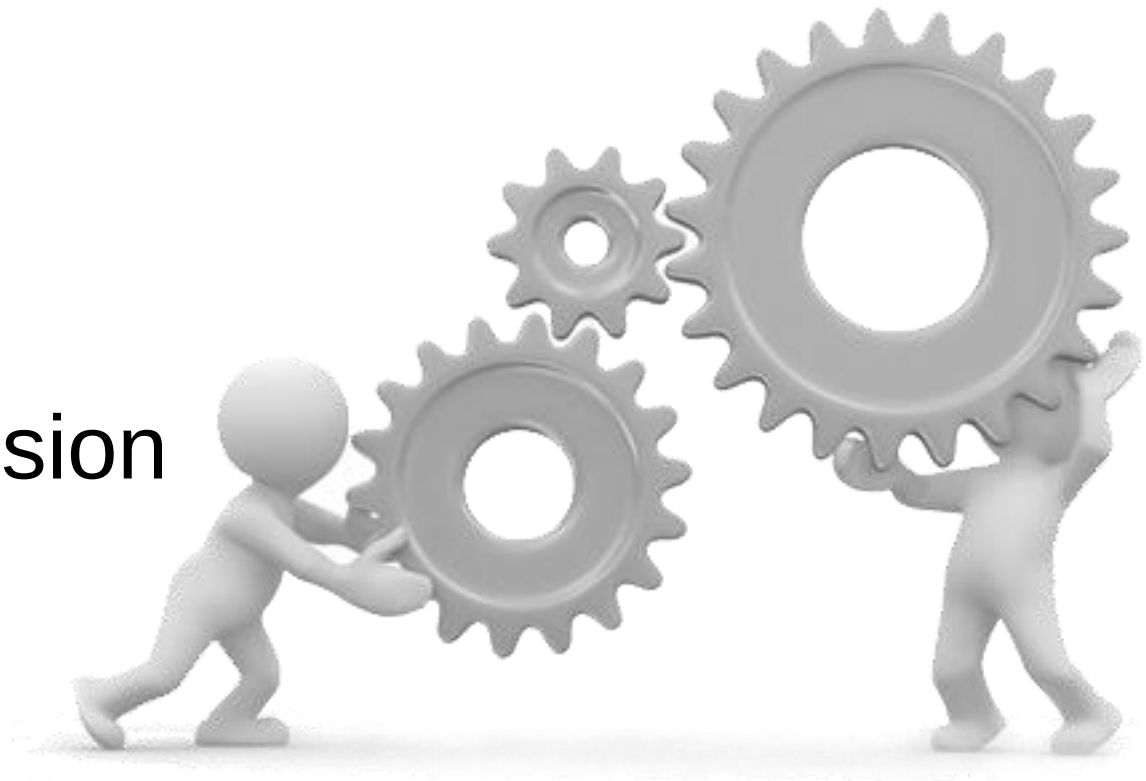
PHILIPS

Technical Session



Richard Cuthbert
Philips Dynalite Technical Support
29/8/2017

PHILIPS

Technical Session - Topics

Antumbra –Common Display requests

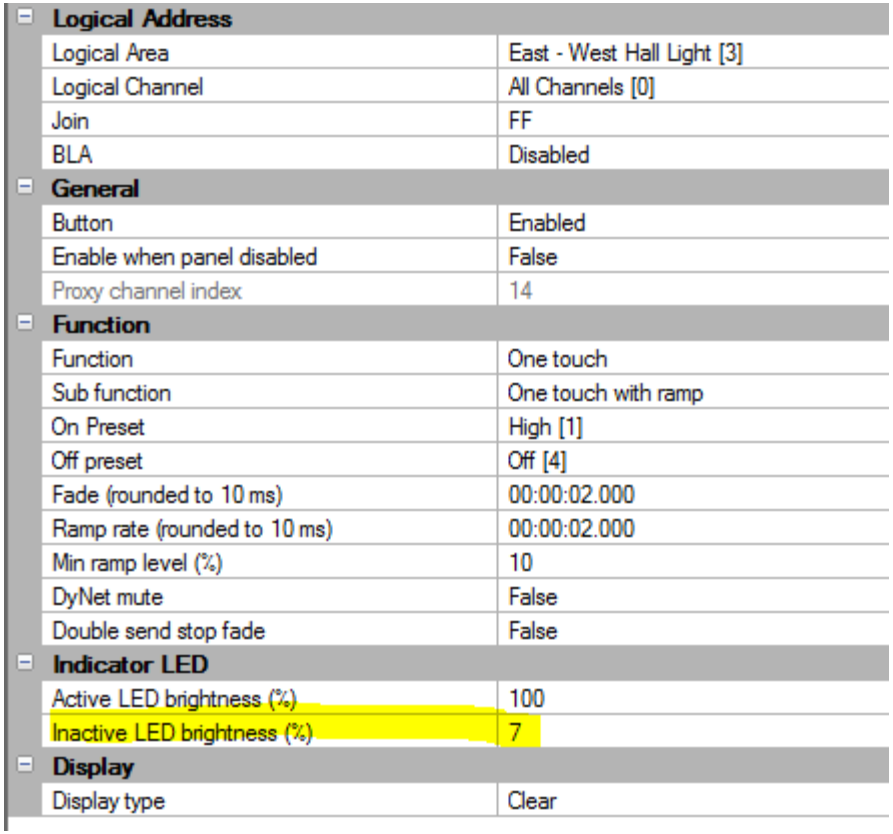
- LED behaviour
- On screen dynamic text

- PDEG
