

# **RAPIX COMMISSIONING 3**

USING RAPIX EMERGENCY SOFTWARE

22 OCT 2018





## **COURSE PURPOSE**

Testing Emergency Devices with RAPIX.

This will help you to understand:

- Traditional testing of DALI Emergency Devices;
- The RAPIX Emergency Software.



# COURSE PURPOSE

### Pre-requisites.

It is recommended that you have already completed:

- DALI Basics;
- RAPIX Introduction;
- RAPIX Commissioning 1 RAPIX Addressing;
- RAPIX Commissioning 2 RAPIX Integrator.







Traditional Commissioning of DALI Emergency Devices

- Each DALI Line and device is configured separately
  - Not done as a complete system
- Tools are quite basic
- Very time consuming
- Difficult to ensure that local regulations have been met
- Running tests and gathering test results is difficult



**RAPIX Commissioning of DALI Emergency Devices** 

- Whole system can be set-up at once
- "One-click" test configuration is very fast
  - Ensures that local regulations are met
- Tests are run automatically
- Test results are generated and distributed automatically







#### **RAPIX Emergency Software features**

- Create "Test Plans"
  - Database with all DALI Lines and Devices
- Schedule DALI Emergency device tests
  - Functional test
  - Duration test
  - Send email to building manager to warn of upcoming tests
- Generate Test reports
  - PDF Test Report
  - PDF Maintenance Report
  - Optional reports in CSV format
  - Email reports to building manager



### RAPIX Emergency Software features

- Manually run DALI Emergency device tests
  - Functional test
  - Duration test
  - Device presence check
- User Access Control
  - Supervisor login has full access
  - Maintenance login has limited access

