

1 Introduction

The Dynalite Cloud Platform enables Dynalite's partners (Certified Systems Integrators) to securely store System Builder project files in the cloud to remotely maintain Dynalite control systems.

The platform consists of three elements:

- **Dynalite Cloud Portal** – browser access for the service provider to access their (Dynalite Cloud) Interact account.
- **Dynalite Cloud Projects** – a secure online repository for organizing and sharing lighting control project files.
- **Dynalite Cloud Connect** – remote site connectivity for diagnostics and maintenance with System Builder.

Dynalite Cloud Connect allows technicians to open job files in System Builder from their secure cloud repository and provides a connection to the client's system as if they were on site. CSI users can manage their own online Interact accounts and projects via a web browser.

A Dynalite Cloud Gateway (PDDEG-S) must be installed on-site, registered in the Dynalite Cloud and be able to access the required end points.

To access the on-site system remotely:

1. You must have an Interact Account and be logged in via the System Builder software.
2. Save the site's job file in the cloud.
3. Register the site's PDDEG-S in the cloud.
4. License the project for remote connectivity
5. Whitelist the required end points in the firewall
6. Open the online job in System Builder



You can log in to your online Interact account at <https://dynalite.interact-lighting.com/sites>

2 End-point scan

When viewing a project in the Dynalite Cloud Portal users can run an end-point scan to check that the Cloud Gateway (PDDEG-S) has access to the required online services to function correctly. The end-point scan tab is a diagnostic tool to check that the Cloud Gateway can connect to all the required services. Results should all show as passed, however not all end points are mandatory.

Total failure indicates a connectivity/firewall issue or a service outage. A single failure is more likely to indicate that an individual end-point server is down.

Note the **Scan time** stamp at the top of the page. To perform a new scan, click the **Refresh** button in the top right corner.

Results can either be:

- ✗ Failed
- ✓ Passed



Please create a support ticket if any scan results are not passed.

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< Project list

Cloudy2 Online Project ID: fa03a57f-e42f-4c4a-a5df-de69a43f759c

Overview Devices Users Job files Licenses Job notes Log files End-point scan

Device: 0001C0FFFFFFFFFF Scan time: 15:34:05 08-03-2024 Refresh

End-point	Port	Result
8.8.8.8	53	✓ Passed
pool.ntp.org	123	✓ Passed
0.pool.ntp.org	123	✓ Passed
1.pool.ntp.org	123	✓ Passed
2.pool.ntp.org	123	✓ Passed
3.pool.ntp.org	123	✓ Passed
time1.google.com	123	✓ Passed
time2.google.com	123	✓ Passed
time3.google.com	123	✓ Passed
time4.google.com	123	✓ Passed
worldtimeapi.org	443	✓ Passed

PDDEG-S Cloud indicator LED (white/green):

- ON: Signed on to cloud and assigned to a site (may take up to 30 minutes after registration).
- OFF: No valid connection to cloud (end-point scan failed).
- Slow blink: Able to sign on to cloud but not assigned to a site.
- Double blink: Unable to sign on to cloud.

3 End-point scan example

The below table shows the results of a successful end-point scan on the Dynalite Cloud Portal.

Remote Site name ● Online ↻ **Project ID:** fa32b75e-f42a-4c4a-b5df-de69a42f859c
Device: 0001C0FFEE205F3A **Scan time:** 09:30:00 31/01/2025

End-point ⬆	Port ⬆	Result ⬆
8.8.8.8	53	✓ Passed
pool.ntp.org	123	✓ Passed
0.pool.ntp.org	123	✓ Passed
1.pool.ntp.org	123	✓ Passed
2.pool.ntp.org	123	✓ Passed
3.pool.ntp.org	123	✓ Passed
time1.google.com	123	✓ Passed
time2.google.com	123	✓ Passed
time3.google.com	123	✓ Passed
time4.google.com	123	✓ Passed
worldtimeapi.org	443	✓ Passed
global.azure-devices-provisioning.net	443	✓ Passed
irheuprd.AZURE-DEVICES-PROVISIONING.NET	443	✓ Passed
global.azure-devices-provisioning.net	5671	✓ Passed
irheuprd.AZURE-DEVICES-PROVISIONING.NET	5671	✓ Passed
global.azure-devices-provisioning.net	8883	✓ Passed
irheuprd.AZURE-DEVICES-PROVISIONING.NET	8883	✓ Passed
irheuprd0.azure-devices.net	443	✓ Passed
irheuprd0.AZURE-DEVICES.NET	5671	✓ Passed
irheuprd0.AZURE-DEVICES.NET	8883	✓ Passed
mcr.microsoft.com	443	✓ Passed
irheuprd.AZURECR.IO	443	✓ Passed
yellowdoteuprd.BLOB.CORE.WINDOWS.NET	443	✓ Passed
irhdeviceseuprd.blob.core.windows.net	443	✓ Passed
sqs.eu-central-1.amazonaws.com	443	✓ Passed
sqs.ap-south-1.amazonaws.com	443	✓ Passed
sqs.ap-southeast-1.amazonaws.com	443	✓ Passed
sqs.ap-southeast-2.amazonaws.com	443	✓ Passed
sqs.us-east-1.amazonaws.com	443	✓ Passed
irhveeuprd.servicebus.windows.net	5671	✓ Passed
eu.mqtt.iotplatform.signify.com	443	✓ Passed
eu.api.iotplatform.signify.com	443	✓ Passed
data-acq-macrobatch.dna.iotplatform.signify.com	443	✓ Passed
data-acq-config.dna.iotplatform.signify.com	443	✓ Passed

