interact

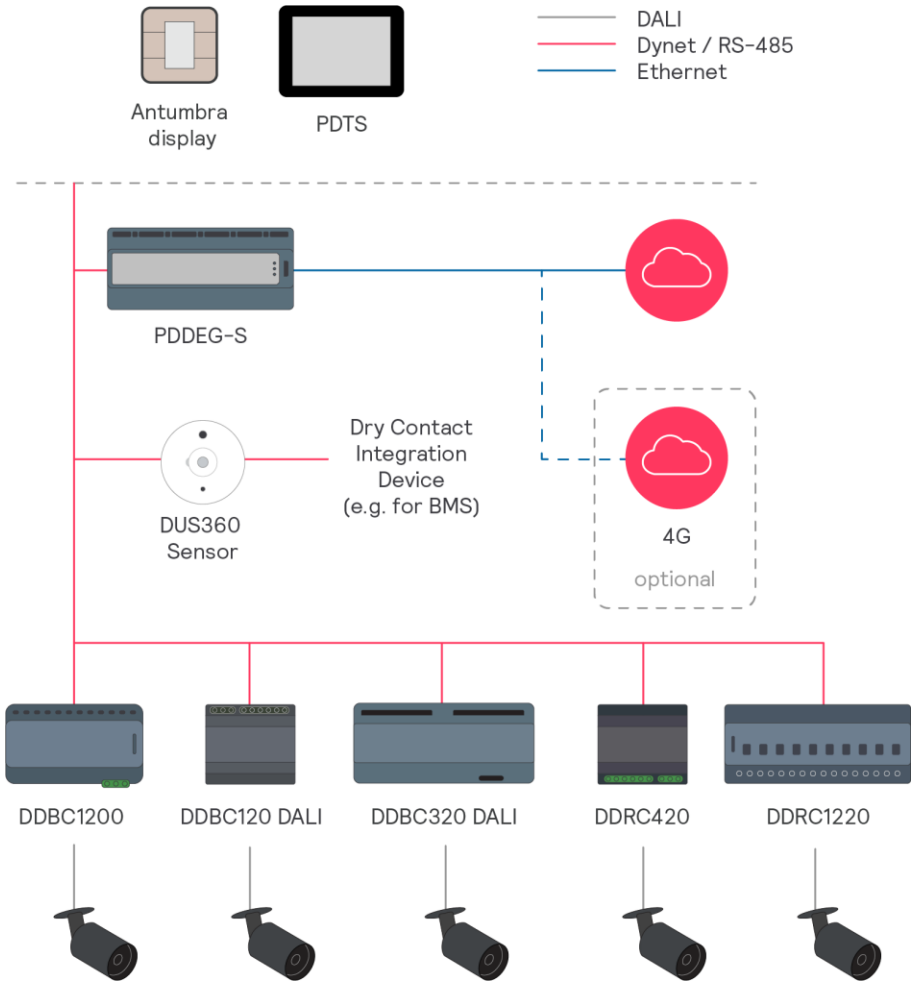
Onsite installation, commissioning and validation

Architecture FLX - Multisite

Onsite installation | Prerequisites

To begin with **Multisite** system configuration, make sure below steps are accomplished:

- System Builder jobfile prepared during offsite commissioning is **stored on the cloud**.
- All **luminaires are installed**, wired, and powered ON
- **Sensors** and **user interfaces** are installed and wired according to installation manuals
- **Controllers** are wired in the distribution board (Power & Dynet) and powered ON
- Basic checks are performed to ensure correct wiring to the controllers
- Customer IT network is successfully scanned using the **Interact Connectivity Toolbox**
- **PDDEG-S** site gateway is ready to be connected to the cloud
- **Philips Dynalite Enabler app** is installed on the phone
- The **work order** is checked using the mobile app
- A Dynalite **DTK-622USB PC Node** is available (for Win11 recommended yellow version)
- The latest **System Builder** software is installed with an enabled **Technician license**
- The latest PDDEG-S **firmware** is downloaded from the **Partner Portal (FLX Architecture)**



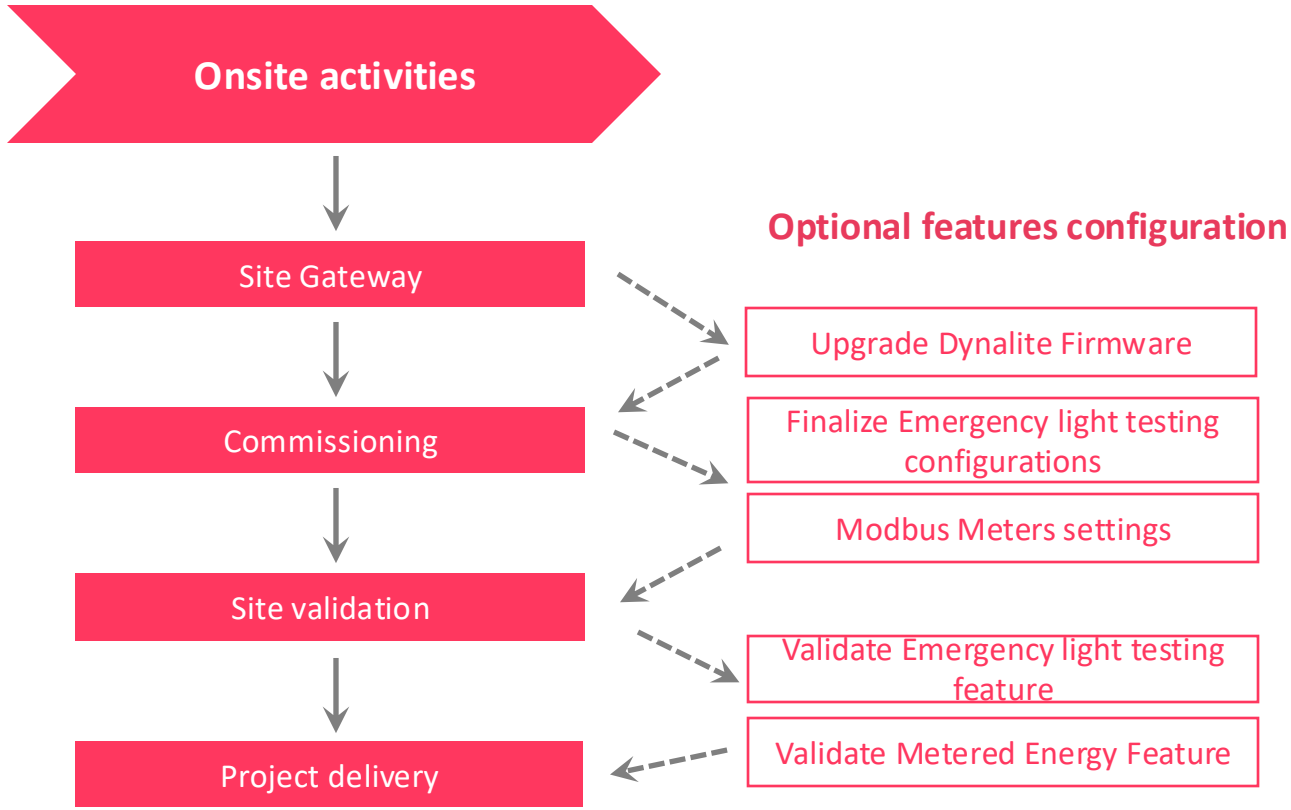
Learning objectives | Onsite installation, commissioning and validation

At the end of this lesson, you should be able to:

- Describe the steps required for the on-site commissioning and validation process.
- Be familiarized with the tools needed for online commissioning.

Prerequisites:

1. Chrome web browser
2. Philips Dynalite Enabler app
3. System Builder >4.43 with technician license
4. Prepared SB job file in the cloud



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Site gateway

Architecture FLX - Multisite

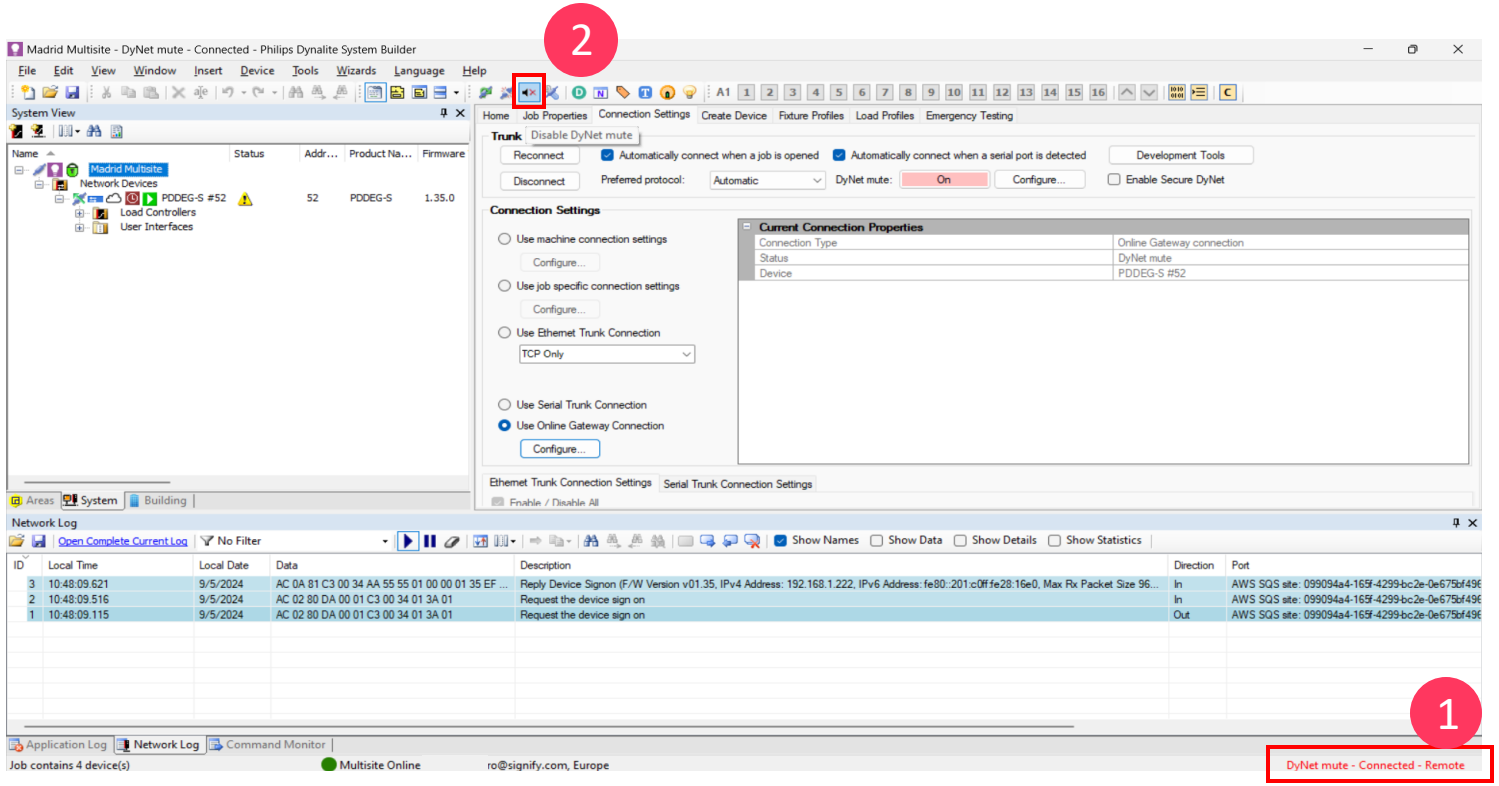
Mute/Unmute – new feature since SB 4.43

1. Any time you remotely connect to a project, it will be automatically set as **Dynet mute** to avoid mistaken interactions that can affect the system.

   During Dynet Mute:

- **Devices can still be signed on**, but not reset, rebooted, loaded, or saved from SB.
- Troubleshooting logs can be read from PDDEG-S after it's been signed-on.
- Other SB features that might send Dynet messages are disabled such as: Virtual Panel, Start Task, etc.

