

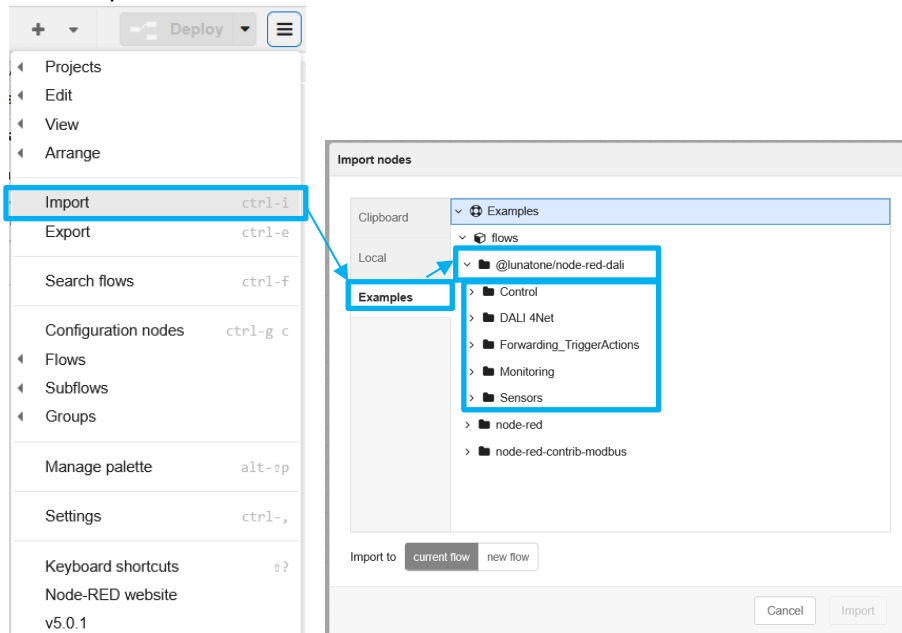
Node RED example Overview

1.	Example Import	2
2.	DALI Control.....	2
	Brightness control buttons.....	3
	Brightness slider	3
	Brightness and Fade Time	4
	Scene Selection.....	5
	Timed Brightness Commands.....	5
	Control with Effective Range Selection	6
	Colour Temperature Slider	7
	Colour Temperature Buttons	7
	Colour Temperature Buttons with Group Selection	8
	Colour picker	8
	Colour RGB Buttons.....	9
4.	DALI4Net.....	10
	DALI4Net Modbus Control and Queries.....	10
5.	Forwarding Trigger Actions	10
	Forwarding and Filters.....	10
	Trigger Action	11
6.	Sensors	11
	DALI-2 Display internal sensor request	11
	Visualisation of sensor events	12
7.	Monitoring.....	12
	Bus Status	13
	Query Actual Level.....	14
	Query Lamp Failure	15
	Query Status.....	16
	Energy Monitoring.....	17
8.	Default Dashboard (Dashboard2).....	19
	Appendix: Overview Lunatone Nodes	20
	Additional Information and Equipment	22
	Contact	22

1. Example Import

Node RED Lunatone Examples are available at: http://www.lunatone.at/projects/Display_and_IoT/IoT-Node-RED-examples.zip

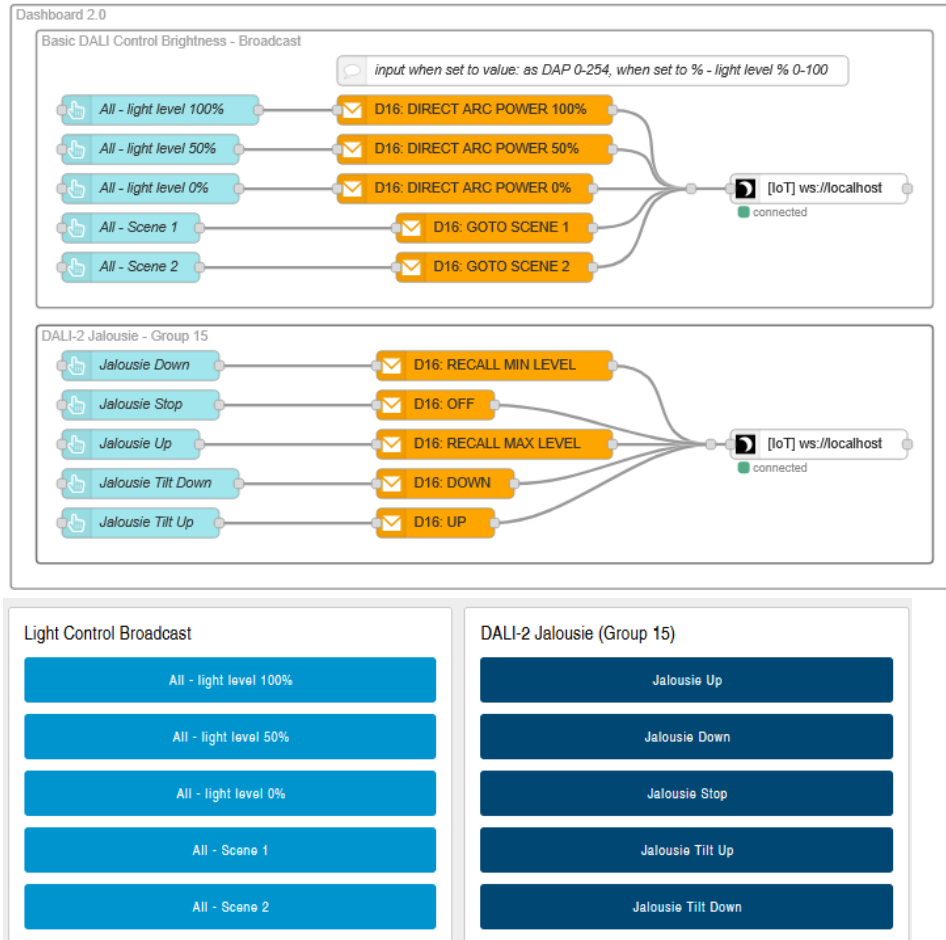
Or as import in Node RED:



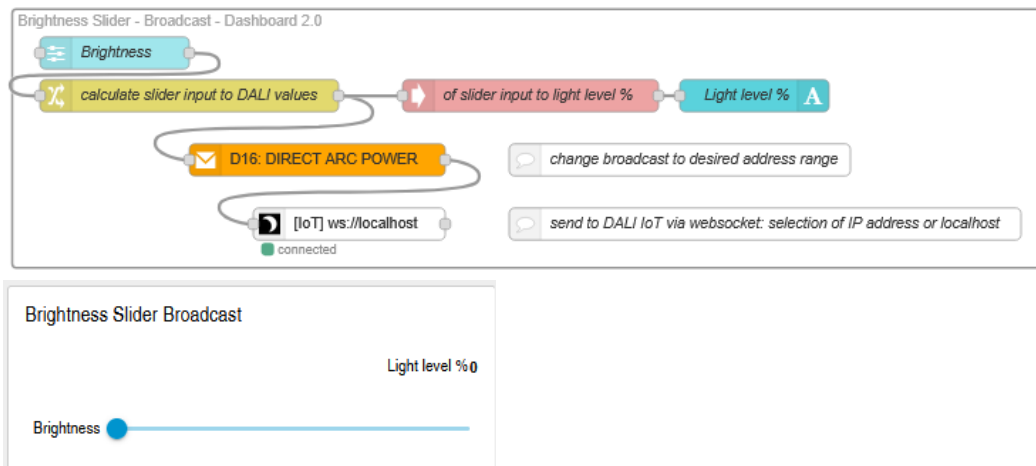
2. DALI Control



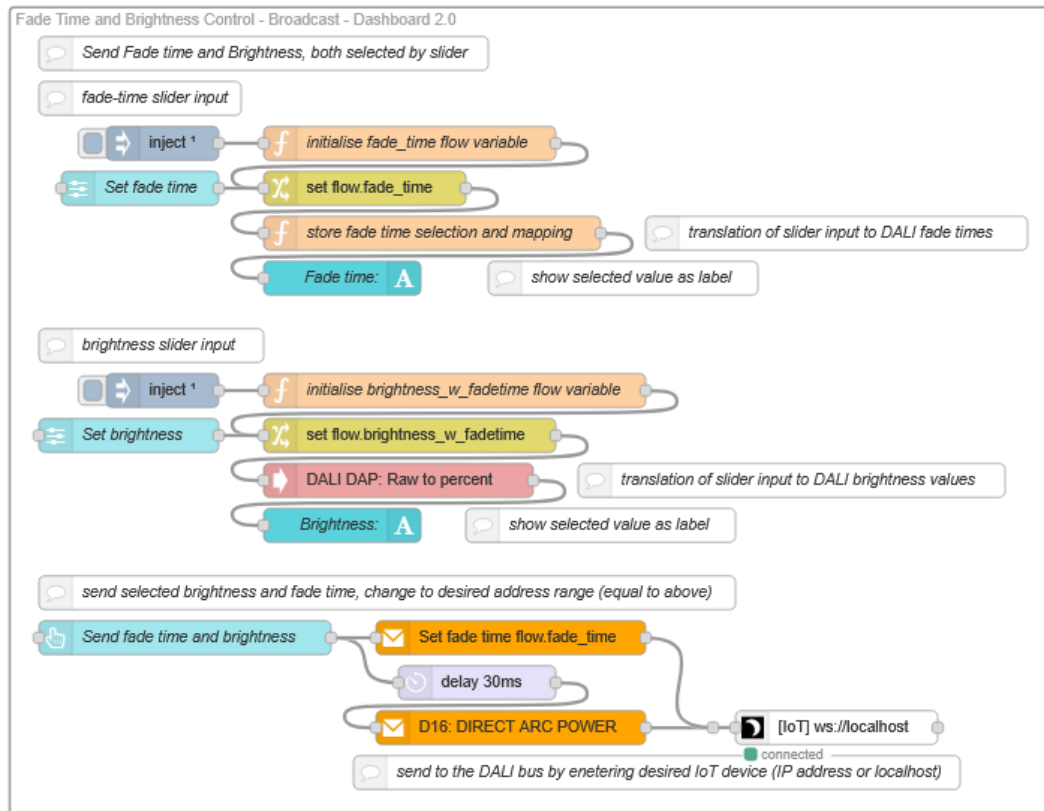
Brightness control buttons



Brightness slider



Brightness and Fade Time



Light Control with Fade Broadcast

Set fade time

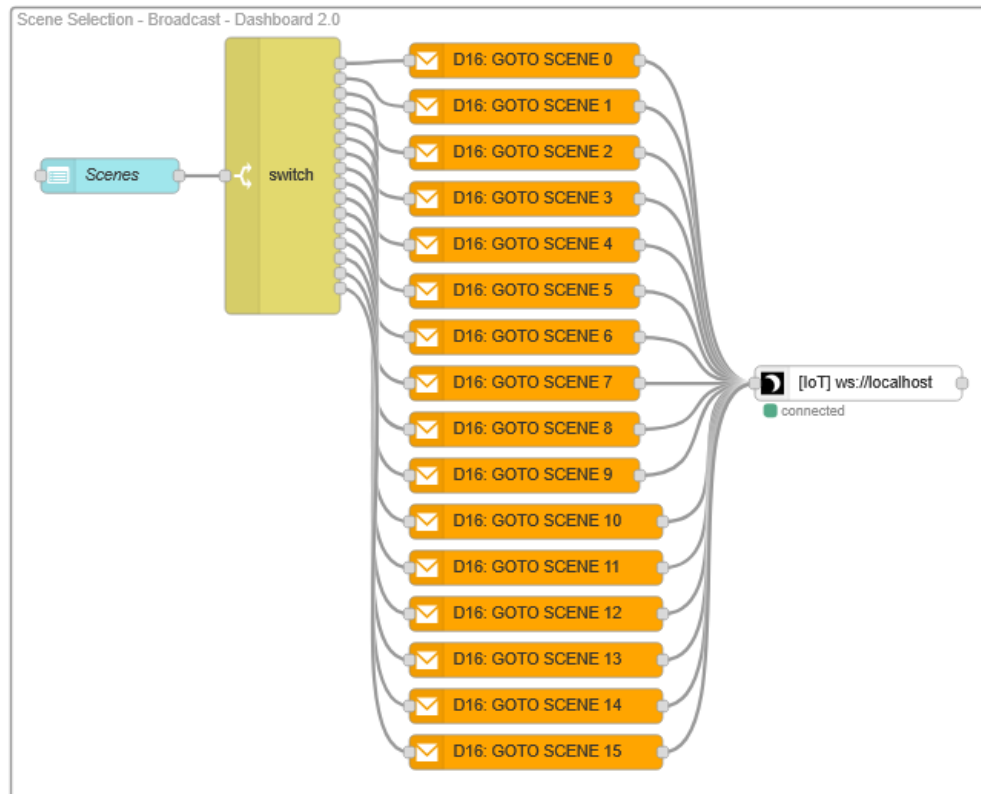
Fade time: 0.7s

Set brightness

Brightness Light Level %: 17.905

Send fade time and brightness

Scene Selection

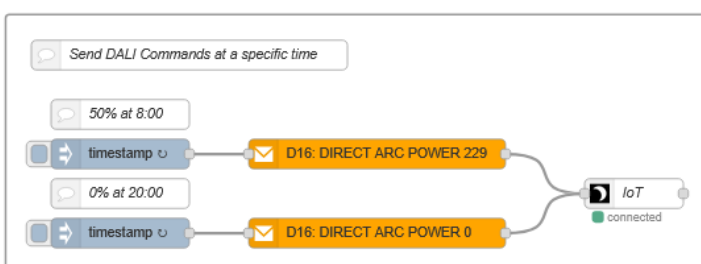


Scene Control Broadcast

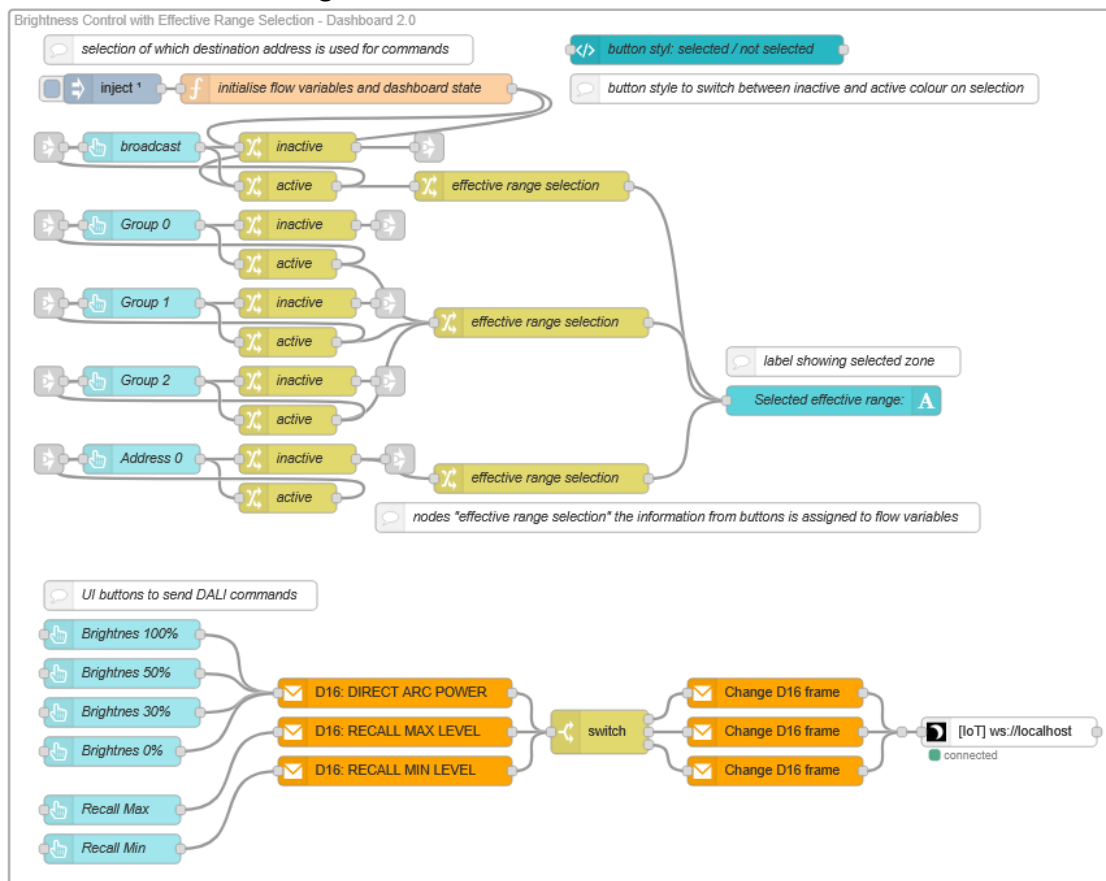
* Select Scene ▼

Activate

Timed Brightness Commands



Control with Effective Range Selection



Control with Effective Range Selection

Broadcast

Group 0

Group 1

Group 2

A0

Selected effective range: broadcast

100%

50%

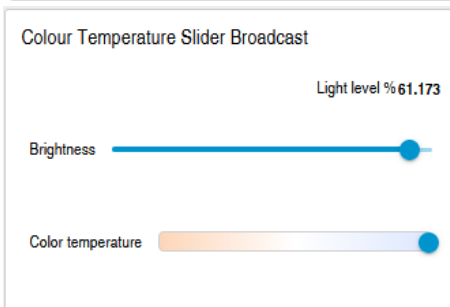
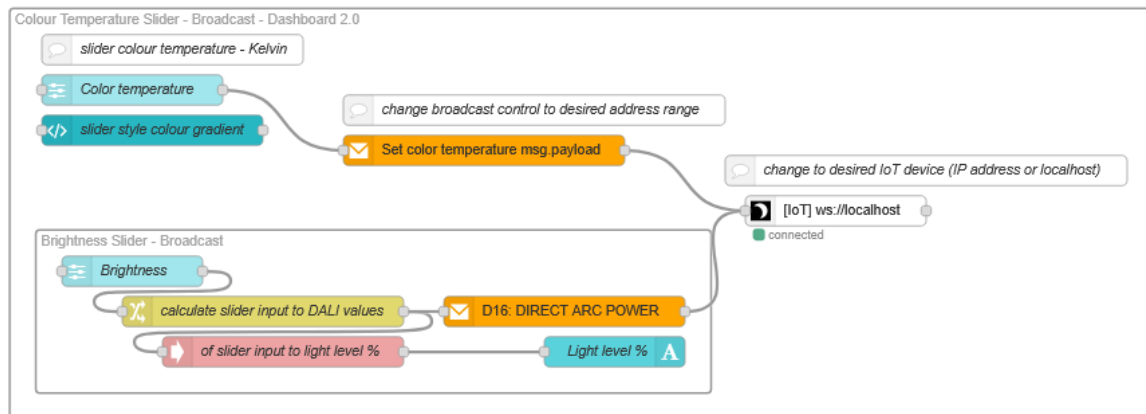
30%