4 Firewall whitelist

End-point	Port	TCP/UDP	Protocol	Purpose	Description
8.8.8.8	53	TCP	DNS		Domain Name System
8.8.8.8	53	UDP	DNS		Domain Name System
pool.ntp.org	123	UDP	NTP	Time	Synchronise gateway time
0.pool.ntp.org	123	UDP	NTP	Time	Synchronise gateway time
1.pool.ntp.org	123	UDP	NTP	Time	Synchronise gateway time
2.pool.ntp.org	123	UDP	NTP	Time	Synchronise gateway time
3.pool.ntp.org	123	UDP	NTP	Time	Synchronise gateway time
time1.google.com	123	UDP	UDP		Synchronise gateway time
time2.google.com	123	UDP	UDP		Synchronise gateway time
time3.google.com	123	UDP	UDP		Synchronise gateway time
time4.google.com	123	UDP	UDP		Synchronise gateway time
worldtimeapi.org	443	TCP	HTTPS		Fetch the timezone of the gateway, based on the IP address
api.eu.vef.retail.interact-lighting.com	443	TCP	HTTPS	VEF	Azure IoT
global.azure-devices-provisioning.net	443	TCP	HTTPS	DPS	Azure IoT
irheuprd.azure-devices-provisioning.net	443	TCP	HTTPS	DPS	Azure IoT
global.azure-devices-provisioning.net	5671	TCP	AMQP	DPS	Azure IoT
irheuprd.azure-devices-provisioning.net	5671	TCP	AMQP	DPS	Azure IoT
global.azure-devices-provisioning.net	8883	TCP	MQTT	DPS	Azure IoT
irheuprd.azure-devices-provisioning.net	8883	TCP	MQTT	DPS	Azure IoT
irheuprd0.azure-devices.net	443	TCP	HTTPS	IoT Hub	Azure IoT
irheuprd0.azure-devices.net	5671	TCP	AMQP	IoT Hub	Azure IoT

End-point	Port	TCP/UDP	Protocol	Purpose	Description
irheuprd0.azure-devices.net	8883	TCP	MQTT	IoT Hub	Azure IoT
mcr.microsoft.com	443	TCP	HTTPS	Container registry	Azure IoT
irheuprd.azurecr.io	443	TCP	HTTPS	Container registry	Azure IoT
yellowdoteuprd.blob.core.windows.net	443	TCP	HTTPS	Storage	Gateway firmware storage
irhdeviceseuprd.blob.core.windows.net	443	TCP	HTTPS	Device logs	Device logs storage in Azure backend
device-registration.dynalite.interact-lighting.com	443	TCP	HTTPS	IAO dev reg	Signify device management (to be phased out)
mqtt.dynalite.interact-lighting.com	443	TCP	HTTPS	IAO MQTT	Signify device management (to be phased out)
mqtt.dynalite.interact-lighting.com	8883	TCP	MQTT	IAO MQTT	Signify device management (to be phased out)
sqs.eu-central-1.amazonaws.com	443	TCP	HTTPS	Remote SB connection	Signify remote connectivity
sqs.ap-south-1.amazonaws.com	443	TCP	HTTPS	Remote SB connection	Signify remote connectivity
sqs.ap-southeast-1.amazonaws.com	443	TCP	HTTPS	Remote SB connection	Signify remote connectivity
sqs.ap-southeast-2.amazonaws.com	443	TCP	HTTPS	Remote SB connection	Signify remote connectivity
sqs.us-east-1.amazonaws.com	443	TCP	HTTPS	Remote SB connection	Signify remote connectivity
siteservicejobfiles.s3.eu-central-1.amazonaws.com	443	TCP	HTTPS	SB site service job file	project data storage, needed during commissioning
dynaliteprodjobfilerepo.s3.eu-central-1.amazonaws.com	443	TCP	HTTPS	SB site service job file	project data storage, needed during commissioning
dynalite.interact-lighting.com	443	TCP	HTTPS	DYN portal	Portal access
irhveeuprd.servicebus.windows.net	5671	TCP	AMQP	Service bus	Azure IoT
eu.mqtt.iotplatform.signify.com	443	TCP	HTTPS	IoT platform MQTT broker	Signify device management

End-point	Port	TCP/UDP	Protocol	Purpose	Description
eu.api.iotplatform.signify.com	443	TCP	HTTPS	IoT platform APIs	Signify device management
data-acq-macrobatch.dna.iotplatform.signify.com	443	TCP	HTTPS	IoT macrobatch API	Signify data reporting
data-acq-config.dna.iotplatform.signify.com	443	TCP	HTTPS	IoT macrobatch config API	Signify data reporting
*.data.mcr.microsoft.com	443	TCP	HTTPS	Needs to have the wild card	Azure IoT
*.iotplatform.signify.com	443	TCP	HTTPS	Needs to have the wild card	Signify to IoT platform access
*.blob.core.windows.net	443	TCP	HTTPS		General storage



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