartDriver Esmi Fire Demo license.

## 6

Click the SmartDriver Esmi Fire Demo license.

# $(\mathbf{7})$

Click the **OK** button.

The demo license is now displayed.

## (8)

#### In Device Administrator, click Servers.

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Continued

#### To Add a Demo License to the Automation Server

#### (9)

#### Select the Show licenses check box.

Building Operation Device Administrator				- 🗆 ×
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Servers Entitlements				
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Name     Connection	Product ID Software version	State	Progress	License status
Esmi FDP Demo ssh://11.111.11.11:11	AS-P 3.2.3.9005	Ready		8

## 10

#### Expand License status.

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	Demo			ø		ů	ů	©	Ö	S	

## (11)

Select the **Assign** check box.

## (12)

In the Activate Demo License box, click the Yes button.

(13)

#### In the Demo License activated dialog box, click the OK button.

The demo license is added and the License status is updated.

#### To Add a License to the Automation Server

## (1)

Open Device Administrator.



Continued

#### To Add a License to the Automation Server

(2)

#### Click Entitlements.

Building Operation Device Administrator			- 🗆 ×
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Esmi FDP Demo ssh://11.111.11.11:11 AS-P	3.2.3.9005 Ready		

## 3

#### Click +Add Entitlements.

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# 4

In the Add Entitlement dialog box, enter the entitlement ID:

- In the Entitlement ID box, type the entitlement ID.
- Click the Add Entitlement from file button.

## (5)

Click the **OK** button.

## 6)

#### Click Servers.

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Continued

#### To Add a License to the Automation Server

## (7)

Select the Show licenses check box.

Building Operation Device Administrator         Device Administrator	Server state V Ok	License status           S         License violation		- 🗆 X
Servers Entitlements				
+ Add Server 🕸 SSL Root Certificate	② Server SSL Certificate Defaults	l Site Specific Password	$\mathbf{k}$	Show licenses
Name     Connection	Product ID Software version	State	Progress	License status
Esmi FDP Demo ssh://11.111.11.11	:11 AS-P 3.2.3.9005	Ready	]	8

## (8)

Select the automation server check box.

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# 9

#### Expand License status.

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## 10

In the Assign box, type '1'.

Continued

#### To Add a License to the Automation Server

#### (11)

#### In the Activate Licenses box, select Online.

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## (12)

#### In the Activate Licenses dialog box, click the OK button.

The license status violation is now resolved.

#### To Deactivate a Demo License

(1)

Open Device Administrator.

2

#### Clear the **Assign** check box.

Building Operation Device Administrator								l X
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(3)

In the Deactivate Demo License dialog box, click the Yes button.

The demo license is deactivated and the license status is updated.

#### To Return a License from the Automation Server

1

Open Device Administrator.

## 2

#### Select the Show licenses check box.

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#### Select the automation server check box.

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#### 4

#### Expand License status.

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Name     Connec	ction State	Progress	License status SmartDriv	ers SNMP Notifications	Personal Dashboards	TimescaleDB	MQTT Read/Write	
Esmi FDP Demo ssh://1	11.111.11.11:11 Ready		■ <b>♥</b> 🔿 1(1	) 0(0)	0(0)	0(0)	0(0)	
Product name		Available	Assign SmartDr	ivers SNMP Notifications	Personal Dashboards	TimescaleDB	MQTT Read/Write	
SmartDriver Esmi Fire EN54		5	0 1	0	0	0	0	

(5)

In the Assign box, type the number of licenses that you want to return.

Continued

#### To Return a License from the Automation Server

#### 6)

#### In the Activate Licenses box, select Return Licenses.

🞯 Bui	Iding Operation Device	Administrator								— C	
De ⊡ ₪	vice Adminis ∃ 🛛 🗣 🔁 🕹	strator <i>i</i> ?	Sen	ver state ) Ok	Licens	e status Ok					
Serve	ers Entitlemen	ts									
	Add Server Ad	ctivate Licenses						<ul><li>Curi</li><li>Edit</li></ul>	rent state ed state	🗸 Show	licenses
	Name	Connection	State	Progress	License status	SmartDrivers	SNMP Notifications	Personal Dashboards	TimescaleDB	MQTT Read/Wri	te
	Esmi FDP Demo	ssh://11.111.11.11:11	Ready			1(1)	0(0)	0(0)	0(0)	0(0	))
	Product name			Available	Assign	SmartDrivers	SNMP Notifications	Personal Dashboards	TimescaleDB	MQT Read/W	T /rite
	SmartDriver Esmi Fir	e EN54		5	1	1	0	0	0	0	

7

In the Return All Licenses dialog box, click the Yes button.

## AS EN 54 Configurator Tool

#### Overview

The AS EN 54 Configurator Tool is a Windows application where you create the EcoStruxure Building Operation interface, devices, values, alarms, graphics and bindings that represent the Esmi fire detection system. You can import Esmi FDP and FX 3NET configuration files and see the fire panels, loops and devices. In the AS EN 54 Configurator Tool you can import floor plan drawings and convert them to a format compatible with EcoStruxure Building Operation TGML graphics.

In the AS EN 54 Configurator Tool you can create a TGML floor plan graphic, along with TGML graphic components representing the fire detection panel status, loop status, zone status and device status.

#### Installing the AS EN 54 Configurator Tool

The AS EN 54 Configurator Tool is available as a Windows Installer package.

#### To install the AS EN 54 Configurator Tool

**IMPORTANT**: Uninstall any previous version of the AS EN 54 Configurator Tool before installing this version.

1

In File Explorer, navigate to AS EN54 Configurator Tool 1.1.0.exe and double-click it.



Continued



Click I accept the terms in the license agreement.

(5)

Click the Next button.



Continued

To install the AS EN 54 Configurator Tool		
6	🕼 AS EN54 Configurator Tool - InstallShield Wizard	×
On the <b>Customer Information</b> page, in the <b>User Name</b> box, type your user name.	Customer Information Please enter your information.	と
	User Name: Administrator Organization: Schneider Electric	Next > Cancel

(7)

In the Organization box, type your organization.

(8)

Click the Next button.

(9)	👷 AS EN54 Conf	igurator Tool - InstallShield Wizard	×
On the <b>Setup Type</b> page, click <b>Complete</b> .	Setup Type Choose the set	up type that best suits your needs.	と
	Please select a	setup type.	
	Complete	All program features will be installed. (Requires the most	disk space.)
	Custom	Choose which program features you want installed and w be installed. Recommended for advanced users.	vhere they will
	InstallShield	< Back Next >	Cancel

### (10)

Click the Next button.

Continued

To install the AS EN 54 Configurator Tool						
(1) On the <b>Ready to Install the Program</b> page, click the <b>Install</b> button.	AS EN54 Configurator Tool - InstallShield Wizard × Ready to Install the Program The wizard is ready to begin installation					
	InstallShield					
	AS EN54 Configurator Tool - InstallShield Wizard					
On the <b>InstallShield Wizard Completed</b> page, click the <b>Finish</b> button. The AS EN 54 Configurator Tool is installed in C:\Program Files (x86)\Schneider Electric\AS EN54 Configurator Tool.	InstallShield Wizard Completed The InstallShield Wizard has successfully installed AS EN54 Configurator Tool. Click Finish to exit the wizard.					
	< <u>B</u> ack <u>Einish</u> Cancel					

#### Using the AS EN 54 Configurator Tool

The AS EN 54 Configurator Tool has tabs at the top of the window. These relate to the main functions in the application.

• Project View

Manage projects and view project information.

Floorplan Files

Import floor plans and select which floor plan to edit.

• Component Style

Select a set of device icons.

• EcoStruxure Layout Creator

Import a configuration and select devices for the active floor plan. Create the EcoStruxure Building Operation graphics and bindings.



Electric

To Create Projects								
1								
L. L	Δ.							
On the <b>Project View</b> tab, click the <b>Create New Project Template</b> button	= <u>0</u>							
/ J AS ENS4 Fire Configurator							- Sebra	a ×
AS EN54 Fire Configurator								lectric
Project view Proorpan Files Component Style Ecostructure Layout Creator								
Project List	Total Daviana	Tetel RACent	Tetal Set	Ladulas Tata	Outrute	Project Summary		V Calcadul
Project Name CAUsers/Project/Pro/AppData/Roaming/ENS4FDS_Project/Project/	0 0	Total BAChet	0	0	0	0	0	0
	<							>
					Device Li:	st Summary for Selected Flo	orplan	
	Panel	Zone	Loop	Device	Floor	BACnet Read	BACnet Write	Output
Floorplan Summary List for Selected Project Floorplan Name Floorplan Path								
	×							>

# 2

In the EN54 Create Project dialog box, in the Name box, type a name for the project.