0%

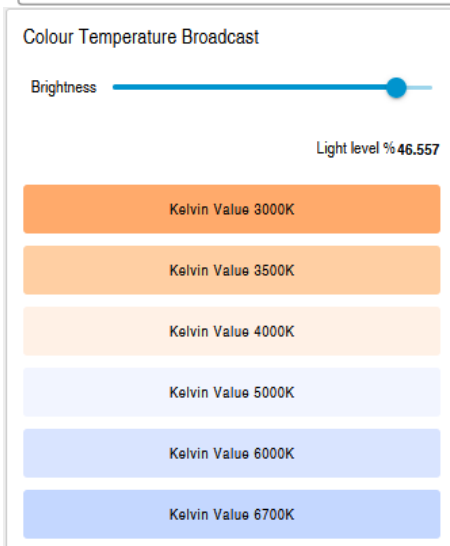
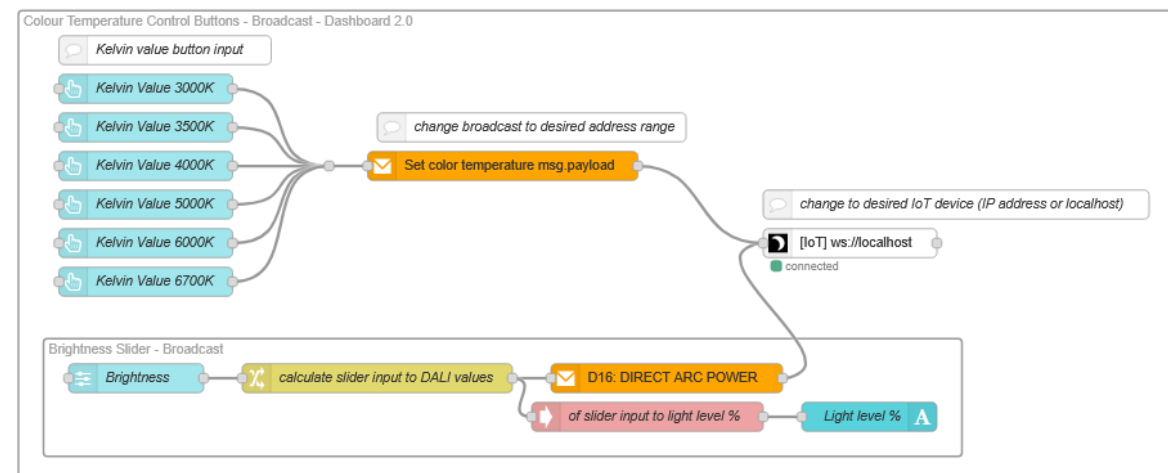
Max

Min

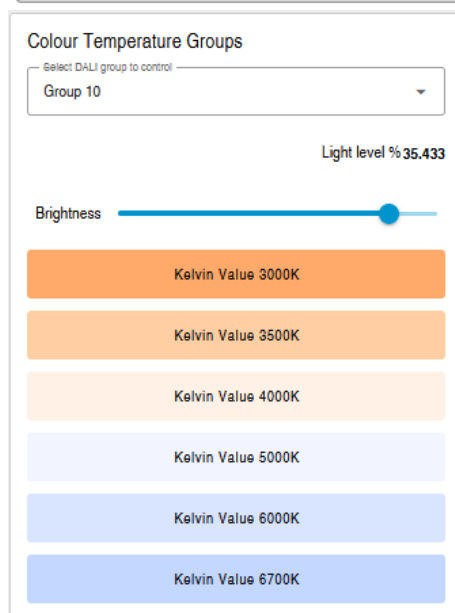
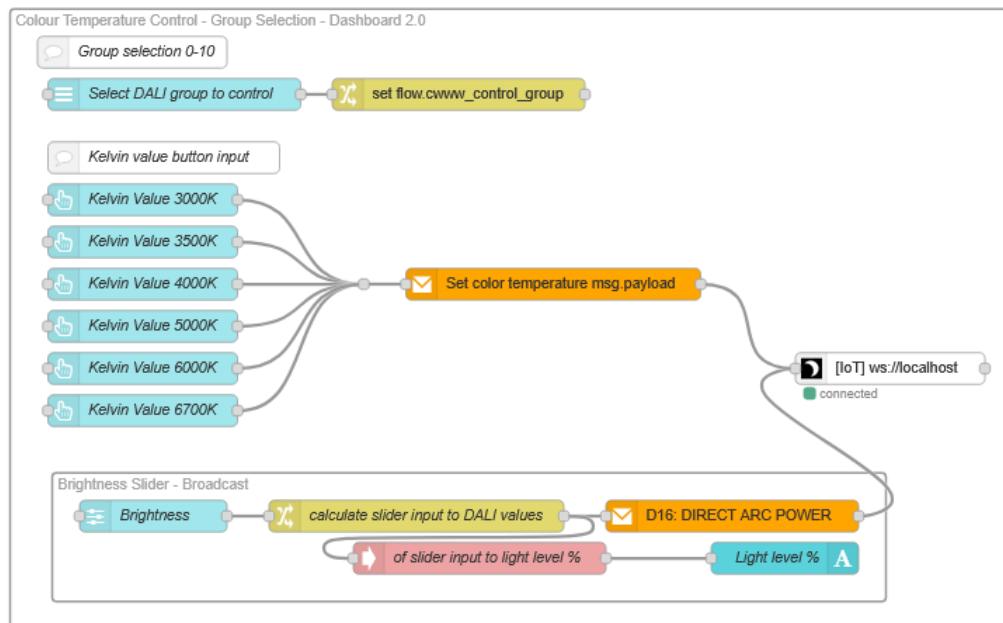
Colour Temperature Slider



