Using Ontrol DALI Driver on the R-ION
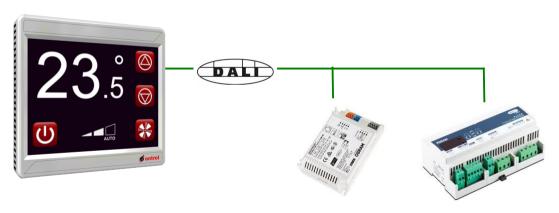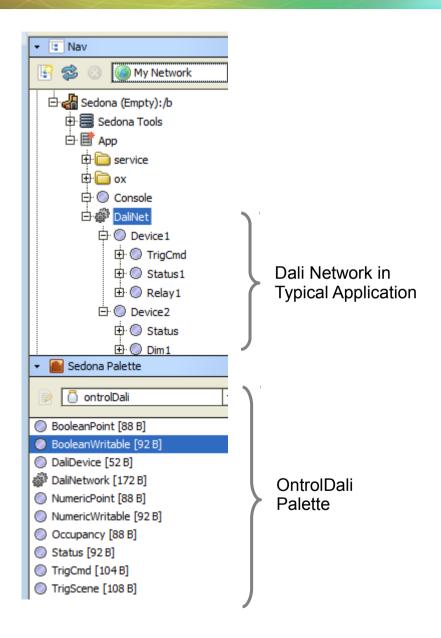

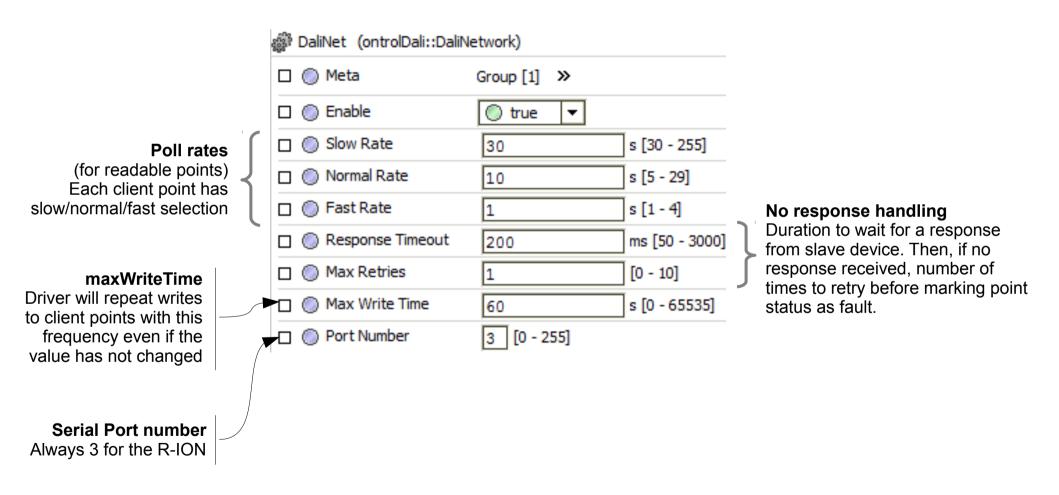**DALI Ballasts, dimmers, modules...**

OBSERVE HIERARCHY

DaliNetwork can reside anywhere but,

- DaliDevices must go under DaliNetwork

- Client points must go under a DaliDevice

DALI Network properties

Poll rates
(for readable points)
Each client point has
slow/normal/fast selection

maxWriteTime
Driver will repeat writes
to client points with this
frequency even if the
value has not changed

Serial Port number
Always 3 for the R-ION

No response handling
Duration to wait for a response
from slave device. Then, if no
response received, number of
times to retry before marking point
status as fault.

DaliNet (ontrolDali::DaliNetwork)

☐ Meta	Group [1] ≫	
☐ Enable	⬤ true ▼	
☐ Slow Rate	30	s [30 - 255]
☐ Normal Rate	10	s [5 - 29]
☐ Fast Rate	1	s [1 - 4]
☐ Response Timeout	200	ms [50 - 3000]
☐ Max Retries	1	[0 - 10]
☐ Max Write Time	60	s [0 - 65535]
☐ Port Number	3	[0 - 255]

DALI DEVICE COMPONENTS HAVE NO UNIQUE PROPERTIES !

DALI Protocol allows addressing of individual 'control gear' (ballasts, relays, dimming circuits...) without needing to refer to a parent device.

For this driver, you can either;

- Add one DaliDevice component and put all your client points under that or,

- Add multiple DaliDevice components representing the actual physical devices on your bus.