Continued

# To Create Projects ③ Click the Create button. The project is listed in the Project List pane. The project files are stored in C:\Users\[user name]\AppData\Roaming\EN54FDS\_Projects\[project name]. ASBMS fire Configurator Base Not Fire Configurator Project List </tr

		-							
		<							
						Device L	ist Summary for Selected Fl	oorplan	
		Panel	Zone	Loop	Device	Floor	BACnet Read	BACnet Write	Outp
		-							
		- I							
	Floorplan Summary List for Selected Project								
Floorplan Name	T Floorplan Path								
		<							

## To Import Floor Plans

ⓓ

On the  $\ensuremath{\text{Project View}}$  tab, make sure that you have selected the intended project.



Continued

To Import Floor Plans				
2		-	<b>N</b>	
On the <b>Floorplan Files</b> tab, cl	ick the Import and Convert PNG or DW	G floorplan drawing button Ż		
AI AS ENS4 Fire Configurator Em@trucere AS EN54 Fire Configurator				- a × Schneider Blectric
Project View Floorplan Files Component Style EcoStruxure	Layout Creator			
Floorplan Name	Selected Floorplan			

#### Continued

#### **To Import Floor Plans**

## 3

#### In the **Open** dialog box, select either \*.dwg or \*.png.

🖞 Open				×
$\leftarrow$ $\rightarrow$ $\checkmark$ $\bigstar$ This PC $\Rightarrow$ D	ocuments		ٽ ~	, ○ Search Documents
Organize 🔻 New folder				E 🕶 🔟 (
OneDrive - Schneider Electric	Name	Date modified	Туре	Size
Schneider Electric	Adobe	08/07/2022 14:26 24/01/2023 15:13	File folder File folder	
This PC	Custom Office Templates	11/07/2022 15:20 08/07/2022 13:04	File folder File folder	
Desktop	My Pictures	08/07/2022 13:04 08/07/2022 13:04	File folder File folder	
<ul> <li>Documents</li> <li>Downloads</li> <li>Music</li> <li>Pictures</li> <li>Videos</li> <li>Windows (C:)</li> <li>Network</li> </ul>				
File <u>n</u> ame:			~	PNG(*.png) CAD(*.dwg) PNG(*.png)
(4)				

Select the file that you want to import.



Continued

#### **To Import Floor Plans**

#### (5)

Click the **Open** button.

The floor plan is listed in the **Floorplans** pane.

The floor plan files are stored in C:\Users\[user name]\AppData\Roaming\EN54FDS\_Projects\[project name]\CAD.



#### To Select a Set of Device Icons

#### 1

On the Project View tab, make sure that you have selected the intended project .

#### Continued

#### To Select a Set of Device Icons

(2)

On the Component Style tab, in the Available TGML Component Styles pane, click the set of device icons that you want to use.

When you click a set of device icons, the selection is immediately saved to the project. You can change the set of device icons at any time. The set of device icons that is currently selected is used when the Graphics are created in EcoStruxure Building Operation.

In the Standard Component List for Selected Style pane, the available icon types are listed.

In the Variant Component List for Selected Style pane, icon alternatives are listed for Swedish Components. In the Variant Device Type and the Component Name, EN stands for encapsulated (ingress protection - IP) and HI stands for hidden (concealed).