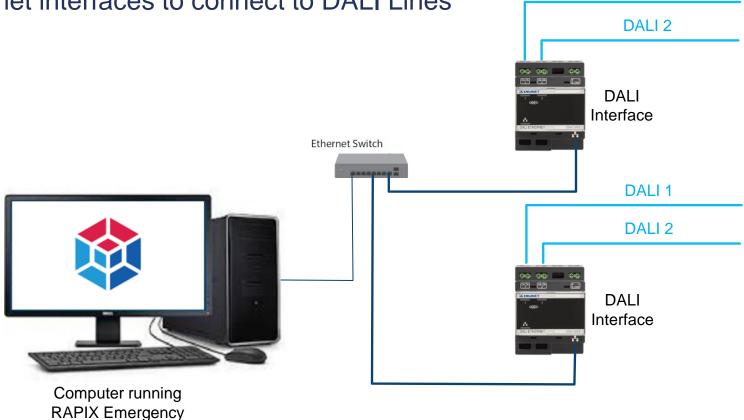


DALI 1

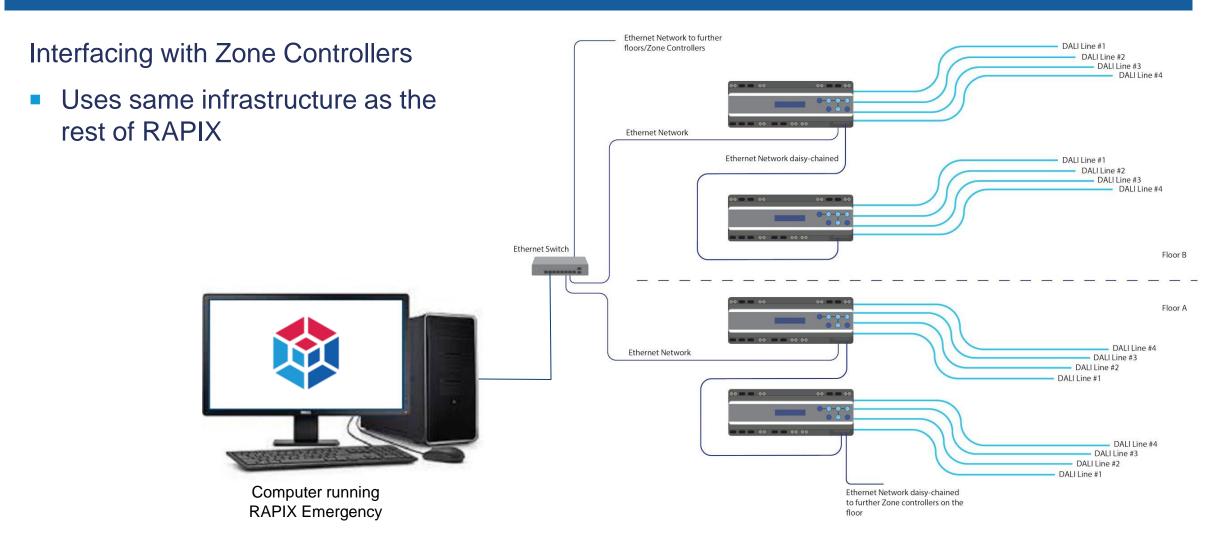
## RAPIX EMERGENCY SOFTWARE

Interfacing with Ethernet DALI Interface Devices

Uses Ethernet interfaces to connect to DALI Lines









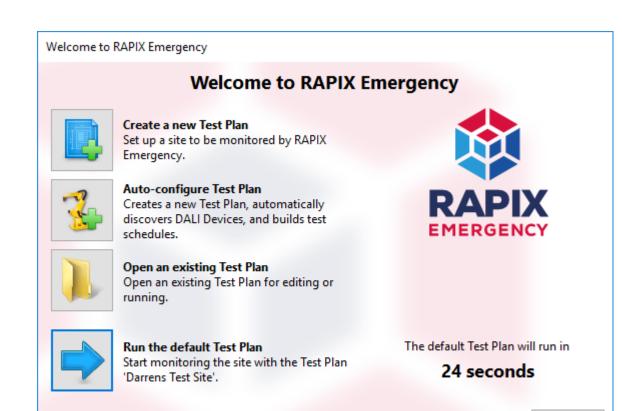
# **IMPORTING A RAPIX PROJECT**

THE QUICK WAY TO COMMISSION WITH RAPIX EMERGENCY



Using a RAPIX Integrator Project

- 1. Run RAPIX Emergency
- 2. Click Create a New Test Plan





### 3. Click Import RAPIX Integrator Project

### 4. Select Project file

🚳 New Test Plan - RAI	PIX Emergency (Configuration	n Mode)					_		$\times$
File View Tools 🎦 💕 🔙	Help	RAPIX	🕸 EMER	GENC	Y				
DALI Lines Schedule		intact Info	Auto-	build Schedules	Go to Run Mod		sday, 19 Sej 15:	ptember 10 UTC+	
🗴 Import RAPIX Integr	ator Project 🥥 Discover Nev	w Ethernet DALI Interfac	🔹 👻 Remove DALI Inte	rface 🛫 Identif	y DALI Line 🚪 C	)pen DALI Interf	face Searc	h	•
DALI Line Name	Device Name	Connection	Number	of Devices	Ready to Test				
Discover All New De	vices 💥 Remove Device 🥩	Videntify DALI Device	Program Short Addresse	S					
DALI Device Name	ID	Short Test Address Group	Discharge Schedule	Function Sched	ule Line	Name	Serial Number	Rated Duration	



### 5. You will see a summary of the DALI Emergency Devices found

DALI Line Name 172.20.205.1	Device Name	Connection	Number of Devices	Ready to Test
🗶 Line 1	Floor 1	• 172.20.205.1 / 1	2	🛕 Untested Devices
🗶 Line 2	Floor 1	• 172.20.205.1 / 2	3	À Untested Devices
🗶 Line 3	Floor 1	• 172.20.205.1 / 3	2	🛕 Untested Devices
🗶 Line 4	Floor 1	• 172.20.205.1 / 4	2	🛕 Untested Devices
172.20.205.2				
🕂 Line 1	Floor 2	• 172.20.205.2 / 1	2	🛕 Untested Devices
🗶 Line 2	Floor 2	• 172.20.205.2 / 2	2	🛕 Untested Devices
🗶 Line 3	Floor 2	• 172.20.205.2 / 3	0	🥝 No Devices to Test
🗶 Line 4	Floor 2	• 172.20.205.2 / 4	0	🤡 No Devices to Test