  - TCP/IP text options
  - Tools & Strategy

Indicator LED brightness

Requires Fw 1.05 or 2.06 or later

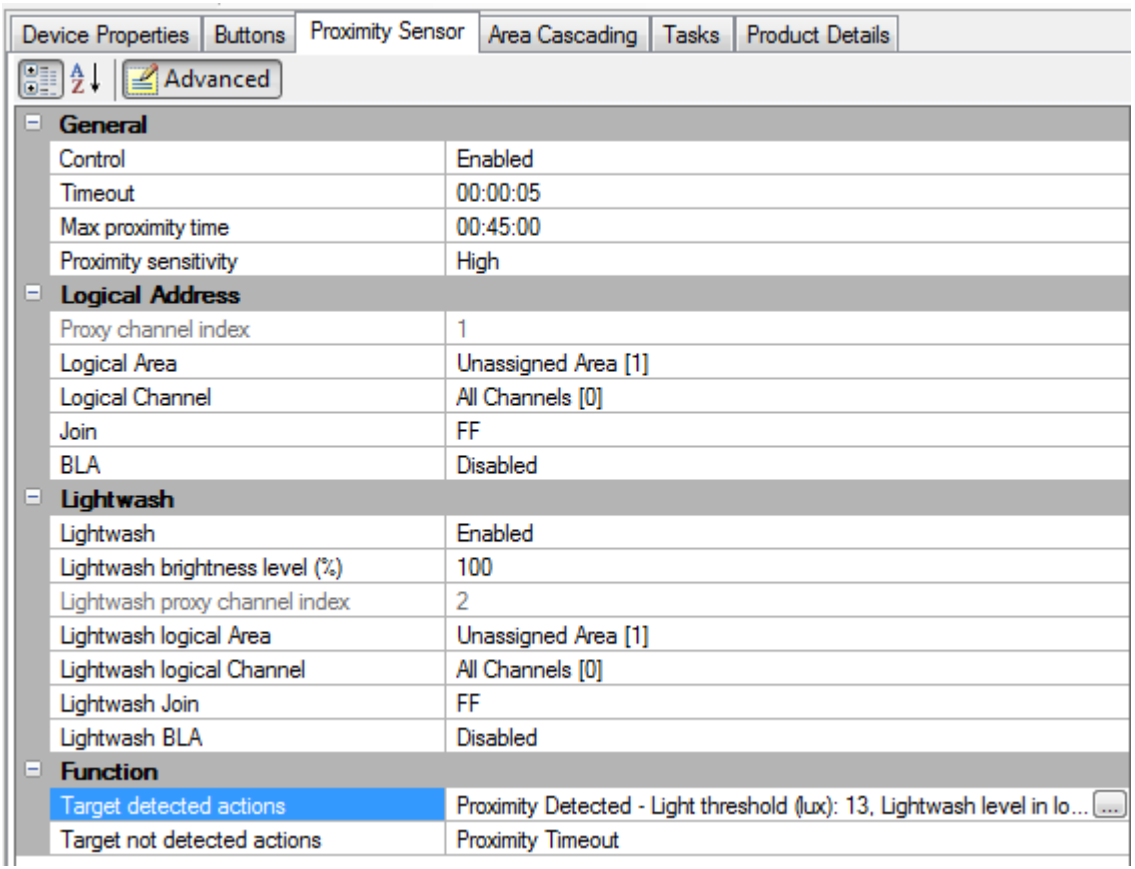
When setting the brightness for the inactive indicator LED (from the button tab on Antumbra) the indicators do not follow the intensity as expected.



