

RAPIX COMMISSIONING 2

USING RAPIX INTEGRATOR

18 MAY 2022



COURSE PURPOSE

Advanced RAPIX Commissioning.

This will help you to understand:

- The RAPIX Integrator Software
 - Zone Controllers
 - Zones
 - Scenes
 - Operating Properties and Flags
 - Schedules
 - Floor Plans

COURSE PURPOSE

Pre-requisites.

It is recommended that you have already completed:

- DALI Basics;
- RAPIX Introduction;
- RAPIX Commissioning 1 - RAPIX Addressing.

RAPIX INTEGRATOR



RAPIX INTEGRATOR

RAPIX Integrator

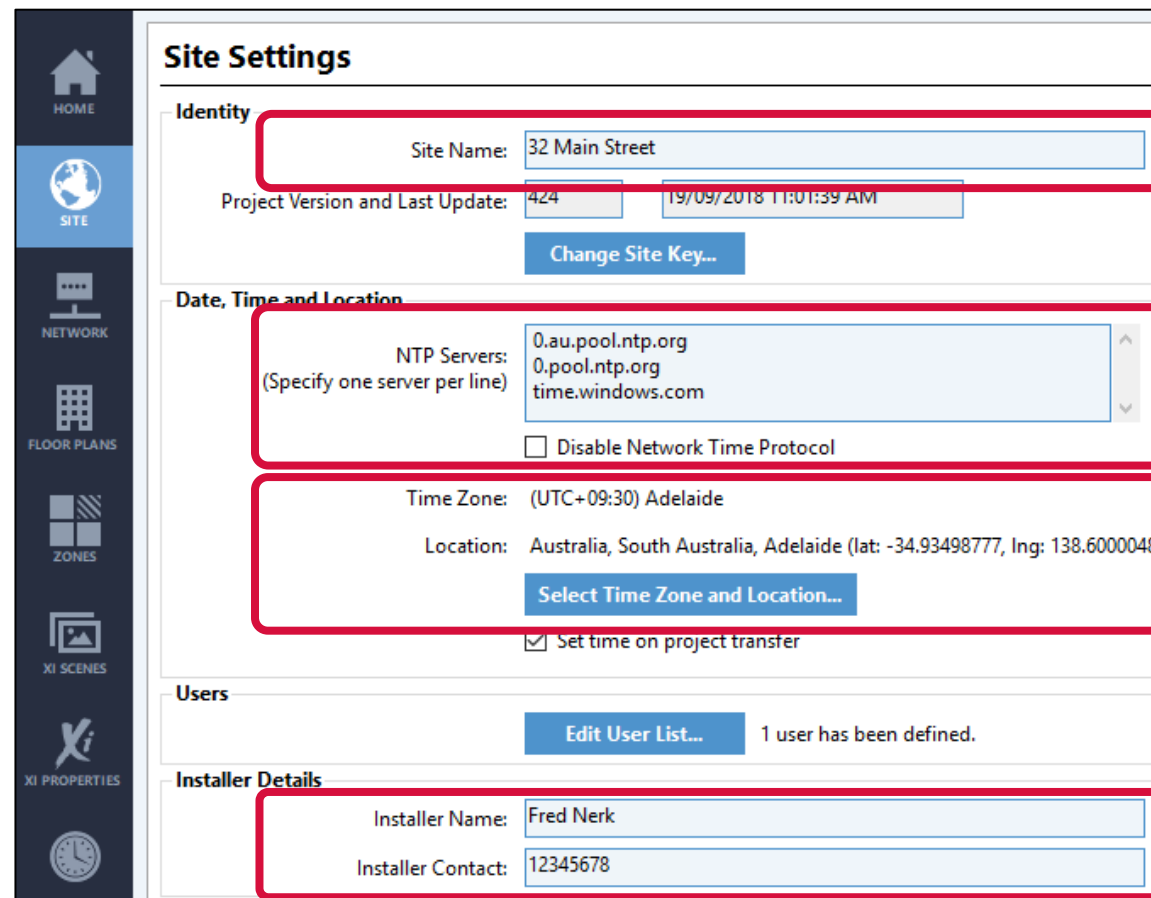
- Provides all functions of RAPIX Addressing:
 - Addressing devices;
 - Configuring DALI Devices;
 - Configuring eHubs;
 - **See the “RAPIX Commissioning 1 - RAPIX Addressing” presentation for details.**
- In addition:
 - Support for Zone Controllers;
 - Multi-Line Zones and Scenes;
 - Operating Properties and Flags;
 - Scheduling;
 - Logic;
 - Floor Plans.

PROJECT



PROJECT

- A RAPIX Integrator “Project” normally corresponds to a building site
- Site Settings:



Site Settings

Identity

Site Name: 32 Main Street

Project Version and Last Update: 424 19/09/2018 11:01:39 AM

Change Site Key...

Date, Time and Location

NTP Servers: 0.au.pool.ntp.org
0.pool.ntp.org
time.windows.com
(Specify one server per line)

☐ Disable Network Time Protocol

Time Zone: (UTC+09:30) Adelaide

Location: Australia, South Australia, Adelaide (lat: -34.93498777, lng: 138.6000048)

Select Time Zone and Location...

☒ Set time on project transfer

Users

Edit User List... 1 user has been defined.

Installer Details

Installer Name: Fred Nerk

Installer Contact: 12345678

Site name or address

NTP Options
(for synchronizing the time)

Time-zone and location
(for calculating local time,
sunrise and sunset)

Installer contact details
(important)

PROJECT

■ Site Settings:

■ Users

- Provides secure access to third-party systems
- See the “RAPIX Security” presentation for details

1. Click to view, add or edit the users

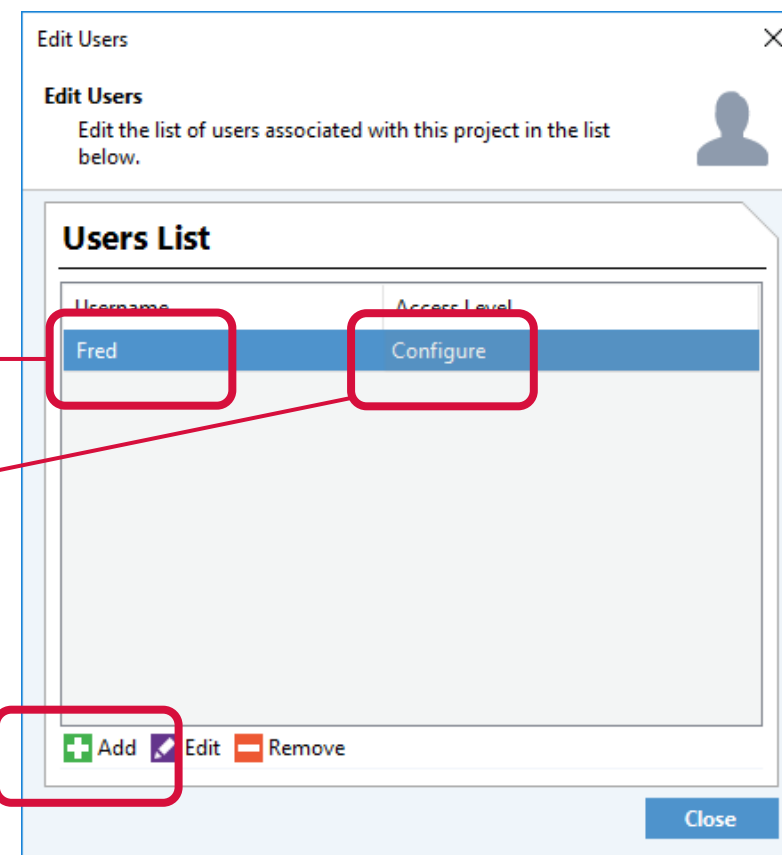


2. User Name

Access Level

- View
- Control
- Configure

3. Click to add new user



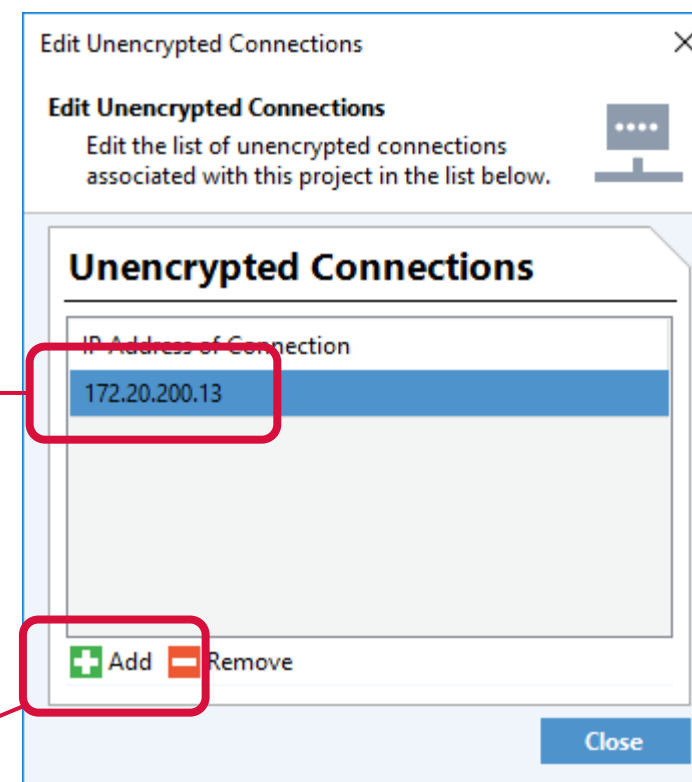
PROJECT

- Site Settings:
 - Unencrypted Connections
 - Provides access to third-party systems
 - See the “RAPIX Security” presentation for details.