AS EN54 Fire Configurator						
Project View Floorplan Files Compo	onent Style EcoStruxure Layou	rt Creator				
	Availa	able TGML Compone	ent Styles			Standard Component List for Selected Style
Style Name	T		Style Path	Device Type	Component Name	Component Path
Default Components	C:\Users\DefaultDe	ef \AppData\Roaming\E	EN54FDS\Default Components	SOUNDER_BEACC	DN FDS TGML BEACON SOUNDER TEMPLATE V2.2.0.1.TGM	IL C:\Users\SwedishSw \AppData\Roaming\EN54FDS\Swedish Components\FDS TGML BEACON SG
Swedish Components	C:\Users\SwedishS	w \AppData\Roaming\E	EN54FDS\Swedish Components	BEACON	FDS TGML BEACON TEMPLATE V2.2.0.1.TGML	C:\Users\DefaultDef \AppData\Roaming\EN54FDS\Swedish Components\FDS TGML BEACON TF
				MANUAL_CALL	FDS TGML CALLPOINT TEMPLATE V2.2.0.1.TGML	C:\Users\DefaultDef \AppData\Roaming\EN54FDS\Swedish Components\FDS TGML CALLPOINT
				DETECTOR	FDS TGML DETECTOR TEMPLATE V2.2.0.1.TGML	C:\Users\DefaultDef \AppData\Roaming\EN54FDS\Swedish Components\FDS TGML DETECTOR
				HEAT_DETECTOR	FDS TGML HEAT TEMPLATE V2.2.0.1.TGML	C:\Users\DefaultDef \AppData\Roaming\EN54FDS\Swedish Components\FDS TGML HEAT TEMP
				INPUT	FDS TGML IO TEMPLATE V2.2.0.1.TGML	C:\Users\DefaultDef \AppData\Roaming\EN54FDS\Swedish Components\FDS TGML IO TEMPLA
				MULTI_DETECTOR	FDS TGML MULTI TEMPLATE V2.2.0.1.TGML	C:\Users\DefaultDef \AppData\Roaming\EN54FDS\Swedish Components\FDS TGML MULTI TEN
				SMOKE_DETECTO	R FDS TGML SMOKE TEMPLATE V2.2.0.1.TGML	C:\Users\DefaultDef \AppData\Roaming\EN54FDS\Swedish Components\FDS TGML SMOKE TEP
				SOUNDER	FDS TGML SOUNDER TEMPLATE V2.2.0.1.TGML	C:\Users\DefaultDef \AppData\Roaming\EN54FDS\Swedish Components\FDS TGML SOUNDER '
	Se	elected Component (	Style			Variant Component List for Selected Style
		Component Visua		Variant Devi	ce Type Component Name	T Component Path
				HEAT_EN_HI_DET	ECTOR FDS TGML HEAT EN HI TEMPLATE V2.2.0.1.TGM	IL C:\Users\Swedish Sw \AppData\Roaming\EN54FDS\Swedish Components\FDS TGML HE
During her	Not encapsulated	Not encapsulated	Encapsulated Encapsulated	HEAT_EN_DETECT	ECTOR FDS TGML HEAT EN HI TEMPLATE V2.2.0.1.TGM OR FDS TGML HEAT EN TEMPLATE V2.2.0.1.TGML	L C.\Users\SwedishSw.\AppData\Roaming\EN54FDS\Swedish Components\FDS TGML HE C.\Users\DefaultDef \AppData\Roaming\EN54FDS\Swedish Components\FDS TGML HE
Device typ	pe Not encapsulated (default)	Not encapsulated (hidden)	Encapsulated Encapsulated (hidden)	HEALEN_HL_DEI HEAT_EN_DETECT HEAT_HL_DETECT	ECTOR         FDS TGML HEAT EN HI TEMPLATE V2.2.0.1.TGM           OR         FDS TGML HEAT EN TEMPLATE V2.2.0.1.TGML           DR         FDS TGML HEAT HI TEMPLATE V2.2.0.1.TGML	L CAUsers/SwedishSw (AppData/Roaming)ENS4FDS/Swedish Components/FDS TGML HE CAUsers/DefaultDef (AppData/Roaming)ENS4FDS/Swedish Components/FDS TGML HE CAUsers/DefaultDef (AppData/Roaming)ENS4FDS/Swedish Components/FDS TGML HE
Device typ Heat detec	pe Not encapsulated (default) ector 🛞	Not encapsulated (hidden)	Encapsulated Encapsulated (hidden)	HEAT_EN_HUEI HEAT_EN_DETECT HEAT_HUDETECT MULTI_HUDETECT	ECTOR         FDS TGML HEAT EN HI TEMPLATE V2.2.0.1.TGM           OR         FDS TGML HEAT EN TEMPLATE V2.2.0.1.TGML           DR         FDS TGML HEAT HI TEMPLATE V2.2.0.1.TGML           FDS TGML HEAT HI TEMPLATE V2.2.0.1.TGML         FDS TGML HEAT HI TEMPLATE V2.2.0.1.TGML           FOR         FDS TGML MULTI HI TEMPLATE V2.2.0.1.TGML	L CNUsers/Swedish/Swi AppData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE CNUsers/Default/Def VAppData/Roaming/ENS4FDS/Swedish/Components/FDS TGML HE CNUsers/Default/Def VAppData/Roaming/ENS4FDS/Swedish/Components/FDS TGML HE CNUsers/Default/Def VAppData/Roaming/ENS4FDS/Swedish/Components/FDS TGML HE
Device typ Heat detec Smoke	pe Not encepsulated (default) sctor X	Not encapsulated (hidden)	Encapsulated Encapsulated (hidden)	HEAL_IN_HUBEI HEAT_EN_DETECT HEAT_HUDETECT MULT_HUDETECT SMOKE_HUDETEC	ECTOR         FDS TGML HEAT EN HI TEMPLATE V2.20.1.TGM           OR         FDS TGML HEAT EN TEMPLATE V2.20.1.TGML           DR         FDS TGML HEAT HI TEMPLATE V2.20.1.TGML           TOR         FDS TGML HEAT HI TEMPLATE V2.20.1.TGML           TOR         FDS TGML MULTI HI TEMPLATE V2.20.1.TGML           TOR         FDS TGML SMOKE HI TEMPLATE V2.20.1.TGML	LL C.N.Users/Swedish Swi AlppData/Roaming/ENS4FDS/Swedish Components/FDS TOML HE C.N.Users/DefaultDef VAppData/Roaming/ENS4FDS/Swedish Components/FDS TOML HE C.N.Users/DefaultDef VAppData/Roaming/ENS4FDS/Swedish Components/FDS TOML HE C.N.Users/DefaultDef VAppData/Roaming/ENS4FDS/Swedish Components/FDS TOML SM C.N.Users/DefaultDef VAppData/Roaming/ENS4FDS/Swedish Components/FDS TOML SM
Device type Heat detex Smoke Multicriter	pe Not encapsulated (default) actor & arria Q F	Not encapsulated (hidden)	Encapsulated Encapsulated (hidden)	HAALEKUHUDET HEALEN, DETECT HAT_HU, DETECT MULTI, HU, DETECT SMOKE, HU, DETECT	ECTOR         FDS TGML HEAT EN HI TEMPLATE V2.20.1.TGM           OR         FDS TGML HEAT EN TEMPLATE V2.20.1.TGML           DR         FDS TGML HEAT HI TEMPLATE V2.20.1.TGML           OR         FDS TGML MULTI HI TEMPLATE V2.20.1.TGML           TOR         FDS TGML SMOKE HI TEMPLATE V2.20.1.TGML	LL C.(Users)Swedish Sw VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE. C.(Users)DefaultDef VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE. C.(Users)DefaultDef VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE. C.(Users)DefaultDef VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML SM C.(Users)DefaultDef VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML SM
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Device by: Heat dete Smoke Multicriter ID Modulic Call point	Pr Not encapsulated (default) ector X tria Q tria Q tr D	Not encapsulated (hidden) X D D F	Encapsulated Encapsulated (hidden)	HEAD SWITLIGE HEAT SW, DETECT HEAT JH, DETECT MULT, H, DETECT SMOKE, H, DETEC	RETOR         FDS TGML HAZ IN HITEMPLATE V22.0.1TGM           OR         FDS TGML HAZ IN THEMPLATE V22.0.1TGML           DR         FDS TGML HAZ IN THEMPLATE V22.0.1TGML           DR         FDS TGML HAZ IN THEMPLATE V22.0.1TGML           DR         FDS TGML MALT IN THEMPLATE V22.0.1TGML           TOR         FDS TGML SMOKE HI TEMPLATE V22.0.1TGML           TOR         FDS TGML SMOKE HI TEMPLATE V22.0.1TGML	L Cr.Users/Swedish/Sw KAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML, HE Cr.Users/Default/Def VAppData/Roaming/ENS4FDS/Swedish Component/FDS TGML, HE Cr.Users/Default/Def VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML KU Cr.Users/Default/Def VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML MU Cr.Users/Default/Def VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML SM
Device by Heat dete Smoke Multicriter 10 Module Call point Zone	PE Not encapsulated (default) sector X ria Q F le A t D o	Not encapsulated (hidden) X D D F	Encapsulated Encapsulated (hidden)	HEAD SWITLIGE HEAT SW, DETECT HEAT JH, DETECT MULT, H, DETECT SMOKE, H, DETEC	ECTOR FD5 TGML HAZ TR NH TEMPLATE V22.0.1TGM OR FD5 TGML HAZ TR IN THEMPLATE V22.0.1TGML DR FD5 TGML HAZ TN INTEMPLATE V22.0.1TGML DR FD5 TGML MULTH IN TEMPLATE V22.0.1TGML TGR FD5 TGML SMOKE HI TEMPLATE V22.0.1TGML TGR FD5 TGML SMOKE HI TEMPLATE V22.0.1TGML	L CNJsenSwedish Sin VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE/ CNJsen/Defuil/EH (AppData/Roaming/ES/4FDS/Swedish Components/FDS TGML HE/ CNJsen/Defuil/EH/CNJSENSMIP/ES/4FDS/Swedish Components/FDS TGML HU C/USen/Defuil/Def VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML MU C/USen/Defuil/Def VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML SM
Device by Heat dete Smoke Multicrite 10 Module Call point Zone Sounder	Not encansulated (default)           sector         X           initial         Q	Not encapsulated (hidden)	Incepseleted Encepseleted (index)	HEAD SWITLIGE HEAT SW. DETECT HEAT JH, DETECT MULT, H, DETECT SMOKE, H, DETEC	ECTOR FD5 TGML HAZ TR NH TEMPLATE V22.0.1TGM OR FD5 TGML HAZ TR INTEMPLATE V22.0.1TGML DR FD5 TGML HAZ TH INTEMPLATE V22.0.1TGML DR FD5 TGML MULTI HI TEMPLATE V22.0.1TGML TGR FD5 TGML SMOKE HI TEMPLATE V22.0.1TGML TGR FD5 TGML SMOKE HI TEMPLATE V22.0.1TGML	LL CNJsens/Swedish Sw NappData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE CNJsens/Default/EH (AppData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE CNJsens/Default/EH (AppData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE CNJsens/Default/Def /AppData/Roaming/ENS4FDS/Swedish Components/FDS TGML MU CAUsens/Default/Def /AppData/Roaming/ENS4FDS/Swedish Components/FDS TGML SM
Device by Heat dete Smole Multicriter IO Modulo Call point Zone Sounder Beacon	Not encrysulated (default)           sector         X           Image: I	Note encapsulated (hidden)	Encapsulated         Encapsulated (index)           Image: Second seco	HEAD SWITLIGE HEAT SW. DETECT HEAT JH, DETECT MULT, HI, DETECT SMOKE, HI, DETEC	ECTOR FDS TOML HEAT EN HITEMPLATE V22.0.1TGM FDS TOML HEAT EN HITEMPLATE V22.0.1TGM DR FDS TOML HEAT EN HITEMPLATE V22.0.1TGML DR FDS TOML MULTI HITEMPLATE V22.0.1TGML TOR FDS TOML SMOKE HI TEMPLATE V22.0.1TGML	LL CNJsens/Swedish Sw VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE CNJsens/Default/Def VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE CNJsens/Default/Def VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE CNJsens/Default/Def VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML MU CNJsens/Default/Def VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML SM
Device fyr Heat dete Smoke Multicriter IO Moduli Call point Zone Sounder Beacon Sounder	Not encrysulated (default)           sector         X           Image: Constraint of the sector of t	Not encapsulated (bilden)	Encapsulated Encapsulated (https://www.inter- inter	HEAD SWITLING HEAT JHL DETECT HEAT JHL DETECT MULTI, HL DETECT SMOKE, HL DETEC	ECTOR FD5 TGML HEAT EN HITEMPLATE V22.0.1.TGM FD5 TGML HEAT EN HITEMPLATE V22.0.1.TGML DR FD5 TGML HEAT HITEMPLATE V22.0.1.TGML FD5 TGML MULTI HITEMPLATE V22.0.1.TGML TGR FD5 TGML SMCKE HITEMPLATE V22.0.1.TGML	LL CNJsenSwedishSw VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE CNJsen/DefaultDef VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE CNJsen/DefaultDef VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML HE CNJsen/DefaultDef VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML MU CNJsen/DefaultDef VAppData/Roaming/ENS4FDS/Swedish Components/FDS TGML SM

#### To Import Configuration Files and Create Floor Plan Selections

BACnet Write allows full integration between third party systems and fire detection systems.

# **WARNING**

#### COMPROMISED FUNCTIONALITY

- · Only enable BACnet Write if it is necessary.
- Make sure that your configuration prevents any unwanted third party operations in the fire detection system.

Failure to follow these instructions can result in death, serious injury, or equipment damage.



Also refer to the Hardening Guidelines in the EcoStruxure Building Operation IT Reference Guide.

# **WARNING**

#### COMPROMISED FUNCTIONALITY

Make sure that enabling Output control is permitted in your area.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Output control can be subject to legislation and/or regulation.

The table below shows the correlation between selections in the Configurator Tool and SmartDriver/BACnet points in EcoStruxure Building Operation.