2. To allow SB standard functionalities, select **Disable Dynet mute** from the toolbar icon or the Tools menu.



Site gateway | Open Job file from the cloud

Login to the cloud

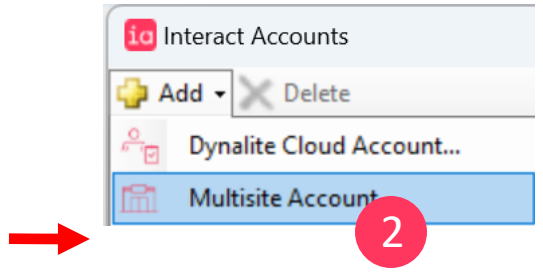
Connect the PC to the Internet and run System Builder

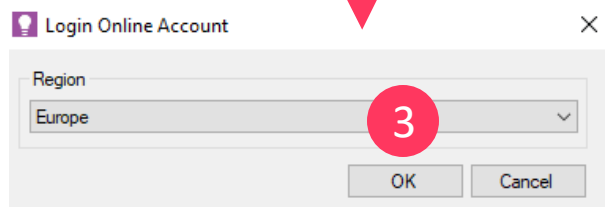
1. On the **Tools** menu, click **Interact Accounts**
2. Click **Add** and select **Multisite Account**
3. Select the **Region** and click **OK**
4. Select your account to login to. If required, fill in your password
5. Account has been linked with the Multisite cloud

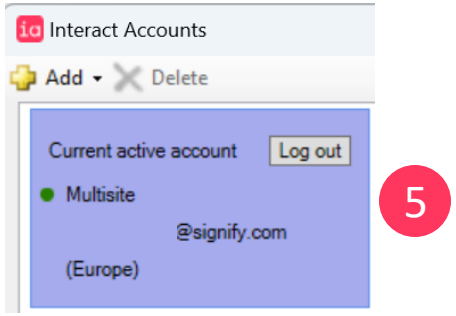
Open job file from the cloud

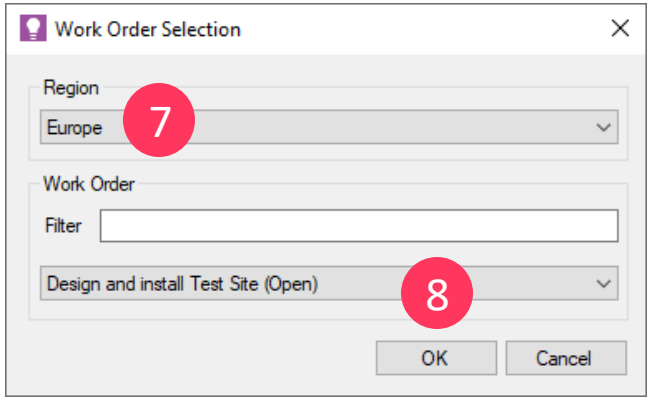
6. On the **File** menu, click **Open** and select **Open Job From Cloud**
7. In the **Work Order Selection** menu, select the **Region**
8. Select the work order that belongs to the site, then click **OK**

Wait a moment until the file is successfully loaded





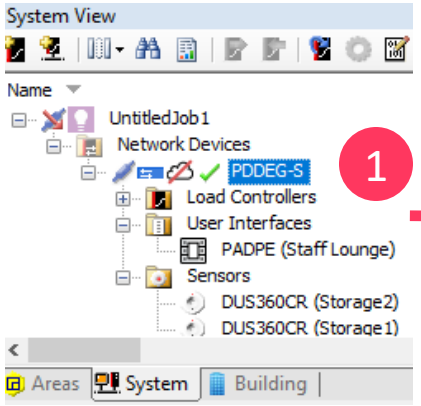


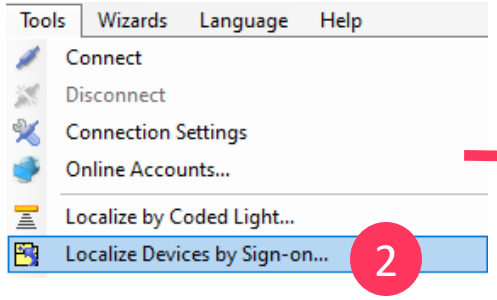


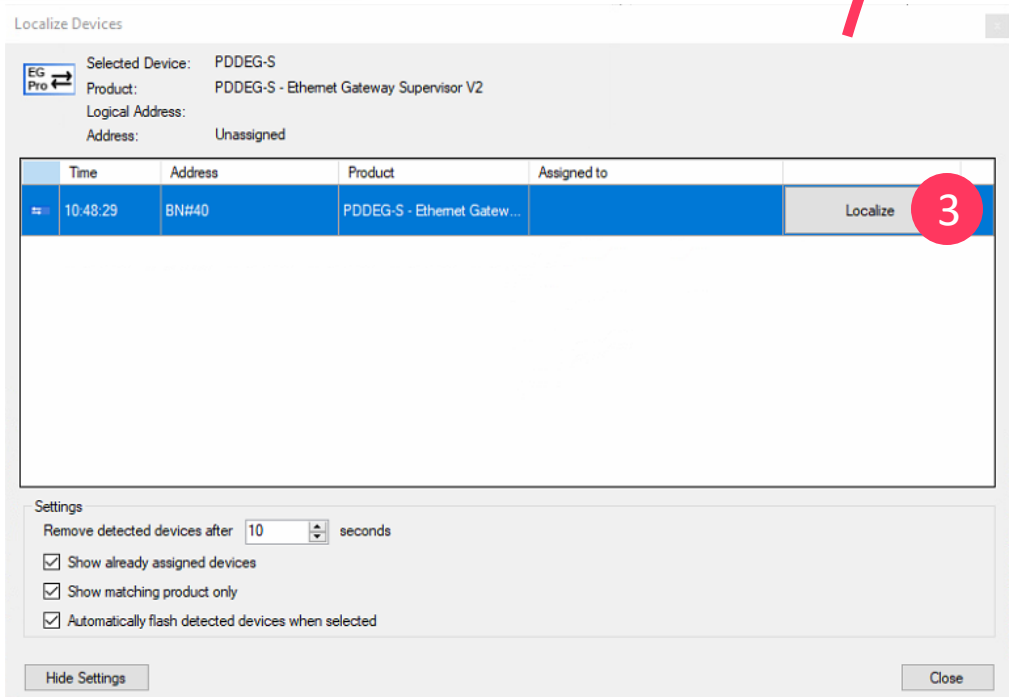
Site gateway | Upgrade PDDEG-S

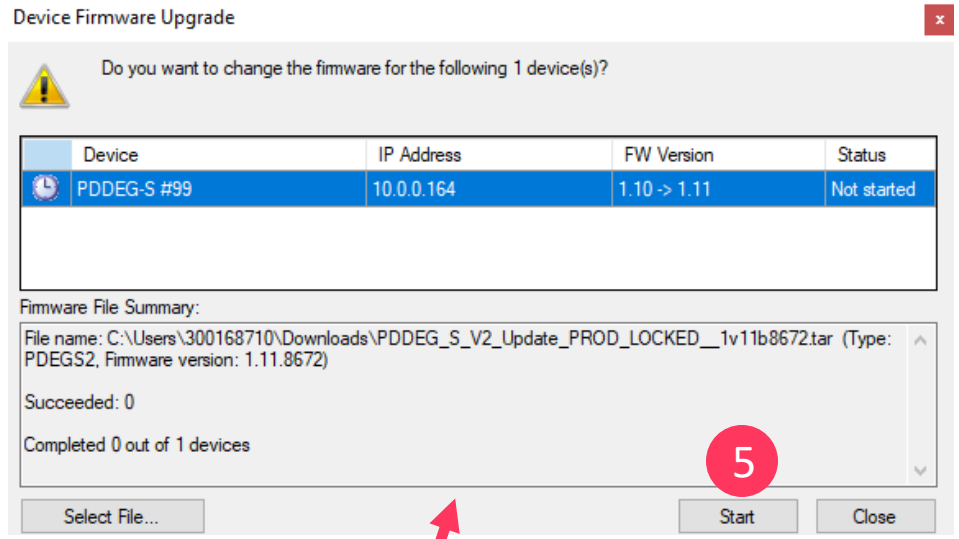
Localize and upgrade gateway

1. In the **System** view, select the **PDDEG-S.**
2. On the **Tools** menu, click **Localize Devices by Sign-on.**
3. Push the sign-on button on the gateway. In the **Localize Device** dialog box, click **Localize**.
4. Right-click the device and select **Firmware Upgrade**.
5. Select the new firmware file and click **Start**. Wait until the upgrade process is finished.









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Site gateway | PDDEG-S network configuration

Configure network settings

1. In the **System** view, select the **PDDEG-S**
2. On the **Ports** tab, click **Advanced** to expand additional configuration options
3. Select one of the following:

   - **Use static IP address** to **False,** to obtain dynamic settings of the customer IT network

   - **Use static IP address** to **True,** to configure static IP and network settings manually.

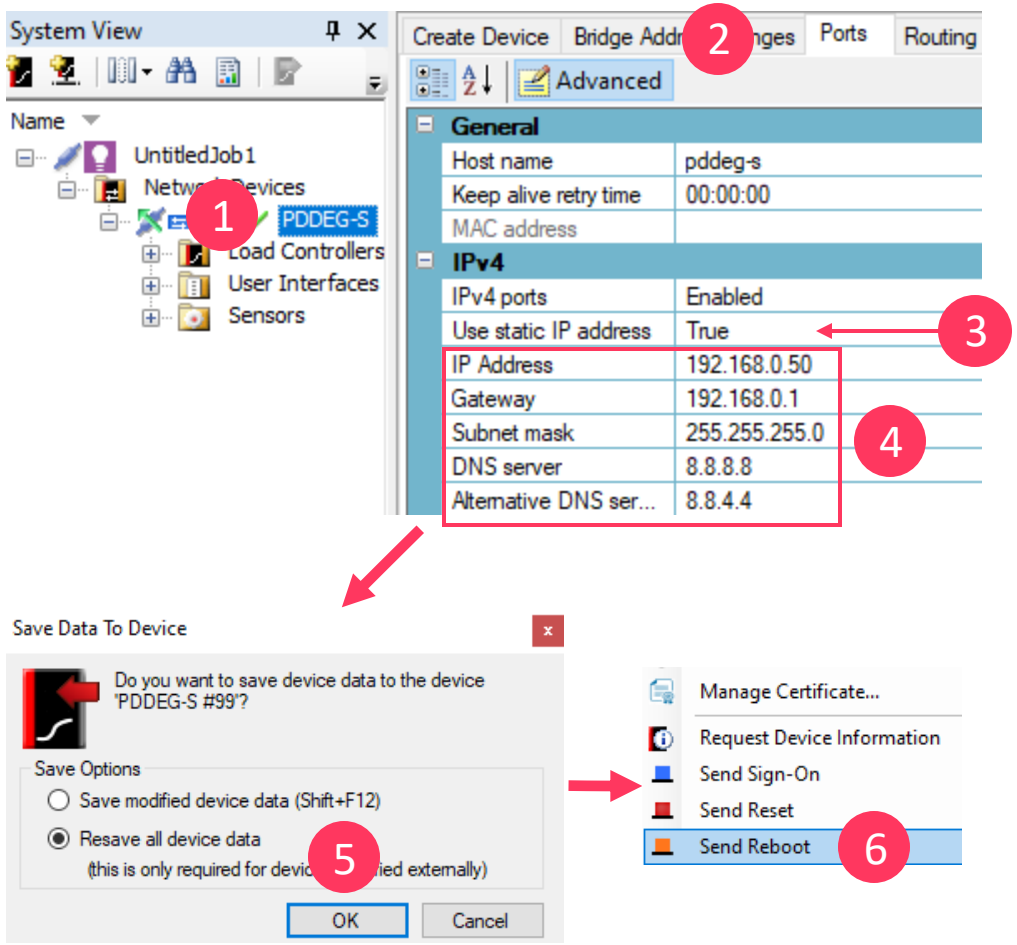
     Always use static IP address configuring Metered Energy with PDEB/PDEG

4. With the **Static IP** set to **True,** manually set **Gateway**, **Subnet mask**, **DNS server,** and **Alternative DNS server**
5. Right-click the device and select **Save To Device.** Select **Resave all device data,** click **OK**.
6. Right-click on the PDDEG-S and **Send Device Reboot** to apply new network configurations.