1. Click to view, add or edit the connections



2. Address of connecting device



3. Click to add new connection

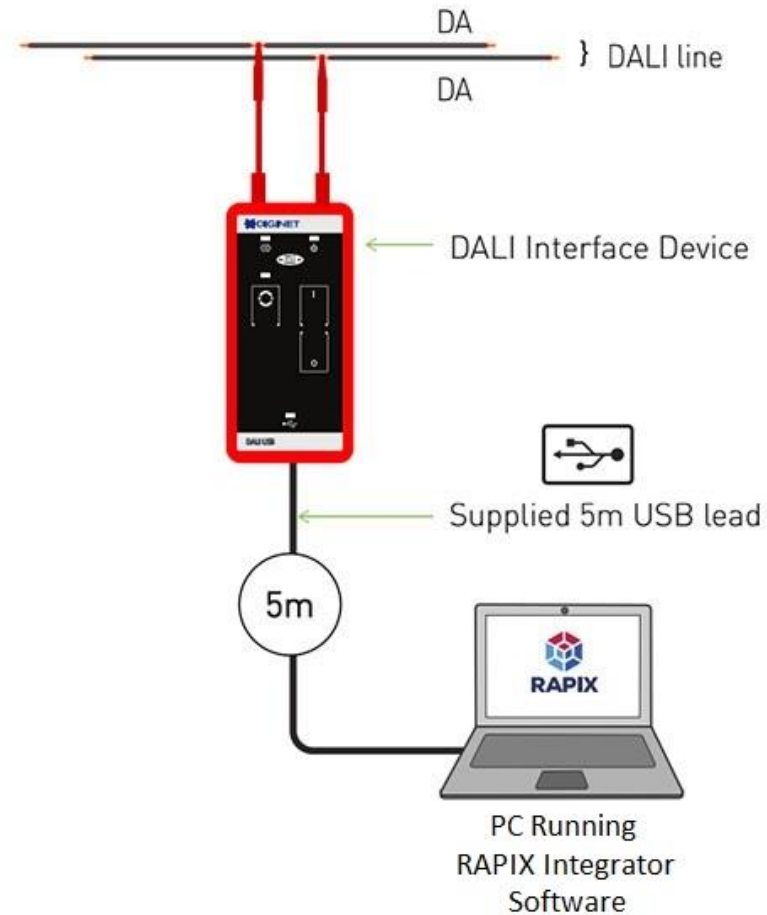
CONNECTING TO DALI



CONNECTING TO DALI

Connecting with USB Interface

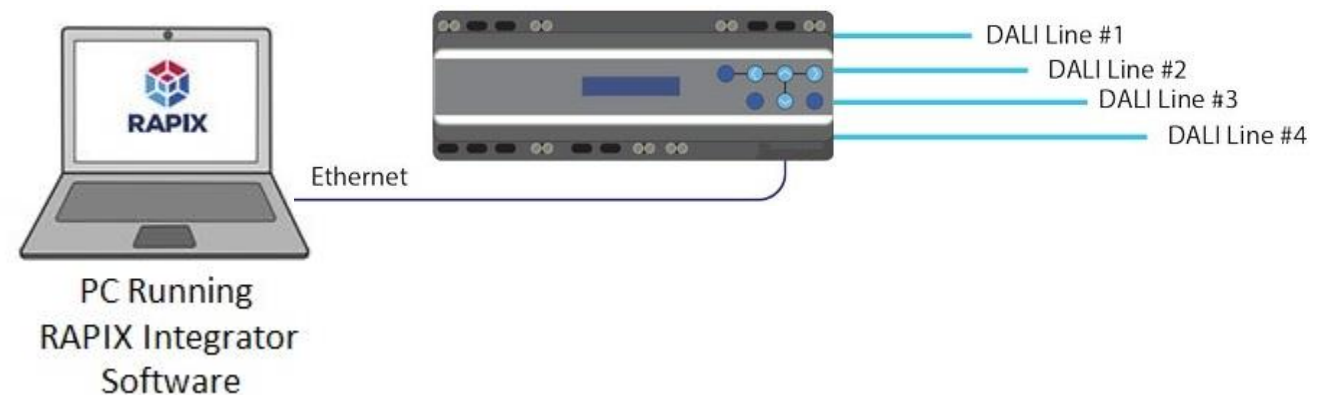
- Connect to each DALI Line in turn
- Does not need infrastructure installed
 - **Not Required:** Zone Controllers
 - **Not Required:** Ethernet switches.



CONNECTING TO DALI

Connecting with a single Zone Controller

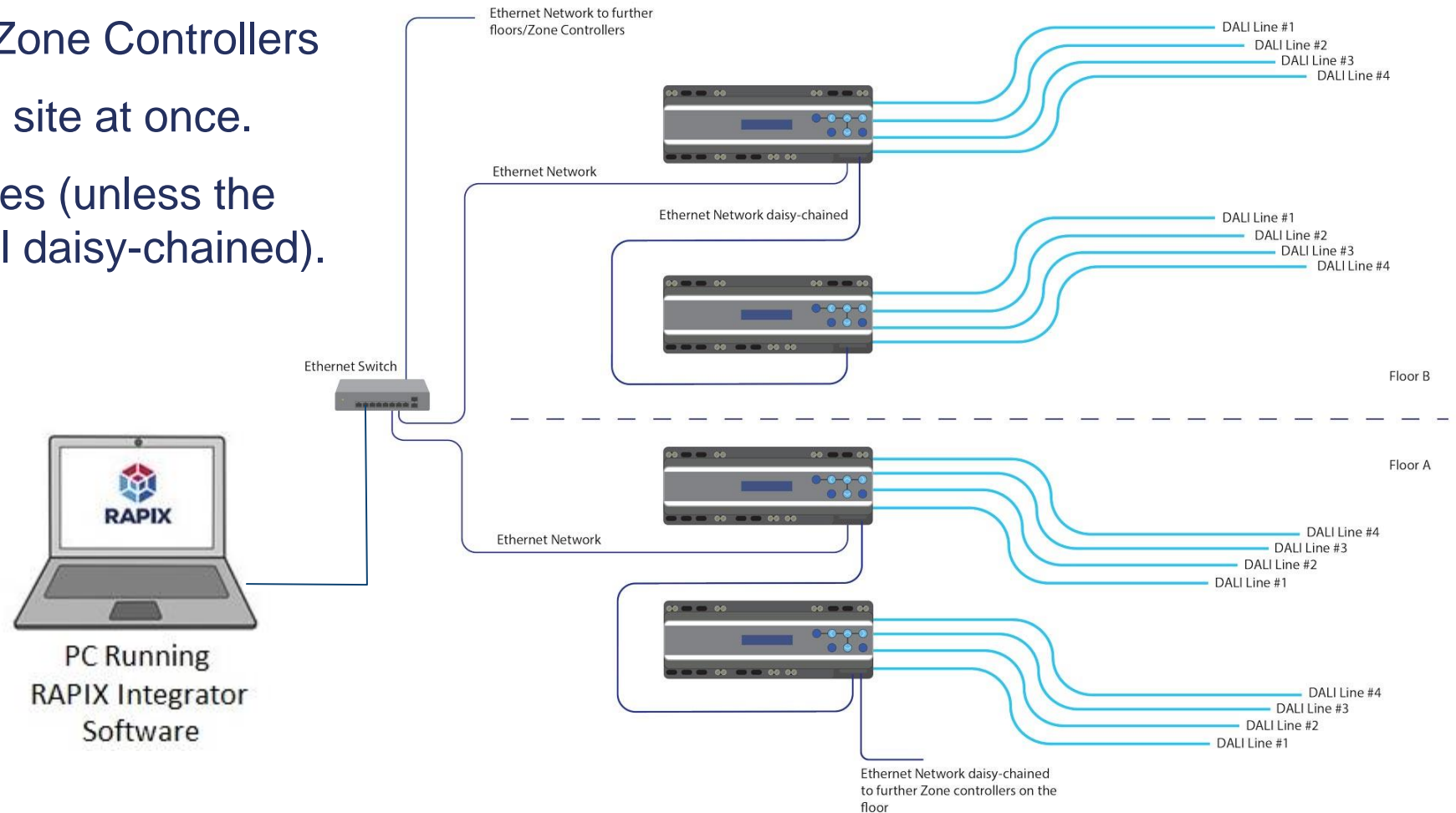
- Can do 4 DALI Lines at once
- Does not need networking infrastructure installed
 - **Not Required:** Ethernet switches.



CONNECTING TO DALI

Connecting with multiple Zone Controllers

- Can commission entire site at once.
- **Needs** Ethernet switches (unless the Zone Controllers are all daisy-chained).



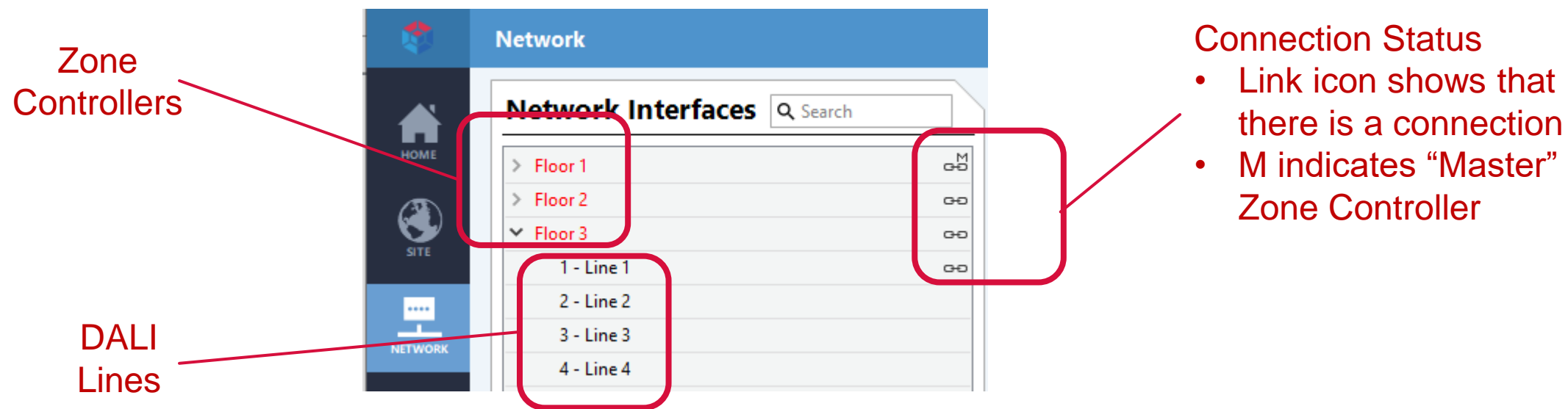
ZONE CONTROLLERS



ZONE CONTROLLERS

- Zone Controllers perform a variety of functions:
 - Connecting DALI Lines into a single virtual network;
 - Provide an interface between RAPIX Integrator and the DALI Lines;
 - Scheduling;
 - Script (logic) execution;
 - Logging
 - See the “RAPIX Testing and Debugging” presentation for details;
 - Allows 3rd party to connect to RAPIX to control and monitor lights.

ZONE CONTROLLERS



ZONE CONTROLLERS

Adding Zone Controllers to a project:

- RAPIX Integrator scans for Controllers on the local network when creating a new Project.
- Click **Add** to add selected Controllers to the Project
 - Can only add Controllers that do not have a project in them.

Discover Zone Controllers

Search for New Zone Controllers on the Network
Below is a list of Zone Controllers that have been found. Select the Zone Controllers that you wish to add to your project.

Zone Controllers

IP Address ^	Name	Serial Number	Project	Available	Selected
172.20.205.1	172.20.205.1	00:00:03:7D	<No Project>	● Yes	<input checked="" type="checkbox"/>
172.20.205.2	172.20.205.2	C8:00:03:F4	<No Project>	● Yes	<input checked="" type="checkbox"/>
172.20.205.3	172.20.205.3	C8:00:03:EC	<No Project>	● Yes	<input checked="" type="checkbox"/>

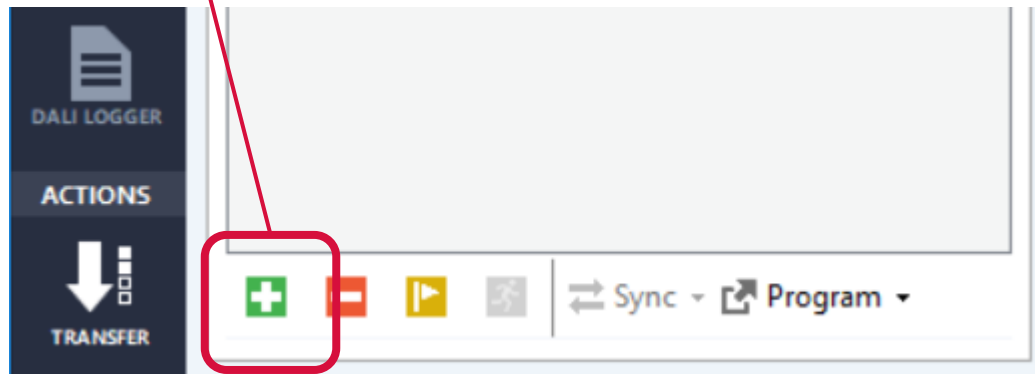
Rescan
Edit IP Address
Identify
Get Project
Select: All None

Add
Cancel

ZONE CONTROLLERS

Manually adding Zone Controllers to a project:

- 1. Click on the **Add** button



- 2. Enter details; or
 - Click on **Discover** button to scan for Controllers.