AS EN 54 Configurator Tool Selection	SmartDriver Points	BACnet Points
None	Smart Driver Control Point	_
	Panel Alarm Status	
	Panel Fault Status	
	FXNet Comms Status Point	
	Panel Reset Silence Command	
	Loop X Status	
	Loop X Update	
	Loop X Disable	
	Zone X Status	
	Zone X Disable	
	Loop X Detector Y Status	
	Loop X Detector Y Value	
	Loop X Detector Y Disable	
	Loop X Detector Y Contamination	
BACnet Read	_	Panel Alarm Status
		Panel Fault Status
		FXNet Comms Status Point
		Loop X Status
		Zone X Status
		Zone X Status
		Loop X Detector Y Status
		Loop X Detector Y Value
		Loop X Detector Y Contamination

Schneider Gelectric

#### Continued

AS EN 54 Configurator Tool Selection	SmartDriver Points	BACnet Points
BACnet Write	Panel Reset Silence BACnet Write Command	Panel Alarm Status
	Smart Driver BACnet Write Control Point	Panel Fault Status
	Loop Update BACnet Write Command	FXNet Comms Status Point
	Zone X BACnet Disable	Loop X Status
	Loop X Detector Y BACnet Disable	Smart Driver BACnet Write Control Point
		Panel Reset Silence BACnet Write Command
		Loop X Update BACnet Write command
		Zone X BACnet Disable
		Loop X Detector Y BACnet Disable
Output	Loop X Output Y Command	-
Schedule	Loop X Schedule Update	_
	Zone X Schedule Disable	
	Loop X Detector Y Schedule Disable	
Output	Loop X Output Y Schedule Command	_
Schedule		

Each address included in the Floorplan Selection in the Configurator Tool has a Detector object in EcoStruxure Building Operation. If Output is selected in the Configurator Tool, the address also has an Output object in EcoStruxure Building Operation. For example, 'Loop 1 Detector 11' and 'Loop 1 Output 11' have the same address.



		,				
DP Demo 🕨 AS EN54	FIRE Interface  AS EN54 NETWORK  ESMI Panel	1 * Zone 2 *			Y Search	C
- ū ×	Zone 2 ×					
	Ç 匝 ∵ ☆ • 智 Quick filter					
1	Name	Description				l.
BACnet Interface	Loop 1 Detector9 Bacnet Disable	No Name				
Graphics	Loop 1 Detector9 Contamination	No Name				
interface (	Loop 1 Detector9 Disable	No Name				
ETWORK	Loop 1 Detector9 Status	No Name				
Il Panel 1 Alarms	Loop 1 Detector9 Value	No Name				
e1	Loop 1 Detector Backbourd Disable	No Name				
e 2	S Loop 1 Detector11 Bacnet Disable	No Name				
e 3 Reports	Loop 1 Detector11 Contamination	No Name				
/	Loop 1 Detector11 Disable	No Name				
	Loop 1 Detector11 Status	No Name				
	Loop 1 Detector11 Value	No Name				
	Noop 1 Detector11Schedule Disable	No Name				
	Loop 1 Deteutor is passiet Disable	No Name				
	Loop 1 Detector12 Contamination	No Name				
	Loop 1 Detector12 Disable	No Name				
	Loop 1 Detector12 Status	No Name				
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2023-04-21 14:36:21 E	smi FDP Demo /Esmi FDP Demo		System warm start 2023-04-26 09:08:15	System alarm		

Address with Output

1

On the Project View tab, make sure that you have selected the intended project.

(2)

On the Floorplan Files tab, make sure that you have selected the intended floor plan.

3

On the Component Style tab, make sure that you have selected the intended set of device icons.



#### Continued

4)	
On the <b>EcoStruxure Layout Creator</b> tab, click the <b>C</b>	Ppen Esmi Config File button 6
CI AS BNSFire Configurator EmgDenses AS ENSF4 Fire Configurator Project View Floorplan Files Component Style EcoStruxure Layout Creator  Project View Floorplan Files Component Style EcoStruxure Layout Creator  From COS	-
Current Project: C:\Users\Project2Pro\AppData\Roaming\EN54FDSProjects\Project2	Current Style: C\Users\Project2Pro\AppData\Roaming\EN54FDS\Swedish Components
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#### Continued

## (5)

In the **Open** dialog box, select either Esmi FDP (\*.json) or FX 3NET (\*.fx3).

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Schneider Electric       CAD         This PC       Schneider Electric         3D Objects       Esmi         Desktop       Documents         Documents       Documents         Music       Pictures	15/04/2023 10:24 15/04/2023 10:12 15/04/2023 09:58	File folder File folder File folder	
Image: Videos         Image: Windows (C:)         Image: Provide the second sec		Esmi FDP(*.json) Esmi FDP(*.json)	

# 6)

Navigate to the folder with the configuration file that you want to import.

# 7

Click the configuration file that you want to import.



Continued

#### (8)

Click the **Open** button.

In the Panel HMI List pane, fire detection panels without loop devices are listed.

In the Esmi Device List pane, the loop devices are listed.

If you import another configuration, the devices in the Panel HMI List and the Esmi Device List panes are replaced.

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#### Continued

#### (9)

In the Esmi Device List pane, select the devices that you want to include on the floor plan.

The floor plan is displayed in the Current Floorplan Image pane.

You can include devices on multiple floor plans. When the EcoStruxure Building Operation Interface is created, the points are checked against existing points. Any existing points are reused.

Click the filter buttons **I** in the column headers to limit or sort the list.

Select the check box in the left column header to select all listed devices.

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#### Continued

#### (10)

Click the lower right arrow to add the selected devices to the floor plan.

The floor plan selection is automatically saved when you click the right arrow.

The floor plan selection is stored in C:\Users\[user name]\AppData\Roaming\EN54FDS\_Projects\[project name]\Config\Floorplans.

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#### (1)

In the Floorplan Selection pane, select the BACnet Read, BACnet Write, Output, and Schedule check boxes as required.

For output commands to work, either the **Output function** must be set to **External logic output**, or **External Or** must be set to **Yes** for the loop device in the FDP/FX 3NET configuration.

You can freely select **BACnet Read** and **BACnet Write** check boxes. However, the number of BACnet values is limited in the AS EN 54 Configurator Tool. Only the permitted number of BACnet values are created.

In the Variant Device Type box, select an alternative icon if required and available.

To remove devices from the Floorplan Selection pane, select devices and click the left arrow.

NOTE: All unsaved check box selections are cleared when you remove devices from the Floorplan Selection pane.

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## (12)

In the Panel HMI List pane, select the HMI check boxes for fire detection panels that should be represented on the floor plan.

Only fire detection panels without loop devices, used as fire brigade panels, are listed in the Panel HMI List pane.

Fire detection panels that have loop devices on the floor plan are automatically represented on the floor plan.

(13)

Click the upper right arrow.

The floor plan HMI selection is automatically saved when you click the right arrow.

The floor plan HMI selection is stored in C:\Users\[user name]\AppData\Roaming\EN54FDS\_Projects\[project name]\Config\Hmis.



Continued

14

Click the Save Selection for Current Floorplan button


- Ø

# SmartDriver Kit Commissioning and Integration Guide

#### To See How Much of the Automation Server Capacity the Project Uses

### 1

On the Project View tab, in the Project Summary pane, scroll to the right to see how much of the Automaton Server capacity that the project uses.

AS EN54 Fire Configurator	
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AS EN54 Fire Configurator	

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#### To Set the Access Level 3 Code

Set the access level 3 code for the main Esmi fire detection panel.



### 1

### On the EcoStruxure Layout Creator tab, click the Options button



### 2

In the EN54 Options dialog box, in the Access Level 3 Code box, type the access level 3 code.

### 3

Click the Save Panel Code button to save the code to the project.

The access level 3 code is then sent to the automation server when the interface is created.

You can click the Update Panel Code button to send the saved code to the automation server immediately.

NOTE: The saved code is sent to the automation server if you have typed a new code in the Access Level 3 Code box and then click the Update Panel Code button. You must click the Save Panel Code button first to send a new access level 3 code to the automation server.

### 4

Click the X in the upper right corner to close the dialog box.



#### To Select the System Tree Structure in EcoStruxure Building Operation

### ⓓ

On the EcoStruxure Layout Creator tab, click the Options button



### (2)

In the EN54 Options dialog box, under Create EcoStruxure Zone Folders, choose the System Tree structure in EcoStruxure Building Operation:

- Select the check box for new floor plan selections, and for updates of existing interfaces that have a zone folder structure in the **System Tree** in EcoStruxure Building Operation.
- Clear the check box for updates of existing interfaces with a flat System Tree structure in EcoStruxure Building Operation.

**IMPORTANT:** If you add a zone folder structure to a flat or customized **System Tree** structure in EcoStruxure Building Operation, it results in duplicate **System Tree** structures: a flat or customized structure as well as a structure with zone folders.

### 3

Click the Save Folder Option button.

4

Click the X in the upper right corner to close the dialog box.

#### To Create the EcoStruxure Building Operation Interface and Graphics



BACnet Write allows full integration between third party systems and fire detection systems.

### **WARNING**

### COMPROMISED FUNCTIONALITY

- Only enable BACnet Write if it is necessary.
- Make sure that your configuration prevents any unwanted third party operations in the fire detection system.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Also refer to the Hardening Guidelines in the EcoStruxure Building Operation IT Reference Guide.

### A WARNING

### COMPROMISED FUNCTIONALITY

Make sure that enabling Output control is permitted in your area.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Output control can be subject to legislation and/or regulation.

1

On the Project View tab, make sure that you have selected the intended project.

(2)

On the Floorplan Files tab, make sure that you have selected the intended floor plan.

3

On the Component Style tab, make sure that you have selected the intended set of device icons.

