PHILIPS dynalite

Technical Note – PDEG Reconfiguration for Store Flex

Audience Dynalite certified installers

Scenario PDEG is a production unit and not yet configured for Store Flex

Preparation

Place the [EnvisionGateway_3v54b3.uu] firmware to a temporary folder on the computer's local drive. USB and network drives should not be used.

Place the [**PDEG_CFIAR_Production_2_0_16-Box78.hex**] product image in the same folder Unzip the [**PDDEG-S_PDEG_CFIAR_1.7.5.zip**] pages to a different temp folder, example:



On the bench, and isolated from the rest of the system:

- Connect the PC node and Ethernet cable directly to the PDEG.
- Provide 12 VDC to power the PDEG (refer to the PDEG Installation Instructions).
- Close any SB projects and start a fresh session.

Prepare the PDEG

Upload and factory set the PDEG in case it had been previously used and set the IP address to: **192.168.1.50** Change the box number to: **78**

Close the SB session without saving.

Set up a direct Ethernet connection

Open your PC's Ethernet IPv4 port settings (type **NCPA.CPL** in the Windows start menu search box) and take note of the settings. Configure them to the same subnet as the PDEG and set it to a unique address, and appropriate subnet mask.

Example:

192.168.<mark>1.123</mark>

Ethernet Unidentified network Ethernet Connection	Internet Protocol Version 4 (TCP/IPv4) Properties X General
Ethernet Properties × Networking Sharing	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Connect using:	Obtain an IP address automatically
🚍 Ethemet Connection	Use the following IP address:
Configure	IP address: 192 . 168 . 1 . 123
This connection uses the following items:	Subnet mask:255 , 255 , 255 , 0
Internet Protocol Version 4 (TCP/IPv4)	Default gateway:
<	Obtain DNS server address automatically
Install I Ininstall Properties	Use the following DNS server addresses:
- Description	Preferred DNS server:
Transmission Control Protocol/Internet Protocol. The default	Alternate DNS server:
across diverse interconnected networks.	Validate settings upon exit Advanced
OK Cancel	OK Cancel

To confirm the Ethernet connection to the PDEG is working, type **CMD** in the Windows start menu search box and in the new Command Prompt window type:

ping 192.168.1.50

In the results you should see lines starting with *Reply from 192.168.1.50: bytes* or similar showing that connection is ok.



Apply the configuration

Start a new SB session and drag the file [**PDEG_CFIAR_Production_2_0_16-Box78.hex**] into the project or use the file/import from hex file option to browse to it.

Change SB's connection to TCP/IPv4

System View						ųΧ	Home	Job Properties	Connecti
2 💁 III - 🏔 📳							Trun	k Connection	
lame 🔽	Address	Status	System Builder - Co	nfigure Job Cor	nnection Setting				
Network Devices	78		Connection Type	O Serial	TCP		P		
			Connection Details						
			Automatically	elect first availab	le TCP connection				
			IP Address	Port	Box Number	Status			
			Custom						
			192.168.1.50	50000	78	Available	(DyNet D)etected)	
			192.168.1.50	50000	78	Available	(DyNet [)etected)	
			IPv4 Address	Host Nam	e / IPv6 192.1	68.1.	50		
			Tx Delay (ms):	20	Port: 500	00 ‡	🗌 Us	e Websocket if a	vailable
			Refresh					ОК	Cancel

Confirm the connection in the status bar is ok:

Connected - TCP 192.168.1.50:50000 (Trunk, Automatic)

Use the Save to device option, select Resave all device data, select ok and wait for saving to complete.

System View	
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Name 🔻	Addre Save Data To Device
⊡ 📄 Network Devices	78 Do you want to save device data to the device 'PDEG #78'?
	Save Options
	Save modified device data (Shift+F12)
	 (this is only required for devices modified externally)
	OK Cancel

Apply the correct firmware by using the Firmware Upgrade option and browsing to the file: [EnvisionGateway_3v54b3.uu]

D pen	×
\leftarrow \rightarrow \checkmark \uparrow \blacksquare \rightarrow This PC \Rightarrow OSD	isk ۲ ک ایک Search OSDisk
Organize 🔻 New folder	₿☷ ▾ 🛄 💡
 A Quick access OneDrive - Signify Inis PC 	Name PDDEG-S_PDEG_CFIAR_1.7.5 PnvisionGateway_3v54b3.uu
> 🥩 Network	
File name: Envisio	<pre> inGateway_3v54b3.uu inGateway_3v54b3.uu</pre>

You may be notified about version differences, press **OK** to proceed.