Add Network Interface

Add Network Interface

Add a Zone Controller, Ethernet DID or USB DALI Line to the project.

Enter Network Interface Details

Step 1 - Select the type of interface to add to your project:

☒ Zone Controller
 ☐ Ethernet DID
 ☐ USB DALI Line

Step 2 - Enter in the properties for the interface:

Zone Controller name cannot be empty

Name:

IP Address Settings

IP Address:

Subnet Mask:

Default Gateway:

DNS Server Settings

Primary DNS Address:

Secondary DNS Address:

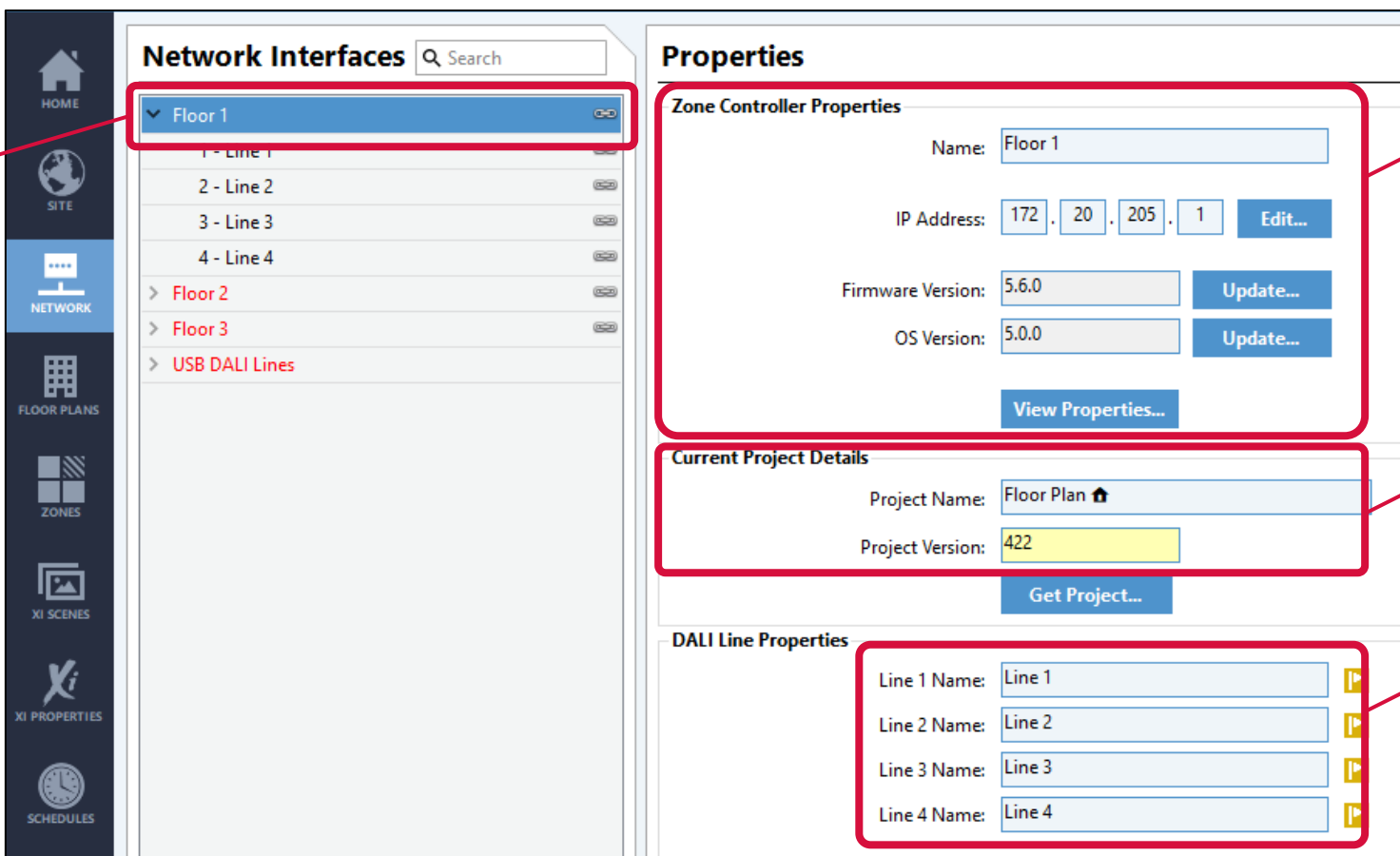
Discover

Add

Cancel

ZONE CONTROLLERS

Zone Controller Properties



The screenshot shows the OZUNO web interface for configuring zone controllers. The left sidebar contains navigation icons for HOME, SITE, NETWORK, FLOOR PLANS, ZONES, XI SCENES, XI PROPERTIES, and SCHEDULES. The main content area is divided into two panels: 'Network Interfaces' and 'Properties'.

Network Interfaces: A list of interfaces is shown, including 'Floor 1' (selected), '1 - Line 1', '2 - Line 2', '3 - Line 3', '4 - Line 4', 'Floor 2', 'Floor 3', and 'USB DALI Lines'.

Properties: This panel is divided into three sections:

- Zone Controller Properties:** Contains fields for Name (Floor 1), IP Address (172.20.205.1), Firmware Version (5.6.0), and OS Version (5.0.0). Buttons for 'Edit...', 'Update...', and 'View Properties...' are present.
- Current Project Details:** Contains fields for Project Name (Floor Plan) and Project Version (422). A 'Get Project...' button is at the bottom.
- DALI Line Properties:** Contains four fields for Line 1 Name through Line 4 Name, each with a corresponding 'P' icon to its right.

Annotations with red arrows point to specific elements:

- Select Zone Controller:** Points to the 'Floor 1' item in the Network Interfaces list.
- Selected Zone Controller basic properties:** Points to the 'Zone Controller Properties' section.
- Selected Zone Controller project details:** Points to the 'Current Project Details' section.
- DALI Line names:** Points to the 'DALI Line Properties' section.

ZONE CONTROLLERS

Zone Controller Properties

Properties

Zone Controller Properties

Name:

IP Address: . . . [Edit...](#)

Firmware Version: [Update...](#)

OS Version: [Update...](#)

[View Properties...](#)

Click for additional details

DALI Interface details

DALI Line details

Data sheets

DALI Interface Device Properties

DALI Interface Device Properties

The properties of this DALI Interface Device are shown below. Each of the DALI Interface Device's Channels are displayed on separate tabs.

Line 1

Line 2

Line 3

Line 4

Device Information

Device Name: Not Set
Channel Name: Line 1
Channel Number: 1
Number of Channels: 4
Firmware Version: 2.1.0
DSP Version: 1.0
GTIN: 9319250614068
Serial Number: 00-00-03-7D
OEM GTIN: Not Set
OEM Serial Number: Not Set
Software Product ID: DNETLCDN0104
Firmware Name: SERIAL_DID

DALI Line Information

DALI Line State: OK
DALI Line Voltage: 15.2 V
Largest Voltage Seen: 15.2 V
Total Faults: 0

Read-only Memory

ROM Size: 512 kB
ROM Block Size: 4 kB


DALI Frame Statistics

Receive

Total Received: 44527
Total Failed: 6

Transmit

Total Sent: 53026
Total Successes: 53023
Total Collisions: 3



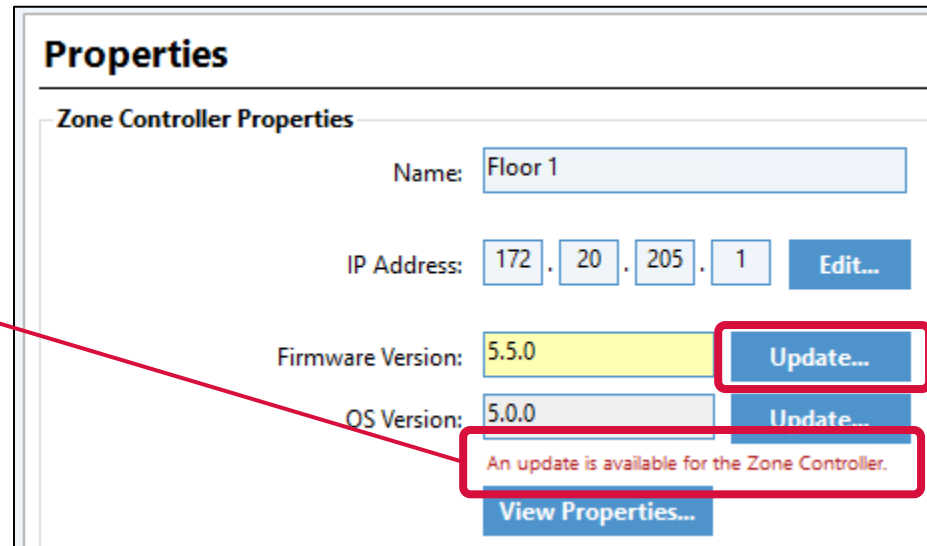
[Data Sheets](#)

[Close](#)

ZONE CONTROLLERS

Updating Zone Controller firmware

1. Message will show that Zone Controller needs an update



The screenshot shows a 'Properties' window with a 'Zone Controller Properties' tab. The 'Name' field is 'Floor 1'. The 'IP Address' is '172 . 20 . 205 . 1' with an 'Edit...' button. The 'Firmware Version' is '5.5.0' and the 'OS Version' is '5.0.0', both with 'Update...' buttons. A red box highlights a message at the bottom: 'An update is available for the Zone Controller.' Below this message is a 'View Properties...' button.