Logical Address	
Logical Area	East - West Hall Light [3]
Logical Channel	All Channels [0]
Join	FF
BLA	Disabled
General	
Button	Enabled
Enable when panel disabled	False
Proxy channel index	14
Function	
Function	One touch
Sub function	One touch with ramp
On Preset	High [1]
Off preset	Off [4]
Fade (rounded to 10 ms)	00:00:02.000
Ramp rate (rounded to 10 ms)	00:00:02.000
Min ramp level (%)	10
DyNet mute	False
Double send stop fade	False
Indicator LED	
Active LED brightness (%)	100
Inactive LED brightness (%)	7
Display	
Display type	Clear

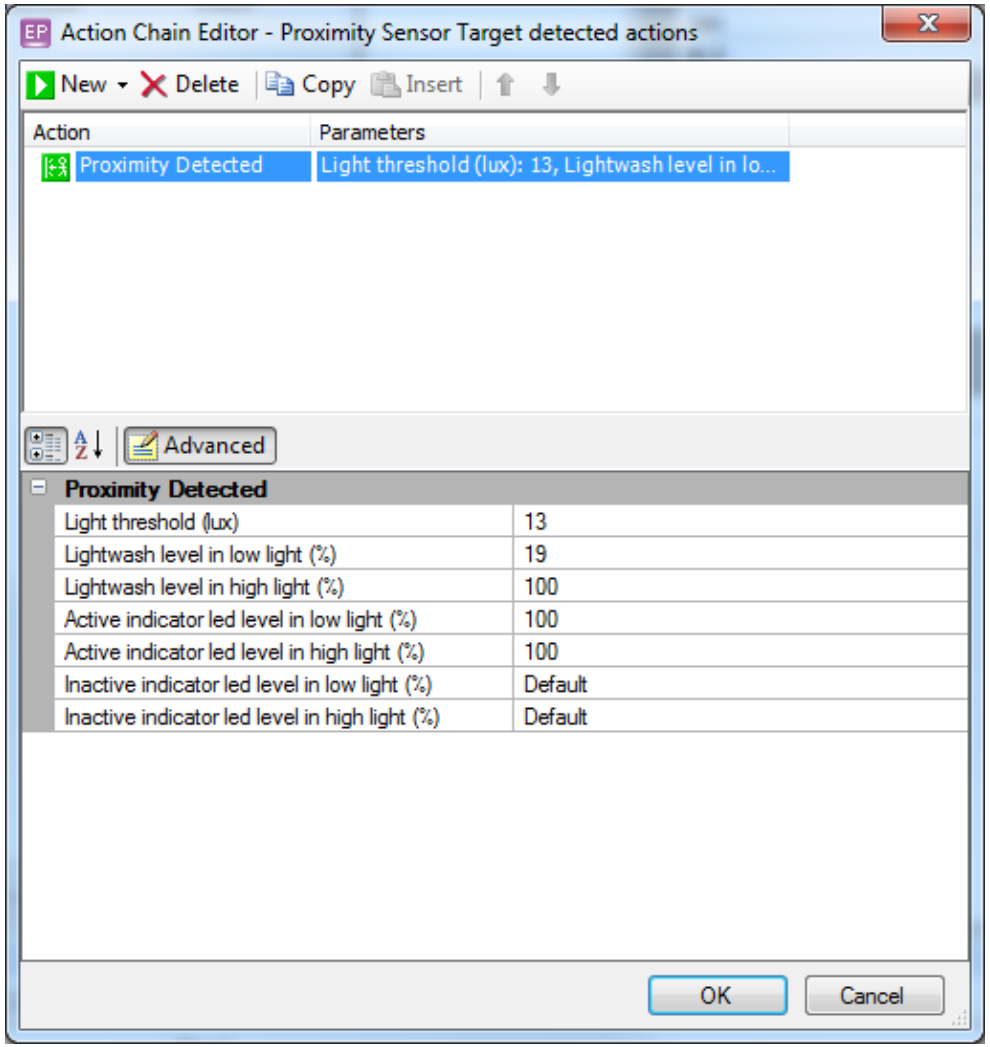
Indicator LED brightness

- This occurs because the default behavior of the **Proximity target detected actions** overwrites these values.



Indicator LED brightness

- Clicking on the action chain builder, you will be able to edit the values of this action to change the value of the ***Inactive indicator led level*** for both low and high light to ***Default*** and then writing the changes to the pane



LED Ports

The LSB is LED 1

18	Panel LED state	Read / Write

LED 1 “On”	LED 1 “Off”	LED 1 ”Toggle”
LDA ^18,0 OR #1 STA ^18,0	LDA ^18,0 AND #254 STA ^18,0	LDA ^18,0 XOR #1 STA ^18,0

Antumbra Display Wall Wash

Tasking

Controlling the backlight brightness

Area 1 Set Display Brightness to 0% with a fade of 0.00s 1C 01 03 48 FF 00 FF 9A

Area 1 Set Display Brightness to 100% with a fade of 0.00s 1C 01 03 48 01 00 FF 9A

Wallwash On	Backlight On	Backlight and Wall wash On
LDA #1 STA ^57,0	LDA #2 STA ^57,0	LDA #3 STA ^57,0

Antumbra Display – Page Flip

Tasking

- Track your pages manually\page flips should occur on button release
- Logical messages transmitted to port 0 (DyNet Mute) make best option
- Page Flip Can be controlled by a logical message (sent internally in the panel), or by a physical message
  - Remember that a physical message requires a box number and will be broken if you replace the DACM with one of a different box number

Physical Messages Page Flip								
Requestt current displayed page	5C	Device Code	Box Number	60	Unused	Unused	Unused	Checksum
Reply Display Page	5C	Device Code	Box Number	61	Unused	Modifier	Page Number	Checksum
Select Display Page	5C	Device Code	Box Number	62	Unused	Modifier	Page Number	Checksum

Logical Messages Page Flip								
Request current displayed page	1C	Logical Area	15	49	00	Page Number	Join	Checksum
Reply Display Page	1C	Logical Area	15	4A	00	Page Number	Join	Checksum
Select Display Page	1C	Logical Area	15	48	00	Page Number	Join	Checksum