Continued

### (4)

### On the EcoStruxure Layout Creator tab, click the Create EcoStruxure Configuration button

IMPORTANT: Secure HTTPS communication is required. A security certificate is necessary for the AS EN 54 Configurator Tool to connect to the automation server and generate the EcoStruxure Building Operation Interface. For more information, see further below.



### (5)

If applicable, accept the control warnings or cancel and edit your floor plan selection:

• In the EN54 Output Control Warning dialog box, click the OK or Cancel button.

In the EN54 BACnet Control Warning dialog box, click the OK or Cancel button. ٠

### **(6)**

In the AS EN54 FIRE CONFIGURATOR Logon dialog box, in the User Name box, type your user name.

### (7)

In the Password box, type your password.

### (8)

In the Server IP Address box, type the automation server's IP address.

IMPORTANT: Enter the IP address in the format IP:PORT, e.g. 192.168.1.99:443.



Continued

9

Click the Log on and Create Interface button.

A dialog box confirms that the EcoStruxure Building Operation Interface and Graphics have been created.

To Export Projects								
1								
On the <b>Project View</b> tab, in the <b>Project List</b> pane, click the project that yo	u want to	o export.						
(2)								
On the toolbar, click the <b>Export Selected Project</b> button								
(2) AS ENSA Fire Configurator Em/Drunaw							Schn	eider
AS EN54 Fire Configurator Project View Floornan Files Component Shile EcoStructure Laurut Creator							0	lectric
Project List						Project Summary		
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	<							>
		_			Device List St	immary for Selected Flo	porplan	
	Panel	Zone	Lоор	Device	Floor	BACnet Read	BACnet Write	Output
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Floorplan Name T								
	<							>

3

In the EN54 Export Project dialog box, click the Export button.

4

In the Save As dialog box, navigate to a folder.

(5)

In the File name box, type a name for the exported project.

The data associated with the selected project is

overwritten with the imported project.

### SmartDriver Kit Commissioning and Integration Guide

Continued

#### **To Export Projects**

**(6**)

Click the Save button.

#### **To Import Projects**

### NOTICE

#### PROJECT FILES REPLACED

On the Project View tab, in the Project List pane, select a new project or a project that is dispensable.

Failure to follow these instructions can result in loss of data.

1

On the **Project View** tab, on the toolbar, click the **Create New Project Template** button if applicable.

Al AS EN54 Fire Configurator EcoOftonere AS EN54 Fire Configurator								Schn	eider
Project View Floorplan Files Component style	Ecostruxure Layout Creator								
	Device the					D	ala at Commence		
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		<				D. J. Hard	6.61.1.15		>
		Panel	Zone	Loon D	evice	Floor B	ACnet Read	BACnet Write	Output
	Floorplan Summary List for Selected Project								
Fisorpian Name	r Foorplan Path	< c							>

#### (2)

In the Project List pane, click the project where you want the files imported.



Continued

3								
Click the Import Project button								
A) AS BNS Fire Configurator EmgPenses AS EN54 Fire Configurator							Sch	– Ø X Peider Electric
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	<							>
		_			Device List Sur	mmary for Selected Floo	orplan	
	Panel	Zone	Loop	Device	Floor	BACnet Read	BACnet Write	Output
Floorplan Summary List for Selected Project								
rioorpian Name rioorpian Patn								
	<							>

### 4

In the Open dialog box, navigate to the folder with the project that you want to import.

NOTE: You can only import projects that have been exported, that is, files with the file name extension .en5.

#### (5)

Click the project file.

### 6

Click the **Open** button.

(7)

In the EN54 Import Project dialog box, click the Import button.

The project is now accessible on the Project View tab, in the Project List pane.

To Delete Projects									
1									
On the <b>Project View</b> tab, in the <b>Project List</b> pane, click the project that ye	n the Project View tab, in the Project List pane, click the project that you want to delete.								
2									
On the toolbar, click the <b>Delete Selected Project</b> button									
(2) AS ENSH Fire Configurator EmgDuranese AS ENSH Fire Configurator Empirications Empiricati	-								
Project List Project Name  Project Path  Project Path  Project Path  Project Path P	Project Summary Total Devices Total BACnet Total Schedules Total Outputs Device % BACnet Read % BACnet Write % Schedul								
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	٤								
	Device List Summary for Selected Floorplan Panel Zone Loop Device Floor BACnet Read BACnet Write Output								
Floorplan Summary List for Selected Project Floorplan Name Floorplan Name Floorplan Path									
	( )								

3

In the Confirmation dialog box, click the Yes button.

#### **To Delete Floor Plans**



### NOTICE

#### FLOOR PLAN FILE DELETED FROM HARD DRIVE

Only delete floor plans that you do not need anymore, or floor plans that you have saved somewhere else than in C:\Users\[user name]\AppData\Roaming\EN54FDS\_Projects\[project name]\CAD.

Failure to follow these instructions can result in loss of data.

The floor plan file is deleted from C:\Users\[user name]\AppData\Roaming\EN54FDS\_Projects\[project name]\CAD when you delete the floor plan from the project.

(1)

On the Floorplan files tab, in the Floorplans pane, click the floor plan that you want to delete.



3

In the Confirmation dialog box, click the Yes button.



To Print Device List Summaries for Floor Plans

### 1

On the Project View tab, in the Project List pane, click the project that contains the desired floor plan.

(2)

In the Floorplan Summary List for Selected Project pane, click the desired floor plan.

3

In the toolbar, click the Print Summary for selected floorplan button



### 4

In the Print Preview dialog box, edit the printing preferences.

### (5)

Select a printing method:

Click the Quick Print button.

• Click the **Print** button.

In the Print dialog box, edit the printing preferences.

Click the **Print** button.



### **EcoStruxure Building Operation Guide**

The operation of the AS EN 54 FIRE Interface is centered around events. These are generated by the Esmi fire detection panel in response to changes of state in the system, e.g. fire, fault etc.

These event messages take priority over all other messages which may be in process at the time.

The AS EN 54 SmartDriver Kit EBO Fire Graphics responds to the receipt of an event by searching for all automation server points relating to it. For example, on receiving a fire alarm event the AS EN 54 SmartDriver Kit EBO Fire Graphics will search for, and change the value accordingly of, panel alarm points, loop alarm points, zone alarm points and device alarm points.

It is up to the user to decide which points that are required. Note that that the control point (address = 999) must exist for the driver to run.

After installing the AS EN 54 SmartDriver Kit EBO Fire Graphics and interface, it is recommended to set the control point to 1 to synchronize the points' statuses with the Esmi fire detection panel network. The SendState is sent automatically on start-up or after a communication restart after a communication failure.

Thereafter, unless there is a loss of communication, there should be no need to trigger the control point, as any changes generate an event. Events are received and handled by the AS EN 54 SmartDriver Kit EBO Fire Graphics. Contamination and raw values are automatically retrieved once a day during non-business hours. However, setting the loop update point to 1 causes the SmartDriver to initiate a request. All contamination and raw values are then requested from the Esmi fire detection panel for every analog detector on the loop. This is returned at a rate of one detector every five seconds from the panel.

The AS EN 54 SmartDriver Kit EBO Fire Graphics monitors two types of communication:

- The communication between EcoStruxure Building Operation and the main Esmi fire detection panel that it is physically connected to. If there are no events, the panel sends a 'heartbeat' message every 10 seconds. If the SmartDriver has not received a transmission from the panel for 30 seconds, it changes the icons for the Esmi SmartDriver interface and panels/points to offline. Once communication has been restored, the driver reverts the interface/panel/points icons to online.
- The FXCOMM communication between Esmi fire detection panels that are connected in a network. An FX Net comms status point can be created to monitor a multi-panel network. The driver sets this point to 1 if a message is received from the main Esmi fire detection panel that indicates that there is an issue on the FXCOMM communication network. This point can be used to trigger an alarm.

The images below show examples of the EcoStruxure Building Operation AS EN54 FIRE Interface.



