Technical Session

Richard Cuthbert Philips Dynalite Technical Support 29/8/2017

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.

Device Properties Buttons Proximity Sens	or Area Cascading Tasks Product Details						
Advanced 2↓ Advanced							
General							
Control	Enabled						
Timeout	00:00:05						
Max proximity time	00:45:00						
Proximity sensitivity	High						
Logical Address							
Proxy channel index	1						
Logical Area	Unassigned Area [1]						
Logical Channel	All Channels [0]						
Join	FF						
BLA	Disabled						
Lightwash							
Lightwash	Enabled						
Lightwash brightness level (%)	100						
Lightwash proxy channel index	2						
Lightwash logical Area	Unassigned Area [1]						
Lightwash logical Channel	All Channels [0]						
Lightwash Join	FF						
Lightwash BLA	Disabled						
E Function							
Target detected actions	Proximity Detected - Light threshold (lux): 13, Lightwash level in Io						
Target not detected actions	Proximity Timeout						

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

EP Action Chain Editor - Proximity Sensor Target detected actions							
New 🗸 Delete 🖹 Copy 🖺 Insert 👔 🌷							
Action Parameters							
Proximity Detected	Light threshold ((lux): 13, Lightv	wash level in Io				
	_						
Advanced 2 ↓							
Proximity Detected	i						
Light threshold (lux)		13					
Lightwash level in low	light (%)	19					
Lightwash level in high	n light (%)	100					
Active indicator led lev	vel in low light (%)	100					
Active indicator led lev	vel in high light (%)	100					
Inactive indicator led I	evel in low light (%)	Default					
Inactive indicator led I	evel in high light (%)	Default					
			ОК	Cancel			



LED Ports

The LSB is LED 1

	18	Panel LED state	Read / Write	
LED	1 "On"	LED 1 "Off"	LED 1 "Toggle"	
LDA ^ OR # STA ^	^18,0 1 •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 Area 1 Set Display Brightness to 100% with a fade of 0.00s 1C 01 03 48 FF 00 FF 9A 1C 01 03 48 01 00 FF 9A

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

Antumbra Display – Page Flip

- 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

		Physica	al Messages Pa	ge Fl	ip			
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
		Logica	I Messages Pa	ge Fli	р			
Request current displayed page	1C	Logical Area	15	49	00	Page Numbe	r Join	Checksum
Reply Display Page	1C	Logical Area	15	4A	00	Page Numbe	r Join	Checksum
Select Display Page	1C	Logical Area	15	48	00	Page Numbe	r Join	Checksum

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

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

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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 Ethernet (ASCII Electric, Mitsubishi-Heavy, Panasonic/Sanyo, Samsung, Toshiba, Fujitsu, and others.

Confidential

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Configured via Task Template

Connection Settings Create Device Schedules Brid	Ige Address Ranges Port Editor Routing Hue Bridges Metrics Users Switches Area Cascading Tasks Proc
🛃 Edit 🛛 对 Select Task Template 🛛 🖓 Export to N	Jew Task Template 🛛 🖻 Copy 💼 Paste 🗙 Clear 🛛 🗷 Goto 🕨 Start
Number Name	Select Task Template System Task Templates Antumbra Button Panel - Select Area by Dipswitch.evt Antumbra Button Panel - Select Area by Dipswitch.evt System Task Templates Antumbra Button Panel - Select Area by Dipswitch.evt Button Panel Channel Select Raise - Lower.evt Coolmaster Integration - Ethernet Gateway.evt Dy Contact Input 3 Room Join.evt Dry Contact Input 4 Room Join.evt Dry Contact Input 4 Room Join.evt Dry Contact Input 4 Room Join.evt Dry Contact Input 9 Room Join.evt Dummy Message 3 Room Join.evt Cocupancy - Dali Sensors.evt Cocupancy - Dali Sensors.evt Report Motion Trigger Count.evt Report Time - DyNetI.evt Sample Task Template.evt VingCard Integration - Ethernet Gateway.evt VingCard Integration - Bethernet Gateway.evt VingCard Integration - Bethernet Gateway.evt UingCard Integration - GRMS.evt UingCard Integration - Bethernet Gateway.evt UingCard Integration - GRMS.evt UingCard Integration - Bethernet Gateway.evt UingCard Integration - GRMS.evt
	OK Close



• PDEG becomes Client of the Coolmaster

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

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

	🚵 Add 👻 🔀 Delete 🛛 🖹 Copy 🖺 Paste				⋧↓			
	Port	Type, Index	Connection	Description			Port	
-02	Comm Port 1	1.1	Sour	Baudrate: 9600	1		Port type	Text and Binary Integr
1G	Dud Ded 1	1, 1	Tauala	LIDD Cleart ID: 255 255 255 255 1			Mode	Server
		2, 1		ODF Client, IF: 255.255.255.255, F			Port	50002
	IPv4 Port 2	2,2	Irunk	ICP Server, Port: 50000	_		Protocol	ТСР
	IPv4 Port 3	2, 3	Trunk	TCP Server, Port: 50002			Hans	
	IPv4 Port 4	2, 4	Trunk	UDP Client, IP: 192.168.10.196, Pc	a		Connection	Trunk
							Area zero transmit	Disabled
							Sign on at start up	Enabled

 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.