System View		-	† ×	Device Properties Connection Se
🔁 💁 III - 🗛 🔝 🖻 🗗 💈	i 🔅 🕅 🧕	🏂 🕒 🚰 📅 🗟 📾 🗳 💆 💻		Spur Connection
Name 🔻 🖉 🎦 UntitledJob1	Address	Device Firmware Upgrade		×
Network Devices Metwork Devices Metwork Devices PDEG #78	78	Do you want to change the firmware t	for the following 1 device(s)?	
		Device	FW Version	Details
		1 PDEG #78 [DC:0xDC (EG), BN:78]	3.55-> 3.54	Minor firmware downgrade
		٢		>
		Firmware File Summary:		
		File name: EnvisionGateway_3v54b3.uu Type: EG Upgrade version: 4 Firmware version: 3.54		
		Select File		OK Cancel

If the status column shows an error at the end of the process, perform a sign-on. The firmware version should be as shown as below:

System View		џ >
🔁 👱 III - 🗛 📳 🖻 🖻 💆 🧔) 📓 🔰 🖄 🕑 🚰	i 📅 - 🖹 🖏 🚍 I 🚺 💻 💻
Name 💌	Address Status	Firmware Version Device Code 😼 Logica
UntitledJob1		Send Device Sign-On (F6)
PDEG #78	78	3.54 Ethernet Gateway (0xDC)

Upload the user interface / web pages

Right click the device, select **Upload Custom Web Pages**, and browse to the unzipped folder.

UntitledJob1	Download Logical Contiguration Upload Custom Web Pages Manage Log Files
Browse For Folder	×
Please select a folder containing we	b pages
V SDIsk (C:)	1.7.5
css i18n	
js	
<	>
	OK Cancel

Select Delete existing web pages and Start.

	IP Address	Status	
PDEG #78	192.168.1.50	Not started	
leb Page Uploading Summary:			
older: PDDEG-S_PDEG_CFIA	AR_1.7.5		

The process can take several minutes and you will be presented with notifications that pause the process, press **OK** to each.

Philips Dynalite System Builder Message	×
G Successfully uploaded device list XML to 'PDEG #78'	
ОК	
Philips Dynalite System Builder Message	×
Successfully uploaded job properties XML to 'PDEG #7	8'
ОК	



Certify the device

Right click the device, select Manage Certificate.



Select System Builder Certificate and fill in these options:

Common Name (CN): 192.168.1.50 City Or Location (L): Sydney Organization Unit (OU): Profsys State Or Province(S): NSW Organization (O): Signify Country (C): AU Expiry: 10 July 2064 Alternative address or domain: 192.168.1.50

Select **Create and Upload**, wait for the procedure to complete and select **Yes** to the popup dialog.

Close the Certificate Manager window.

Sign using site private k		cate 🔾 Certifica	ate Authority (CA) certificat
	ey		
nter Details			
To obtain a certificate first, en	iter the gateway details and loca	ation information.	
Common Name (CN):	192.168.1.50	City Or Location (L):	Sydney
Organizational Unit (OU):	Profsys	State Or Province (S):	NSW
Organization (O):	Signify	Country (C):	AU
reate and Upload Certific System Builder will create and certificate can then be installe to install the certificate into the connection as trusted.	ate upload a certificate. The root c d by saving to file and then right s "Trusted Root Certification Auth	ertificate that System Bui t clicking and selecting 'I horities' store. This will all	Ider uses to sign this Install Certificate'. It's impo low the browser to show th
Teate and Upload Certific System Builder will create and certificate can then be installe to install the certificate into the connection as trusted. Create and Upload	ate upload a certificate. The root c d by saving to file and then right Trusted Root Certification Aut Expiry:	ertificate that System Bui t clicking and selecting 'I horities' store. This will all : Thursday . 10	lder uses to sign this Install Certificate ¹ . It's impo low the browser to show th July 2064
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Teate and Upload Certific: System Builder will create and certificate can then be installe to install the certificate into the connection as trusted. Create and Upload Status: Successfully upload Dynalite System Builder Me	ate upload a certificate. The root c ed by saving to file and then righ r Trusted Root Certification Aut Expiry: Alternative address or domain: aded and verified the certificate essage	ertificate that System Bui t clicking and selecting 'I horities' store. This will all : Thursday . 10 : 192.168.1.50	Ider uses to sign this Install Certificate'. It's impo low the browser to show th July 2064 [ve Root Certificate to File.
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Finally, restore your PC Ethernet settings and save your SB project and store it with the site files.

Notes

- Localization from System Builder is not necessary, as these features are available within the Store User Interface.
- Support is available via the Partner Portal / C4CS system.



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