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Alarms Events Watch

AS EN 54 FIRE Esmi devices, flat structure



3 alarms

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AS EN 54 FIRE Esmi fire detection panel alarms, zone folder structure (default in AS EN 54 Configurator Tool version 1.1.0 and higher)



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Alarms Events Watch

AS EN 54 FIRE Esmi fire detection panel alarms, flat structure



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Alarms Events Watch

AS EN 54 FIRE Esmi BACnet points, zone folder structure (default in AS EN 54 Configurator Tool version 1.1.0 and higher)

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1 100 2023-04-06 12:38:26	Coop 1 Detector 12 DisabledAlarmM	ulti /Esmi FDP Demo/AS EN54 FIRE Inter	Disabled / No Name / Zone: 2	2023-04-06 12:	38:26		<pre></pre>
L 98 2023-04-06 12:43:26	3 Loop 1 Detector3 DisabledAlarmMu	Iti /Esmi FDP Demo/AS EN54 FIRE Inter	Enabled / No Name / Zone: 2	2023-04-06 12:4	43:33		3 alarms
2 / / / / / / / / / / / / / / / / / / /							

Alarms Events Watch

AS EN 54 FIRE Esmi BACnet points, flat structure

### **Default Set of Icons**

Icon	Description
	Beacon
0	Detector
	Fire detection panel
• •	I/O module
▶ < M	I/O module with [Output] Command point
	I/O module with Schedule Disable point
	I/O module with [Output] Command point and Schedule Disable point
(ب ا	Loop

lcon	Description
	Manual call point
Reset	Reset
4	Sounder
A	Sounder beacon
@22:34	Timer, disablement
A T1 - 360s	Timer T1
🗹 T2 - 59s	Timer T2
	Zone
Swedish Set of Icons	

lcon

6

Description
Beacon

#### Continued

lcon	Description
	Detector, heat
	Detector, heat – concealed
	Detector, heat – concealed, ingress protection
©⊗	Detector, heat – ingress protection
F	Detector, multicriteria
F	Detector, multicriteria – concealed
	Detector, smoke
	Detector, smoke – concealed

### Description lcon Fire detection panel I/O module ID A ID Manual call point Reset Reset • Sounder ID Sounder beacon Timer, disablement O22:34 Timer T1 🚺 T1 - 360s Timer T2 72 - 59s Zone n

#### To Use Device Icons without Output or Schedule Indication

In EcoStruxure Building Operation, additional graphic components are displayed for devices with Command and Schedule points. You can remove these graphic components, without affecting the actual points.

For example:

From I/O module with Command graphic

component is to I/O module without Command graphic component .

From I/O module with Schedule graphic component to I/O module without Schedule graphic component.

1

In WorkStation, in the System Tree pane, expand AS EN54 FIRE Graphics.

### 2

#### Click ESMI Floorplan.

O2048GB3 , April 2023

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Continued

(3) In the Bindings quick filter box, type 'output' or 'schedule'. 🗃 Esmi FDP Demo - Building Operation WorkStation σ File Edit View Actions Window Tools Help Eco Building Operation □· ☆ □ □ □ → □ □ → □ □ → □ □ → □ Schneider 🖉 🔮 Connected to: Esmi FDP Demo R admin -• 4 × Bindings: ESMI Floorplan C:\Users\EN54FDS\_P\AppData\Roaming\EN54FDS\_Projects\Esmi FDP Demo Lund\CAD\floor plan4.png × 7 Tî 🛱 👌 🍸 📑 Property filter 🛱 🝸 🕩 🗅 🗛 😲 🕂 🕅 output A DESMI FDP Demo . System Binding template Description Brow Esmi FDP Demo + AS EN54 FIRE Grag + Default name matching Match according to name strings Drop here to apply ContentType AS EN54 FIRE Graphics Unit . Binding point Binding 🐵 DESCR ESMI Floorplan C:Use
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ESMI Panel 1 Alarms
ESMI Panel 1 Alarms
Cone 1
EZOne Alarms
Zone 2
EZOne Alarms
Zone 3
Zone 3 C/\_/AS EN54 FIRE Interface/AS EN54 NETWORK/ESMI Panel 1/Zone 2/Loop 1 C Galo 1.3.Output Value NAME ⇔ .../.AS EN54 FIRE Interface/AS EN54 NETWORK/ESMI Panel 1/Zone 2/Loop 1 C <sub>4</sub> IO 1.4.Output Value NOTE1 NOTE2 Galo 1.5.Output Value ⇔ ../../AS EN54 FIRE Interface/AS EN54 NETWORK/ESMI Panel 1/Zone 3/Loop 1 C TYPE <sub>4</sub> IO 1.6.Output Value  $\Leftrightarrow$ /../AS EN54 FIRE Interface/AS EN54 NETWORK/ESMI Panel 1/Zone 1/Loop 1 C VALIDATION Zone Alarms Galo 1.7.Output Value ⇔ .../../AS EN54 FIRE Interface/AS EN54 NETWORK/ESMI Panel 1/Zone 2/Loop 1 C AS EN54 FIRE Reports 💊 IO 1.8.Output Value ⇔ .../../AS EN54 FIRE Interface/AS EN54 NETWORK/ESMI Panel 1/Zone 1/Loop 1 C C / /AS EN54 FIRE Interface/AS EN54 NETWORK/ESMI Panel 1/Zone 2/Loop 1 C Galo 1.9. Output Value <sub>4</sub> IO 1.10.Output Value ⇔ .../../AS EN54 FIRE Interface/AS EN54 NETWORK/ESMI Panel 1/Zone 1/Loop 1 C Ŧ \* 4 4 Þ n v State A Count Priority Triggered time V Source name System alarm ID Timestamp Acknowledged by Category So Alarm tex 2023-04-06 12:38:26 Loop 1 Detect 100 2023-04-06 12:38:26 Loop 1 Det tor12 D d / No N 2023-04-06 12:38:26 23-04-06 12:43:26 Loop 1 De 3-04-06 12:43:5 3 alarms Alarms Events Watch

Schneider Gelectric

Continued

<b>(4</b> )					
In the <b>Binding</b> column,	click a binding for an	output or a schedule.			
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	😭 IO 1.9.Output Value		⇔/AS EN54 FIRE Inte	erface/AS EN54 NETWORK/ESMI Panel 1/Zone 2/Loop 1 C	
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1 98 2023-04-06 12:43:26	8 Loop 1 Detector3 DisabledAlarmMulti /E	Esmi FDP Demo/AS EN54 FIRE Interf Enabled / No	Name / Zone: 2	2023-04-06 12:43:33	
					3 alarms
Alarms Events Watch					

### (5)

On the keyboard, press the **Delete** key.



#### Continued

### 6)

Remove bindings to fire output points and/or schedule points where Command or Schedule graphic components should not be displayed.

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#### To Link Fire Graphics to Schedules

### 1

In WorkStation, in the System Tree pane, expand AS EN54 FIRE Graphics.

### 2

#### Click ESMI Floorplan.



Continued

#### To Link Fire Graphics to Schedules

3						
In the Bindings qui	ck filter box, type '	ʻlink'.				
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#### To Link Fire Graphics to Schedules

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#### To Link Fire Graphics to Schedules

### (5)

Drag the schedule the relevant **Binding** boxes.

You can bind a schedule to multiple fire graphics, in one or more floor plans.

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	10 1.4.Schedule.Link			0	•	Drop or type here to bind	✓ TYPE		
	10 1.5.Schedule.Link			0	•	Drop or type here to bind	VALIDATION		
	10 1.6.Schedule.Link			0		Drop or type here to bind			
	n IO 1.7.Schedule.Link			8		Drop or type here to bind			
	10 1.8.Schedule.Link			0		Drop or type here to bind			
	Contraction International Inte			0		Drop or type here to bind			
	10 1.10.Schedule.Link			0	•	Drop or type here to bind			
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	Tone 1.Schedule.Link			0		Drop or type here to bind			
	Cone 2.Schedule.Link			0		Drop or type here to bind			
	Cone 3.Schedule.Link			0		Drop or type here to bind			
	Parameters								
4	KG 1/1 DD								
Alarms									- I ×
	0g Ag ⇒ 7 \$*	Quick filter							< * * * * * * * * * * * * * * * * * * *
State A Count Priority Triggered time	Source name	Source	Alarm text	System alarm ID	Timestamp Ack	nowledged by Category			* etai
1 100 2023-04-26 09:08:16	Esmi FDP Demo	/Esmi FDP Demo		Licensing violation	2023-04-26 09:48:15	System alarm			view
3 100 2023-04-21 14:36:21	Esmi FDP Demo	/Esmi FDP Demo	of Enchlad (No Name 17	System warm start	2023-04-26 09:08:15	System alarm			
3 100 2023-04-24 22:54:22	AS EN54 NETWORK	/Esmi FDP Demo/AS EN54 FIRE Inte /Esmi FDP Demo/AS EN54 FIRE Inte	an Enabled / No Name / Zone:	Network offline	2023-04-25 09:56:37	System alarm			5 alarms 👻
Alarms Events Watch									