6	🚵 Add 👻 🗙 Delete 🛛 🖹 Copy 🖺 Paste					₽ ∎ 2 ↓		
	Port	Type, Index	Connection	Description		Port		
	Comm Por IPv4 Port IPv4 Port IPv4 Port IPv4 Port IPv4 Port IPv4 Port	Comm Port 1 1, 1 Spur Baudrate: 9600 IPv4 Port 1 2, 1 Trunk UDP Client, IP: 255.255.255.255, F IPv4 Port 2 2, 2 Trunk TCP Server, Port: 50000 IPv4 Port 3 2, 3 Trunk TCP Server, Port: 50002 IPv4 Port 4 2, 4 Trunk TCP Client, IP: 192.168.10.196, Po		Port type Mode IP Address Port Protocol Flags Connection	DyNet2 Client 192.168.10.196 50002 TCP Trunk			
						Area zero transmit Sign on at start up Close socket after sending	Disabled Enabled False	

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

Dev	Device Properties Connection Settings Create Device Schedules Bridge Address Ranges Port Editor Routing Hue Bridges Metrics Users Switches Area Cascading Ta							
***	🎦 New Routing 🗙 Delete Routing 📗 Route RS485 and Default Multicast Service							
	Enable	From	То	Filters				
4	V	Comm Port 1, Spur 🗸	IPv4 Port 2, Trunk, TCP Server, Port: 50000	 Physical Filter - Device code: AA, Box number fro 				
4		Comm Port 1, Spur 🔹	IPv4 Port 4, Trunk, TCP Client, IP: 192.168.10.196, Por	▼ No filter				
4		Comm Port 1, Spur 🗸	IPv4 Port 3, Trunk, TCP Server, Port: 50002	▼ No filter				
4	V	IPv4 Port 2, Trunk, TCP Server, Port: 50000	Comm Port 1, Spur	 Physical Filter - Device code: AA, Box number fro 				
4		IPv4 Port 3, Trunk, TCP Server, Port: 50002 🔹	Comm Port 1, Spur	▼ No filter				
4		IPv4 Port 4, Trunk, TCP Client, IP: 192.168.10.196, Por 💌	Comm Port 1, Spur	▼ No filter				
4	V	Metrics Collection 👻	IPv4 Port 2, Trunk, TCP Server, Port: 50000	 Physical Filter - Device code: AA, Box number fro 				
*	V	Internal Messages 🔹	IPv4 Port 2, Trunk, TCP Server, Port: 50000	 Physical Filter - Device code: AA, Box number fro 				
4	V	IPv4 Port 2, Trunk, TCP Server, Port: 50000	IPv4 Port 3, Trunk, TCP Server, Port: 50002	No filter				
\$₽	New Filte	r 🔸 🗙 Delete Filter						
	Include Detail Operation							

• 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"

let	work Log							
2	📓 📴 <u>Goen Complete Current Leo</u> 👔 🚺 🖉 🔚 🛄 + 🗢 📭 + 🏘 📇 🔎 🐘 🚍 🤤 👰 🗹 Show Names 📄 Show Data 📄 Show Details							
D	Local Time	Port	Data		Detail			
1	17:11:28.3		AC 03 01 DA 00 01 04 06 FF 00 01 0	00 00 C8 12 5D	Area 1030 (Area 1030 [30]), All Channels, Join 0xFF, Source Device 'EnvisionProject (0xDA)' Box '1 - Recall Preset 1 (High) with a fade of 2s (time))			
1	17:11:26.2	2 COM1	AC 03 01 DA 00 01 04 06 FF 00 01	Copy Packet	Area 1030 (Area 1030 [30]), All Channels, Join 0xFF, Source Device 'EnvisionProject (0xDA)' Box '1 - Recall Preset 1 (High) with a fade of 2s (time))			
1	17:11:24.0	3 COM1	AC 02 20 DA 00 01 04 06 FF 00 E5	Conv Line	Area 1030 (Area 1030 [30]), All Channels, Join 0xFF, Source Device 'EnvisionProject (0xDA)' Box '1' - Request Current Preset and preset offset			
1	17:04:59.5	5 COM1	5C AA 55 50 18 32 50 BB	- copy time	Device 'Global Device Messages (0xAA)' Box 'All Box Numbers', Write Time - 18:32:50			
1	17:04:59.49	4 COM1	5C AA 55 53 11 61 17 C9	Resend Packet	Device 'Global Device Messages (0xAA)' Box 'All Box Numbers', Write Date - Day: 11, Month: 1 (Wednesday), Year: 2017			
1	17:02:26.82	7 COM1	5C AA 55 50 17 31 09 04		Device 'Global Device Messages (0xAA)' Box 'All Box Numbers', Write Time - 17:31:09			

- 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



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

Further Questions?

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