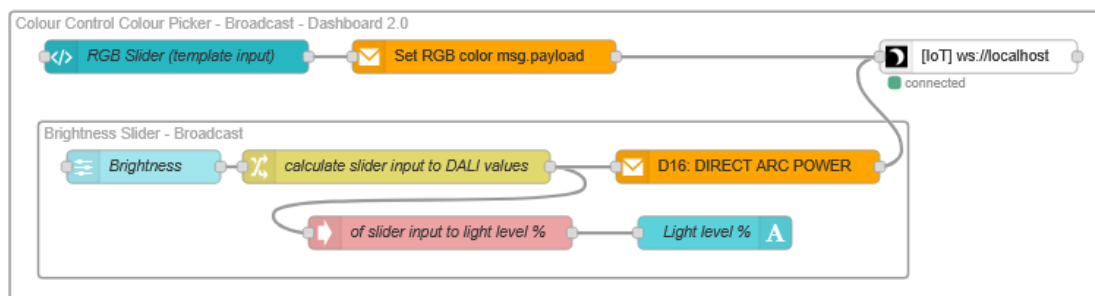
Colour Temperature Buttons

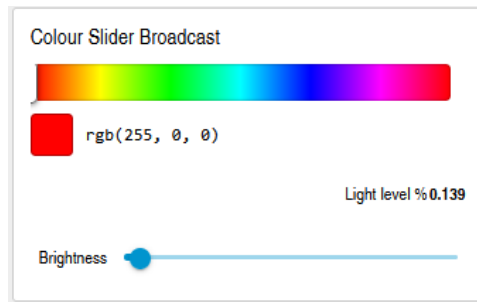


Colour Temperature Buttons with Group Selection

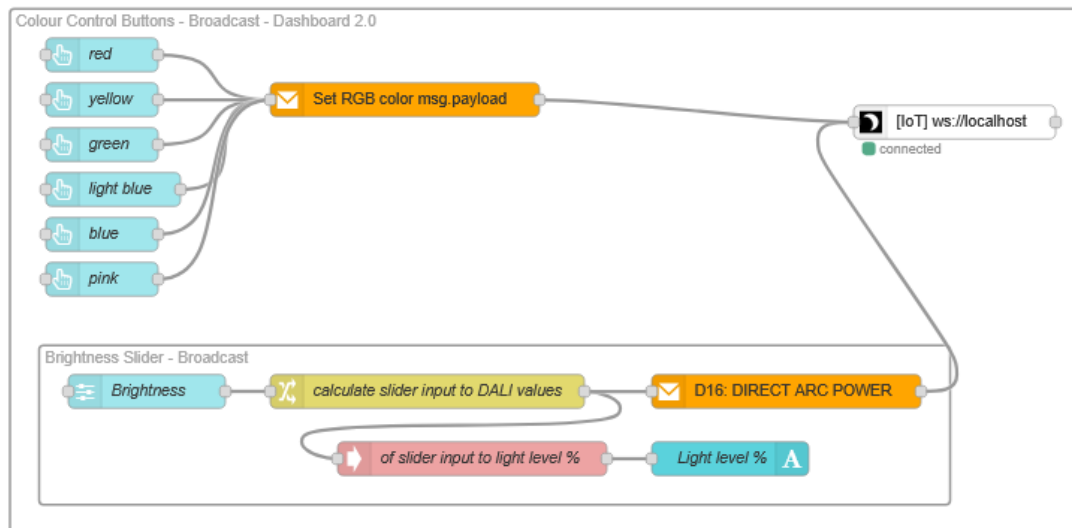


Colour picker



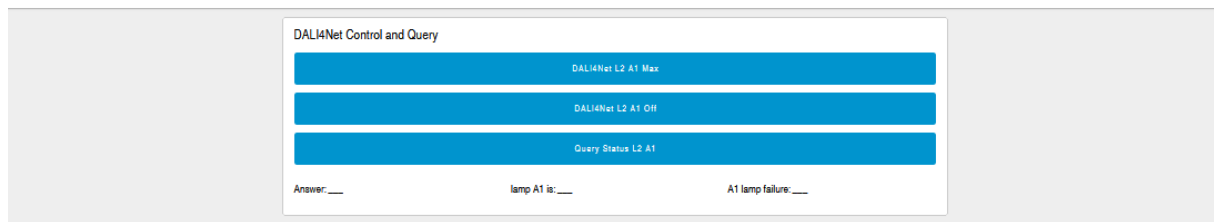


Colour RGB Buttons

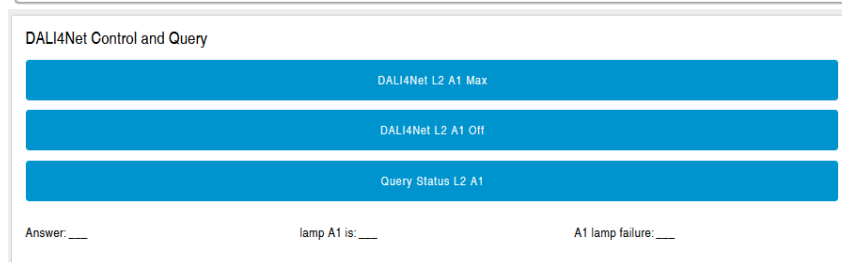
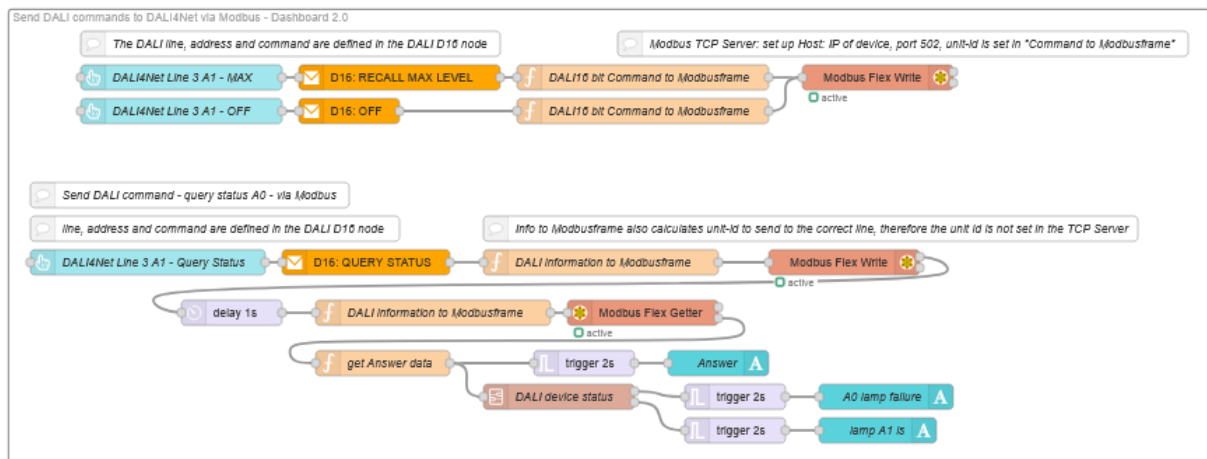