Continued

To Link Fire Graphic	s to Schedules	i		
6				
Click the Save button				
Esmi FDP Demo - Building Operation Work	kStation			- п ×
File Edit View Actions Window To	ols Help			
Eco Ptruxure	$\sim$			
Building Operation	₩ <b>+</b> · C(B)% � (	1 ± < < < < < < < < < < < < < < < < < <	🕭 🔮 Connected to:	Esmi FDP Demo
🗲 🔹 🤿 🔹 Esmi FDP Demo 🏲 AS EN	54 FIRE Graphics 🕨 ESMI Floorpla	an C:\Users\EN54FDS_P\AppData\Roaming\EN54FDS_Projects\I ►		Y Search C( C)
System Tree • 4 ×	Bindings: ESMI Floorplan	C:\Users\EN54FDS_P\AppData\Roaming\EN54FDS_Proje	ects\Esmi FDP Demo Lund\CAD\floor plan4.png ×	•
	ê7 D d A Q +	link		Property filter
System	Binding template	Description		Browser
D Bus	Default name matching	Match according to name strings	Drop here to apply	Esmi FDP Demo  AS EN54 FIRE Grag.
AS EN54 FIRE BACnet Interface     AS EN54 FIRE Graphics	Binding point	Unit Binding		ContentType
🖉 ESMI Floorplan C:\Users\Use	Bindings			e DESCR
AS EN54 FIRE Interface	Links			ESMI Floorplan C:\Users\AppDataAp\AppData\Roar
A CESMI Panel 1	The Detector 1.11.Schedule.Link	⇔ .J.Jsche	dule/Analog Schedule	
ESMI Panel 1 Alarms	The sector 1.12.Schedule.Link		Drop or type here to bind	✓ NAME
Zone 1	IO 1.1.Schedule.Link		Drop or type here to bind	🐸 NOTE1
Zone 2	IO 1.2.Schedule.Link		Drop or type nere to bind	NOTE2
Zone Alarms	IO 1.4 Schedule Link		Drop or type here to bind	
D 🔁 Zone Alarms	IO 15 Schedule Link		Drop or type here to bind	• VALIDATION
AS EN54 FIRE Reports	IO 1.6 Schedule Link		Drop or type here to bind	
	10 1.7.Schedule.Link	÷	Drop or type here to bind	
	10 1.8.Schedule.Link	⇔	Drop or type here to bind	
4 F	10 1.9,Schedule.Link	¢	Drop or type here to bind	
Alarms				<del>~</del> д ×
	$Q A \rightarrow T $ $r $	Quick filter		٠
State A Count Priority Triggered time		Source Alarm text	System alarm ID Timestamn Acknowledged by Category	Q
1 100 2023-04-06 12-38-26	Loop 1 Detector® DisabledAlarmM	ulti /Esmi EDP Demo/AS EN54 FIRE Interf Disabled / No Name / Zone	- 1 2023-04-06 12:38:26	<u>a</u> : <.
1 100 2023-04-06 12:38:26	Loop 1 Detector12 DisabledAlarm	Multi /Esmi FDP Demo/AS EN54 FIRE Interf Disabled / No Name / Zone	: 2 2023-04-06 12:38:26	
Land 1 98 2023-04-06 12:43:26	Loop 1 Detector3 DisabledAlarmM	lulti /Esmi FDP Demo/AS EN54 FIRE Interf Enabled / No Name / Zone:	2 2023-04-06 12:43:33	
				3 alarms
Alarms Events Watch				

Now you can open schedules by clicking schedule icons 🛄 on the floor plan.

### Adding Esmi Devices to Existing EcoStruxure Building Operation Interfaces and Floor plans

#### To Add Esmi Devices to Existing EcoStruxure Building Operation Interfaces and Floor plans

1

In the AS EN 54 Configurator Tool, add the required devices to the floor plan.



#### Continued

2

3

#### To Add Esmi Devices to Existing EcoStruxure Building **Operation Interfaces and Floor plans**



### 4

#### In the Layers pane, click Detectors.

### (5)

Right-click an existing graphic and then click Copy.



### 6

Paste the new graphic and drag it into position.



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### SmartDriver Kit Commissioning and Integration Guide

#### Continued

#### To Add Esmi Devices to Existing EcoStruxure Building Operation Interfaces and Floor plans

### (7)

Save the floor plan.

### (8)

In WorkStation, edit the bindings of the floor plan. Add the bindings from the AS EN54 FIRE Interface to the new graphics device.

Required bindings:

- Address
- Contamination
- Description
- Disable
- Status
- Value

You can create optional bindings to icons that indicate Command and Schedule.

### 9

Save the updated bindings.

### 10

Reload the AS EN54 Fire SmartDriver file to restart the communication with the updated interface.

### Creating a HTTPS Certificate with WorkStation

To Create a HTTPS Certificate with Wo	orkStation	
1	니다 나다	
Click the Control Panel button.		
2		

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 $\label{eq:constraint} \text{Under Security and Communication}, \ \text{click Certificates}.$ 



Continued

### To Create a HTTPS Certificate with WorkStation

3		2	Manage Certificates	? ×	
Select the server and Manage Certificates and Generate certificate.			Quick filter		
	Add existin Generate o	ng certificate	Description		
<b>(4)</b>	🚝 Generate Certifica	ite		? )	×
In the <b>Name</b> box, type a name for the certificate.	Name	OE			
In the <b>Common name</b> box, type the IP address.	Description				
In the Valid to box, enter a future date.	Generate certif	ficate			
	Common name	11.111.11.11 Use IP/I	I DNS from communication settings		_
	Email address				
	Organizational unit	t			
	Organization				
	Locality				
	Country				~
	State				
	Valid from	9.11.2020		15	1
	Valid to	9.11.2029		15	1
	Password				
	Confirm password				_
			٦	OK Cancel	5

(5)

Click the  $\ensuremath{\text{OK}}$  button and close.



Continued

### To Create a HTTPS Certificate with WorkStation

6)

In the Server Certificate box, select the certificate.	
	Certificate
	Server /AS Fire
	Address 111.111.1.11
	Server Certificate
	Default
$\overline{\mathcal{O}}$	EccØruxure Building Operation ⊡·₩ +·♂□৵৳1 @ @ @ @ @ ?
The certificate is saved to the automation server.	System Tree - + × AS Fire Certificates × 🛛 Certificates × 🖾
	↓     ▲ As Fire
	Server DNS/IP Address Active Certificate
	Audio     Backun and Restore
8	
Log off and close WorkStation.	
(e)	
Restart WorkStation and log in again.	
10)	
••••	
Trust certificate button.	Security Certificate Risk ? X
	Registered to: There were errors validating the security certificate in use. This may pose a security risk to the system.
	How do you with to proceed? Certificate details
	Eco 3 truxure [7] Always trust this certificate [7] Cancel
	Building Operation
After this process you can connect accurate and you can use the AS EN	

After this process you can connect securely, and you can use the AS EN 54 Configurator Tool.

### Updating the SmartDriver

You add a new driver file to upgrade the SmartDriver functionality.

#### To update the SmartDriver

#### 1

In EcoStruxure Building Operation, in the System Tree pane, expand the SmartDrivers folder.

1	<b>n</b>
L	× 1
х	<u> </u>

Right-click the SmartDriver, point to  $\ensuremath{\text{Properties}}$  and then click ....

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Navigate to the folder with the new driver file.

#### 4

Click the new driver file.

### (5)

Click the **OK** button.

### Integration

### EcoStruxure Building Operation Interface, Devices, Values, Alarms and Graphics

AS EN 54 SmartDriver Kit EBO Fire Graphics operates with EcoStruxure Building Operation SmartDriver interface, devices, values, alarms and graphics created by the AS EN 54 Configurator Tool. These items represent Esmi fire detection panels, loops, zones, detectors, and commands. In AS EN 54 SmartDriver Kit EBO Fire Graphics, BIT values represent status values for detectors and zones. These status bits are positioned in bit 12 and above.

The lower 12 bits (0 to 11) are used for the reenablement time in 24 h format if the zone or detector has been disabled with auto-time enablement.

Status values are represented by either a single value or a bit state. In bit states, bit 0 is the least significant bit as shown below.

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	З	2	1	0
																			x												

Bit state

E.g. "x" marks bit 12 and represents the status of the alarm for a detector or zone.

### AS EN 54 SmartDriver Kit EBO Fire Graphics Points

#### **Status and Value Points**

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#### **Fire Detection Panel**

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Device	Esmi fire detection panel ID	1

### Panel Alarm Status

EcoStruxure Type	EcoStruxure Address	Example	
SmartDriver Unsolicited Integer	1	-	
Value	Definition		

Value	Definition
0	No panel alarm
1	Panel alarm

### Panel Fault Status

EcoStruxure Type	EcoStruxure Address		Example
SmartDriver Unsolicited Integer	2		-
Value	C	Definition	
0	Ν	No panel fault	
1	P	Panel fault	

### Zone Status

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Unsolicited Integer	11, Zone ID	11,1

Bit	Definition
30	Zone T1/T2 delay: 0 = T1, 1 = T2
29	Zone delay alarm
28	Zone alarm
27	Zone pre-alarm
26	Zone disablement
25	Zone fault
24	Zone maintenance
Lower 12 bits	24 h time for re-enablement if auto enable was used to disable the zone



Bits 13 to 23 hold the alarm delay value in seconds for either T1 or T2.

#### Loop Status

EcoStruxure Type	EcoStruxure Address	Example	
SmartDriver Unsolicited Integer	12, Loop ID	12,1	
Value	Definition	1	
0	Loop norm	al	

0	Loop normal
3	Loop disabled
4	Loop fault

#### **Detector Status**

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Unsolicited Integer	13, Loop ID, Detector ID	13,1,1

Bit	Definition
28	Detector alarm
27	Detector pre-alarm
26	Detector disabled
25	Detector fault
24	Detector maintenance
Lower 12 bits	24 h time for re-enablement if auto enable was used to disable the detector

### **Detector Value**

EcoStruxure Type	EcoStruxure Address	Example	
SmartDriver Unsolicited Integer	14, Loop ID, Detector ID	14,1,1	

Values	Definition
Analog detector value returned by panel	This is the raw analog value returned in response to the loop poll request.