PHILIPS

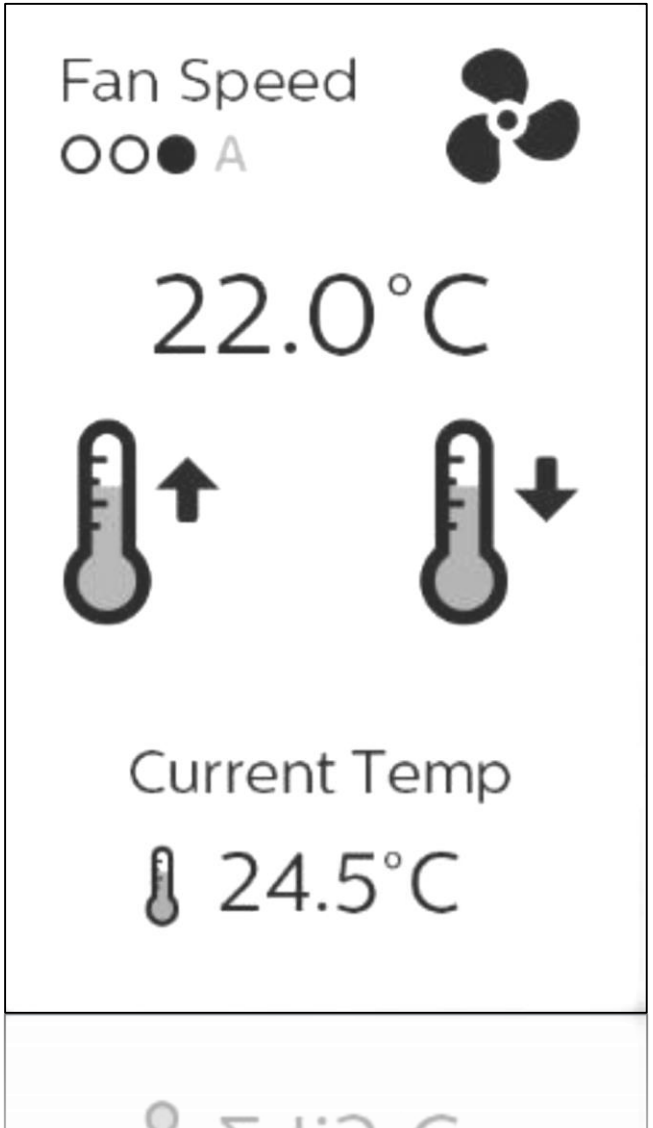
Antumbra –Common Display requests

- How to Display the Time
  - The time does not display when I reboot
- How to show Temperature from another panel
  - Temperature not showing
- How to show Temperature Set Point
  - Temperature set-point show
- Channel level % not showing

PHILIPS

Antumbra Display Dynamic Text

- Request Current Temperature
  - 1C,Area,06,49,00,00,FF
- Request Set-Point temperature
  - Done automatically
- Request Channel Level
  - 1C,area,channel,61,00,00,FF



PHILIPS

Question

What forms of integration are you using in your projects?