4. DALI4Net

☰ DALI4Net Control

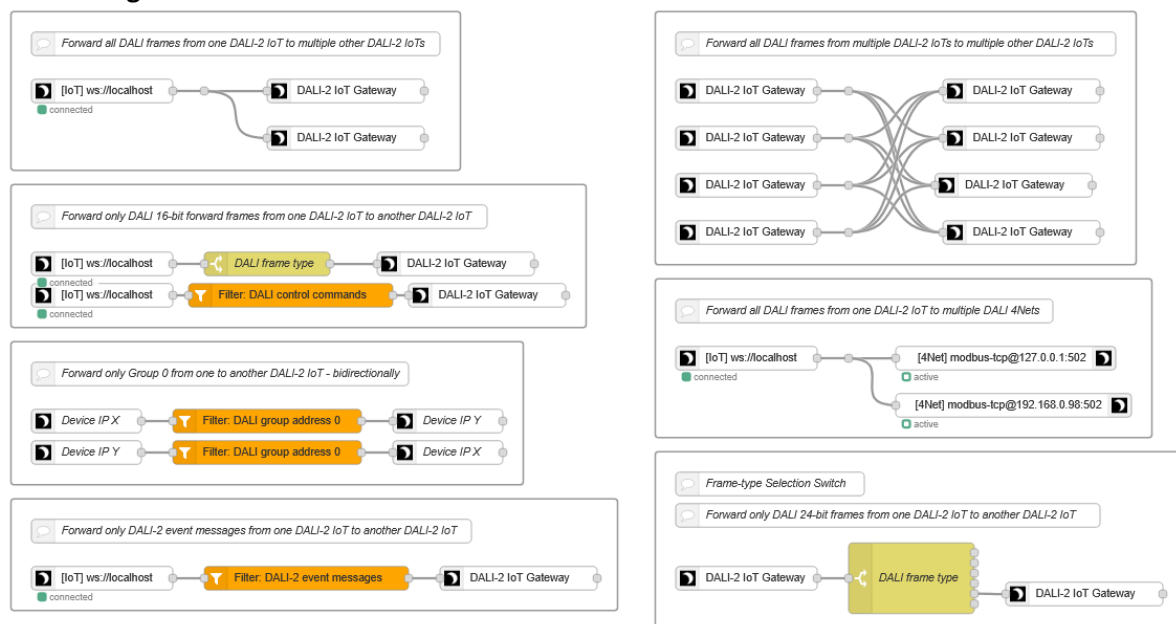


DALI4Net Modbus Control and Queries

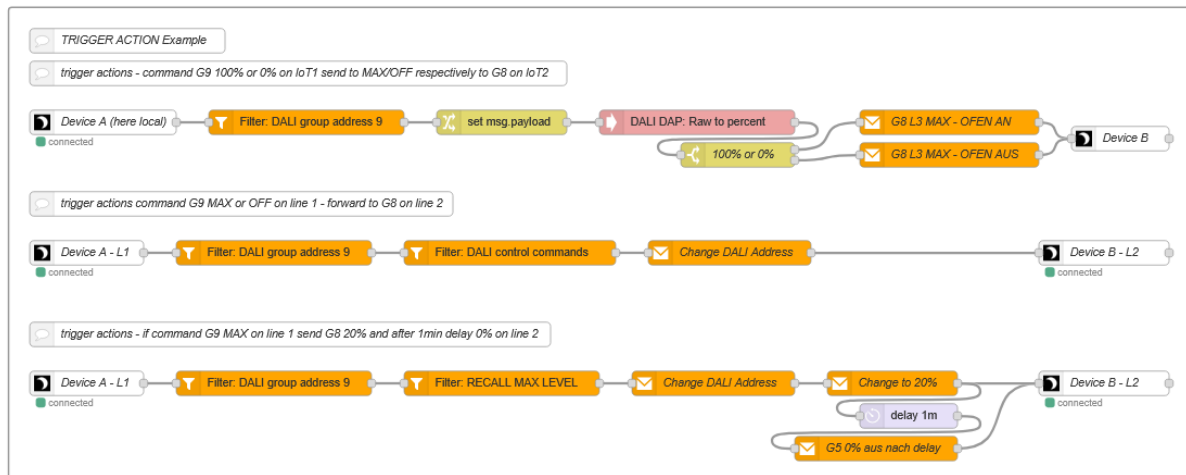


5. Forwarding Trigger Actions

Forwarding and Filters

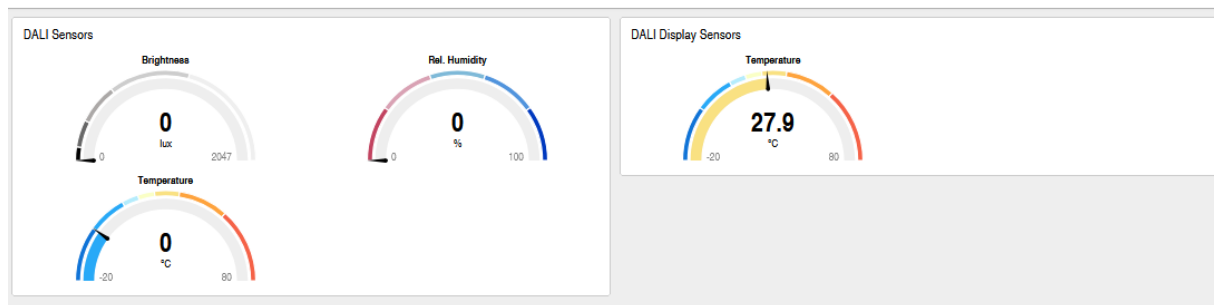


Trigger Action

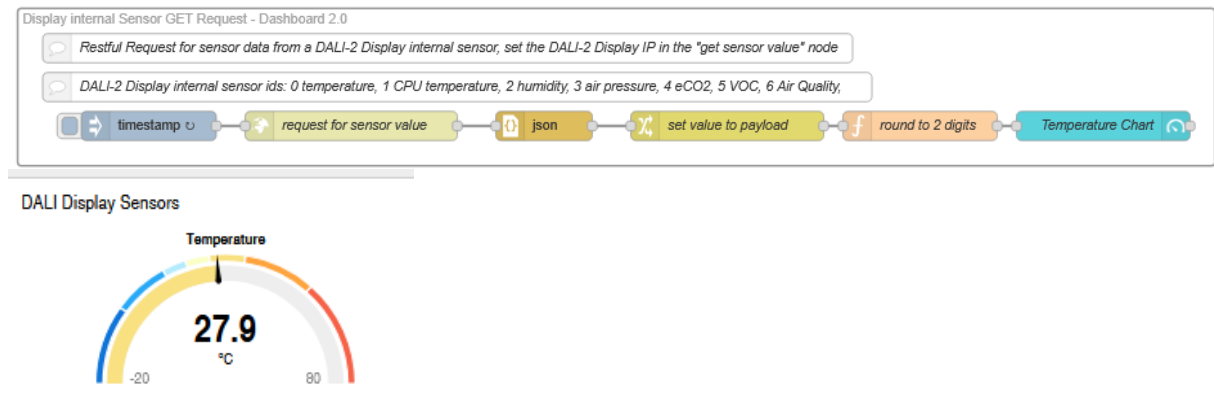


6. Sensors

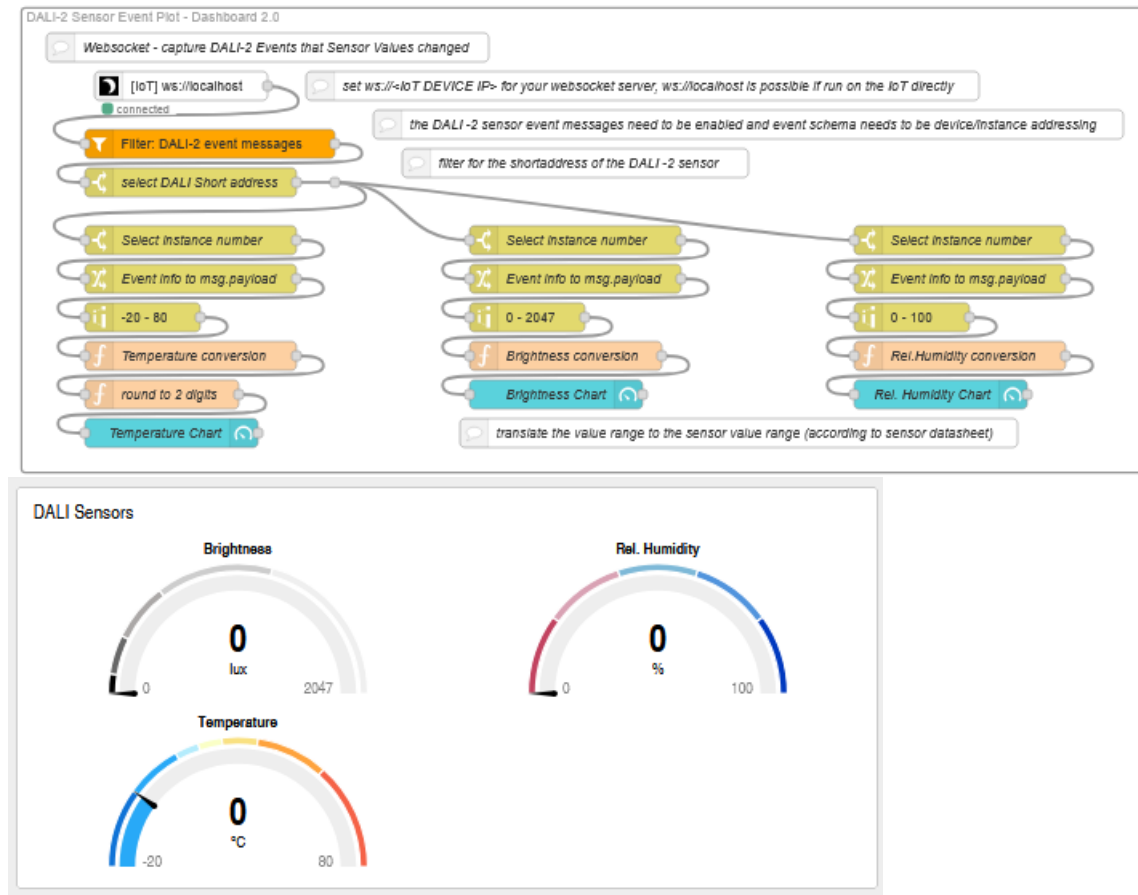
DALI Sensor Plots



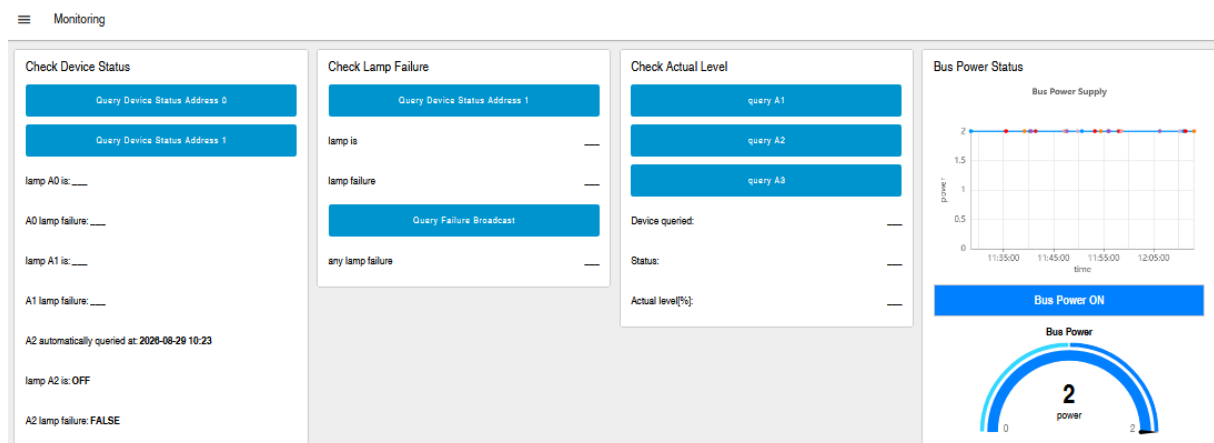
DALI-2 Display internal sensor request



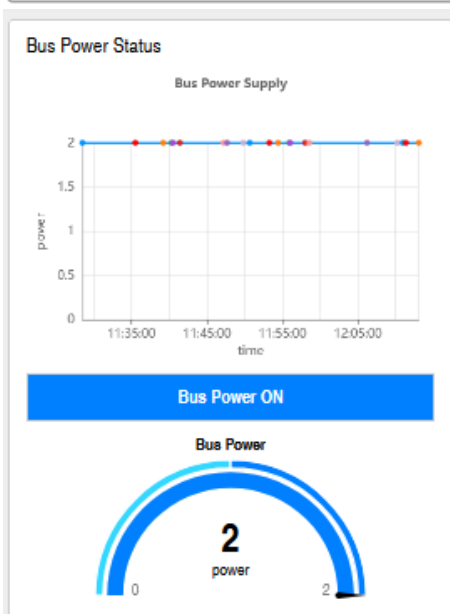
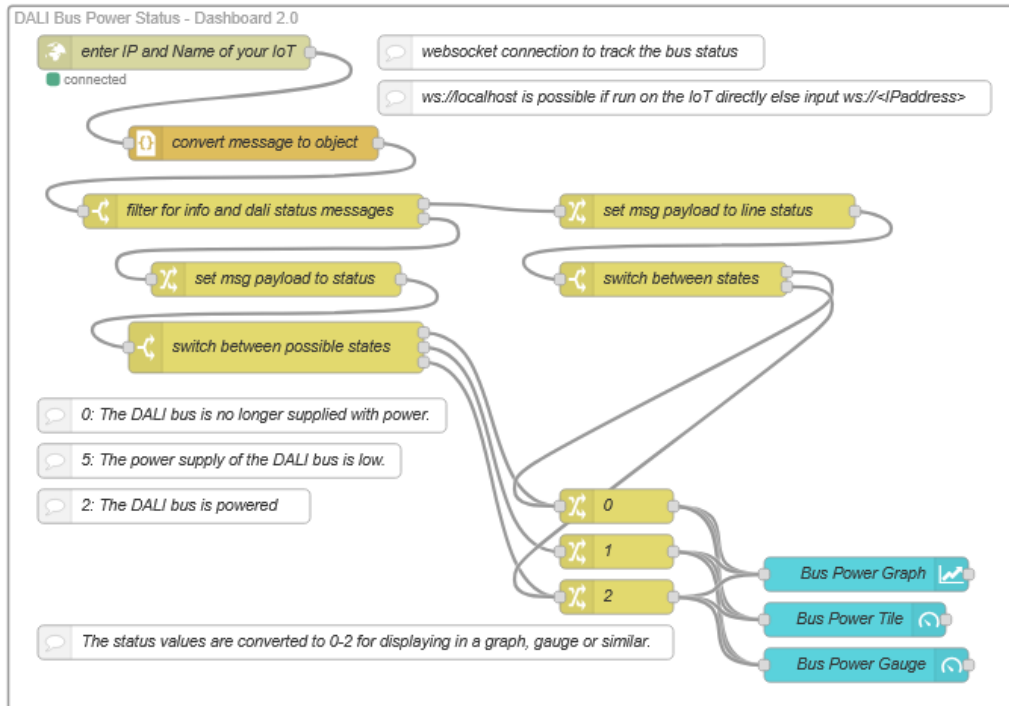
Visualisation of sensor events