### **Detector Contamination**

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Unsolicited Integer	15, Loop ID, Detector ID, Detector type	15,1,1,19

Value	Definition
0	Normal
1	Slightly contaminated
2	Considerably contaminated
3	Requires service
255	Undefined

The contamination value is converted by the driver from the detector's drift value. This value is updated in response to the loop poll request.

### Panel Input Status

EcoStruxure Type	EcoStruxure Address	Example	
SmartDriver Unsolicited Integer	21, 0, Panel Input Number	-	

Value	Definition
0	Input inactive
1	Input active

### Loop Input Status

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Unsolicited Integer	22, Loop ID, Loop Input Number	-

Value	Definition
0	Input inactive
1	Input active

### **Comms Status**

EcoStruxure Type	EcoStruxure Address	Example	
SmartDriver Unsolicited Integer	24	-	
Value	Definition		
0	FX Net Comms ok		
1	FX Net Comm	FX Net Comms fault	

The SmartDriver monitors two types of communication:

The communication between EcoStruxure Building Operation and the main Esmi fire detection panel that it is physically connected to.

The FX Net communication between the Esmi fire detection panels on FX networks.

The EcoStruxure Building Operation interface and device icons appear as offline (red cross) if no communication has been received from the main Esmi fire detection panel for 30 seconds. When valid messages are received from the panel, the icons appear as online. Alarms are also raised if no communication is received from the main Esmi fire detection panel. The alarms become inactive when the connection is reestablished.

An FX Net Comms Status point can be created to monitor the FX Net communication in an Esmi fire detection panels network. The main Esmi fire detection panel sends a message if there is any communication issue on its own network. The panel does not send any information about where on the network the issue has occurred. The driver can only set a value to indicate that there has been a communication issue on the FX network.

### **Devices Deactivated LED**

EcoStruxure Type	EcoStruxure Address	Example	
SmartDriver Unsolicited Integer	35	-	

Value	Definition
0	Devices not deactivated
1	Devices deactivated

The SmartDriver monitors the state of the Devices Deactivated LED on the front of FX and FDP fire detection panels.

### **Command Points**

The values of the following points are used to trigger the execution of a command in the EcoStruxure Building Operation system. You set the values and the SmartDriver returns them to -1 once the command has been executed. Typically, these values will be handled by the TGML graphics and TGML graphics context menus.

### Silence & Reset Commands

EcoStruxure Type	EcoStruxure Address	Example	
SmartDriver Value Integer or SmartDriver I Output point	nteger 150	-	

User-set value	Definition
102	Silence alarm
103	Silence fault
104	Silence maintenance

#### Continued

User-set value	Definition
105	Silence pre-alarm
121	Reset alarm
122	Reset fault
123	Reset maintenance
124	Reset pre-alarm

After the command has been sent the value of this point returns to -1.

#### **BACnet Write Silence & Reset Commands**

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Value Integer or SmartDriver Integer Output point	4150	-

User-set value	Definition	
102	Silence alarm	
103	Silence fault	
104	Silence maintenance	
105	Silence pre-alarm	
121	Reset alarm	
122	Reset fault	
123	Reset maintenance	
124	Reset pre-alarm	

After the command has been sent the value of this point returns to -1.

#### Control Point

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Value Integer	999,0	-

IMPORTANT: This point must exist to enable the driver.

User-set value	Definition
1	You set the value to 1 to trigger an Esmi SendState message to the fire system.



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The value is returned to -1 by the driver after the message is sent.

#### BACnet Write Control Point

EcoStruxure Type	EcoStruxure Address	Example	
SmartDriver Integer Output point	4999,0	-	

User-set value	Definition
1	You set the value to 1 to trigger an Esmi SendState message to the fire system.

The value is returned to -1 by the driver after the message is sent.

#### Loop Update Point

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Value Integer or SmartDriver Integer Output point	- 1000, Loop ID	1000,2

User-set value	Definition
1	You set the value to 1 to send a loop info inquiry to the Esmi fire detection panel.

Detector values and contamination values are sent back from the loop.

#### Schedule Loop Update Point

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Integer Output point	31000, Loop ID	31000,2

Schedule-set value	Definition
1	The value is set to 1 to send a loop info inquiry to the Esmi fire detection panel.

Detector values and contamination values are sent back from the loop.

#### BACnet Write Loop Update Point

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Integer Output point	4000, Loop ID	4000,2



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# SmartDriver Kit Commissioning and Integration Guide

User-set value	Definition
1	You set the value to 1 to send a loop info inquiry to the Esmi fire detection panel.

Detector values and contamination values are sent back from the loop.

#### Zone Alarm Delay Commands

EcoStruxure Type	EcoStruxure Address	Example	
SmartDriver Value Integer or SmartDriver Integer Output point	141, Panel ID, Zone ID	141,1,1	
User-set value	Definition		

50	Delay zone alarm (T1 to T2)
51	Reset

**IMPORTANT:** The zone alarm delay command is effective only if delayed alarms have been configured in the fire detection system.

#### Command

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Value Integer point	131, Panel ID, Loop ID	131,1,1

User-set value	Definition
1	You set the value to 1 to activate an output.

### Schedule Command

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Value Integer point	3131, Panel ID, Loop ID	3131,1,1

Schedule-set value	Definition
1	The value is set to 1 to activate an output.

#### **Enablement and Disablement Commands**



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# SmartDriver Kit Commissioning and Integration Guide

#### **Disable Zone**

EcoStruxure Type	EcoStruxure Address	Example	
SmartDriver Value Integer or SmartD Output point	river Integer 141, Panel ID, Zone ID	141,1,1	
User-set value	Definit	ion	
0	Enable	zone	
1	Disable	Zone	
2-6	No func	tion	
7	Disable	with auto enable in 0.5 h	
8	Disable	with auto enable in 1 h	
9	Disable	with auto enable in 1.5 h	
10-29	Disable	with auto enable in 0.5 h increments	
30	Disable	with auto enable in 12 h	

#### Schedule Disable Zone

EcoStruxure Type	EcoStruxure Address	Example	
SmartDriver Integer Output point	3141, Panel ID, Zone ID	3141,1,1	

User-set value	Definition
0	Enable zone
1	Disable Zone
2-6	No function
7	Disable with auto enable in 0.5 h
8	Disable with auto enable in 1 h
9	Disable with auto enable in 1.5 h
10-29	Disable with auto enable in 0.5 h increments
30	Disable with auto enable in 12 h

### Bacnet Disable Zone

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Integer Output point	4141, Panel ID, Zone ID	4141,1,1



User-set value	Definition
0	Enable zone
1	Disable Zone
2-6	No function
7	Disable with auto enable in 0.5 h
8	Disable with auto enable in 1 h
9	Disable with auto enable in 1.5 h
10-29	Disable with auto enable in 0.5 h increments
30	Disable with auto enable in 12 h

#### **Disable Loop**

EcoStruxure Type	EcoStruxure Address	Example	
SmartDriver Value Integer or SmartDriver Integer 142, Panel ID, Loop ID Output point		142,1,1	
	Definition		
User-set value	Delinition		
0	Enable loop		
1	Disable loop		

#### Schedule Disable Loop

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Integer Output point	3142, Panel ID, Loop ID	3142,1,1

Schedule-set value	Definition
0	Enable loop
1	Disable loop

#### **Disable Detector**

EcoStruxure Type	EcoStruxure Address	Example	
SmartDriver Value Integer	143, Panel ID, Loop ID, Detector ID	143,1,1,1	
User-set value	Definition		
0	Enable detector		
1	Disable detector		-

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#### Continued

User-set value	Definition
2-6	No function
7	Disable with auto enable in 0.5 h
8	Disable with auto enable in 1 h
9	Disable with auto enable in 1.5 h
10-29	Disable with auto enable in 0.5 h increments
30	Disable with auto enable in 12 h

#### Schedule Disable Detector

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Integer Output point	3143, Panel ID, Loop ID, Detector ID	3143,1,1,1

Schedule-set value	Definition		
0	Enable detector		
1	Disable detector		
2-6	No function		
7	Disable with auto enable in 0.5 h		
8	Disable with auto enable in 1 h		
9	Disable with auto enable in 1.5 h	Disable with auto enable in 1.5 h	
10-29	Disable with auto enable in 0.5 h increments	Disable with auto enable in 0.5 h increments	
30	Disable with auto enable in 12 h	Disable with auto enable in 12 h	

#### Bacnet Disable Detector

EcoStruxure Type	EcoStruxure Address	Example
SmartDriver Integer Output point	4143, Panel ID, Loop ID, Detector ID	4143,1,1,1

User-set value	Definition
0	Enable detector
1	Disable detector
2-6	No function
7	Disable with auto enable in 0.5 h

Continued

User-set value	Definition
8	Disable with auto enable in 1 h
9	Disable with auto enable in 1.5 h
10-29	Disable with auto enable in 0.5 h increments
30	Disable with auto enable in 12 h







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