a) Ethernet

b) RS232

c) IR

d) Other

CoolMaster – IP based control

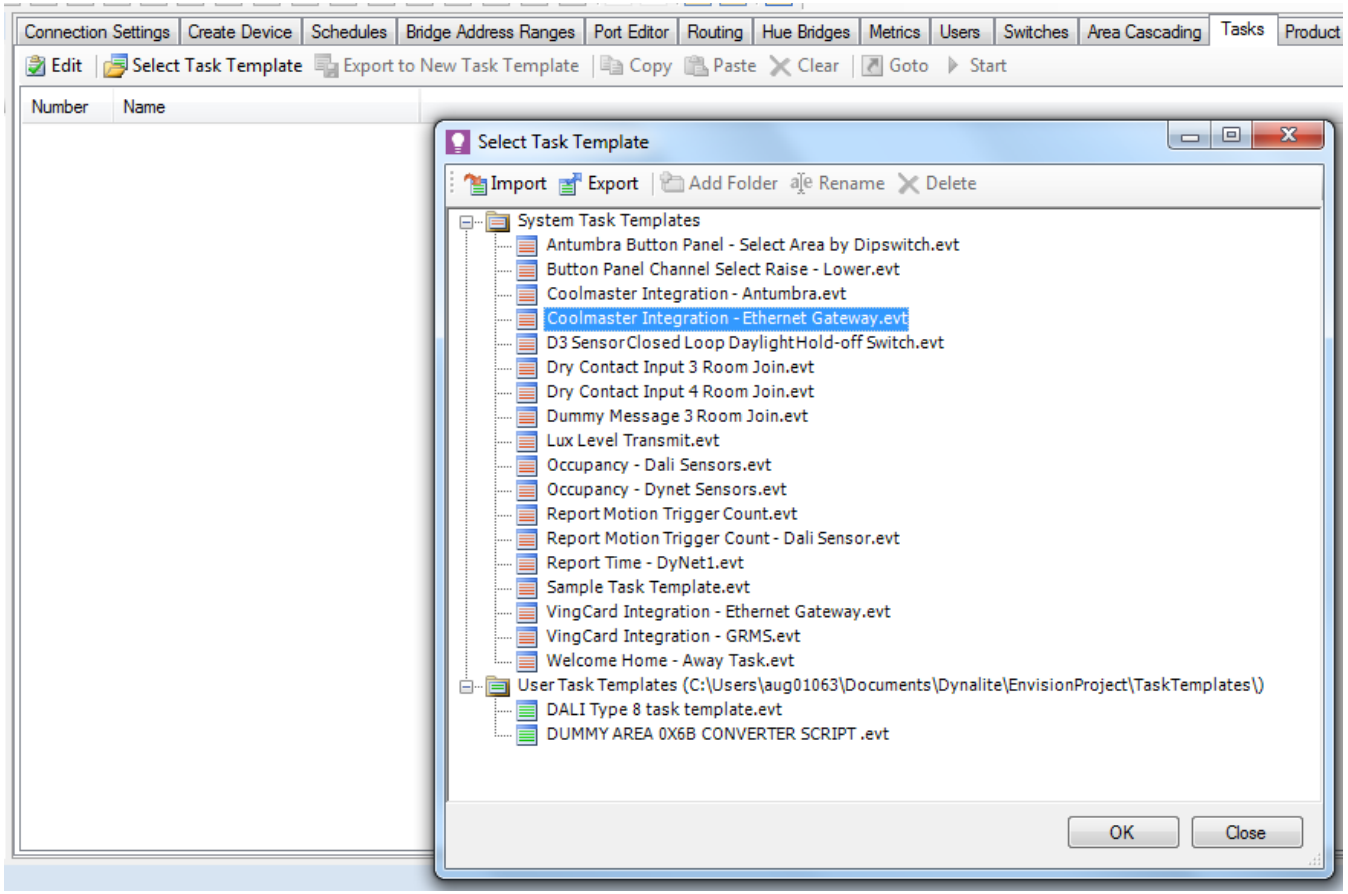
https://coolautomation.com/coolmasternet-integration-philips-dynalite-products/

Daikin, Gree, Hitachi, LG, Mitsubishi Electric, Mitsubishi-Heavy, Panasonic/Sanyo, Samsung, Toshiba, Fujitsu, and others.

Ethernet (ASCII

PHILIPS

Configured via Task Template



- PDEG becomes Client of the Coolmaster

PHILIPS

How to start a task in an EG using a Dynet2 string from Ethernet trunk