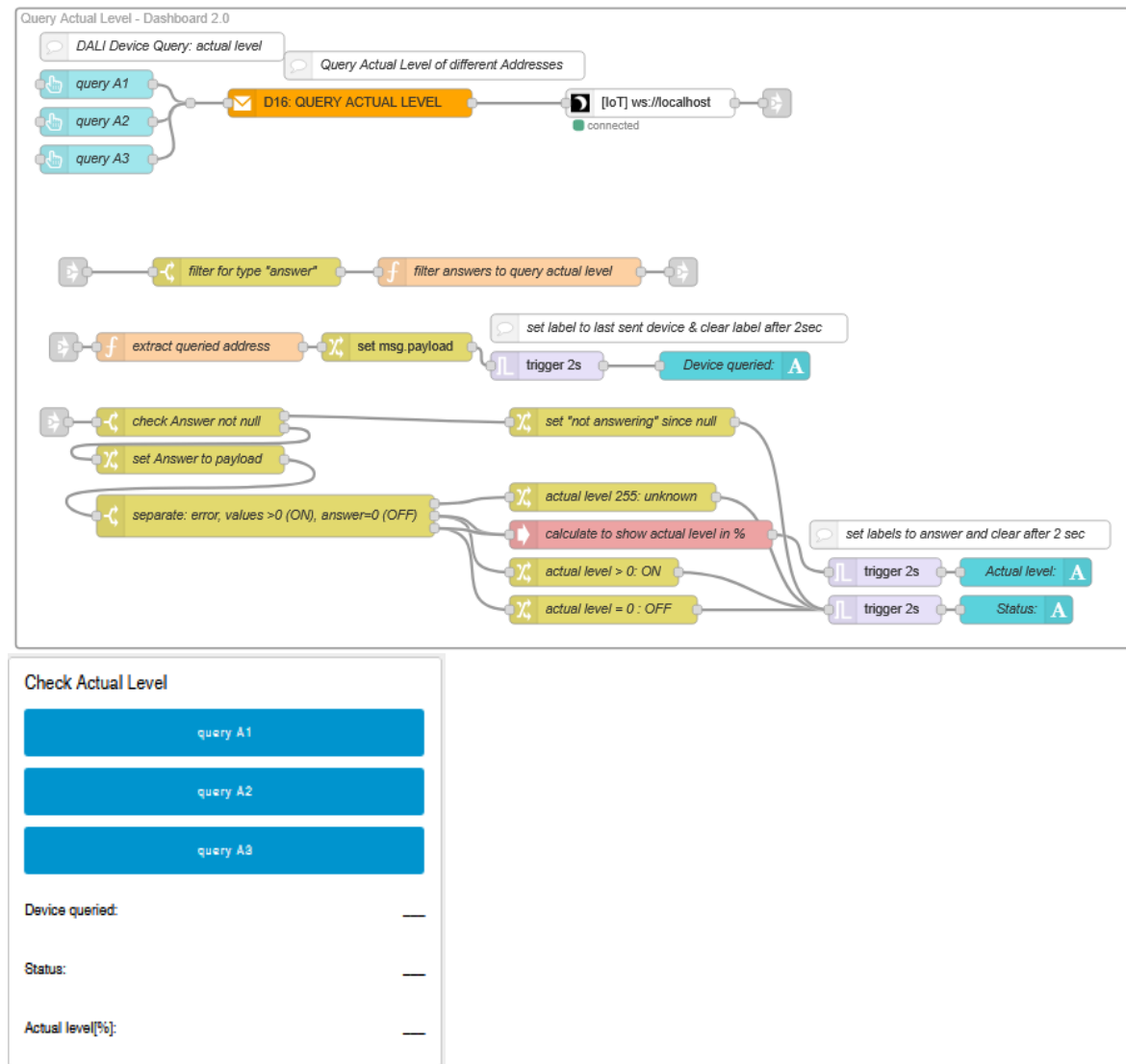
7. Monitoring



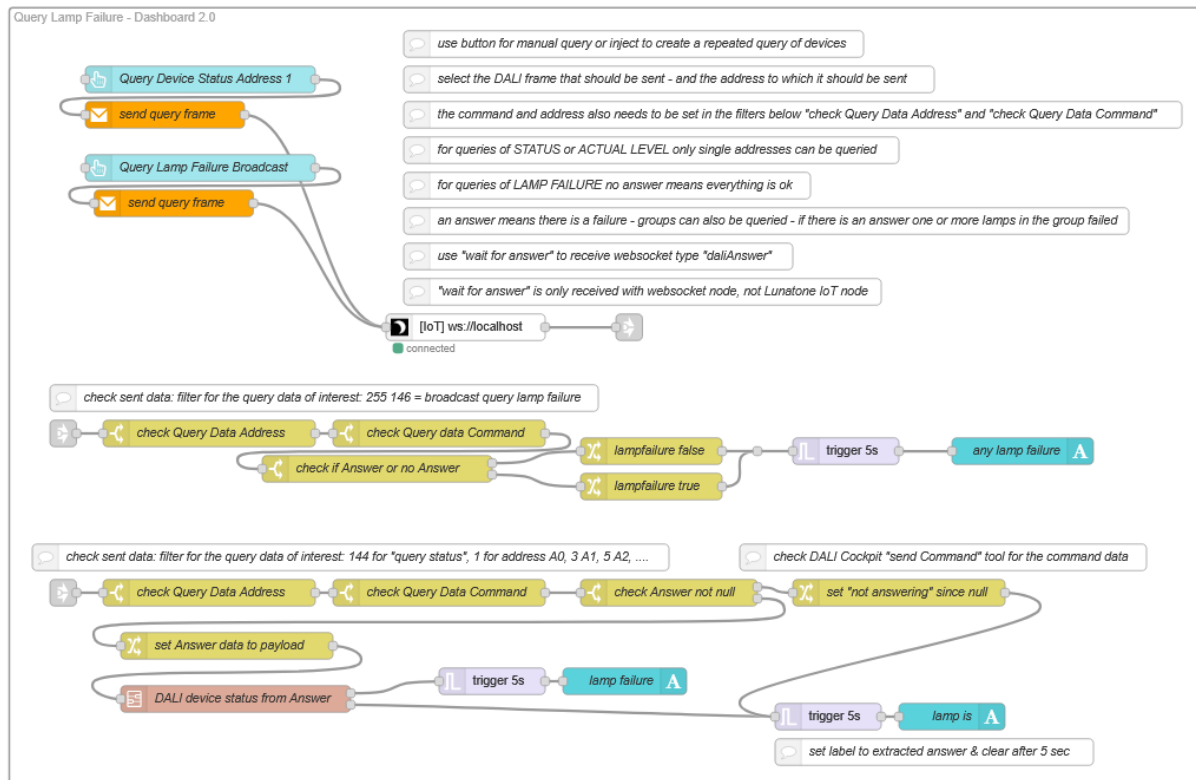
Bus Status



Query Actual Level



Query Lamp Failure



Check Lamp Failure

Query Device Status Address 1

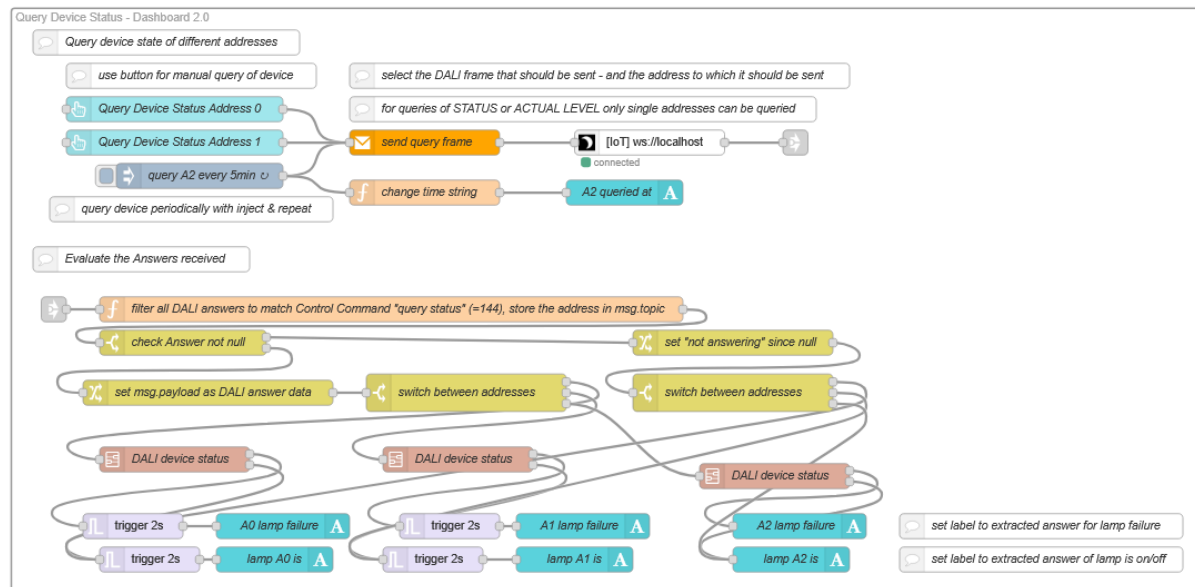
lamp is OFF

lamp failure FALSE

Query Failure Broadcast

any lamp failure NO

Query Status



Check Device Status

Query Device Status Address 0

Query Device Status Address 1

lamp A0 is: ____

A0 lamp failure: ____

lamp A1 is: OFF

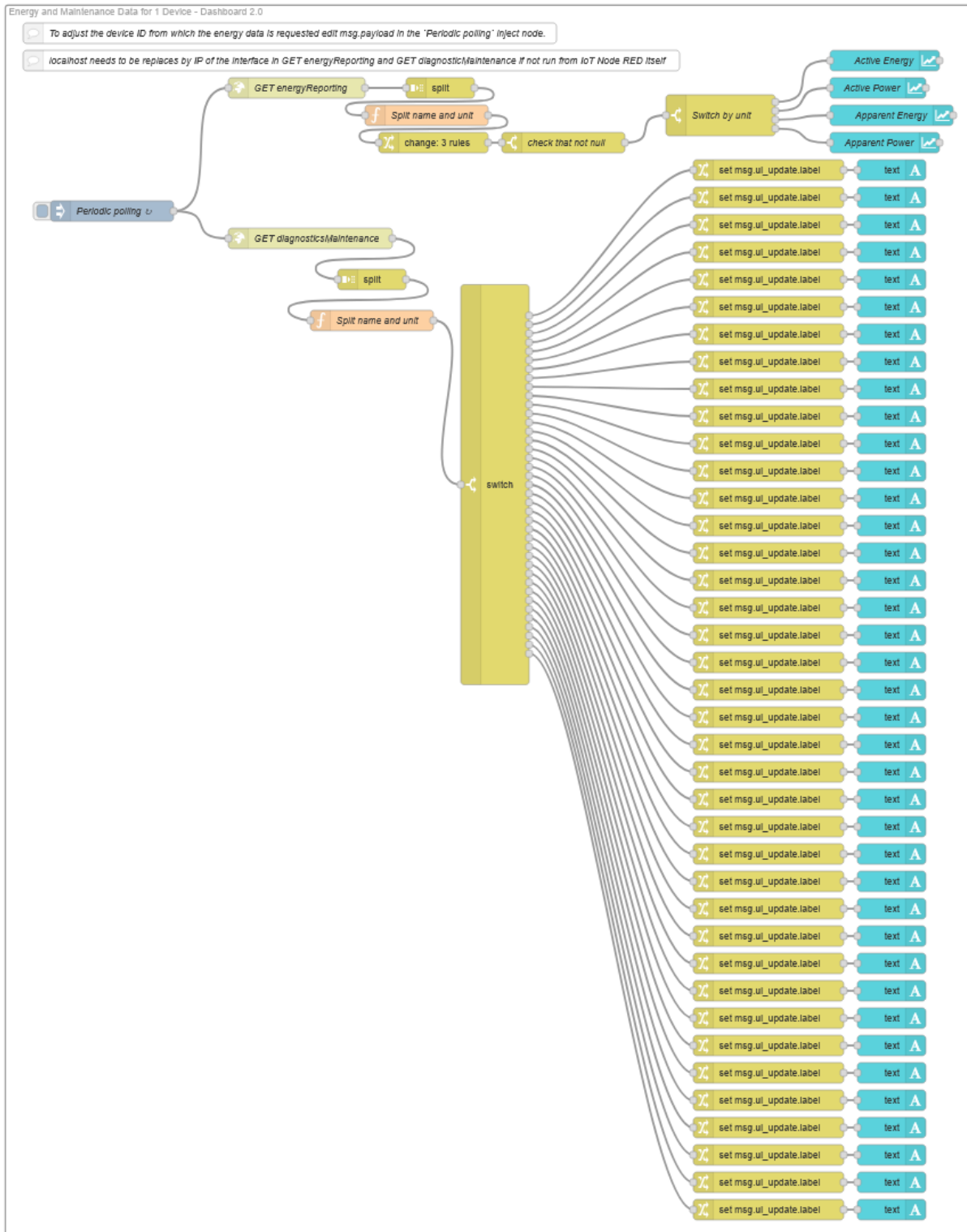
A1 lamp failure: FALSE

A2 automatically queried at: 2026-08-29 10:28

lamp A2 is: OFF

A2 lamp failure: FALSE

Energy Monitoring

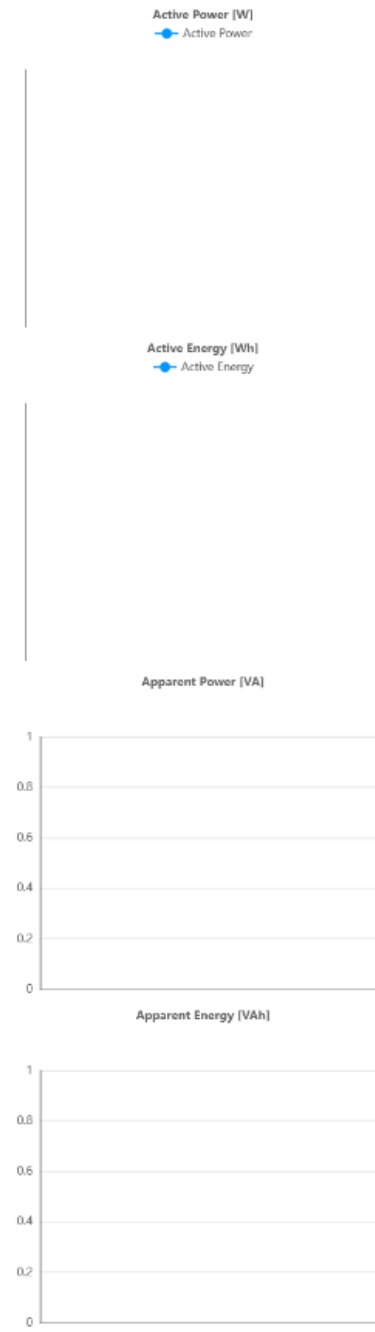


Energy Data

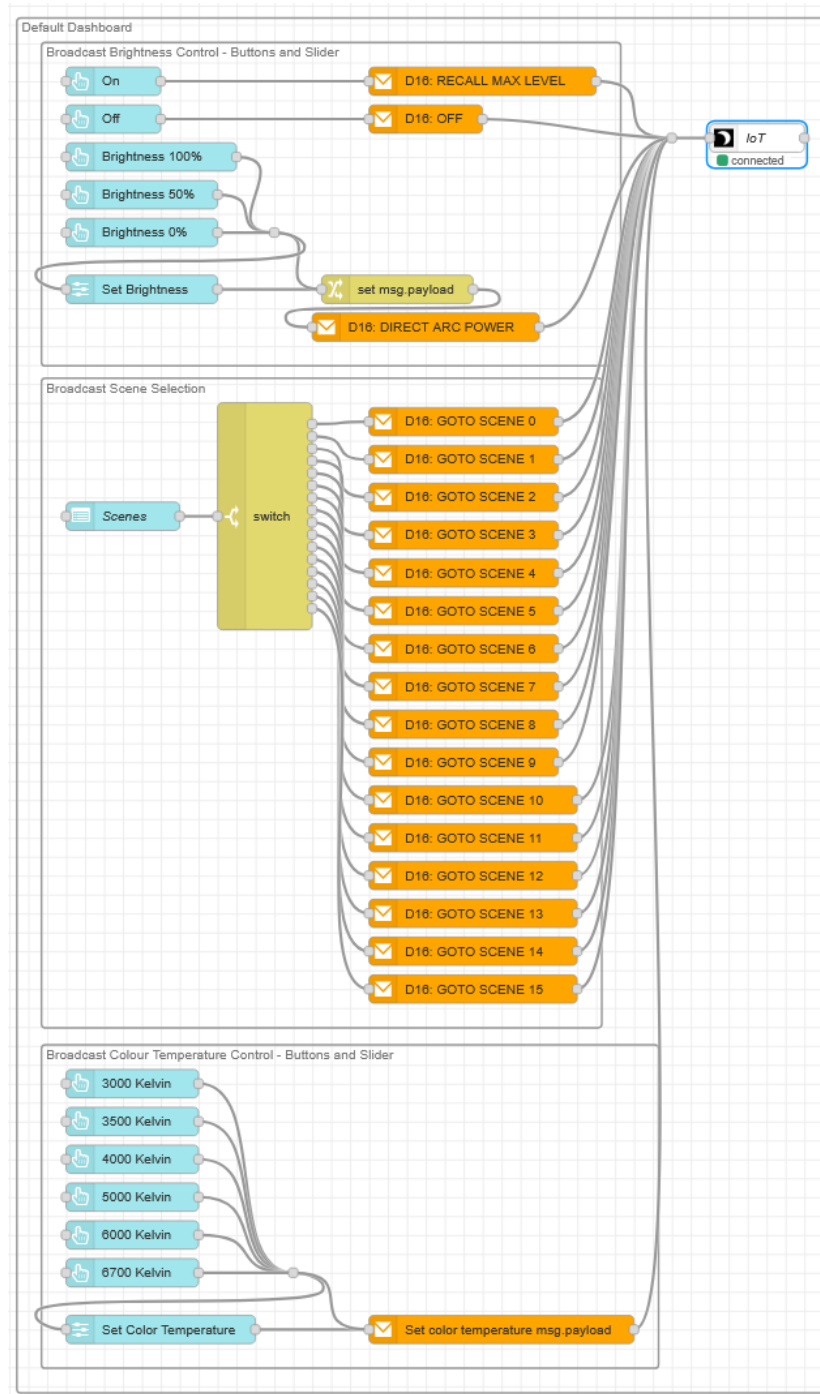
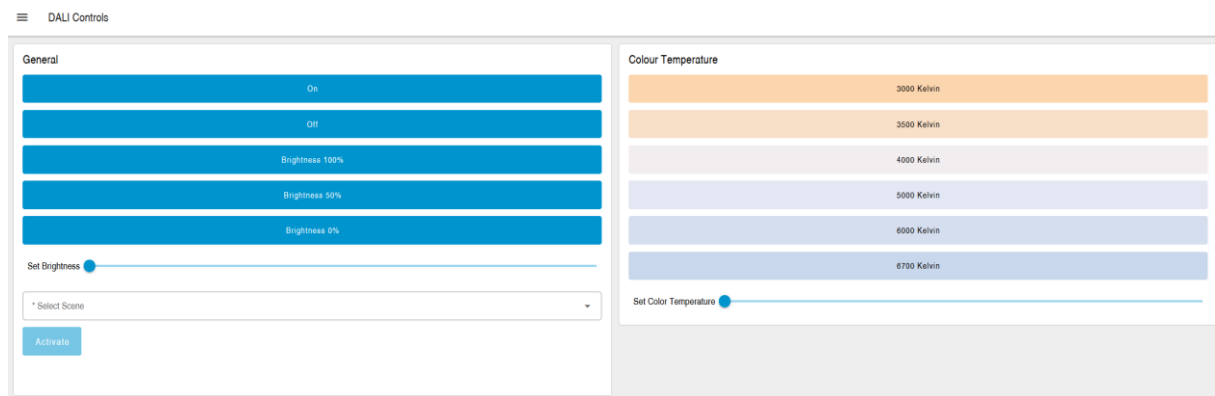
Diagnostics & Maintenance

Control Gear Operating Time	945196s
Control Gear External Supply Undervoltage Counter	255
Rated Median Useful Life Of Luminaire	255000h
Light Source Thermal Shutdown Counter	255
Light Source Thermal Derating Counter	255
Light Source Overall Failure Condition	false
Control Gear Output Current	100%
Control Gear Output Power Limitation	true
Control Gear External Supply Voltage	6553.5Vrms
Light Source Thermal Derating	true
Light Source Current	0.05A
Light Source Thermal Shutdown	true
Internal Control Gear Reference Temperature	185°C
Rated Median Useful Light Source Starts	6553500
Light Source Temperature	185°C
Light Source Short Circuit Counter	255
Light Source On Time Resettable	605305s
Control Gear Thermal Derating Counter	255
Control Gear External Supply Undervoltage	true
Control Gear External Supply Overvoltage	true
Control Gear Overall Failure Condition	false
Control Gear External Supply Voltage Frequency	255Hz
Control Gear Power Factor	2.55
Control Gear Overall Failure Condition Counter	0
Control Gear Thermal Shutdown Counter	0
Control Gear Output Power Limitation Counter	0
Control Gear Start Counter	2
Control Gear Thermal Derating	true