2. Click on **Update**

3. Select firmware file

4. Wait for Controller to update and re-boot

EDIDS

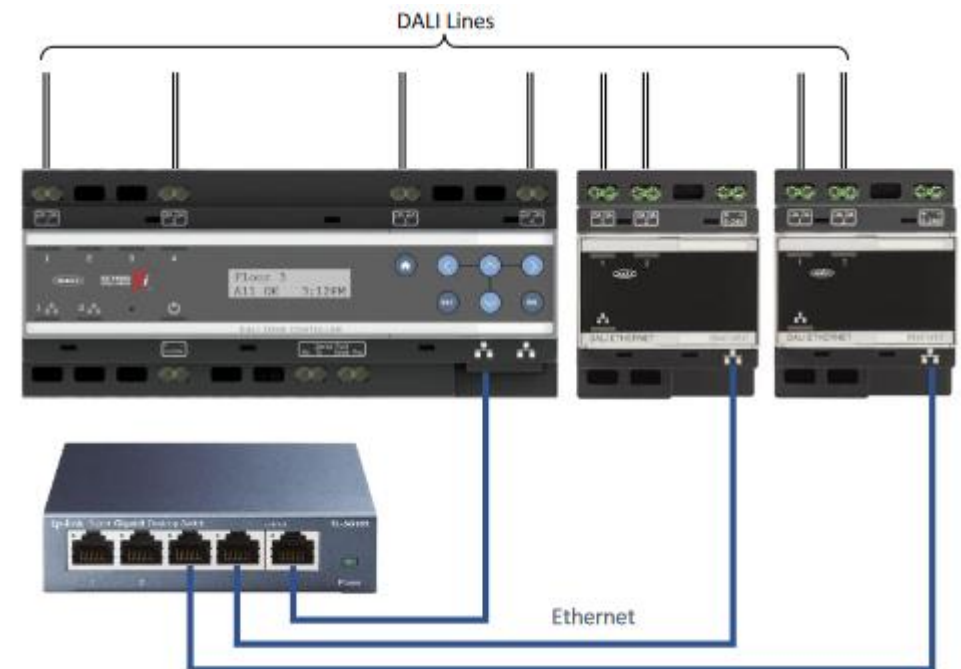
ADDING EXTRA DALI LINES

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EDIDS

EDID

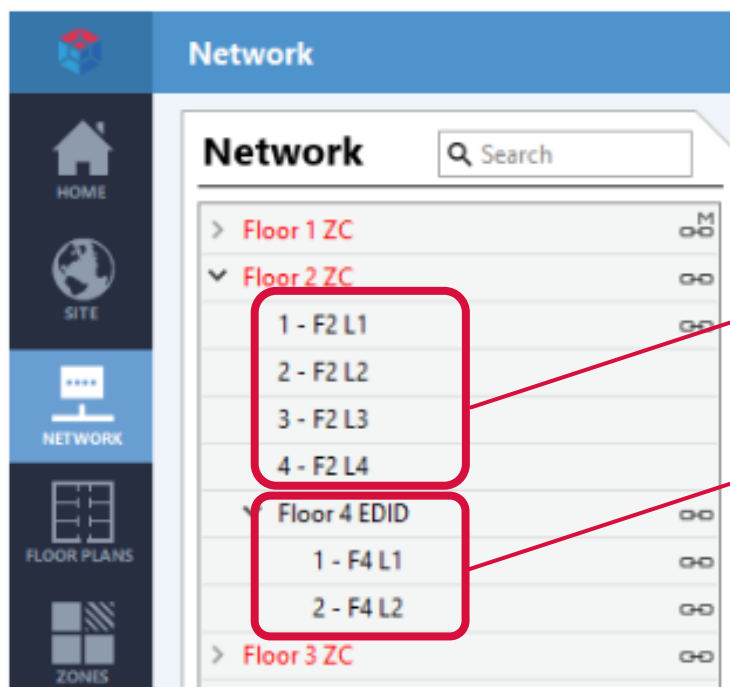
- Ethernet Dali Interface Device
- Interface to two DALI Lines
- Zone Controller can connect to two EDIDs
 - Enables use of up to 8 DALI Lines



EDIDS

Refer to Application Note for details

<https://ozuno.com/wp-content/uploads/APN-RAPIX-020-Using-the-Ethernet-Interface-with-RAPIX-Zone-Controller.pdf>



Directly connected
DALI Lines

EDID
DALI Lines

EXERCISE 1

CREATING A PROJECT

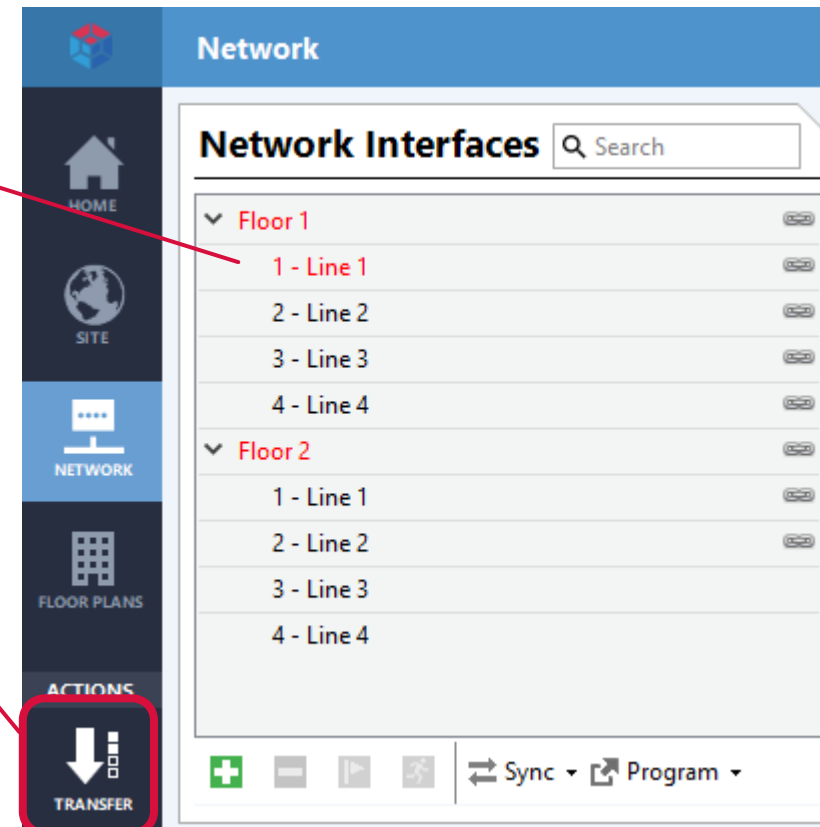


PROJECT SYNCHRONISATION



PROJECT SYNCHRONISATION

- Red text shows that there is something different between database and live device.
- Click **Transfer** button to update devices
 1. Option to sync DALI Devices
 2. Transfer project to Zone Controllers.



RAPIX ZONES



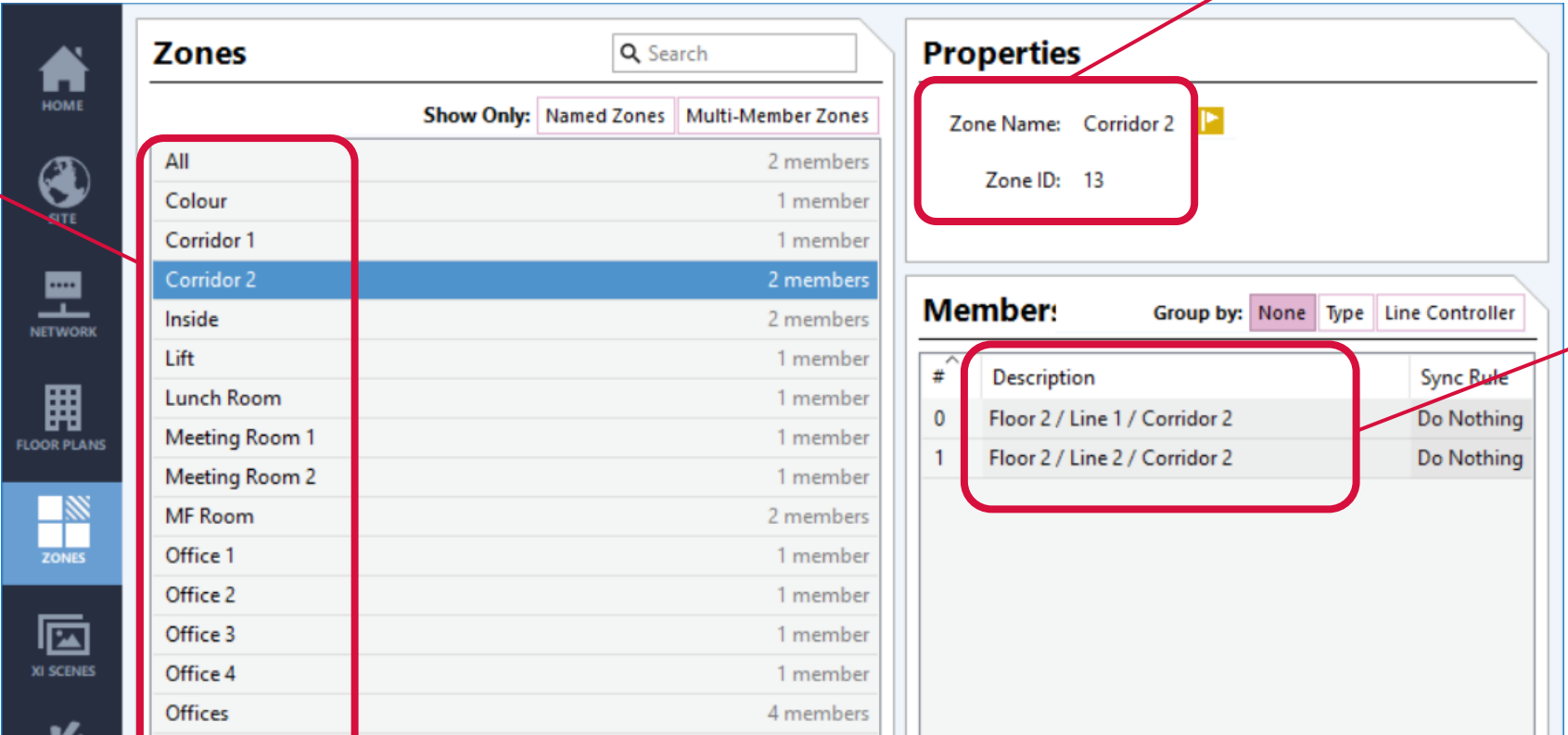
RAPIX ZONES

RAPIX Zones

- No standard DALI limitations:
 - Any number of Zones;
 - Any number of devices, Groups or Lines;
 - Can span DALI Lines.
- See RAPIX Introduction presentation for full details.

RAPIX ZONES

RAPIX Zone Editor



The screenshot shows the RAPIX Zone Editor interface. On the left is a sidebar with navigation icons for HOME, SITE, NETWORK, FLOOR PLANS, ZONES (highlighted), and XI SCENES. The main area is divided into three panels:

- Zones:** A table listing various zones. "Corridor 2" is selected and highlighted in blue. A red box highlights the entire table.
- Properties:** Displays details for the selected zone, "Corridor 2". A red box highlights the "Zone Name" and "Zone ID" fields.
- Member:** A table listing the members of the selected zone. A red box highlights the table content.

Red arrows point from text labels to these specific areas:

- Zones:** Points to the sidebar and the main zones table.
- Zone Details:** Points to the Properties panel.
- Zone Members:** Points to the Member table.

Zone	Members
All	2 members
Colour	1 member
Corridor 1	1 member
Corridor 2	2 members
Inside	2 members
Lift	1 member
Lunch Room	1 member
Meeting Room 1	1 member
Meeting Room 2	1 member
MF Room	2 members
Office 1	1 member
Office 2	1 member
Office 3	1 member
Office 4	1 member
Offices	4 members

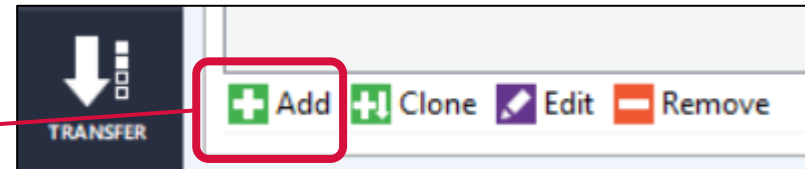
Zone Name:	Corridor 2
Zone ID:	13

#	Description	Sync Rule
0	Floor 2 / Line 1 / Corridor 2	Do Nothing
1	Floor 2 / Line 2 / Corridor 2	Do Nothing

RAPIX ZONES

Adding RAPIX Zones

- 1. Click the **Add** button
 - Can also **Clone** an existing Zone
- 2. Enter a name
- 3. Click **Add** to add Zone members



Add a New Zone

Configure Details of New Zone
Configure the Zone's name and set up its members.

Properties

Zone Name:

Zone ID:

Members

Group by: None Type Line Controller

#	Description	Sync Rule

Buttons: + Add ✎ Edit ▲ Move Up ▼ Move Down ✖ Remove

Add Cancel

RAPIX ZONES

RAPIX Zones – Testing

1. Click the identify button
2. All Zone members will flash.


Edit Existing Zone

Configure Details of Existing Zone
Configure the Zone's name and set up its members.