6. Click Auto-build Schedules

7. Select schedule options

8. Click on **OK** 

Ø New Test Plan* - RAPIX Emergency (Configuration Mode)	
File View Tools Help Carlot Control Co	EMERGENCY
DALI Lines Scheduled Tests Email Settings Contact Info	Auto-build Schedules Go to Run Mode
Automatically Build Schedules ×	
Automatically Build Schedules Build Schedules and assign them to DALI Devices in the Test Plan. This will remove any existing Schedules.	
Create 4 V Discharge Schedules separated by 1 V day	
With the first Discharge Schedule running on:	
Friday , 21 September 2018 , at 22:00 ≑	
Repeating every 26 v weeks.	
Automatically build Function Schedules	
OK Cancel	



### 9. You can view the automatically created Schedules

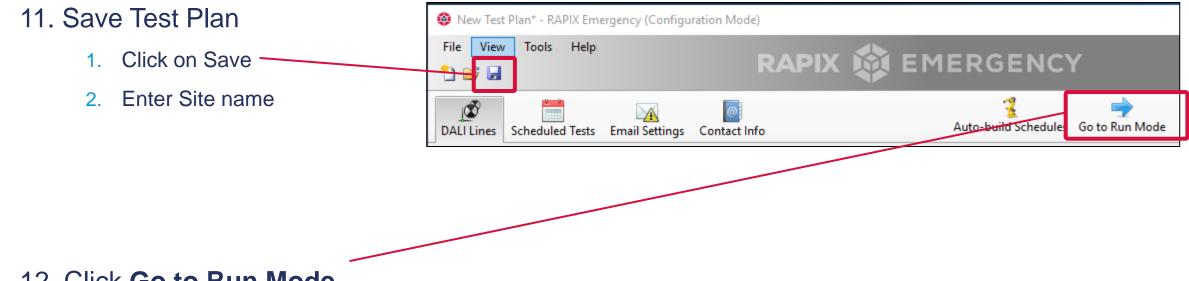
DALI Lines Scheduled Tests Email Sett	ings Contact Info		Au	uto-build Schedules Go
🛗 Add Discharge Schedule  🛗 Add Funct	tion Schedule  🗶 Remove Sc	hedule		
Schedules Discharge Schedules	Next Run Date	Next Run Time	Frequency	Туре
Tests a full discharge of EM devices.				
🛅 1. Friday (26 Weeks)	Friday, 21 September 2018	22:00	26 Weeks	Discharge Schedule
🛗 2. Saturday (26 Weeks)	Saturday, 22 September 2018	22:00	26 Weeks	Discharge Schedule
🛗 3. Sunday (26 Weeks)	Sunday, 23 September 2018	22:00	26 Weeks	Discharge Schedule
🛗 4. Monday (26 Weeks)	Monday, 24 September 2018	22:00	26 Weeks	Discharge Schedule
Function Schedules Tests EM device functionality.				
🚞 1. Friday (4 Weeks)	Friday, 5 October 2018	22:00	4 Weeks	Function Schedule
🚞 2. Saturday (4 Weeks)	Saturday, 6 October 2018	22:00	4 Weeks	Function Schedule
🚞 3. Sunday (4 Weeks)	Sunday, 7 October 2018	22:00	4 Weeks	Function Schedule
🚞 4. Monday (4 Weeks)	Monday, 8 October 2018	22:00	4 Weeks	Function Schedule



10. Optionally, set email addresses (so reports will be sent automatically)

1. Set Server details	DALI Lines Scheduled Tests	Email Settings Cont	@ act Info		3 Auto-build Schedules	Go to Run Mode	
	Email Sending Details			List of Email Recipients			2. Add recipients
	Sender Information		)	🕂 Add Recipient 💥 Remov	e Recipient		
	Email Address: server@don	nain.com		Recipient Name	Recipient Email Address	Valid	
	Server Information			🖂 User	user@domain.com	🔵 ОК	
	Relay Host: mx.domain.c	com					
	Port Number: 25	-					
	Logon Information (optional)	1					
	Usemame:						3. Select options
	Password:		J				
	Test These Settings			Email Notification Optio	ns		
	Send Test Email			An email will be sent to each reci	ipient in the list, notifying them that	a test has been performed.	
				Send email 1 week prior to I	Discharge Tests being run		
				Send email 1 day prior to Dis	scharge Tests being run		
				Send email weekly if there a	are failed Emergency DALI Devices		