Save job file to the cloud

7. **Save** modified job file **to the Cloud**. Make sure to use a proper **Work Order**

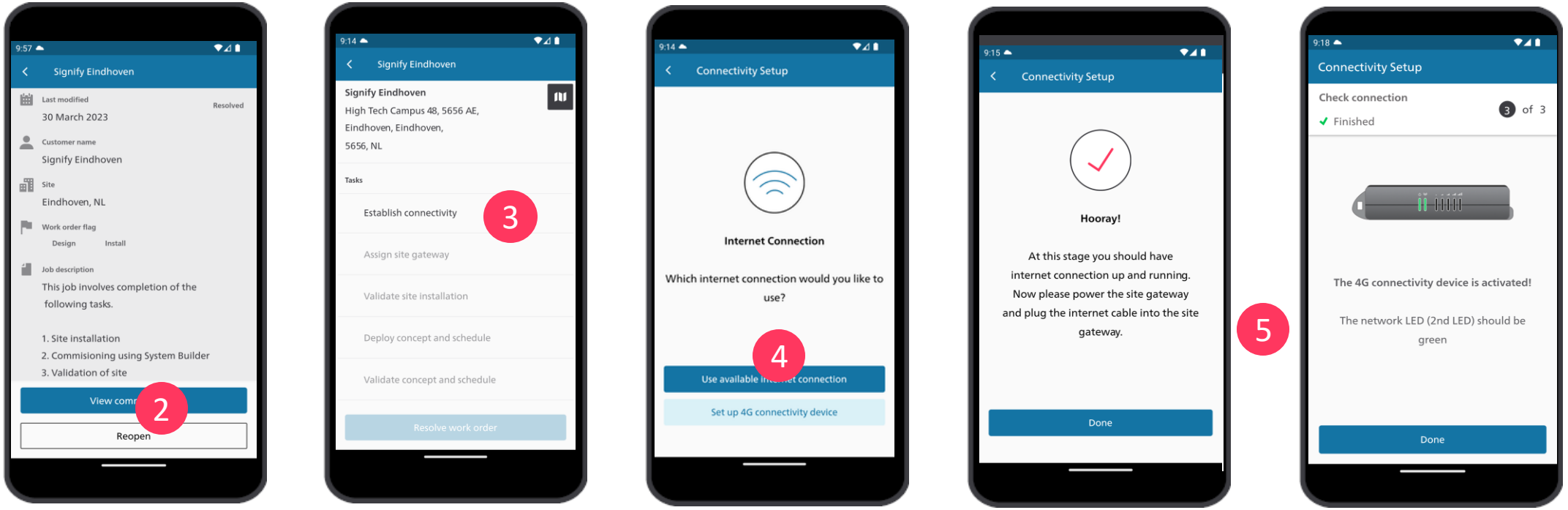
*Wait until the file is successfully saved to the cloud. Observe progress in the **Application** logs*



Site gateway | Activate PDDEG-S 1/2

Establish connectivity:

1. Run the **Philips Dynalite Enabler app**, select the Region and relevant Work Order
2. Tap **Start commissioning**
3. Tap **Establish connectivity**
4. Select **Use available internet connection** while using customer IT outbound connection
5. Select **Set up 4G connectivity device**, while using 4G modem delivered by Signify. Follow further on-screen instruction
6. Tap **Done**



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Site gateway | Optional 4G modem configuration

About the Modem:

1. Out-of-the-box connectivity device.
2. Equipped with an internal soldered SIM which is ready for use.
3. Includes the following accessories: a 1.5m Yellow Ethernet cable, 2 cellular antennas to provide optimum signal strength and 1 DIN rail mounting bracket
4. It requires **24V DC, 1.5A Power Supply** which needs to be ordered independently.
5. At the back of each modem there's a sticker with a unique bar code which will be required by the Philips Dynalite Enabler app.

Site gateway | Optional 4G modem configuration

Advices:

1. Ensure you install the modem in an area with enough network coverage.
2. After the external power source is switched on, wait 2 minutes for confirming the modem connects to the mobile network.
3. The Vodafone MachineLink 4G Lite router uses eight LEDs to display the current system and connection status.

Number of lit LEDs	Signal Strength
All LEDs unlit	< −120 dBm
1	−119 dBm to −100dBm
2	−99 dBm to −90 dBm
3	−89 dBm to −80 dBm
4	−79 dBm to −70 dBm
5	≥−69 dBm

LED icon	Name	Colour	State	Description
	Power		Off	Power off
			Double flash	Powering up
			On	Power on
			On	Power on in recovery mode
			Slow flashing	Hardware error, such as SIM not inserted.
	Network		On	Connected via WWAN
			Blinking2	Traffic via WWAN
			Slow flashing	Connecting PDP/Waiting for demand.
			On	Registered network
			Slow flashing	Registering network
			Slow flashing	SIM PIN locked
			Fast flashing	SIM PUK locked
			On	Can't connect or device is in Configuration mode, see the Initialisation section for more information.
	Signal strength		On	LTE
			On	WCDMA signal
			On	GSM/GPRS signal

Task 7: Activate gateway 2/2

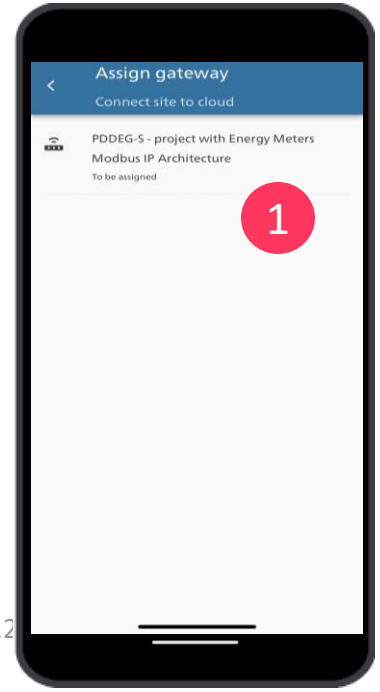
Activate gateway:

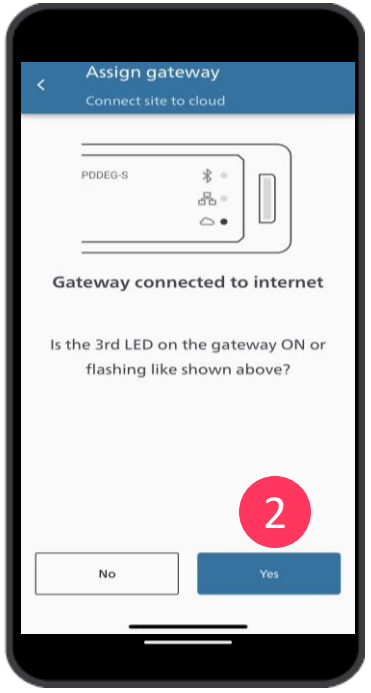
1. Click on the **PDDEG-S Gateway** to assign it
2. Check on PDDEG-S if the bottom led flashes:

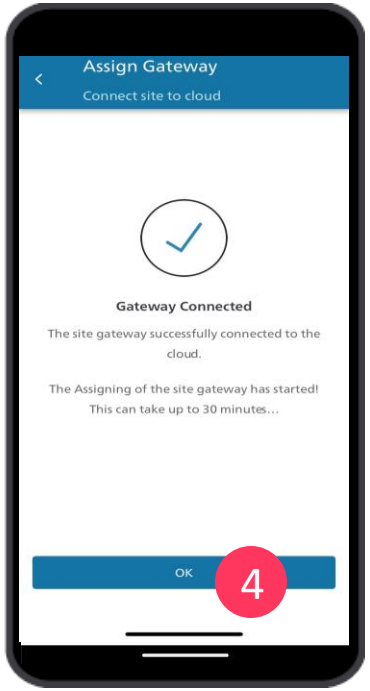
- If so, tap **Yes**
- If not, tap **No** and follow the steps in the app

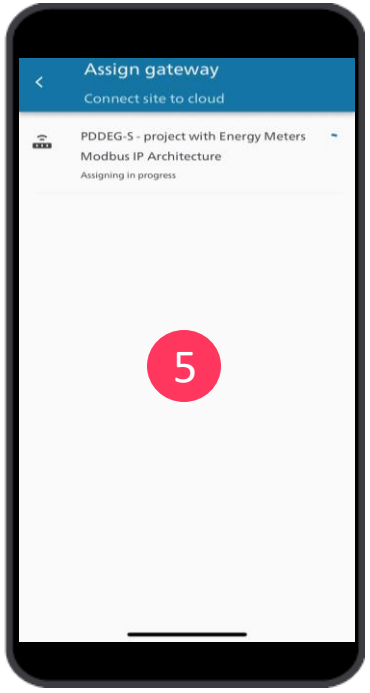
3. Scan the **QR-code** on the PDDEG-S
4. After reading the message **Gateway Connected**, tap **OK**
5. Wait for the gateway to be assigned. It can take up to 30 minutes

Status of gateway assignment can be observed in the mobile app. Take a short break ☺









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Commissioning

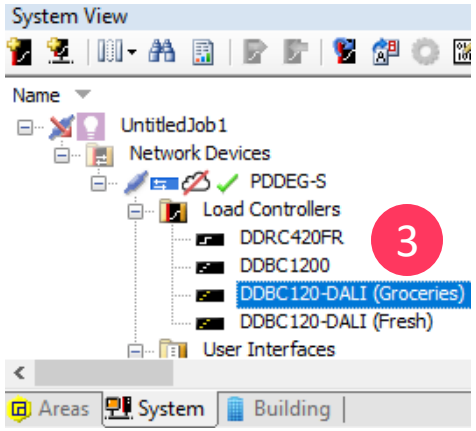
Architecture FLX - Multisite

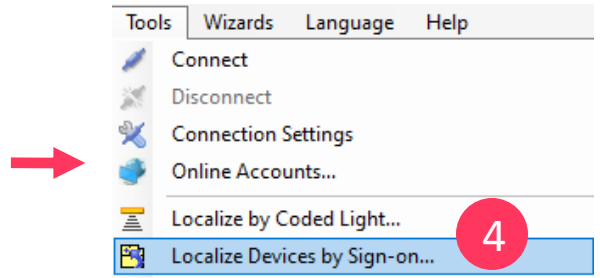
Commissioning | Assign box numbers

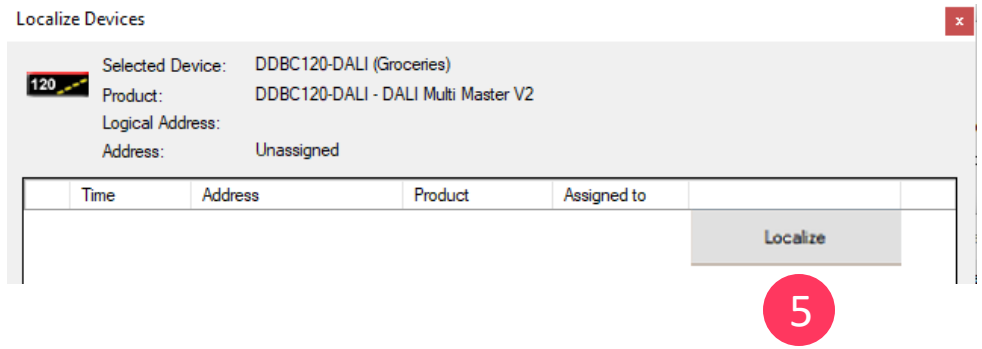
With PDDEG-S gateway successfully assigned to the cloud, further commissioning process is handled in the **System Builder** software.

Assign box numbers to devices in the job file

1. In the System Builder, **open** the **job file from the cloud**.
   Make sure to use a proper **Work Order.**
2. Connect PC to the DyNet network
3. In the **System view**, select either load controller, user Interface, integration device or sensor
4. On the **Tools** menu, click **Localize Devices by Sign-on**
5. Push the **sign-on** button on the device. In the **Localize Device** dialog box, click **Localize**. Use **sign-on** by torch, or dedicated IR remote controller for sensors that are difficult to reach.
6. After successful box number assignment **re-save** configuration to the device.
7. Repeat steps for **all devices** in the DyNet network.







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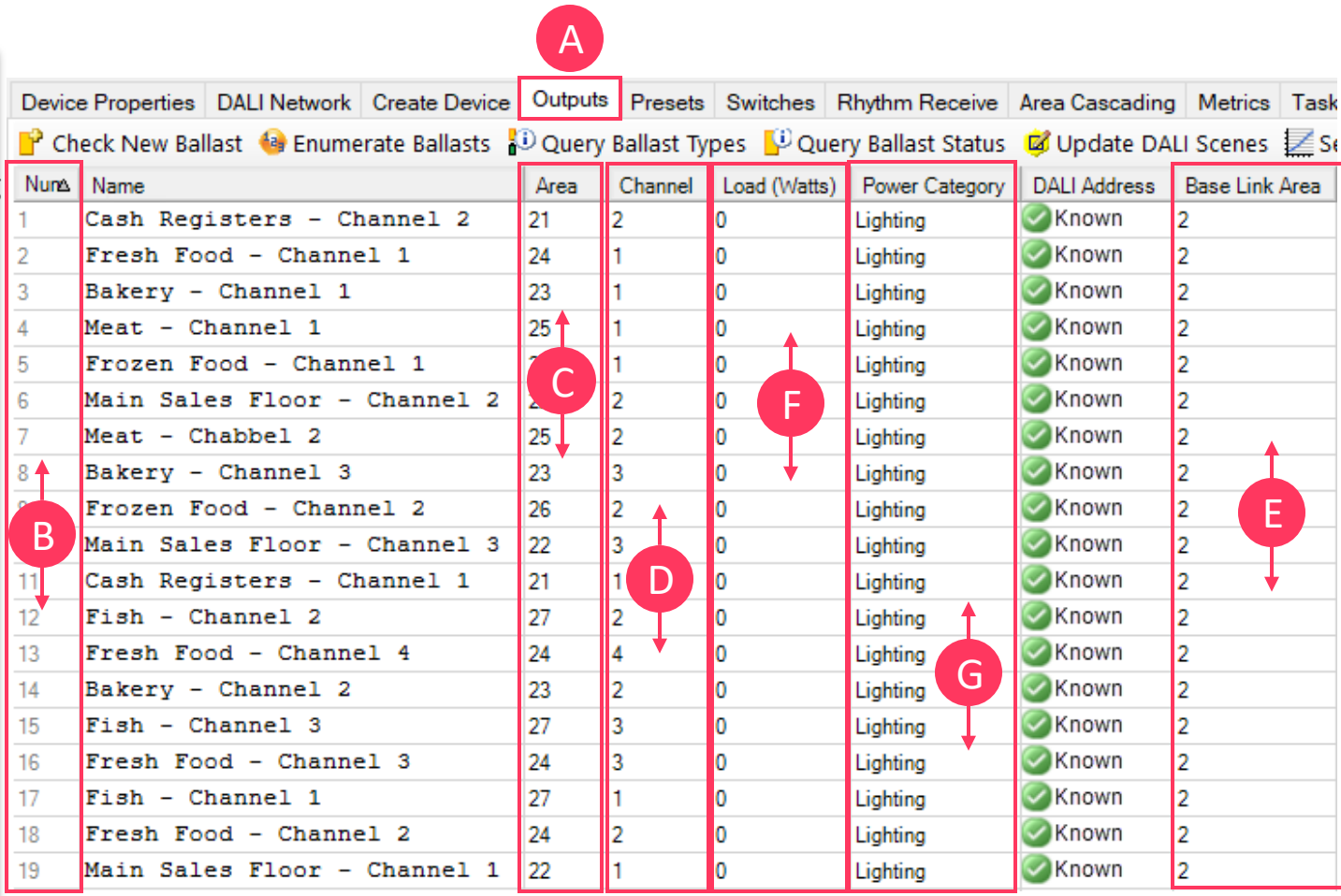
Commissioning | Configure DALI