Properties

Zone Name: Corridor 2

Zone ID: 13



Members

Group by: None Type Line Controller

#	Description	Sync Rule
0	Floor 2 / Line 1 / Corridor 2	Do Nothing
1	Floor 2 / Line 2 / Corridor 2	Do Nothing

+ Add
Edit
Move Up
Move Down
Remove

OK

RAPIX ZONES

RAPIX Zones

- Synchronisation Rules:
 - Allows RAPIX Zone to be controlled by a non-RAPIX device
 - Device controls a single address;
 - Zone Controller synchronises the rest of the Zone:
 - All DALI Commands; or
 - Selected DALI Commands (e.g. RECALL MAX, OFF)
 - **Not needed very often.**


RAPIX ZONES

RAPIX Zones – Sync Rules

Edit Existing Zone

Configure Details of Existing Zone
Configure the Zone's name and set up its members.






Properties

Zone Name: 

Zone ID:

Members Group by: **None** Type Line Controller

#	Description	Sync Rule
0	Floor 2 / Line 1 / Corridor 2	Do Nothing
1	Floor 2 / Line 2 / Corridor 2	Do Nothing

 Add  Edit  Move Up  Move Down  Remove

OK

1. Click to add sync rule

2. Select sync rule

3. Click OK

Configure Zone Member Sync Rules

Configure Zone Member Sync Rules
Choose a standard Synchronisation Rule or individual DALI commands for this Zone Member.

Sync Rule:

DALI Commands

☒ Recall Max Level ☒ Off

☒ On And Step Up ☒ Step Down

☒ Step Up ☒ Recall Min Level

☒ Step Down And Off ☒ Direct Arc Power Control

☐ Up ☐ Down

OK Cancel

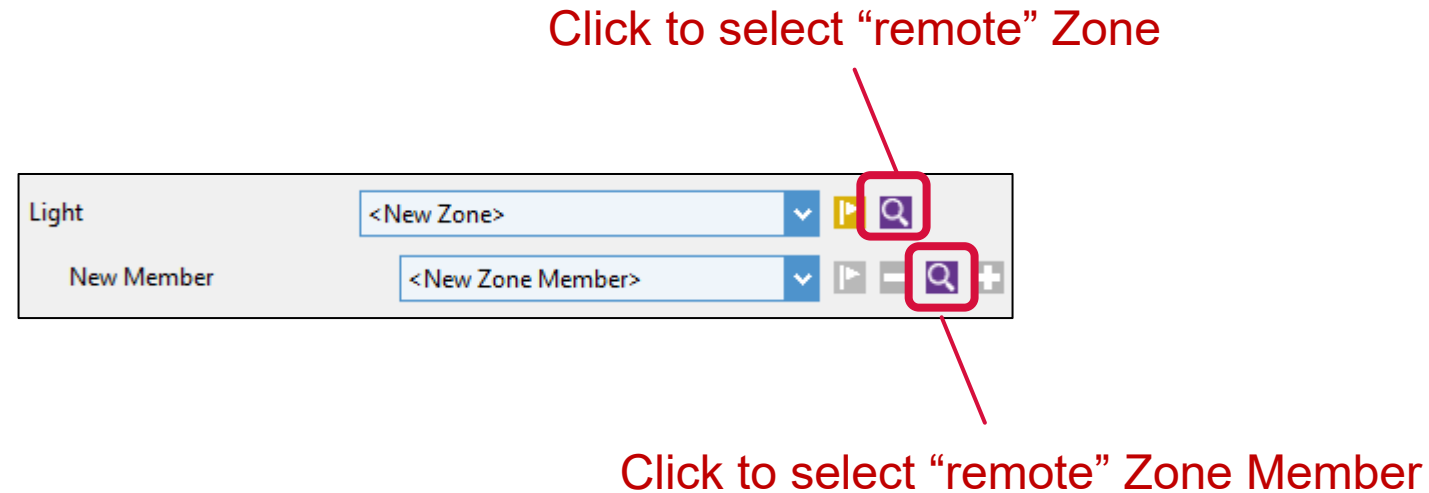
RAPIX ZONES

- Sync Rule Example
 - When the Zone Controller sees any DALI Command for Line 1 / Short Address 43, it will send the same DALI Command to Line 2 / Group 12.

Members		
Group by: None Type Line Controller		
#	Description	Sync Rule
0	Floor 2 / Line 1 / Device 43	Track All
1	Floor 2 / Line 2 / Group 12	Do Nothing

RAPIX ZONES

Using RAPIX Zones in eHub Templates



A "local" Zone or member is on the same DALI Line as the eHub.

A "remote" Zone or member is on a different DALI Line than the eHub.

RAPIX SCENES

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RAPIX SCENES

RAPIX Scenes

- Sometimes called “Xi Scenes”
- No standard DALI limitations:
 - Any number of Scenes;
 - Any number of devices, Groups or Lines;
 - Can span DALI Lines;
 - More flexible fade times.
- See RAPIX Introduction presentation for full details.

RAPIX SCENES



RAPIX Scene Editor

Scenes

Xi Scenes

Scene Name	Members
Amber 1	1 member
Amber 2	1 member
Amber 3	1 member
Blue	1 member
Blue 2	1 member
Blue 3	1 member
Cleaning	1 member
Cyan	1 member
Green	1 member
Green 2	1 member
Lime Green	1 member
Morning	4 members
Night	1 member
Orange	1 member
Pink	1 member
Pink 2	1 member
Red	1 member
White	1 member

Properties

Xi Scene Name:  

Xi Scene ID:

[Set Fade Times...](#)

Members Group by: None Type Line Controller

#	Description	Level / DALI Scene	Fade Time
0	Corridor 1	80.7%	0.7 s
1	Lift	100.0%	0.7 s
2	Outside	0.0%	0.7 s
3	Stairwell	100.0%	0.7 s

Scene Members, Levels & Fade Times

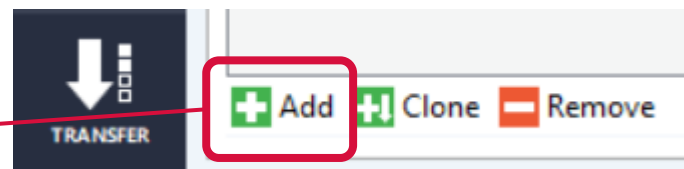
[Add](#) [Edit](#) [Move Up](#) [Move Down](#) [Remove](#)

Selected Scene Details

RAPIX SCENES

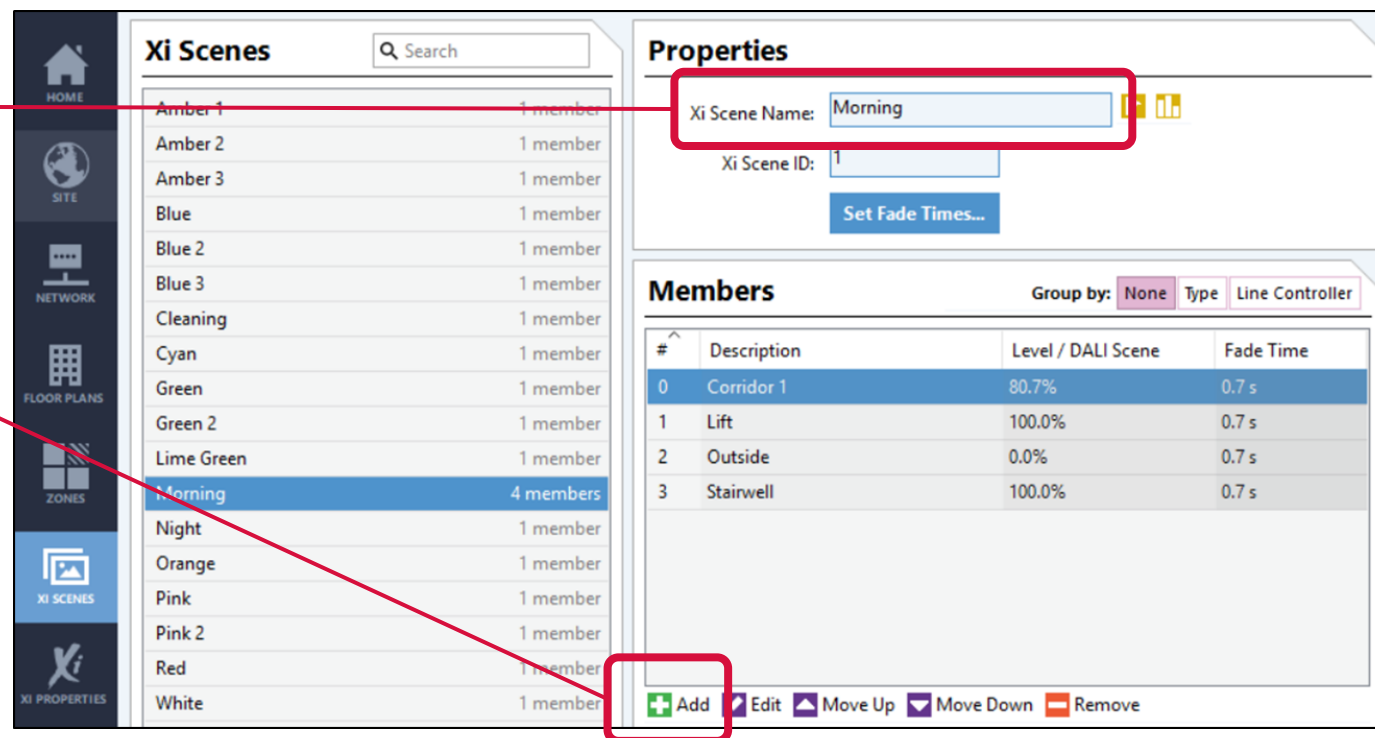
Adding RAPIX Scenes

- 1. Click the **Add** button



- 2. Enter a name


- 3. Click **Add** to add Scene members.



RAPIX SCENES

Adding RAPIX Scenes

- 4. Select Scene member to add
 - Sub-Zone
 - DALI Line
 - DALI Group
 - DALI Short Address
- 5. Select level
 - %; OR
 - DALI Scene.



Add New Xi Scene Member

Add a Member to this Xi Scene

Select the type of member to be controlled by this Xi Scene.

Member to Add

☐ Level-based Zone

Add a level-based zone to be controlled by this Xi Scene.

☐ DALI Line Broadcast

Add an entire DALI line to be controlled by this Xi Scene.

☒ DALI Group Address

Add a specified DALI group address to be controlled by this Xi Scene.

☐ DALI Short Address

Add a specified DALI short address to be controlled by this Xi Scene.

DALI Line Controller:

Floor 2 ▾

DALI Line:

Line 1 ▾

DALI Group Address:

4 : Corridor 1 ▾

Select the target DALI level or DALI scene:

☒ Target DALI Level: 100.0% ⓘ

☐ DALI Scene: Scene 0 ▾

Select the DALI fade time:

DALI Fade Time: 8.0 s ▾

➤

Xi Scene Members

#	Description
---	-------------

▲ Move Up
▼ Move Down

Close

RAPIX SCENES

Adding RAPIX Scenes

- 6. Select Fade Time
- 7. Click Arrow to add member
- 8. Repeat as required
- 9. Click **Close** when complete.

Add New Xi Scene Member

Add a Member to this Xi Scene
Select the type of member to be controlled by this Xi Scene.