### 12. Click Go to Run Mode

#### Finished!



	🚳 asasasa - RAPIX Emergency			- 🗆 X	
	File View Help	RAPIX 🔯 B	MERGENCY	16 Untested Emergency Devices 🛞	
	Dashboard Device Status Sche	eduled Tests Test Reports Contact Info	Configure Te	Wednesday, 19 September 2018 est Plan 16:38 UTC+09:30	-
	DALI Device Status	📈 Show All Device	Upcoming Scheduled Tests	🔎 Show All Scheduled Tests	
	Status of Emerg	ency DALI Devices (16 Devices)	Within 7 Days 1. Friday (26 Weeks)	Discharge Schedule 🔒	
	There are 16 Untested	DALI Devices that require a Discharge Test.	🚆 2. Saturday (26 Weeks)	Discharge Schedule 🛛 🔒	Scheduled
		Device Failures 🔎 Show All Failed Devices	🚆 3. Sunday (26 Weeks)	Discharge Schedule 🔎	Tests
Test summary		Rever Discharge Tested 16 2	🖺 4. Monday (26 Weeks)	Discharge Schedule 🔎 🗸	10010
· · · · · · · · · · · · · · · · · · ·			DALI Device Presence	Last Presence Check: Wed 19-Sep-2018 16:38	
(nothing tested yet)			Perform a Device Presence Check	Missing DALI Devices Line 2 Device 1	Missing Devices
			Manual Tests		
	0 Passed DALI Devices 16 Failed DALI Devices		Function Test on All DALI Lines	Discharge Test	







### Auto-create test Plan if not using RAPIX Integrator project

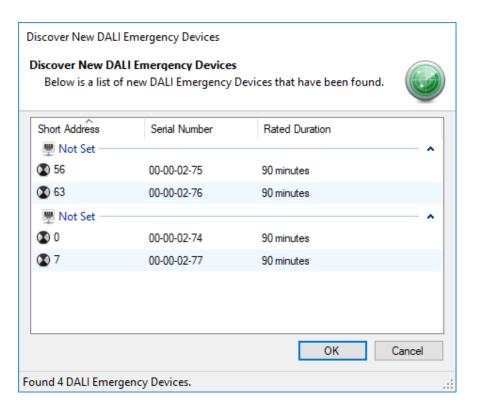
1. Click Auto-configure Test Plan 





• 2. RAPIX will find DALI Interfaces then scan to find DALI Emergency Devices

Discover New Ethernet DALI Int Search for New Ethernet DA Below is a list of Ethernet D found. Select the Devices t	LI Interface Devices on ALI Interface Devices that	have been
🕑 Rescan (F5) 🛛 🗹 Select Al	II 🔲 Select None 🕎 S	et Static IP Address
IP Address	# of DALI Lines	Status
772.20.200.7	2	Dynamic IP Address
	[	Add Cancel
Found 1 Interface Devices.		





- 3. RAPIX Emergency will show a summary of what was found:
- 4. Click on **OK**

Test Plan Summary	
Test Plan Summary Summary of the number of DALI Interfaces, Lines, and Devices on the	i
DALI Interface Devices	
Total # of Zone Controllers	0
Total # of Ethernet Interfaces	1
Total # of Serial Interfaces	0
DALI Lines	
Total # of Active Lines	2
Total # of Empty Lines	0
DALI Emergency Devices	
Total # of DALI Emergency Devices	4
	ОК



• 5. RAPIX Emergency will automatically schedule the tests in 4 groups:

File View Tools	Help	R	API)	( 🏟 еме	RGENCY				
DALI Lines Schedule		Contact Info		Au	to-build Schedules Go to f		Thursday, 20 Se 10	ptember 09 UTC+	
Import RAPIX Integr	ator Project 🧶 Discover N	New Ethernet D	OALI Interfa	ces 👻 🗙 Remove DALI I	nterface 🎓 Identify DALI Li	ine 🚪 Open DALI	Interface Searc	h	•
DALI Line Name	Device Name	Connec	ction	Numb	er of Devices Ready to	Test			
🖳 Not Set	Not Set	<b>e</b> 172	.20.200.7 /	1 2	🤣 OK				
🖳 Not Set	Not Set	• 172	.20.200.7 / :	2 2	🐼 OK				
Discover New Device	es 👻 Remove Device 🍵	Identify DA Short Address	LI Device Test Group	Program Short Addres	ses 🎓 Show Test Results	Line Name	Serial Number	Rated Duration	
DALI Device Name		Short Address	Test Group		Ø		Serial Number	Duration	•
DALI Device Name	ID	Short Address	Test Group		Ø			Duration	Ц
DALI Device Name Test Group 1 - next sc New Device 56	ID	Short Address t 22-Sep-2018 a 56	Test Group at 22:00 1	Discharge Schedule	Function Schedule	SI Not Set	how "1. Saturday (20	Duration 6 Weeks)" 90 mins	î
DALI Device Name Test Group 1 - next sc New Device 56 Test Group 2 - next sc	ID theduled discharge test: Sat	Short Address t 22-Sep-2018 a 56	Test Group at 22:00 1	Discharge Schedule	Function Schedule	SI Not Set	how "1. Saturday (2) 00-00-02-75	Duration 6 Weeks)" 90 mins	î
DALI Device Name Test Group 1 - next sc New Device 56	ID theduled discharge test: Sat	Short Address t 22-Sep-2018 a 56 n 23-Sep-2018	Test Group at 22:00 1 at 22:00	Discharge Schedule 1. Saturday (26 Weeks)	Function Schedule 1. Saturday (4 Weeks)	SI Not Set	how "1. Saturday (20 00-00-02-75 Show "2. Sunday (20	Duration 6 Weeks)" 90 mins 6 Weeks)"	î
DALI Device Name Test Group 1 - next sc New Device 56 Test Group 2 - next sc New Device 63	ID theduled discharge test: Sat	Short Address t 22-Sep-2018 a 56 n 23-Sep-2018	Test Group at 22:00 1 at 22:00	Discharge Schedule 1. Saturday (26 Weeks)	Function Schedule 1. Saturday (4 Weeks)	SI Not Set	how "1. Saturday (20 00-00-02-75 Show "2. Sunday (20	Duration 6 Weeks)" 90 mins 6 Weeks)"	î

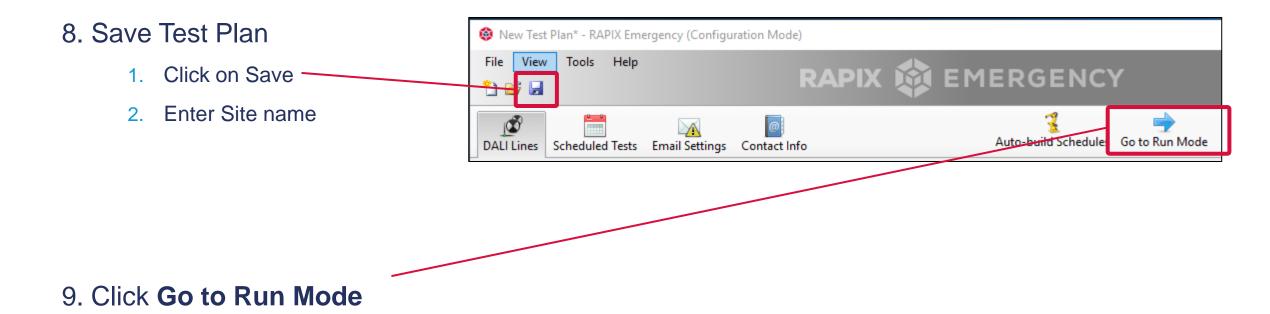


• 6. Add names to DALI Lines and Emergency Devices

	🚳 New Test Plan* - RAPIX E	mergency (Configuration M	ode)		
	File View Tools H	elp			
	🎦 😂 🖬				
1. Double click on name	DALI Lines Scheduled Te	ests Email Settings Conta	a) Ict Info		
	🗴 Import RAPIX Integrator	Project 🧶 Discover New E	thernet DALI Interfaces 🔻 🗶 Remove	DALI Interface ፇ Iden	tify DALI Line 🖉
	DALLLine Name	Device Name	Connection	Number of Devices	Ready to Test
	Line Name				
	🕎 Not Set	Not Set	• 172.20.200.7 / 1	2	🥑 ОК
2. Enter a new name	🕎 Not Set	Not Set	• 172.20.200.7 / 2	2	🥝 ОК