DALI individual addressing (DDBC120-DALI, DDBC320-DALI)

If System Designer and graphical commissioning have been used during offsite preparation, Load and BLA settings will be applied automatically after localizing the luminaires. Check if this is the case, otherwise, once all DALI ballasts are enumerated for a selected controller:

1. On the **Outputs** tab (A), map the **Physical Channels** (B) to the correct **Child areas** (C) and **Logical Channels** (D)
2. In the column **Base Link Area** (E), map the number of the **Child area** (C) with the *Parent Area. R*eflect **Project Template** and the **IAR Cloud** configuration
3. Calculate and fill in the **Load** (F) in Watts and select the **Power Category** (G) of the physical channel
4. Right-click the device and select **Save To Device**. Select **Resave all device data** and click **OK**
5. Repeat for other DALI individual addressing devices



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Commissioning | Finalize configurations

Configure sensors

Most of the sensor configurations are finalized during the **Offsite preparation,** and have been described in the previous module: **System Builder** | Additional configurations – Sensors

Offsite configurations are already saved to the physical devices.

During **Onsite installation**:

- While using **DALI sensors** make sure to enumerate these devices and assign correct box numbers.
- While using **Daylight harvesting** feature make sure to **calibrate** all involved sensors.
- **Validate** if the sensors work as expected.
- Remember to **always use Resend Inhibit Period** for motion detection functionality.

Configure user interfaces

Most of the sensor configurations are finalized during the **Offsite preparation,** and have been described in the previous module: **System Builder** | Additional configurations – User Interfaces

Offsite configurations are already saved to the physical devices.

- During **Onsite installation** please **validate** if the user interfaces work as expected

interact

Commissioning | Finalize configurations

Configure Dry contact interfaces

Dry Contact Interface configuration is usually finalized during the **Offsite preparation,** and have been described in the previous module: **System Builder** | Additional configurations – Alarm integration

Offsite configurations are already saved to the physical devices.

- During **Onsite installation** please **validate** if the user dry contact integrations work as expected

Interact Retail multisite — Offsite preparation

System Builder | Additional configurations – Manual 2-Hour Override

Configure Manual Override on the Dry Contact Inputs (DDMIDC8)

There are some specific configurations on the **Dry Contact** interface, which need to be applied in order to enable key integrations and features.

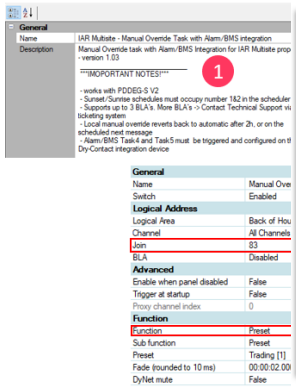
One of these is **Manual 2-Hour Override**, which provides functionality to overrule the scheduled scene with a different preset, for a maximum of two hours.

To enable the **Manual 2-Hour Override** feature:

1. IAR **Multisite Manual 2-Hour Override and Alarm Integration** Task must be applied and configured on **PDDEG-S**
2. **Dry Contact Input** used for the **Manual Override**, must be configured with a **Preset** function and a **Join Byte 0x83**

Each **preset** message, with the **join byte of 0x83**, will trigger 2-hour timer.

After 2 hours, system reverts to the previously scheduled scene.



Interact Retail multisite — Offsite preparation

System Builder | Additional configurations – Alarm Integration

Integrate Alarm, via the Dry Contact Inputs (DDMIDC8)

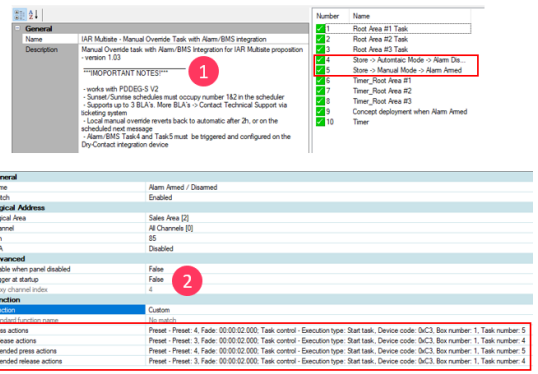
The **Dry Contact** interface, can provide integration with **Alarm systems**.

Specific configuration must be followed, in order to enable this functionality.

To integrate with an external **Alarm system:**

1. IAR **Multisite Manual 2-Hour Override and Alarm Integration** Task must be applied on **PDDEG-S**
2. Dry Contact Input used for the Alarm integration should be configured with a **Custom function,** and **Join Byte 0x85**
3. Configure following **input actions**:

- **Start task 5** on the PDDEG-S device, when the **Alarm** is being **armed**
- **Start Task 4** on the PDDEG-S device, when the **Alarm** is being **disarmed**



Alarm armed — Alarm disarmed

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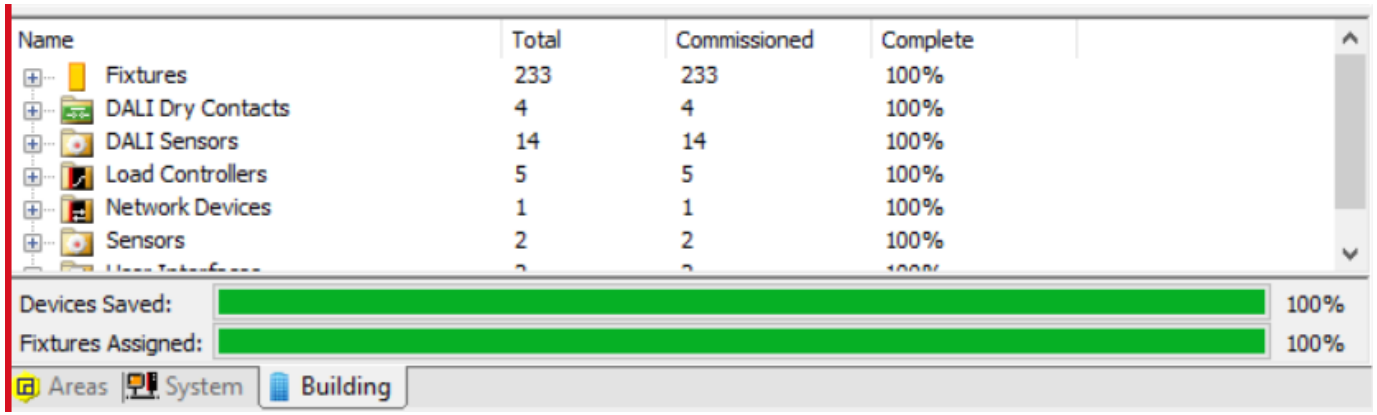
Commissioning | Verification

Make sure that the Building view of the job file shows:

1. 100% Devices Saved
2. 100% Fixtures Assigned



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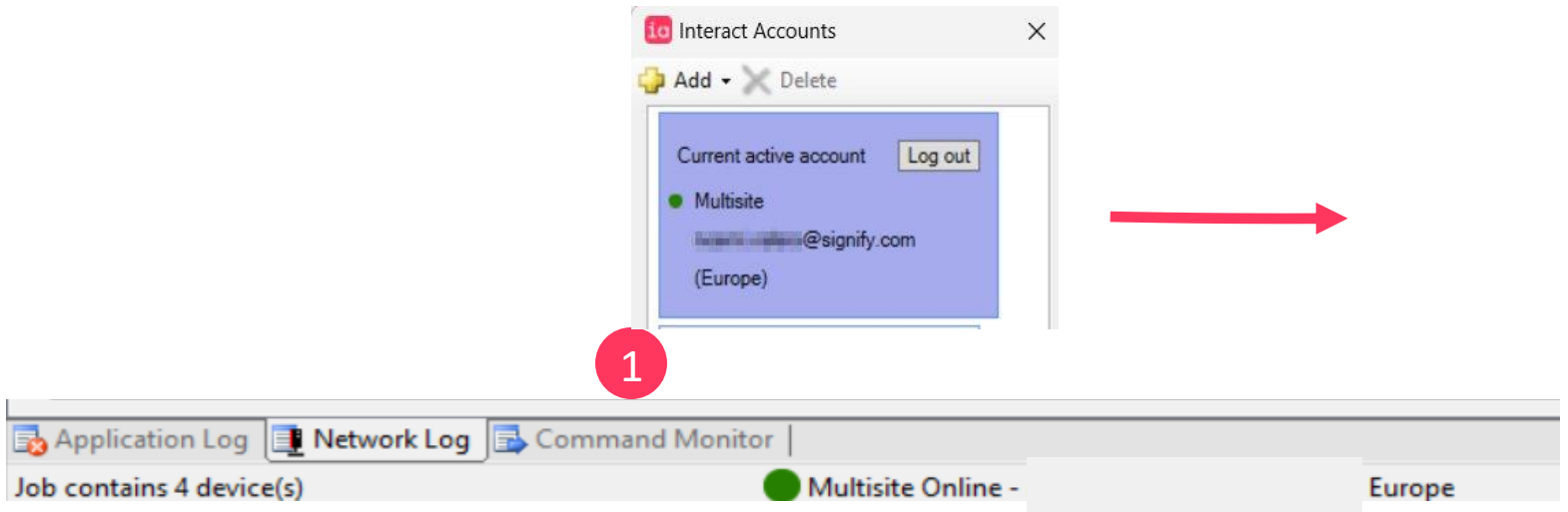
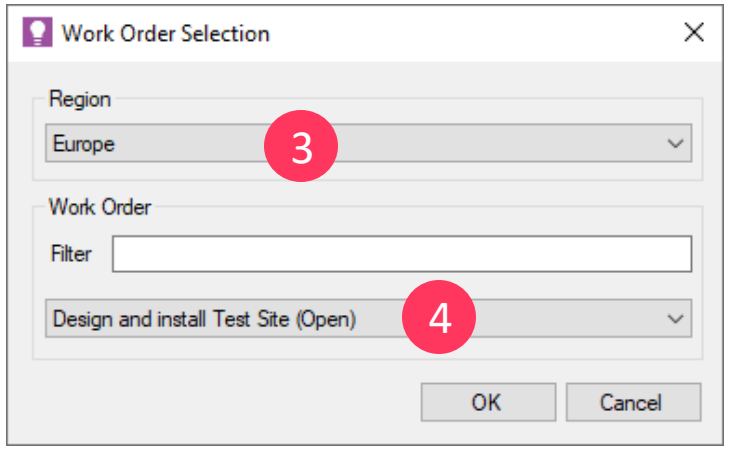
Commissioning | Save SB job file to the cloud

Save final job file to the cloud

1. Make sure System Builder is connected to the **Multisite account**
2. On the **File** menu, click **Save As** and select **Save Job To Cloud**
3. In the **Work Order Selection** menu, select the Region: Europe
4. Find and choose applicable work order, then click **OK**

*Wait until the file is successfully saved to the cloud. Observe progress in the **Application** logs.*