Control Gear Thermal Shutdown	true
Light Source Voltage	24V
Light Source Start Counter Resettable	32
Control Gear External Supply Overvoltage Counter	255

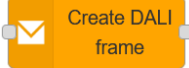
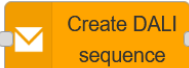
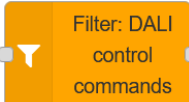
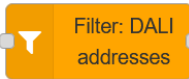
Energy Reporting

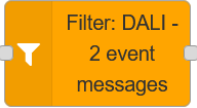
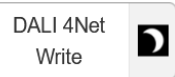


8. Default Dashboard (Dashboard2)



Appendix: Overview Lunatone Nodes

 Create DALI frame	Edit Create DALI frame node Delete Cancel Done Properties DALI Line ☐ DALI address space DALI 16-bit DALI command DIRECT ARC POWER DALI data 0 ☐ Send twice ☐ Wait for answer Address type Broadcast Name	Sending DALI commands: DALI (16-bit), DALI-2 (24-bit), DALI-2 events
 Create DALI sequence	Edit Create DALI sequence node Delete Cancel Done Properties DALI Line ☐ Address type Broadcast Select sequence Set fade time Fade time seconds None Name	Sending DALI sequences: - Colour temperature - Colour (RGBWAF) - Setting fade time - Setting fade rate
 Manipulate DALI frame	Edit Manipulate DALI frame node Delete Cancel Done Properties DALI address space DALI 16-bit Change Address Address type Broadcast Name	Modifying an existing DALI frame (e.g., received via WebSocket): - Changing the address - Changing the command
 Filter: DALI control commands	Edit Filter: DALI control commands node Delete Cancel Done Properties Select command 28 selected ☒ Toggle all Name	Filtering received DALI frame for control commands: selecting multiple commands from a collected list 28 selected ☒ Toggle all ☒ DIRECT ARC POWER ☒ OFF ☒ UP ☒ DOWN ☒ SPEED UP
 Filter: DALI addresses	Edit Filter: DALI addresses node Delete Cancel Done Properties Select broadcast ☐ Select broadcast unaddressed ☐ Select group addresses 0 selected ☐ Toggle all Select short addresses 0 selected ☐ Toggle all Name	Filtering of received DALI frames for specific addresses: selection of individual or multiple addresses, group addresses, and broadcast.