• 7. Add email details







# MANUALLY CREATING A TEST PLAN





## MANUALLY CREATING A TEST PLAN

Refer to help file for Instructions

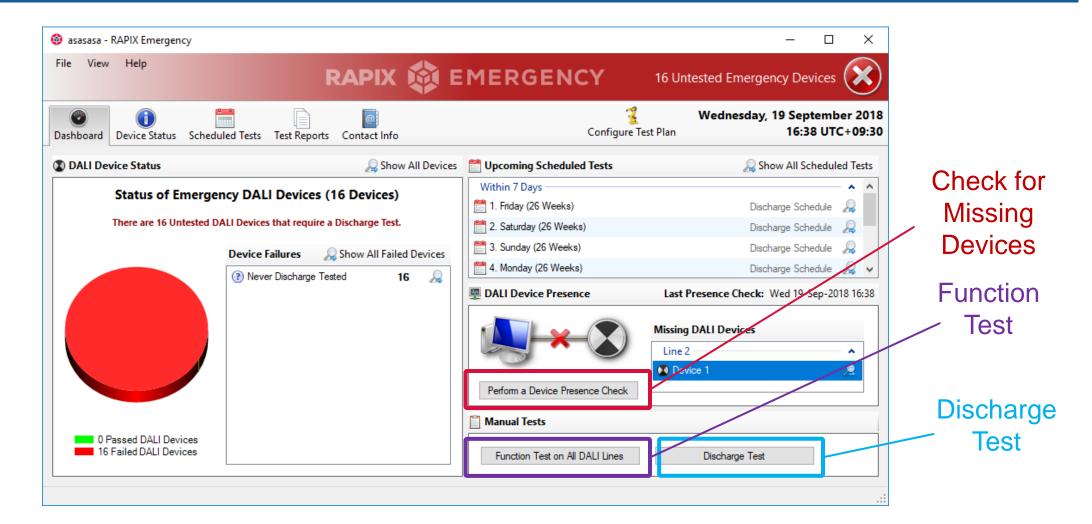


# MANUALLY RUNNING TESTS





### MANUALLY RUNNING TESTS





# **TEST REPORTS**



### TEST REPORTS

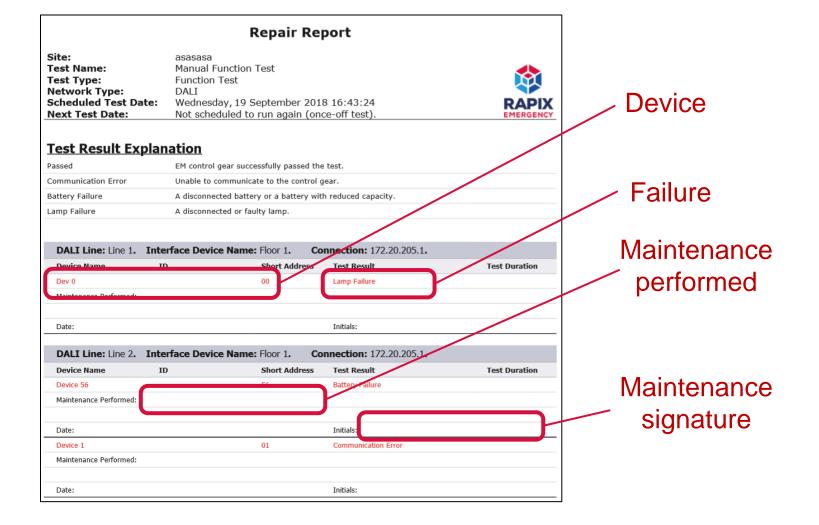
### Test Report

	Fu	ll Test F	Report			
Site: Test Name: Test Type: Network Type: Scheduled Test Date Next Test Date:	asasasa Manual Function T Function Test DALI Wednesday, 19 Se Not scheduled to r	ptember 20				
Tested Devices	Passed: 1 Failed: 3	3 (81%) (19%)	)			Summary
Test Result Expl	anation					
Passed	EM control gear succes	sfully passed t	the test.			
Communication Error	Unable to communicat	e to the contro	l gear.			
Battery Failure	A disconnected battery	or a battery v	with reduced capacity.			
Lamp Failure	A disconnected or fault	y lamp.				
DALI Line: Line 1. In	nterface Device Name:	Floor 2. (	Connection: 172.20.205.2.			Detelle
Device Name	ID	Short Address	Test Result	Test Duration		Details
Device 0		00	Passed			
		07	Passed		-	
Device 7						
	nterface Device Name:	Floor 2.	Connection: 172.20.205.2.			
	nterface Device Name:	Floor 2. ( Short Address		Test Duration		
DALI Line: Line 2. In	nterface Device Name: ID			Test Duration		
DALI Line: Line 2. In Device Name	nterface Device Name: ID	Short Address	Test Result	Test Duration		
DALI Line: Line 2. Ir Device Name Device 56 Device 63	nterface Device Name: ID	Short Address 56 63	Test Result Passed	Test Duration		
DALI Line: Line 2. Ir Device Name Device 56 Device 63	nterface Device Name: ID nterface Device Name:	Short Address 56 63	Test Result Passed Passed Connection: 172.20.205.1.	Test Duration Test Duration		
DALI Line: Line 2. Ir Device Name Device 56 Device 63 DALI Line: Line 1. Ir	iterface Device Name: ID iterface Device Name: ID	Short Address 56 63 Floor 1. (	Test Result Passed Passed Connection: 172.20.205.1.			
DALI Line: Line 2. Ir Device Name Device 56 Device 63 DALI Line: Line 1. Ir Device Name	iterface Device Name: ID Iterface Device Name: ID	Short Address 56 63 Floor 1. ( Short Address	Test Result Passed Passed Connection: 172.20.205.1. Test Result			
DALI Line: Line 2. Ir Device Name Device 56 Device 63 DALI Line: Line 1. Ir Device Name Dev 0 Dev 7	iterface Device Name: ID Iterface Device Name: ID	Short Address 56 63 Floor 1. ( Short Address 00 07	Test Result Passed Passed Connection: 172.20.205.1. Test Result Lamp Failure			