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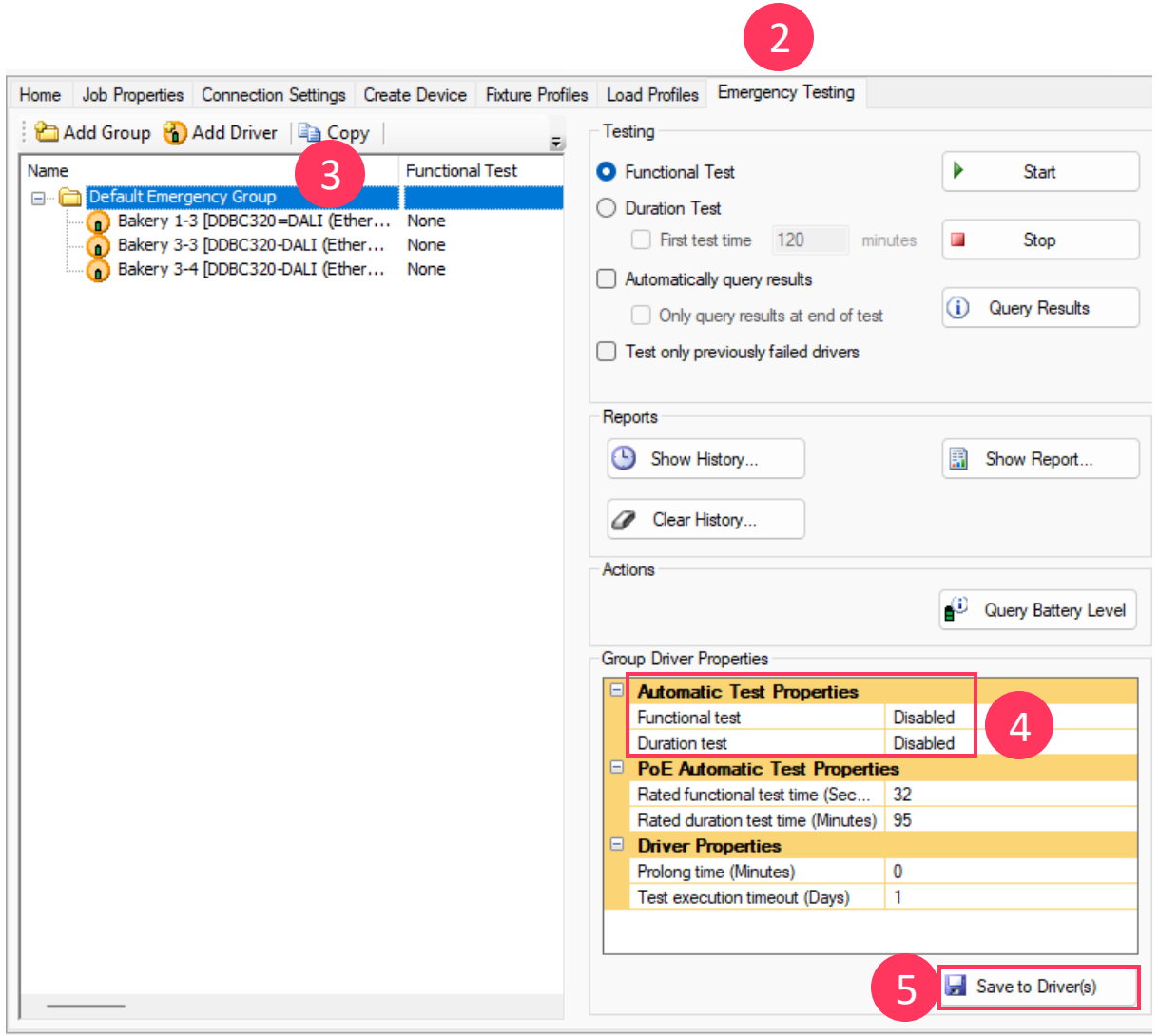
Onsite commissioning:
Connected Emergency Light Testing

Architecture FLX - Multisite

Connected emergency lighting testing

With all DALI luminaires addressed during onsite visit:

1. **Sign-on** all DALI controllers to ensure all are reachable
2. Go to **Emergency Testing** tab
3. Click on **Default Emergency Group**
4. Configure **Automatic Test Properties**, **disabling** Functional and Duration tests
5. Click Save to Driver(s) button. Monitor in network log saving progress



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Connected emergency lighting testing

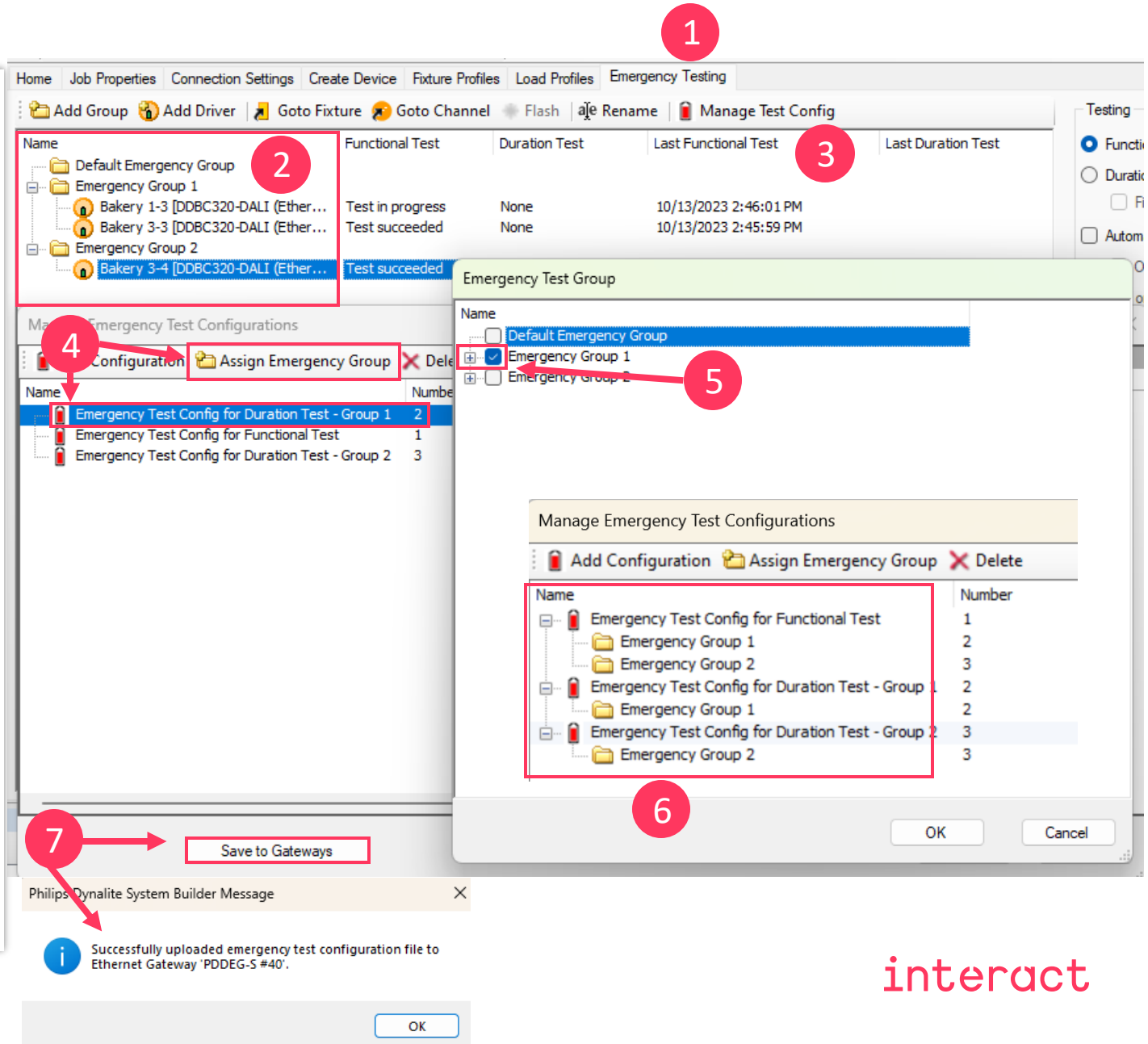
Remote Emergency Light testing feature, requires DALI controllers that are upgraded to :

- minimum FW version 1.12 / 2.12 for DDBC320
- minimum FW version = 1.22 / 2.22 for DDBC120

SB minimum version – 4.44.9

<u>With all DALI luminaires addressed during onsite visit:</u>

1. Go to Emergency Testing tab
2. Divide EM ballasts into existing Emergency Groups
3. Click **Manage Test Config**
4. Select **Test Configuration** and click **Assign Emergency Group**
5. Link desired **Emergency Group(s)** with corresponding **Test Configuration**
6. Repeat for all **Test Configurations**
7. Click "**Save to Gateways**" button



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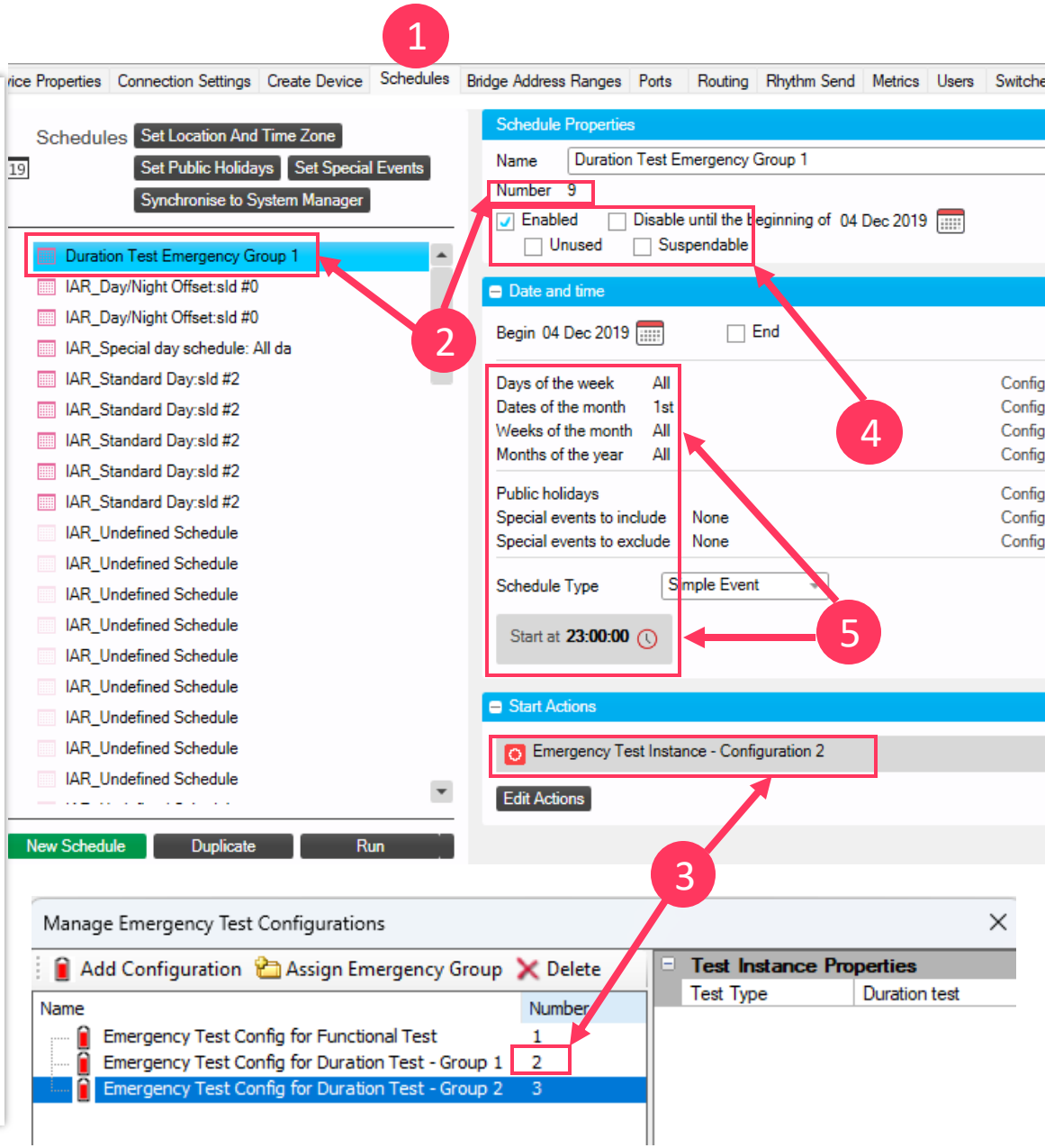
Connected emergency lighting testing

Please note that prior to this step:

- For **existing projects** -> **Re-deploy** concept and schedule from the cloud
- For **new projects** -> **make** initial **deployment from the mobile app** first

Create Emergency Schedules

1. After deployment **load from PDDEG-S** and go to **Schedules** tab
2. Schedules deployed from the Cloud will be **enabled** and consist of "IAR_" prefix. **Localize** first grayed out **"IAR_Undefined schedule"** and give it an appropriate name e.g. **Functional or Duration Test for group X**
3. Specify as an action **Emergency Test Instance** with desired **Test configuration number**
4. Ensure Emergency schedule is: **Enabled**, and flags **Unused** and **Suspendable** are not selected
5. Specify EM schedule occurrence based on input received from customer.
6. Repeat EM schedule creation process for each Test Configuration and test type
7. **Save changes** to PDDEG-S and save job file to the Cloud.