How to start a task in an EG using a Dynet2 string from Ethernet trunk

Requirements

- EG firmware 3.37 or later
- EP 3.10.x or later

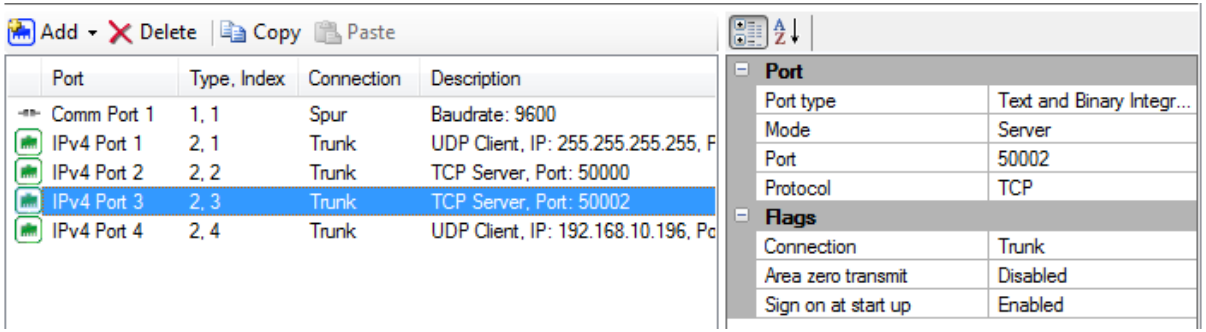
Using the STARTX command, it is possible to start a task within an EG where the message has come from the Ethernet trunk. To do this, the EG must receive the message on a port that has been configured for “Text and Binary Integration” on the ports. It is important to follow all steps below to get a successful result.