Member to Add

☐ Level-based Zone
Add a level-based zone to be controlled by this Xi Scene.

☐ DALI Line Broadcast
Add an entire DALI line to be controlled by this Xi Scene.

☒ DALI Group Address
Add a specified DALI group address to be controlled by this Xi Scene.

☐ DALI Short Address
Add a specified DALI short address to be controlled by this Xi Scene.

DALI Line Controller:
Floor 2

DALI Line:
Line 1

DALI Group Address:
4 : Corridor 1

Select the target DALI level or DALI scene:

☒ Target DALI Level: 100.0%

☐ DALI Scene: Scene 0

Select the DALI fade time:

DALI Fade Time: 8.0 s

>

Xi Scene Members

#	Description
---	-------------

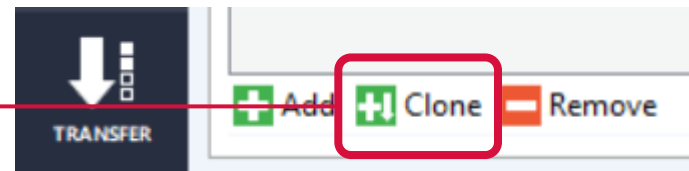
Move Up Move Down

Close

RAPIX SCENES

Adding RAPIX Scenes

- If you need a Scene that is very similar to an existing one:
 - 1. Select the Scene
 - 2. Click the **Clone** button
 - 3. Edit the new Scene.



If needed, the order of the Scene members can be changed to create the desired visual effect.

RAPIX SCENES

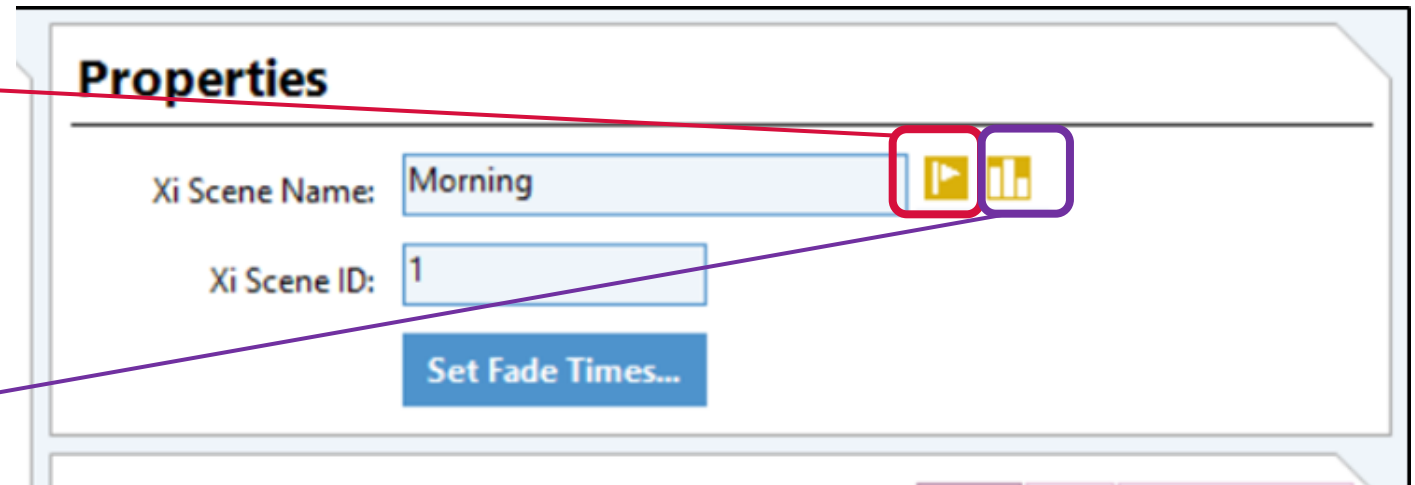
RAPIX Scenes – Testing

■ Option 1

1. Click the identify button
2. All Scene members will flash.

■ Option 2

1. Click the Set button
2. The Scene will be set.



RAPIX SCENES

RAPIX Scenes

- Triggers
 - Allows a RAPIX Scene to be set by a non-RAPIX device;
 - Device controls a single address;
 - Zone Controller controls the Scene;
 - **Not needed very often.**

RAPIX SCENES

RAPIX Scene Triggers

Triggers

DALI Trigger	DALI Event

+ Add
Edit
Remove

1. Click to add Scene trigger

2. Select DALI Address

3. Select DALI Command

4. Click Add

Add New Xi Scene Trigger

Add a Trigger for this Xi Scene
Select a DALI member and command to trigger this Xi Scene.

Select the type of DALI member to listen for DALI commands on:

☐ DALI Line Broadcast
Use a DALI line as the source of the Xi Scene trigger.

☐ DALI Group Address
Use a DALI group address as the source of the Xi Scene trigger.

☒ DALI Short Address
Use a DALI short address as the source of the Xi Scene trigger.

DALI Line Controller: Floor 0 (Off Line)

DALI Line: Line 1

DALI Short Address: 18

Select the DALI command that will trigger the Xi Scene:

DALI Command: RECALL MAX LEVEL

Add
Cancel

RAPIX SCENES

Scene Trigger Example

- When the Zone Controller observes Device 34 switched on, it will set the Scene

Triggers	
DALI Trigger	DALI Event
Floor 2 / Line 1 / Device 34	RECALL MAX LEVEL
<div> + Add ✎ Edit ✖ Remove </div>	

RAPIX SCENES

Using RAPIX Scenes in eHub Templates

- 1. Create RAPIX Scene in Scene Editor
- 2. Select the Scene in the Template

Scene Function	Set Scene ▼
Xi Scene	<div>Morning ▼</div> <div> Morning Night </div>

EXERCISE 2

RAPIX ZONES AND SCENES



RPIX XI

OPERATING PROPERTIES



RAPIX XI


Operating Properties

- An Operating Property is used to represent an aspect of the state of the system;
- Each Operating Property has a “value” (0 – 255).
- Example:
 - “Building Occupancy” Operating Property, with values:
 - 0: “Work Hours”
 - 1: “After-Hours”
 - 2: “Cleaning”
- See the RAPIX Introduction presentation for more details.




Operating Property Editor


Operating Properties




SITE




NETWORK




FLOOR PLANS




ZONES




RAPIX SCENES



XI PROPERTIES



OPERATING PROPERTIES



FLAG GROUPS

Operating Properties

Name	Current Value
Building Mode	

Operating Property Details

Name:

Number:

Values

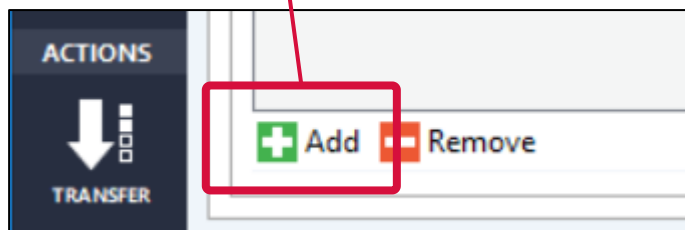
Value	Name
0	Cleaning
1	Work
2	After-hours
3	

Selected Operating Property Details

Selected Operating Property Values

Adding an Operating Property

1. Click the **Add** button



Operating Property Details

Name:

Number:

2. Enter the Operating Property name

Values

Value	Name
0	
1	
2	
3	
4	
5	

3. Enter names for Values as required



RAPIX XI

Testing an Operating Property

Current Operating
Property value

Operating Properties

Name	Current Value
Building Mode	0 - Work Hours

 Add
  Remove

Operating Property Details

Name:

Number:

Values

Value	Name
1	After Hours
2	Cleaning
3	
4	

☒ Set Value

To set Operating
Property value:
1. Select value

2. Click **Set Value**

RAPIX XI



Using Operating Properties for eHub Template “mode” selection

- Template can change behavior based on an Operating Property value
- For example, a motion sensor may need different settings based on:
 - Operating Property “Building Mode” = “Work Hours”
 - Vacancy Delay = 1 hour
 - Dwell Level = 80%
 - Dwell Duration = 1 hour
 - Operating Property “Building Mode” = “After Hours”
 - Vacancy Delay = 30 minutes
 - Dwell Level = 50%
 - Dwell Duration = 15 minutes.

RAPIX XI



Using Operating Properties for eHub Template “mode” selection

Vacancy Delay Before Switch Off

Vacancy Delay: 1 h 0 m 0 s

Turn Off

Switch Off Behaviour: Dwell then Off

Dwell Level: 80.3%

Dwell Duration: 1 h 0 m 0 s

Fade Time: 0.7 s

+ Add Mode

1. Click the **Add Mode** button

2. Select the Operating Property and Value

Vacancy Delay Before Switch Off

Vacancy Delay: 1 h 0 m 0 s

Turn Off

Switch Off Behaviour: Dwell then Off

Dwell Level: 80.3%

Dwell Duration: 1 h 0 m 0 s

Fade Time: 0.7 s

Operating Property: Building Mode

Mode: After-Hours Working

Vacancy Delay: 0 h 30 m 0 s

Switch Off Behaviour: Dwell then Off

Dwell Level: 50.4%

Dwell Duration: 0 h 15 m 0 s

Fade Time: 0.7 s

+ Add Mode

Default Settings

3. Settings when in the selected mode

RAPIX XI



Operating properties can be set using:

- Buttons
 - e.g. “Zone and Xi Timer” template
- Dry Contacts
 - e.g. “Set Xi Operating Property” template
- Schedules
 - See Schedule section of this presentation
- On power-up
 - e.g. using the “Power-up Action” template.

RPIX XI

FLAGS



RAPIX XI



Flags

- A Flag is used to represent an aspect of the state of the system.
- Flags are arranged into groups.
- Each Flag has a “value”:
 - Set; or
 - Clear.
- Flags are generally used to enable or disable a system function, for example:
 - “Sensor Enable” Flag Group, with Flags:
 - “Meeting Room 1A Sensors”
 - “Meeting Room 1B Sensors”
- See the RAPIX Introduction presentation for more details

RAPIX XI



Flag Editor

Flag Groups

HOME

SITE

NETWORK

FLOOR PLANS

ZONES

RAPIX SCENES

Xi

Xi PROPERTIES

OPERATING PROPERTIES

FLAG GROUPS

Flag Groups

Sensor enable

Flag Group Details

Name: Sensor enable

Value: 0

Flags

Number	Name
0	Meeting Rooms
1	Offices
2	Corridors

Selected Flag Group Details

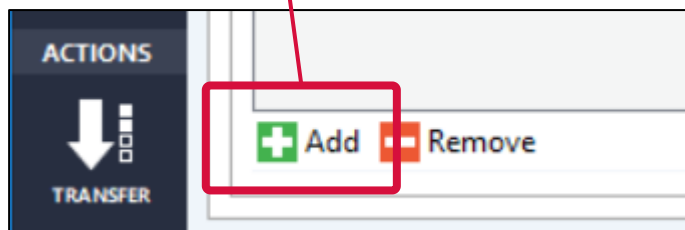
Flags

RAPIX XI



Adding a Flag

1. Click the **Add** button to add a Flag Group



Flag Group Details

Name:

Value:

2. Enter the Flag Group name

RAPIX XI



Adding a Flag

3. Click the **Add** button to add a Flag to the Group

Flags

Number	Name
0	Flag 0

+

 Add

-

 Remove

✓

 Set

✓

 Clear

4. Click, then enter the Flag name

RAPIX XI



Testing a Flag

Number	Name	State
0	Meeting Rooms	Set
1	Offices	Clear
2	Corridors	Set

+ Add
- Remove
☒ Set
☒ Clear

Current Flag state

To set Flag state:
1. Select Flag

2. Click **Set** or **Clear**

RAPIX XI



Using Flags for RAPIX Device “Rules”