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Onsite validation:
Connected Emergency Light Testing

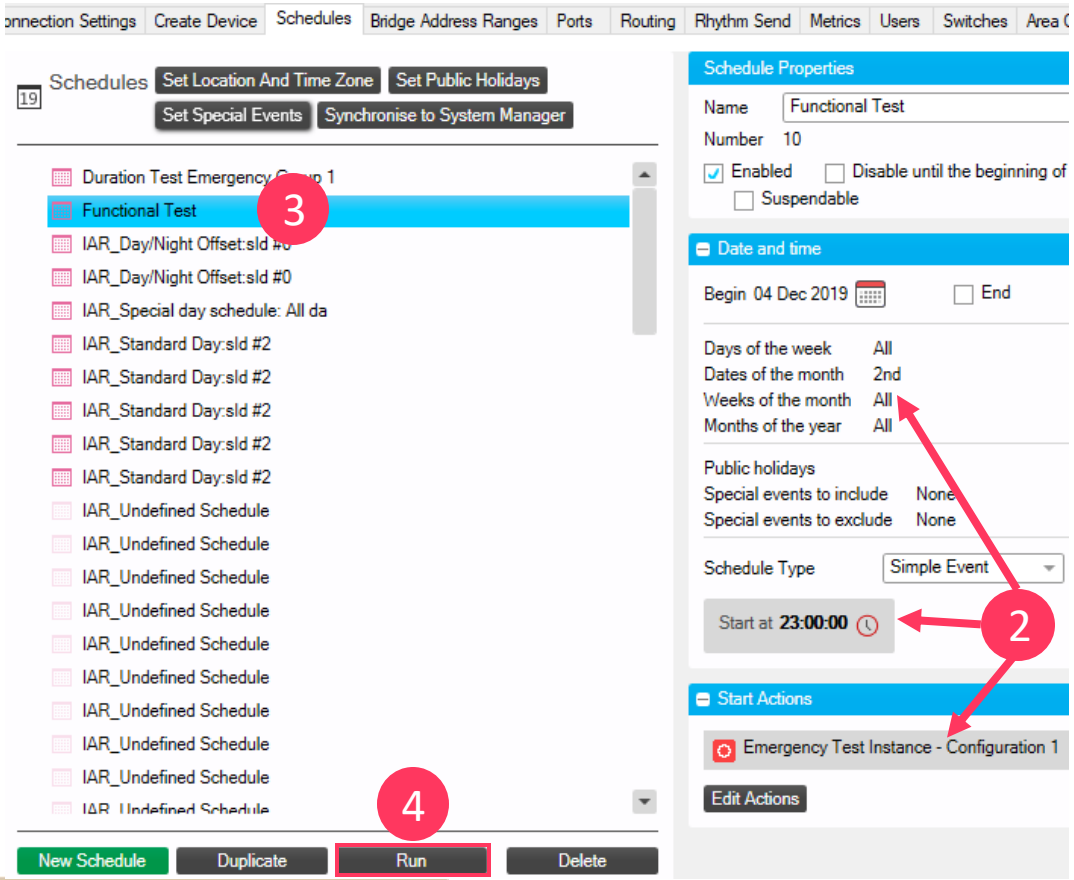
Architecture FLX - Multisite

Connected emergency lighting testing

Validation in System Builder

1. Go to **Schedules** tab on PDDEG-S.
2. Ensure all EM schedules are properly configured
   - Check defined actions
   - Validate execution time and schedule occurrence
3. Localize Schedule for **Functional** test and click on it.
4. Click **Run** to manually execute functional test
5 . Observe in network log files:

- If Functional test has been properly started for desired emergency groups
- Result of functional test is successful for all luminaires.



15843	11:42:38.027	AC 05 A9 C3 00 28 64 00 0E 0E 00 00 00 00 00 6B 91 00 8C 00 00 00 C3 4D	Emergency Test Result Acknowledgement - Cookie: 27537, Channel: 140
15842	11:42:37.993	AC 07 A8 64 00 0E C3 00 28 0E 00 00 00 00 00 6B 91 00 8C 00 00 FD 00 00 67 48 48 00 ...	Emergency Test Result Report - Functional, Cookie: 27537, Channel: 140, Test State: Succeeded, Battery: 99%, Test Runtime: 0 minutes, Start Timestamp: Local = 11/28/2024 11:37 AM, UTC =...
15841	11:42:37.064	AC 05 A9 C3 00 28 64 00 0E 0E 00 00 00 00 00 6B 91 00 8B 00 00 00 BF 4C	Emergency Test Result Acknowledgement - Cookie: 27537, Channel: 139
15840	11:42:36.992	AC 07 A8 64 00 0E C3 00 28 0E 00 00 00 00 00 6B 91 00 8B 00 00 FD 00 00 67 48 48 00 ...	Emergency Test Result Report - Functional, Cookie: 27537, Channel: 139, Test State: Succeeded, Battery: 99%, Test Runtime: 0 minutes, Start Timestamp: Local = 11/28/2024 11:37 AM, UTC =...
15839	11:42:36.044	AC 05 A9 C3 00 28 64 00 0E 0E 00 00 00 00 00 6B 91 00 89 00 00 00 B7 4A	Emergency Test Result Acknowledgement - Cookie: 27537, Channel: 137
15838	11:42:36.000	AC 07 A8 64 00 0E C3 00 28 0E 00 00 00 00 00 6B 91 00 89 00 00 FD 00 00 67 48 48 00 ...	Emergency Test Result Report - Functional, Cookie: 27537, Channel: 137, Test State: Succeeded, Battery: 99%, Test Runtime: 0 minutes, Start Timestamp: Local = 11/28/2024 11:37 AM, UTC =...
15837	11:42:00.013	AC 05 A9 C3 00 28 64 00 0E 0E 00 00 00 00 00 6B 91 00 8C 00 00 00 C3 4D	Emergency Test Result Acknowledgement - Cookie: 27537, Channel: 140
15836	11:41:59.992	AC 07 A8 64 00 0E C3 00 28 0E 00 00 00 00 00 6B 91 00 8C 00 02 FF 00 00 67 48 48 00 ...	Emergency Test Result Report - Functional, Cookie: 27537, Channel: 140, Test State: Started, Battery: Level Unavailable, Test Runtime: 0 minutes, Start Timestamp: Local = 11/28/2024 11:37 A...
15835	11:41:55.296	AC 06 A9 64 00 0E C3 00 28 09 00 00 00 00 00 6B 91 00 03 00 00 00 00 00 00 00 08 C0	Start Group Emergency Test - Successfully Started, Cookie: 27537, Group: 3
15834	11:41:55.188	AC 06 A8 C3 00 28 64 00 0E 09 00 00 00 00 00 6B 91 00 03 00 67 48 48 E3 00 00 00 CF 99	Start Group Emergency Test - Functional, Cookie: 27537, Group: 3
15833	11:41:53.037	AC 05 A9 C3 00 28 64 00 0E 0E 00 00 00 00 00 6B 91 00 8B 00 00 00 BF 4C	Emergency Test Result Acknowledgement - Cookie: 27537, Channel: 139
15832	11:41:53.004	AC 07 A8 64 00 0E C3 00 28 0E 00 00 00 00 00 6B 91 00 8B 00 02 FF 00 00 67 48 48 00 ...	Emergency Test Result Report - Functional, Cookie: 27537, Channel: 139, Test State: Started, Battery: Level Unavailable, Test Runtime: 0 minutes, Start Timestamp: Local = 11/28/2024 11:37 A...
15831	11:41:52.052	AC 05 A9 C3 00 28 64 00 0E 0E 00 00 00 00 00 6B 91 00 89 00 00 00 B7 4A	Emergency Test Result Acknowledgement - Cookie: 27537, Channel: 137
15830	11:41:52.004	AC 07 A8 64 00 0E C3 00 28 0E 00 00 00 00 00 6B 91 00 89 00 02 FF 00 00 67 48 48 00 0...	Emergency Test Result Report - Functional, Cookie: 27537, Channel: 137, Test State: Started, Battery: Level Unavailable, Test Runtime: 0 minutes, Start Timestamp: Local = 11/28/2024 11:37 A...
15829	11:41:45.164	AC 06 A9 64 00 0E C3 00 28 09 00 00 00 00 00 6B 91 00 02 00 00 00 00 00 00 00 00 BF	Start Group Emergency Test - Successfully Started, Cookie: 27537, Group: 2
15828	11:41:45.048	AC 06 A8 C3 00 28 64 00 0E 09 00 00 00 00 00 6B 91 00 02 00 67 48 48 E3 00 00 00 C6 98	Start Group Emergency Test - Functional, Cookie: 27537, Group: 2
15827	11:41:40.247	AC 05 A9 C3 00 28 C3 00 28 08 00 00 00 00 00 6B 91 00 01 00 00 00 A5 35	Create Emergency Test Instance - Successfully Created, Cookie: 27537
15826	11:41:40.193	AC 04 A8 C3 00 28 C3 00 28 08 00 00 00 00 00 00 00 00 00 01 4E 37	Create Emergency Test Instance - Cookie: 0, Config: 1
15825	11:41:40.185	AC 03 A1 DA 00 01 C3 00 28 82 00 0A 00 0A 3C AC	Event Control - Trigger event (Event 10)

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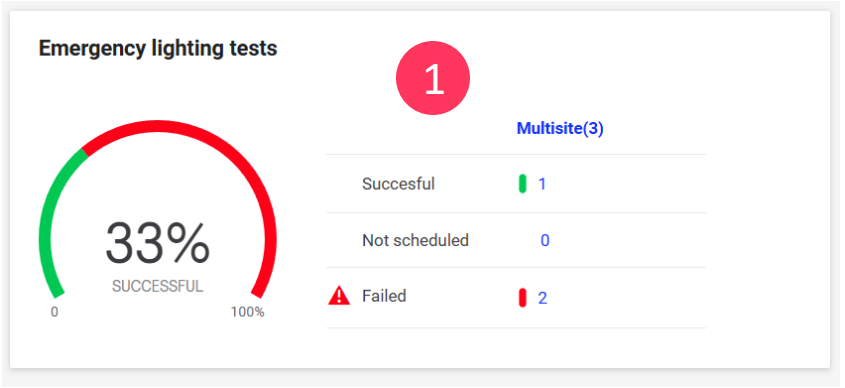
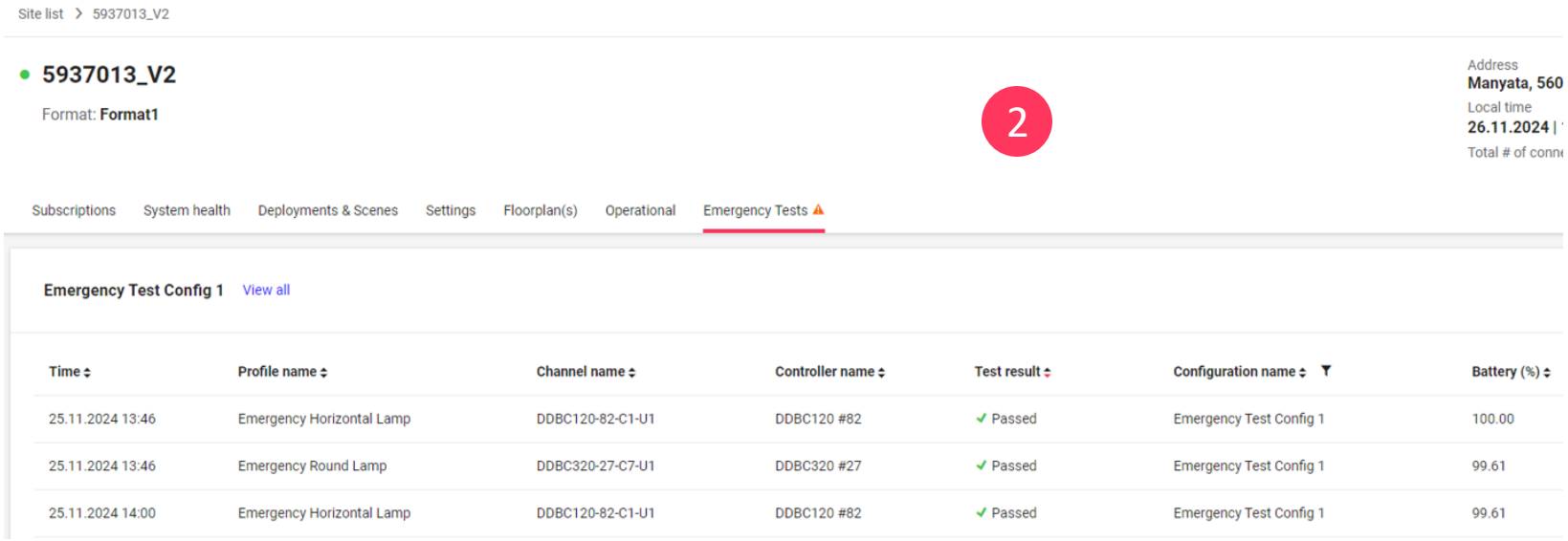
Connected emergency lighting testing

Validation in the Cloud

1. Check in **Assets Tab** and on the **Emergency lighting tests** tile, if result of the performed test is reflected there.
2. In **Site list** view select the site and go to **Emergency Tests** tab . Observe if Emergency test results are populated.





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Onsite commissioning: Metered Energy

Architecture FLX - Multisite

Multisite metered energy | Additional configurations

While using Modbus RS485 architecture :

- Update **PDDEG-S** firmware version to **1.23** or higher.
- Upgrade **PDEG/PDEB** firmware version to **3.58** or higher.
- Upgrade **DDNG485v3** firmware version to the latest version.