In either case, there is no performance or functionality difference; it is purely a personal choice.

DALI Point Types

DALI POINT COMPONENTS

TrigCmd : Provides inputs for triggering DALI commands (off, up, down, recall max, recall min etc...) on a single address, a group, or all devices (broadcast)

TrigScene : Provides 16 inputs for activating scenes on a single address, a group, or all devices (broadcast)

NumericPoint : Queries actual value (numeric)

NumericWritable : Queries actual value and provides a numeric input for sending a direct power control level command to a control gear

BooleanPoint : Queries actual value (boolean)

BooleanWritable : Queries actual value and provides a boolean input for sending a direct on/off command to a control gear
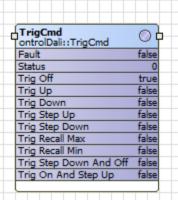
Status : Queries status of a control gear

Occupancy : Queries a Helvar multisensor for occupancy information

Sedona DALI Driver for the R-ION
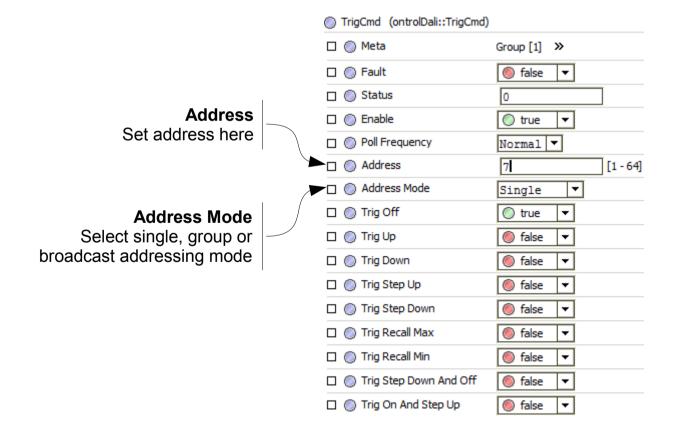
TrigCmd component

TrigCmd component is used for triggering DALI commands.

Individual in slots are provided for various DALI commands.

A transition from false to true will cause the associated DALI command to be sent to the control gear.

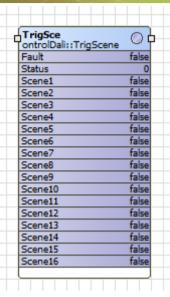These slots are ideal for use with soft buttons on the device display

(i.e. oxWidgets)

Address
Set address here

Address Mode
Select single, group or broadcast addressing mode

TrigScene component is used for triggering preset scenes

Individual in slots are provided for scenes 1...16

A transition from false to true will cause the associated scene select command to be sent to the control gear.

These slots are ideal for use with soft buttons on the device display (i.e. oxWidgets)

Address
Set address here

Address Mode
Select single, group or broadcast addressing mode

Numeric & Boolean components
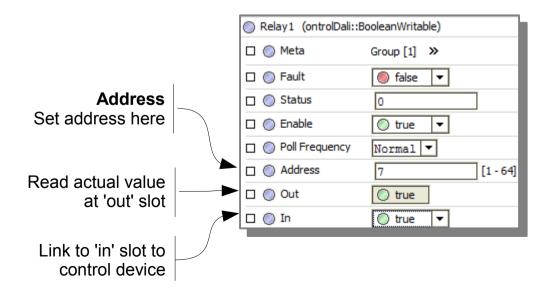
NumericPoint and BooleanPoint

Both component types will query a control gear (in single address mode) for actual value.

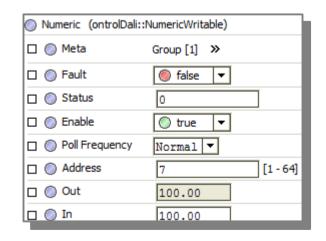The reply from the DALI device is scaled to 0..100% range.

NumericWritable and BooleanWritable

These components have the same functionality as the above. Additionally, they allow writing a direct value to the control gear.
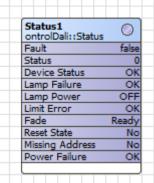
BooleanWritable

Address
Set address here

Read actual value
at 'out' slot

Link to 'in' slot to
control device

NumericWritable

Status component queries control gear for current operational values

Following slots are provided, though all may not be applicable depending on device/manufacturer

- Device Status

- Lamp Failure

- Lamp Power

- Limit Error

- Fade

- Reset State

- Missing Address

- Power Failure

Address
Set address here