Once you have configured the EG using the Bridge Wizard, you will need to reproduce the following steps

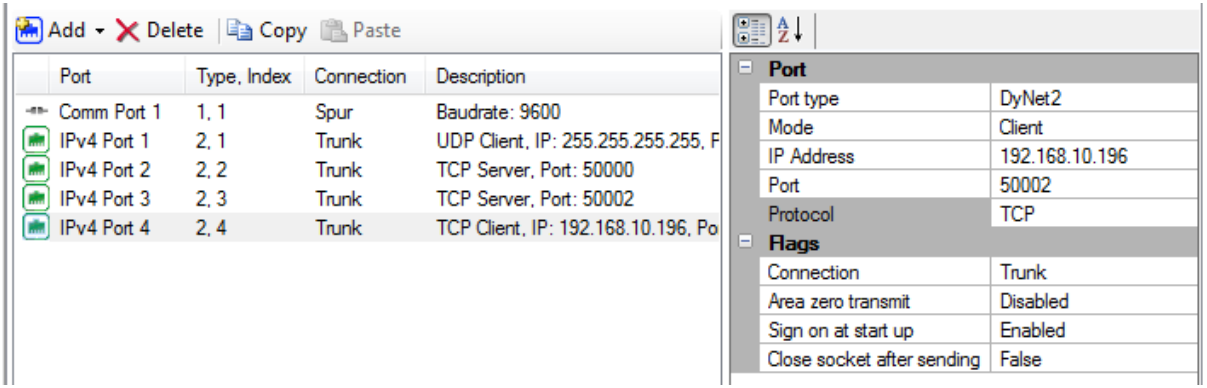
PHILIPS

Configure Ports

- **Server Port** - On the Port Editor tab you will need to add two additional Ports. The first should be Mode “Server” of Port type “Text and Binary Integration” on a port number that you are not using elsewhere. In this case I have used port 50002



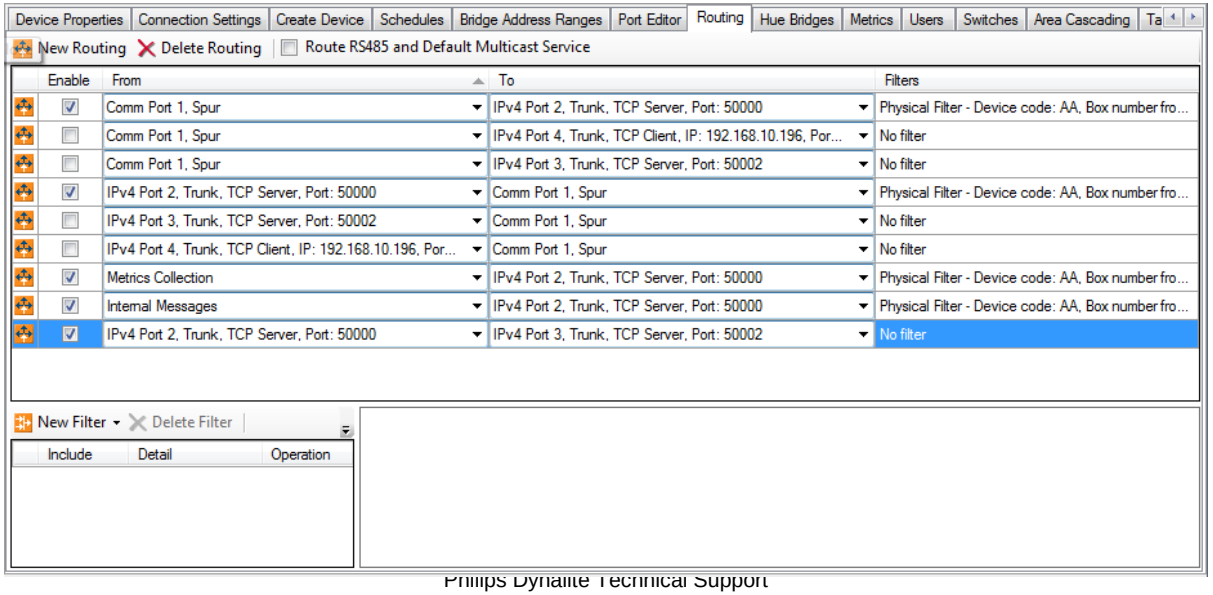
- **Client Port** – The second port you need to create should be Mode “Client” of Port type “DyNey2”, and should use the same port number that you used before. The IP Address for the client should be the IP address of the EG you are configuring as this client will end up connecting to the server port on this EG.