Modbus Meter settings:

- Configure **Meter Address** and **Baud Rate** (supported Baud Rates are : **9600, 19200, 38400**).
- Configure other **Data Format** parameters as follow: **Half-duplex**, ***Data bits* 8**, ***Parity None***, ***Stop bits* 1**.
- Ensure **IP Address** on the Modbus Meter equals IP address configured on the Meter in System Builder.
- Ensure **Port** specified on the Modbus Meter equals port configured on the Meter in System Builder.
- Verify general electrical configurations and if applicable configure Current Transformers ratio.

Modbus Meter	
Enable	Enabled
Meter Address	10
IPv4 Address	192.168.1.5

Port	
Port type	Modbus gateway
Baudrate	38400
Delay (milliseconds)	5
Retry delay (milliseconds)	300
Port mode	Half duplex
Data bits	Data bits 8
Parity	Parity none
Stop bits	Stop bits 1
DMX max Channel	65535
Trust DyNet	True
Pass Non DyNet	True
Pass DyNet	True
Handshake	RS485
Zero DMX levels enabled	True
Modem	False
Echo	False
Query Delay	65535

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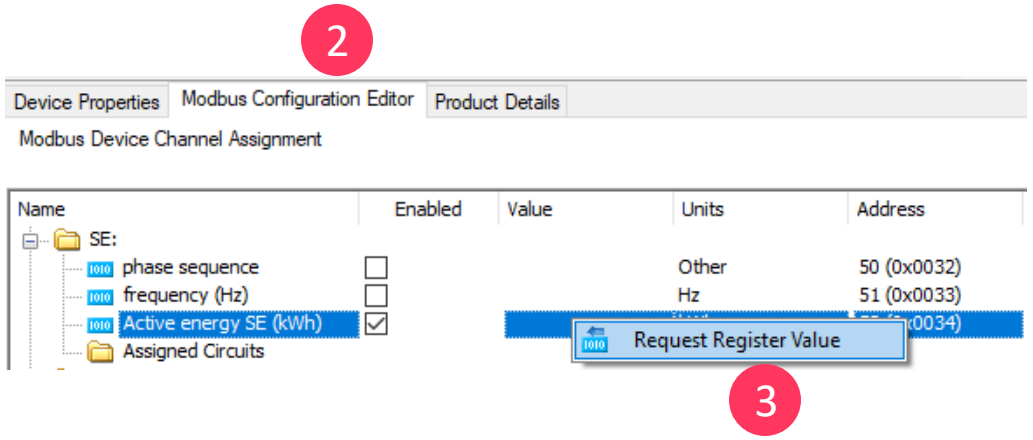
Onsite validation: Metered Energy

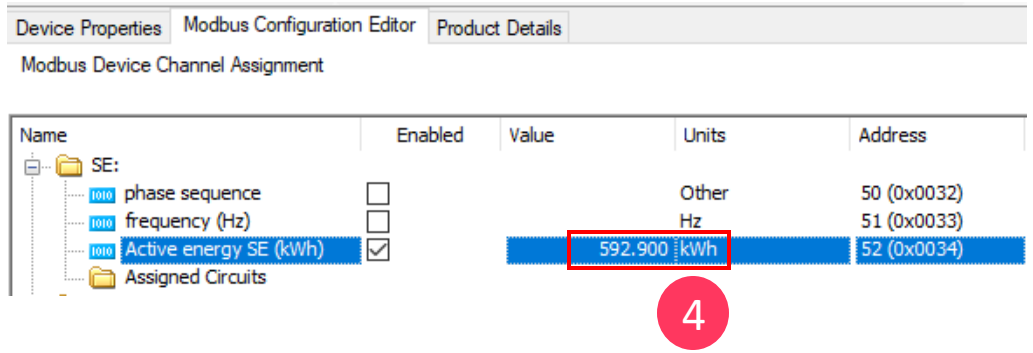
Architecture FLX - Multisite

Multisite metered energy | Onsite validation

1. In the **System** view, click on the **Modbus Meter.**
2. Go to **Modbus Configuration Editor** tab.
3. Right click on the **Active Energy** register and select **Request Register Value**.
4. Confirm that Register Value is being populated. Verify against expected consumption.
5. Observe SB network logs and confirm that **Binary Metric Data** is being generated every 15 minutes.

***Note**: Approximately after 1 hour the Metered Energy data will start to be presented in the Customer`s dashboard.*





Local Time	Data	Description
15:36:42.476	AC 08 A3 DC 00 1F AA 55 55 07 00 14 00 00 01 01 01 DC 00 1F...	Binary Metric Data - Metric type: Channel Energy, Data: [Value: 3701600 Wh], Metric address: [DC:0xDC, BN:31], Modbus device address: 11, Modbus register address: 52, Metric version: 1.1, Header version: 1.1
15:51:42.567	AC 08 A3 DC 00 1F AA 55 55 07 00 14 00 00 01 01 01 DC 00 1F...	Binary Metric Data - Metric type: Channel Energy, Data: [Value: 3703100 Wh], Metric address: [DC:0xDC, BN:31], Modbus device address: 11, Modbus register address: 52, Metric version: 1.1, Header version: 1.1

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Site validation

Architecture FLX - Multisite

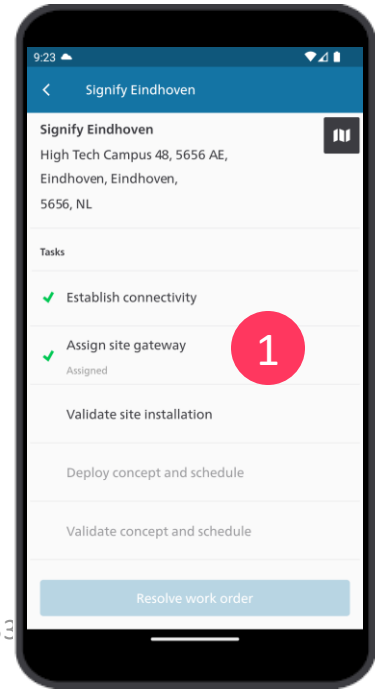
Site validation | Mobile app

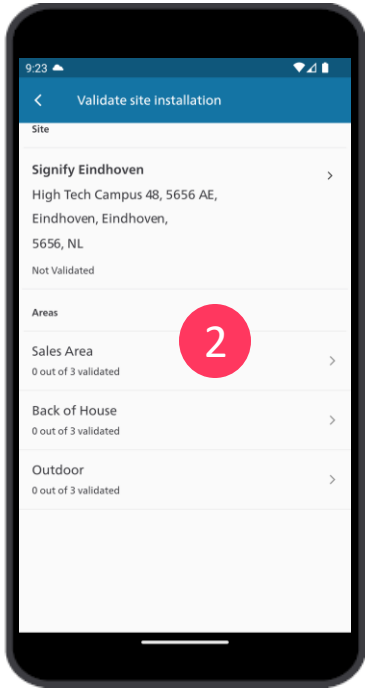
Validate Areas, Child Areas and Logical Channels

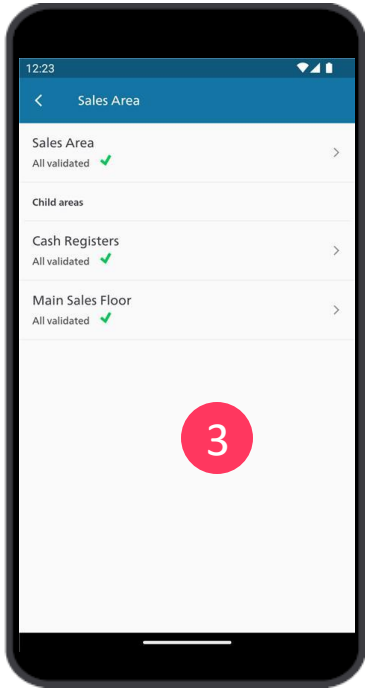
1. In the app, tap **Validate site installation**
2. Tap the name of a **Parent Area**
3. Tap the name of a **Child Area**
4. Tap the name of a **Logical Channel**
5. Tap the buttons and check visually if the lights respond accordingly. Correct if necessary.
6. When the lights respond as expected, tap **Yes, confirm**

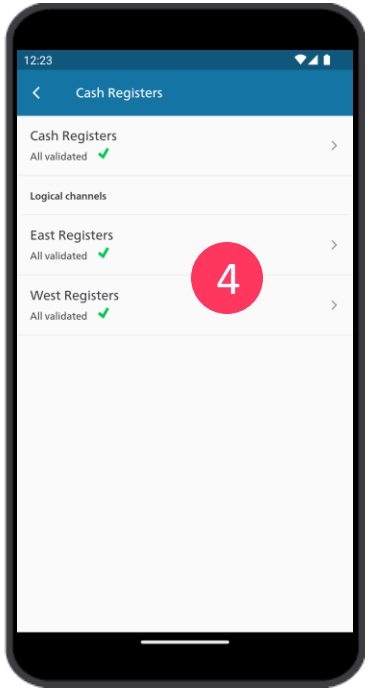
Repeat for all existing **Parent Areas**, **Child Areas** and **Logical Channel**

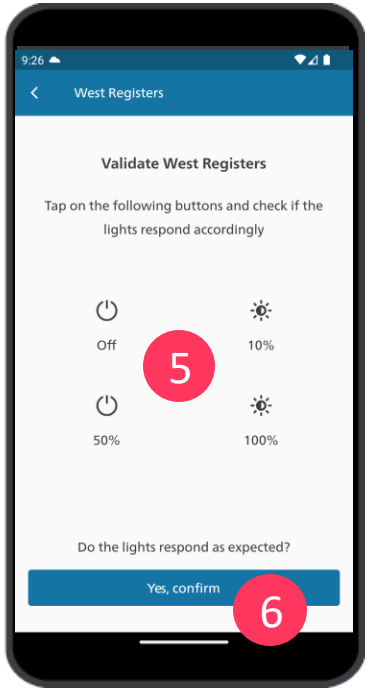
Make sure **Site**, **Areas**, **Child Areas** and **Logical Channels** are validated → ✓











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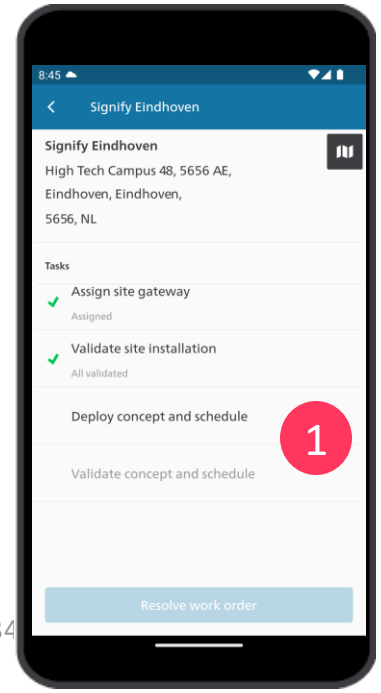
Site validation | Mobile app

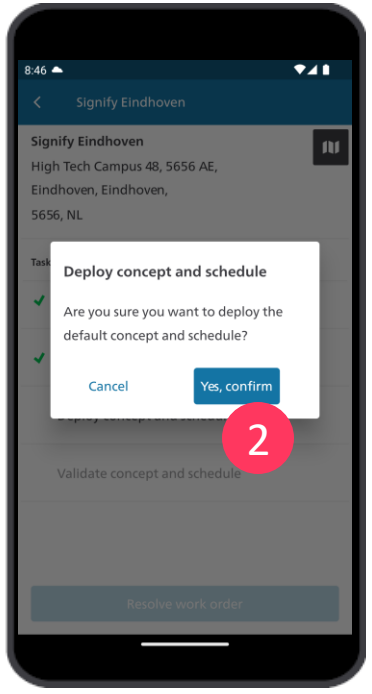
Deploy and validate concepts and schedules

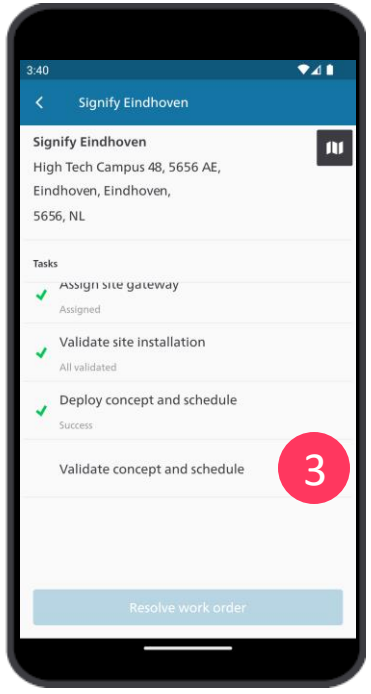
Please make sure, that the default concept and schedule are prepared in the cloud during **Offsite preparation**