	Edit Filter: DALI-2 event messages node Delete Cancel Done Properties Name	Filtering DALI-2 event messages from all received DALI frames.
	Edit Convert value node Delete Cancel Done Properties Select conversion: DALI DAP: Raw to percent Name	Switching between light level (0–100%) and DALI value (DAP) (0–254) and vice versa. The DALI value (0–254) corresponds to a value for uniform light control. DALI values allow for fine control resolution at lower dimming levels. The following formula determines the output light level: $\text{Light Output} = 10 \frac{\text{DALI value} - 1}{253} - 1 [\%]$
 	Edit DALI-2 IoT Gateway In node Delete Cancel Done Properties URL: ws://localhost Forward: all lines ☐ Include self sent DALI frames Name Edit DALI-2 IoT Gateway Out node Delete Cancel Done Properties URL: ws://localhost Forward to: all lines ☒ Use line from msg object if present Name	WebSocket nodes for sending and receiving DALI communication or IoT status messages via the DALI-2 IoT WebSocket interface.
	Edit DALI 4Net Write node Delete Cancel Done Properties Name Server: Modbus server TCP Target: Lines Select lines: 4 selected ☒ Use line from msg object if present	Modbus TCP node for sending commands via the DALI 4Net's Modbus TCP interface.

Additional Information and Equipment

DALI-2 IoT Node RED Examples

www.lunatone.at/projects/Display_and_IoT/IoT-Node-RED-examples.zip

Node RED Lunatone

<https://flows.nodered.org/node/@lunatone/node-red-dali>

Lunatone datasheets, manuals and software

<http://www.lunatone.com/en/downloads-a-z/>

Lunatone DALI products

<http://www.lunatone.com/en>

DALI-Cockpit – free configuration tool from Lunatone for DALI systems

<https://www.lunatone.com/en/product/dali-cockpit/>

Contact

Technical Support: support@lunatone.com

Requests: sales@lunatone.com

www.lunatone.com

Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The function in installations with other devices must be tested for compatibility in advance.