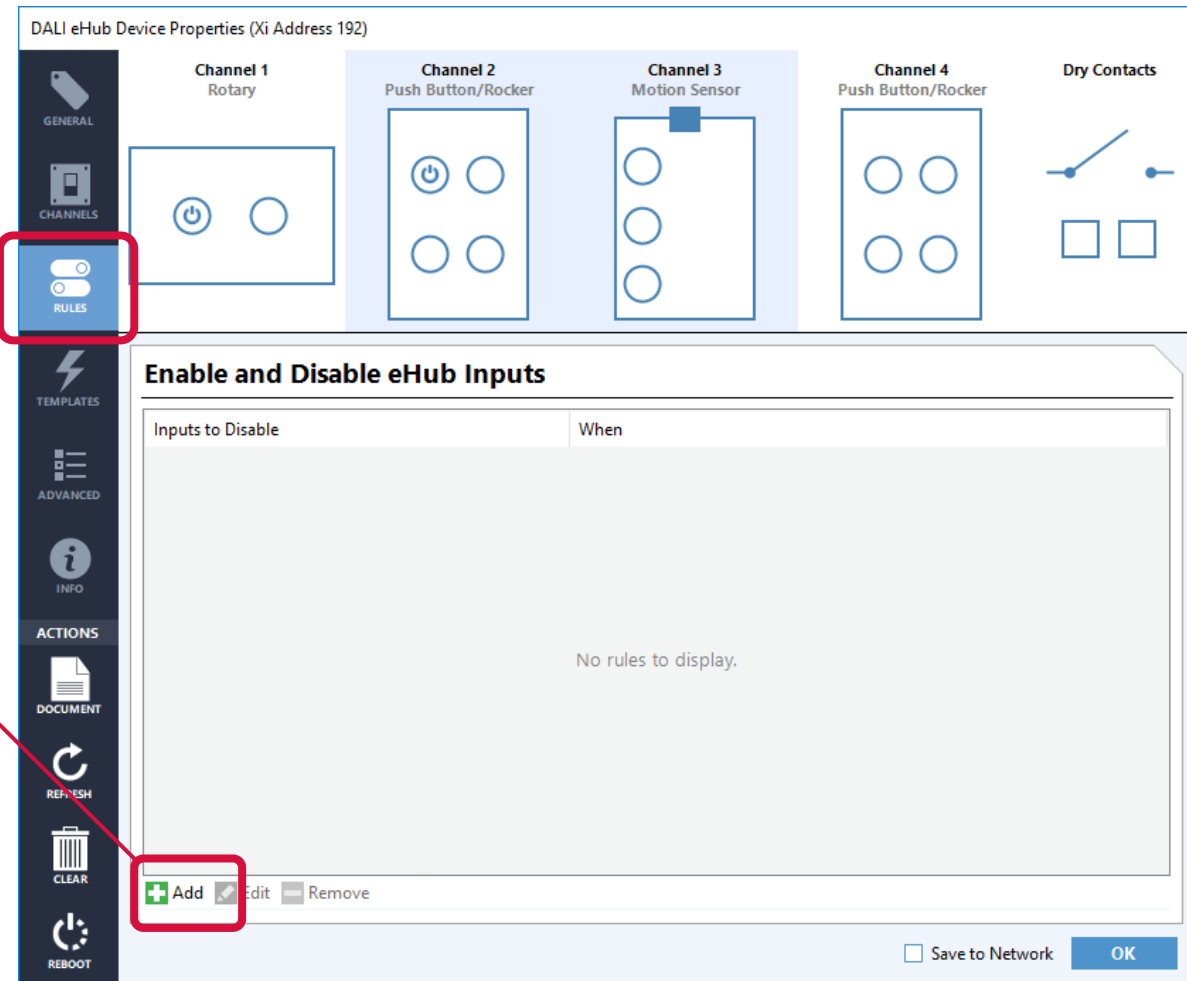
- RAPIX Device inputs can be disabled based on:
 - Short Address is on / off
 - Scene is set / not set
 - Flag is set / clear.
- Can be used on all inputs:
 - Buttons and dials
 - Sensors
 - Dry Contacts.

RAPIX XI



Using Flags for “Rules”

- To Add a Rule:
- 1. Select **Rules** Tab
- 2. Click on **Add**.



RAPIX XI



Using Flags for “Rules”

- 3. Select the inputs
- 4. Click on **Add**.

Edit an Existing Disable Rule

Disable DALI eHub Inputs

Select the DALI eHub inputs to be disabled, and under what conditions they will be disabled.

Disable the following inputs:

Channel 1

Channel 1 - Button 1

Channel 1 - Button 2

☒ Select All
☐ Select None

When ANY of the following conditions are met:

No conditions to display.

Add
Remove

Manage Xi Flags

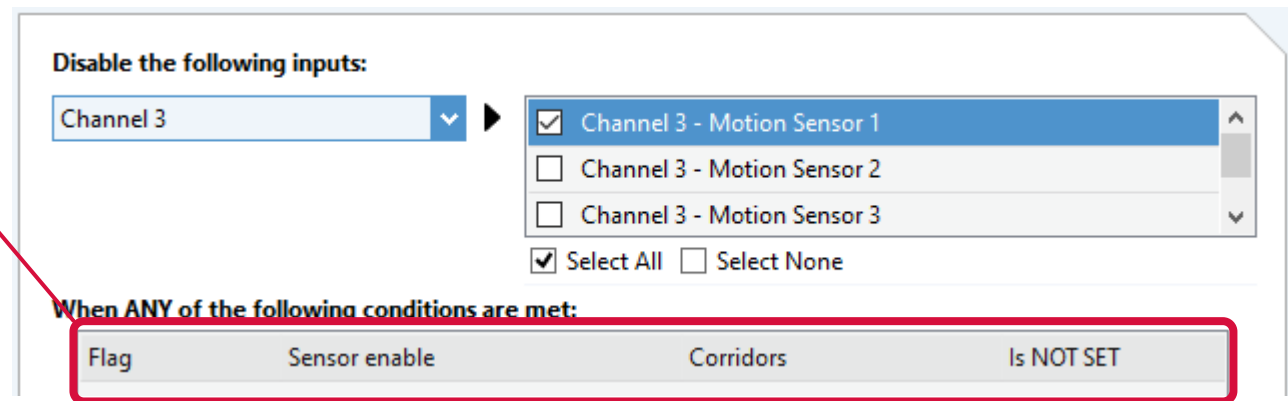
OK
Cancel

RAPIX XI



Using Flags for “Rules”

- 5. Select the rule details
- 6. Repeat as required.



Disable the following inputs:

Channel 3 ▼ ▶

- ☒ Channel 3 - Motion Sensor 1
- ☐ Channel 3 - Motion Sensor 2
- ☐ Channel 3 - Motion Sensor 3

☒ Select All ☐ Select None

When ANY of the following conditions are met:

Flag	Sensor enable	Corridors	Is NOT SET

For this example, Motion Sensor 1 will be disabled when the “Corridors” Flag is not set (i.e. clear)

RAPIX XI



Flags can be set using:

- Buttons
 - e.g. “Toggle Flag” template
- Dry Contacts
 - e.g. “Set Flag” template
- Schedules
 - See Schedule section of this presentation
- On power-up
 - e.g. using the “Power-up Action” template.

EXERCISE 3

OPERATING PROPERTIES AND FLAGS



SCHEDULES



SCHEDULES

Schedules have:

- Name;
- Collection of events, each with:
 - Name;
 - Date rule:
 - Every day;
 - Week days / weekend days;
 - Day of the week or month;
 - Date or range of dates;
 - Every x days.
 - Time rule:
 - Fixed time of the day;
 - Sunrise \pm offset;
 - Sunset \pm offset.

SCHEDULES

- Events have
 - An action:
 - Zone
 - On, Off, Fade to level
 - RAPIX Scene
 - Set, Off
 - Operating property
 - Set value
 - Flag
 - Set, clear

Schedules are run in the Zone Controllers.

SCHEDULES

Schedule Editor

Schedules

Events

Schedules

Q Search

▼ All Schedules (2 schedules)

Week Days

Weekend

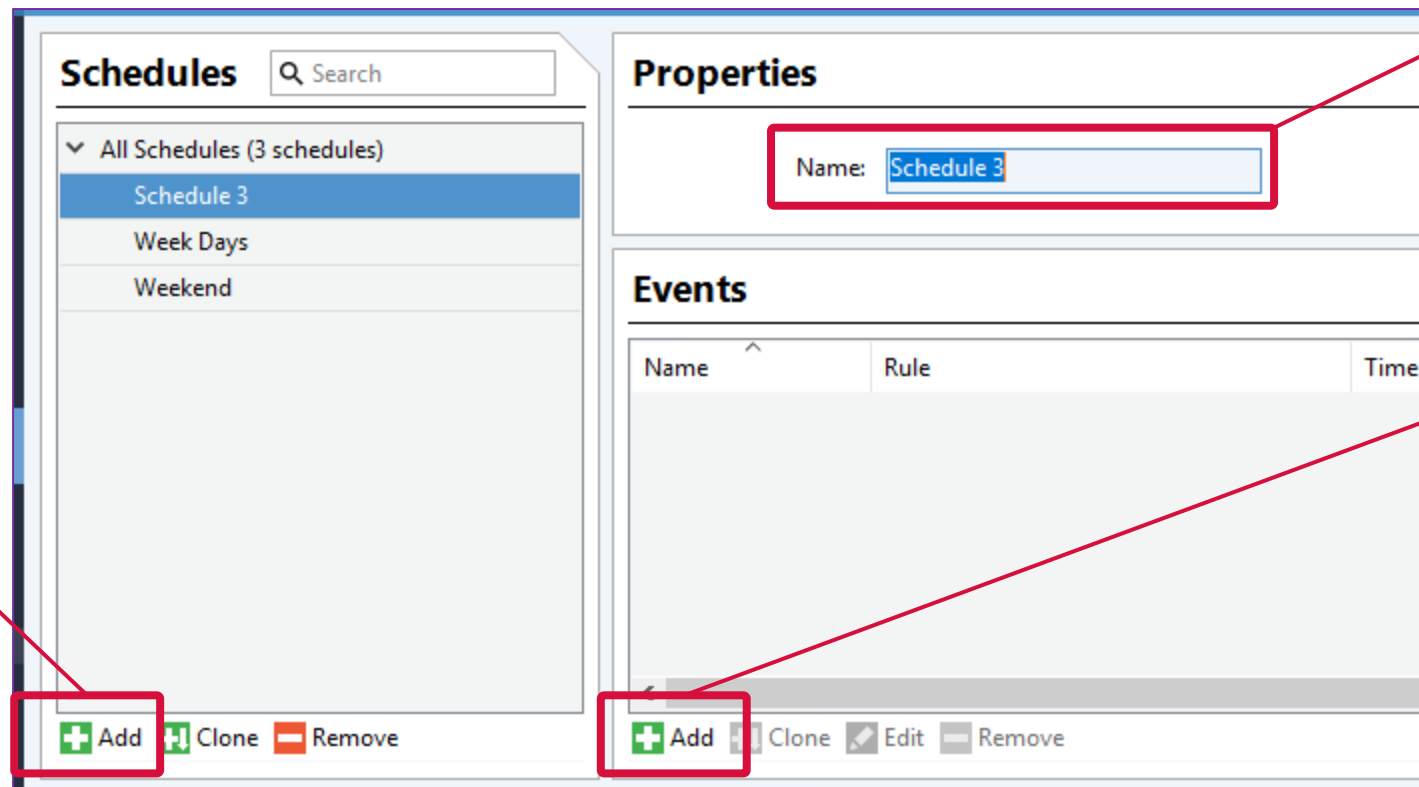
Events

Name	Rule	Time	Action	Next Run
Week Days				
After Hours Mode	Every day	6:00:00 PM	Set Operating Property "Building Mode" to Value "1 : After Hours"	19 Sep 2018 6:00:00 PM
Evening Scene	Weekdays	7:00:00 PM	Set Xi Scene "Night".	19 Sep 2018 7:00:00 PM
Morning Scene	Weekdays	8:00:00 AM	Set Xi Scene "Morning".	20 Sep 2018 8:00:00 AM
Work Hours Mode	Every day	8:00:00 AM	Set Operating Property "Building Mode" to Value "0 : Work Hours"	20 Sep 2018 8:00:00 AM
Weekend				
Evening	Weekends	8:00:00 PM	Set Zone "Outside" to level 100.0% fading over 64.0 seconds.	22 Sep 2018 8:00:00 PM
Morning	Weekends	7:00:00 AM	Set Zone "Outside" to level 0.0% fading over 64.0 seconds.	22 Sep 2018 7:00:00 AM