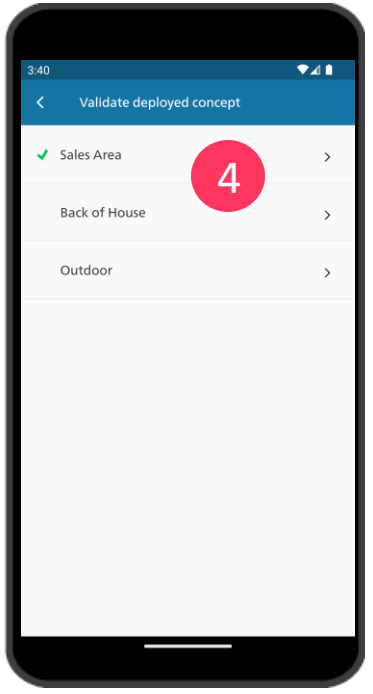
1. In the **Tasks** page, tap **Deploy concept and schedule**
2. Tap **Yes, confirm,** to deploy default concept and schedule
3. Tap **Validate concept and schedules**
4. Tap the name of a **Parent area**
5. Tap the buttons and check visually, if the lights respond accordingly. Correct if necessary.
6. When the lights respond as expected, tap **Yes, confirm**

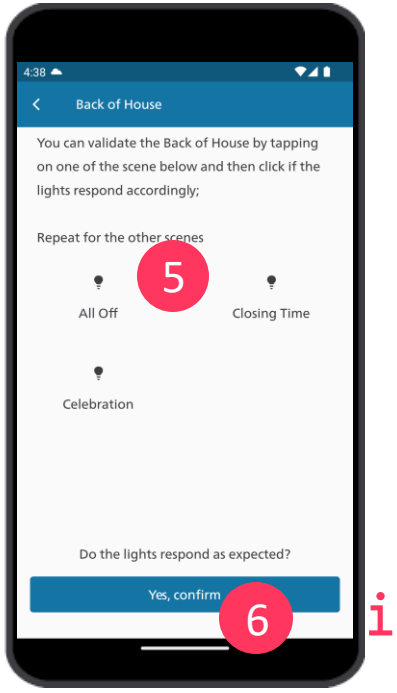
Repeat for all other **Parent areas**. Make sure to validate all Areas → ✓











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Multisite

Site acceptance test

For a complete revision, use the Site acceptance test document located in the Partner Portal under:

Technical documentation>Architecture FLX - Multisite

Use this Excel to check in Multisite System Manager if the commissioning has been fully done. System Builder checks are also included in this document to ensure there won't be any issues due to wrong or missing configuration.

ID	Environment	Category	Task	Test Procedure Description	Expected Result	Resource	Result
1	PDE	End to end validation	Validate Site installation	Open the project workorder in Philips Dynalite Enabler app and make sure you've finalized Validating site installation, which includes validating as well: - Channels - Child Areas - Parent Areas - Site	A green tick should appear before each group, and also before "Validate site installation".		PASS ☐ FAIL ☐
2	PDE	End to end validation	Validate Deployment	Ensure deployment of default Schedule and Concept has been done. Otherwise, proceed with the Deployment.	A green tick should appear before Concept and Schedule, and also before "Deploy concept and schedule".		PASS ☐ FAIL ☐
3	PDE	End to end validation	Validate deployed scenes (presets) for each Parent Area	For each Parent Area, Validate all deployed Scenes.	A green tick should appear before each Parent Area, and also before "Validate concept and schedule".		PASS ☐ FAIL ☐
4	MSM	Data validation of MSM	Configuraiton tab: Areas, Scenes & Channels	Review the configuration of the following elements: - Parent Area numbers / names / day&night mode. - Scene names/numbers - Child Area numbers / names. - Channel numbers /names / type.	Configuration should match the one in the Project Intake document.		PASS ☐ FAIL ☐
5	MSM	Data validation of MSM	Configuraiton tab: Smart Meter Groups	Ensure that Smart meter groups are configured as per design: - Q-ty of smart meter groups - Smart meter groups naming - Assignment to all or specific format(s).	Configuration should match the one in the Project Intake document.		PASS ☐ FAIL ☐ N/A ☐

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Project delivery

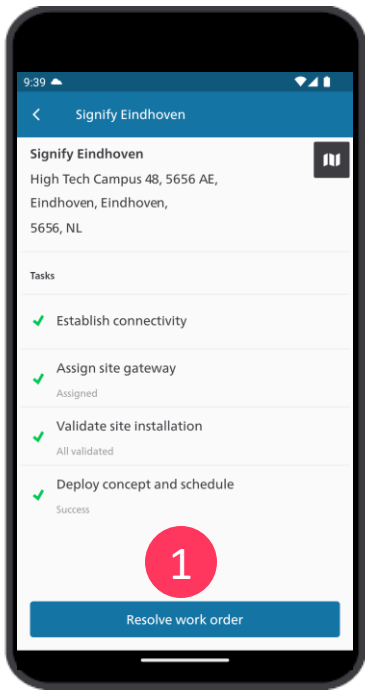
Architecture FLX - Multisite

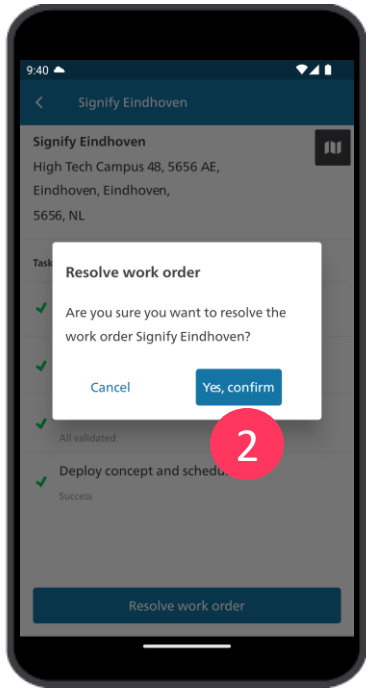
Project delivery | Mobile app

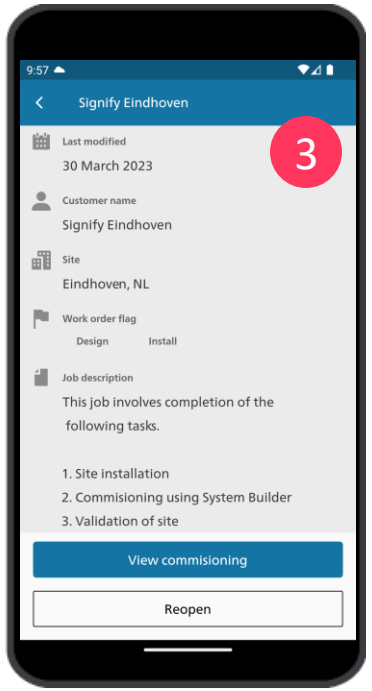
On the successful **Site validation**, all the **Tasks** are completed and marked as ✓

Resolve work order

1. Tap **Resolve work order**
2. Tap **Yes, confirm** to resolve the work order
3. Work order changes the state to **Resolved**







Congratulations !!!

Site is ready to use !

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Project delivery | Customer handover

With the **Multisite System** fully commissioned , **Site-Engineer** delivers the project to the **Market** organization.

It is up to the Market to **plan the final handshake with the Customer**, either on-site or remotely.

<u>For the successful handover:</u>

1. Make sure a **user account is created** for the customer (OTRS ticket)
2. User has an appropriate role assigned of the **Format** or the **Facility Manager** (OTRS ticket)
3. Print out the latest **User Guide** document.

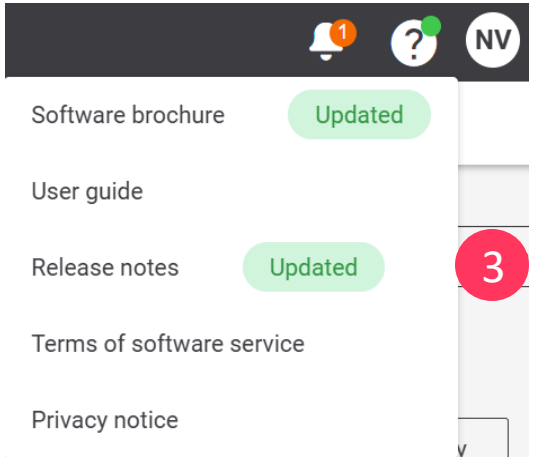
   This document can be found on the **Signify Partner Portal** or directly in the cloud **Dashboard**
4. Based on the User Guide **train the Customer** on how to use our system.

Engage with the Customer using a monthly generated report.

Use this opportunity to discuss further projects and gain feedback on our system.

User Guide

Interact Retail multisite 1.3



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Request for support

Architecture FLX - Multisite

C4CS ticket: BSR (Business support request)

http://www.c4cs.signify.com

Business support request ticket

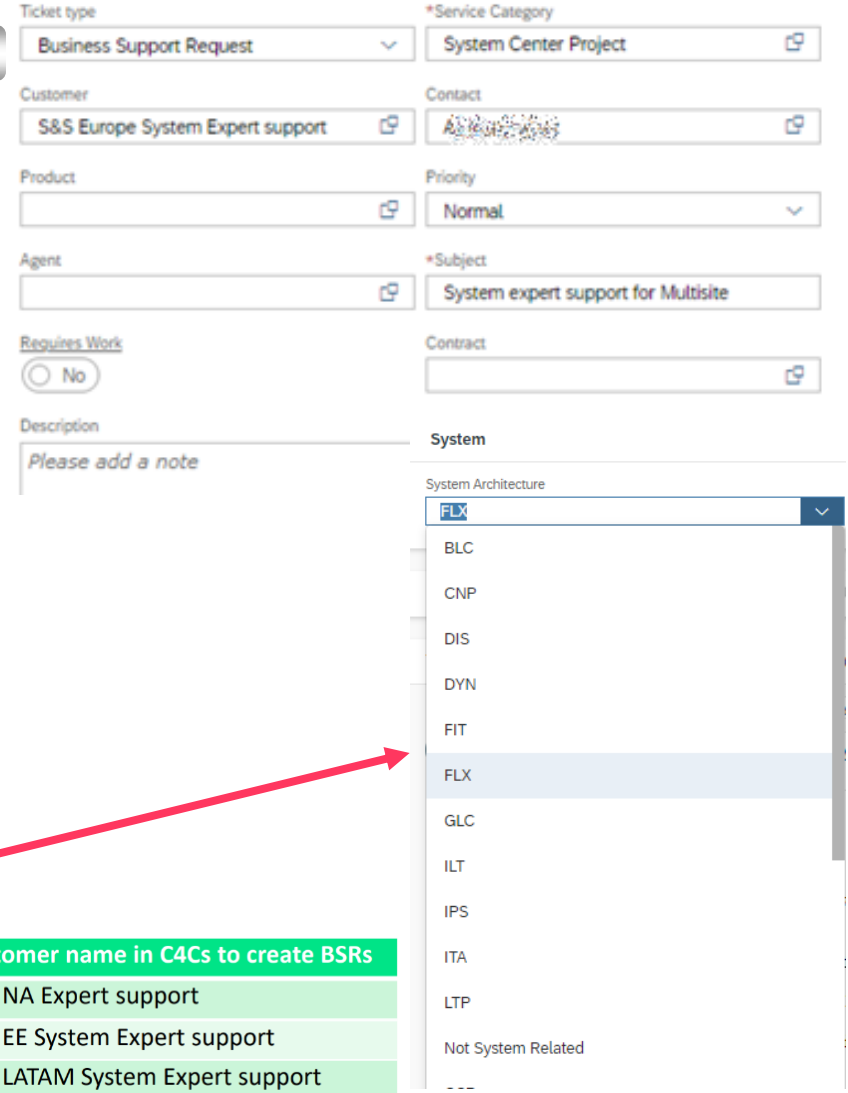
To request System Expert support **always create BSR** ticket in the **C4CS** system

Follow specific to your organization Business Support Request ticket (BSR)

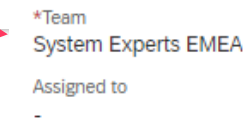
- **CSAT** - follow standard BSR ticket creation process: Instruction for CSAT
- **S&S** - follow "one stop" approach: Instruction for S&S
- **CSI** – use the webform on the new Partner Portal

While creating BSR ticket (applicable for CSAT and S&S) remember to:

- Accurately phrase your question, attach all related files, describe project, configuration, software firmware versions.
- Specify a proper system architecture : **FLX**
- Address ticket to System Experts team (not to the specific person)



S&S Market	Customer name in C4Cs to create BSRs
S&S North America	S&S NA Expert support
S&S Eastern Europe	S&S EE System Expert support
S&S LATAM	S&S LATAM System Expert support
S&S METAP	S&S METAP System Expert support
S&S Europe	S&S Europe System Expert support



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Lesson review

Architecture FLX - Multisite

Lesson review | Onsite installation, commissioning and validation

In this lesson, you:

- Explored the four steps to be taken in the on-site commissioning and validation process
  - Site gateway configuration: saving and upgrading the bridge through System Builder, and establish connectivity through the Philips Dynalite Enabler app.
  - Commissioning: resaving the final System Builder project to the cloud after localizing and saving all devices on the network, including the individual DALI physical channels when needed.
  - Optional configuration for Connected Emergency light testing and Energy Metering
  - Site validation: divided into validation and deployment of both schedule and concept.
  - Hand over to the end user: which requires to resolve the work order.
- Got familiarized with the tools required for onsite commissioning.

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