DALI Line: Line 2. Ir Device Name Device 56 Device 63 DALI Line: Line 1. Ir Device Name Dev 0 Dev 7	nterface Device Name: ID nterface Device Name: ID nterface Device Name:	Short Address 56 63 Floor 1. ( Short Address 00 07	Test Result Passed Passed Connection: 172.20.205.1. Test Result Lamp Falure Passed Connection: 172.20.205.1.			
DALI Line: Line 2.       Ir         Device Name       Ir         Device 56       Ir         Device 63       Ir         Device Name       Ir         Device Name       Ir         Dev 0       Ir         Dev 7       Ir	iterface Device Name: ID iterface Device Name: ID iterface Device Name: ID	Short Address 56 63 Floor 1. ( Short Address 00 07 Floor 1. (	Test Result Passed Passed Connection: 172.20.205.1. Test Result Lamp Falure Passed Connection: 172.20.205.1.	Test Duration		
DALI Line: Line 2. Ir Device Name Device 56 Device 63 DALI Line: Line 1. Ir Device Name Dev 0 Dev 7 DALI Line: Line 2. Ir Device Name	iterface Device Name: ID iterface Device Name: ID iterface Device Name: ID	Short Address 56 63 Floor 1. ( Short Address 00 07 Floor 1. ( Short Address	Test Result Passed Passed Connection: 172.20.205.1. Test Result Lamp Falure Passed Connection: 172.20.205.1. Test Result	Test Duration		

**OZUNO**<sup>™</sup>

### TEST REPORTS

#### **Repair Report**





# TOOLS





## TOOLS

### **DALI** Device Grid

- Select Tools / DALI Address Grid
- Select DALI Line

• Click Scan

D <b>ALI Sh</b> e The g	rid below s	ses Occu hows the	pied by DA DALI short other Device	t addresse	s in use b	y DALI	j	
	DAL	<del>Line.</del> Lir	ne 1			$\sim$		
	Scan E	very: Ma	anual Scan		Scar	1		
DALI De	vices on t	his Line						
0	1	2	3	4	5	6	7	
8	9	10	11	12	13	14	15	
16	17	18	19	20	21	22	23	
24	25	26	27	28	29	30	31	
32	33	34	35	36	37	38	39	
40	41	42	43	44	45	46	47	
48	49	50	51	52	53	54	55	
56	57	58	59	60	61	62	63	
Legend	w all DALI d	evice type	s					
None		F	luorescent		Emerg	Emergency		
Discharg	ge Lamp	L	ow Voltage I	Halogen	Incand	lescent Vol	t. Cont.	
Digital to	DC Conve	rsion L	ED Module		Switch	ing Functio	n	
Colour C	Control	S	equencer		Optica	l Control		
Not Yet	Defined	N	lultiple					



## TOOLS

Summary

Select Tools / Test Plan Summary