PHILIPS

Configure routing

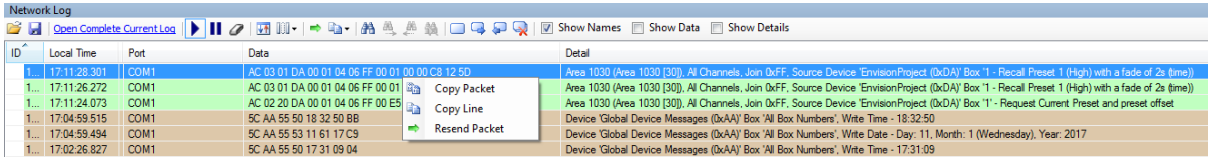
You will need to create a route so that messages from the trunk (in this case port 50000) are also forwarded to the server on port 50002 via a client connection. It should look like the below. Note that there should be no Filters set for this Route. You will also note that I have disabled the automatically generated routes between the Spur and the two ports I created in the previous step as there is no need for these messages to ever reach the spur, nor for spur messages to ever reach these ports as they would not be Dynet2 Messages



- If you have any other EG to EG routing you may need to configure additional routes to pull information from the other port numbers into your EG in the same way as above, simply substitute 50000 for the additional number and repeat as often as needed.

Configure your task

- In the network monitor log, capture the target packet by right clicking and selecting “copy packet”

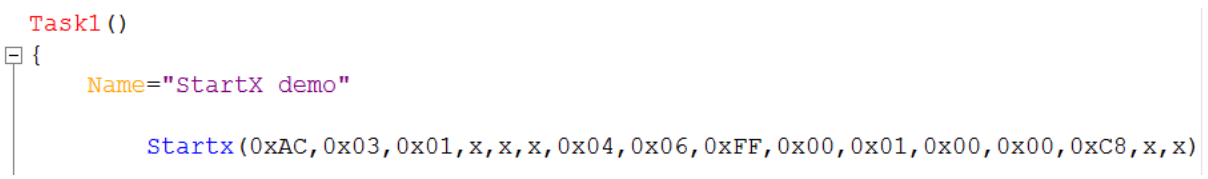


- Paste the packet you copied in the previous step into your task then change the word Dynet to Startx
- You will need to change the 4th, 5th, and 6th bytes to be x as these represent the device that originally sent the logical message and are likely to change. You can also add an x for any other bytes that you will need to inspect as well as adding x,x to the end of the packet to allow for the checksum

```
Task1()
{
    Name="StartX demo"

        Startx(0xAC,0x03,0x01,0x00,0x00,0x00,0x04,0x06,0xFF,0x00,0x01,0x00,0x00,0xC8)    // Area 1030 (Area 1030 [30]), All Channels, Join 0xFF

}
```



- You can then build the rest of your task just like any other Dynalite task.

PHILIPS

Further Questions?

- DDRC810DT? CG
- EnvisionGateway – Remote access
- HTML – Who has or would look at creating their own page or application for EG?


PHILIPS