SCHEDULES

Adding Schedules

1. Click the **Add** button to add a new Schedule



The screenshot shows the OZUNO Schedules interface. On the left, the 'Schedules' panel has a search bar and a list of schedules: 'All Schedules (3 schedules)', 'Schedule 3' (selected), 'Week Days', and 'Weekend'. At the bottom of this panel is a red box around the '+ Add' button. On the right, the 'Properties' panel has a 'Name' input field containing 'Schedule 3', which is also highlighted with a red box. Below the 'Properties' panel is the 'Events' section, which is currently empty. At the bottom of the 'Events' section is another red box around the '+ Add' button.

2. Enter a name

3. Click the **Add** button to add a new Event

SCHEDULES

Adding Schedules

4. Enter a name

5. Select when the event is to occur

6. Select what the event is to do

Event to Add

Event Name:

Date Rules

Rule: Every Day ▼

Time

Type: Fixed ▼

Time: 9:00:00 AM ▲▼

Action

Type: Zone ▼

Zone: Corridor 1 ▼

☒ On
 ☐ Off

☐ Set level with fade time

Level: 100.0% ▲▼

Fade Time: 8.0 s ▼

>

Schedule Events

Event Name

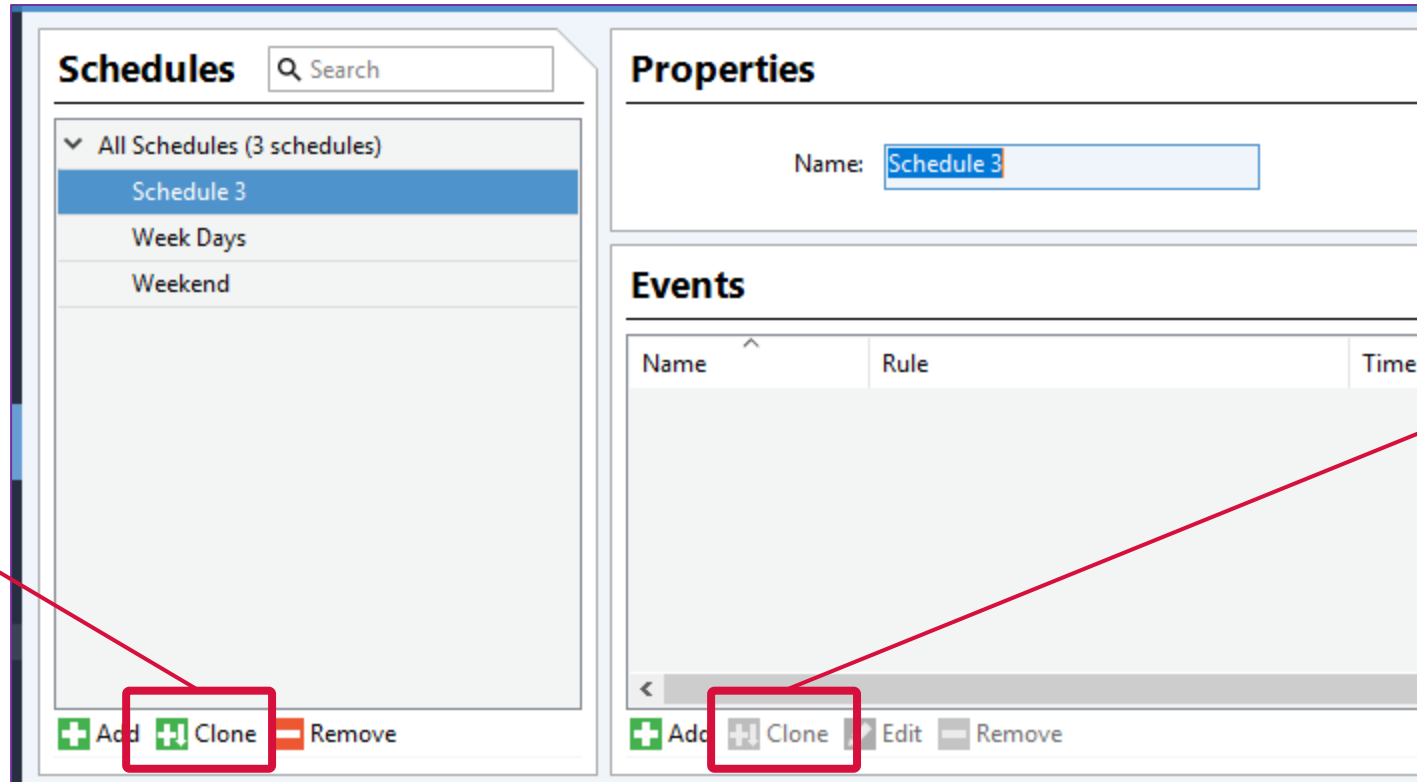
7. Click the **arrow** button to add the new event to the Schedule

SCHEDULES

Adding Schedules

- If a new Schedule is needed that is almost the same as an existing one, it can be “cloned” (copied) then edited.

Clone a whole
Schedule



The screenshot displays the OZUNO Schedules interface. On the left, the 'Schedules' panel shows a list of schedules under 'All Schedules (3 schedules)', with 'Schedule 3' selected. Below the list are buttons for '+ Add', '+ Clone', and '- Remove'. A red box highlights the '+ Clone' button, with a red arrow pointing to it from the text 'Clone a whole Schedule'. On the right, the 'Properties' panel shows 'Name: Schedule 3'. Below it, the 'Events' panel is empty. At the bottom of the 'Events' panel, there are buttons for '+ Add', '+ Clone', 'Edit', and '- Remove'. A red box highlights the '+ Clone' button, with a red arrow pointing to it from the text 'Clone a selected event'.

Clone a selected
event

EXERCISE 4

SCHEDULES



FLOOR PLANS



FLOOR PLANS

Floor Plans

- Provides another way to view and edit Devices and Zones.
- Can use floor plans of most common types:
 - CAD (DWG, DXF) – **preferred**
 - PDF
 - Image (BMP, JPEG, PNG, GIF, TIFF)
- See <http://www.youtube.com/watch?v=0l8UR-6EHMw> for details.

FLOOR PLANS

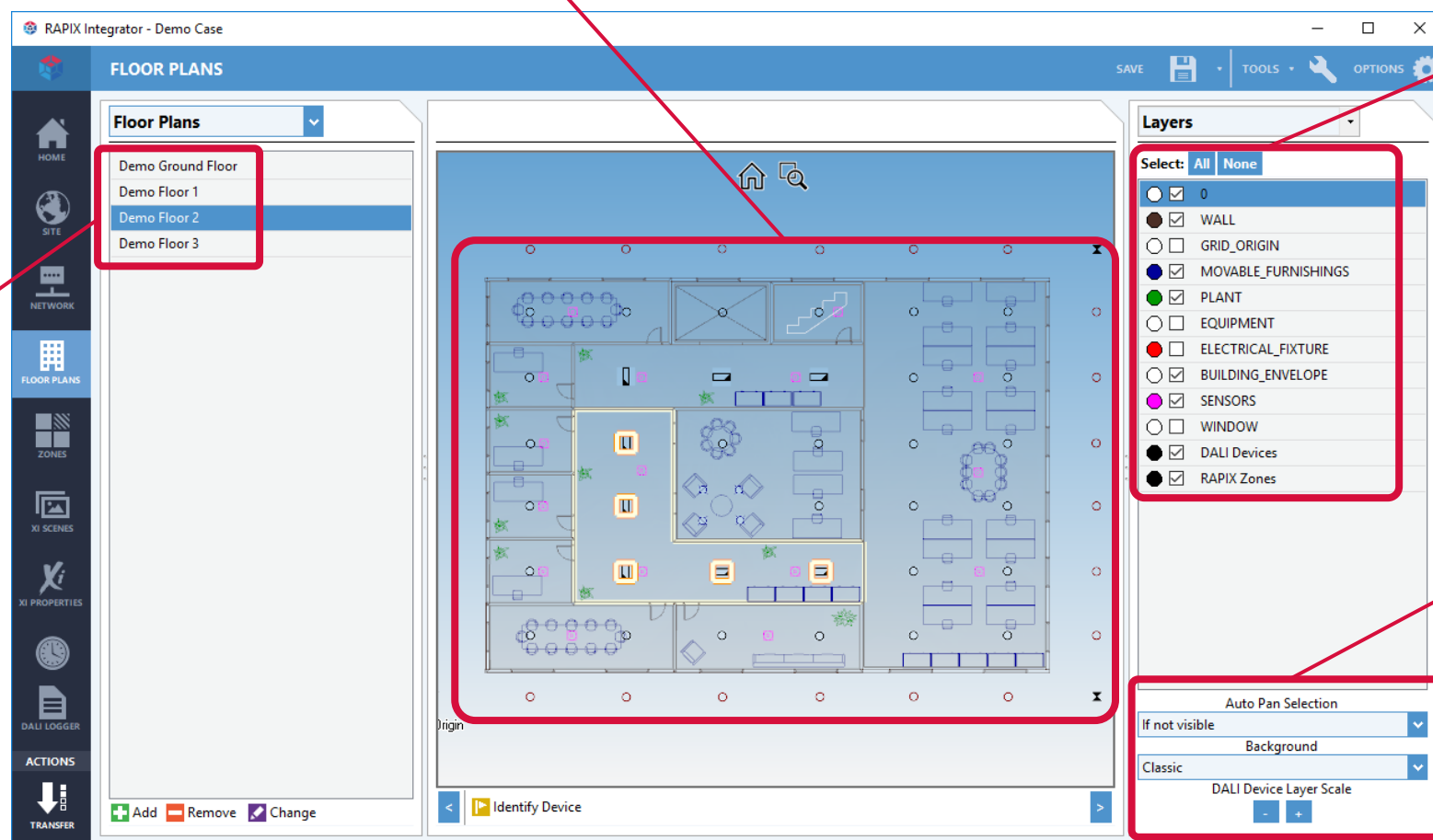
Floor Plans

Devices and Zones

Layers

Floor Plans

Options



EXERCISE 5

FLOOR PLANS

