

eisy | OpenADR – OpenADR 2.0(a)/(b) Configuration Guide

*Requires firmware 5.6.2+

1. eisy Installation

You can connect eisy to your network either using WiFi or an Ethernet cable (not provided). In commercial settings, it would be easier to connect using an Ethernet cable.

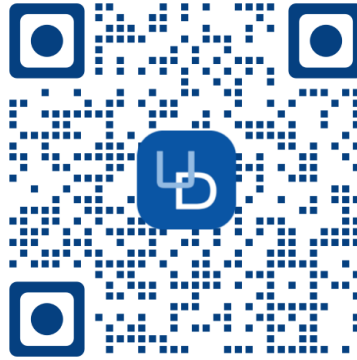
a. Connecting to network using an Ethernet cable

Simply connect an Ethernet cable to your eisy's network jack in the back. **Note:** the network must *initially* be DHCP enabled.

- a) **No inbound** ports or port forwarding rules are necessary
- b) The following **outbound** protocol/ports/URLs
 - TCP [HTTPS] to the Utility VTN URL/Port (please see [section 3a](#))
 - Network Time Server [UDP] port 123 (if and only if not internal)
- c) The following **outbound** rule is necessary **if and only** if ISY Portal is used for remote access
 - TCP [HTTPS] to <https://my.isy.io> port 443

b. Connecting to network using WiFi

- Install [UD Mobile](#) on your Smart Phone and scan this QR Code:



- On the UD Mobile, click on the settings icon at the bottom right of the screen (gear icon) and then choose **WiFi Configuration**.
- You can also watch setup videos [here](#).

c. Open the OpenADR Dashboard

Now that eisy is on the network, you can configure OpenADR Settings using your computer. Although most features of eisy are available on UD Mobile, OpenADR configuration still needs to be configure on your computer:

- If you do not have Java installed, please install the latest for your platform. You may find the latest Java downloads at <http://www.java.com/getjava> . Please choose the latest JRE for your platform.
- [Click on this link](#) to download the IoX Launcher. To launch, click on the downloaded **start.jnlp** file (usually in the Downloads folder). This should put an icon on your desktop once you run the downloaded **start.jnlp** file.
 - **MAC Users:** You will be prompted with a dialog warning you that you cannot open this application:
 - Go to System Preferences | Security & Privacy | General
 - Click on the **open anyway** button at the bottom
- Click on the discovered eisy and you will see this menu

Name	UUID	URL	Type
IoX	uuid:00:21:b9:26:26:26	https://eisyv.local:8443/de...eisyv	
IoX	uuid:00:21:b9:26:26:26	https://19	Admin Console (LAN)
IoX	uuid:00:21:b9:02:68:56	https://19	Admin Console (Cloud)
My Lighting	uuid:00:21:b9:ef:00:06	http://19	Polyglot V3 (PG3)
			OpenADR Dashboard

Figure 1 – IoX Launcher

- Click on the **Admin Console (LAN)** menu item to perform the rest of the setup in this document. You can also use Admin Console (Cloud).
- When prompted to authenticate, enter **admin** for both username and password
- Once the Admin Console is up, click on the **OpenADR | OpenADR Dashboard** menu

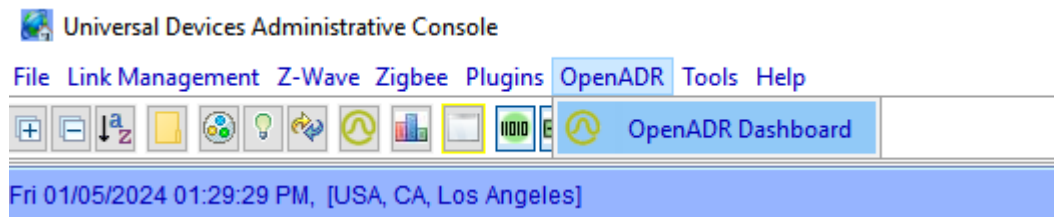


Figure 1.1 – Admin Console OpenADR Menu

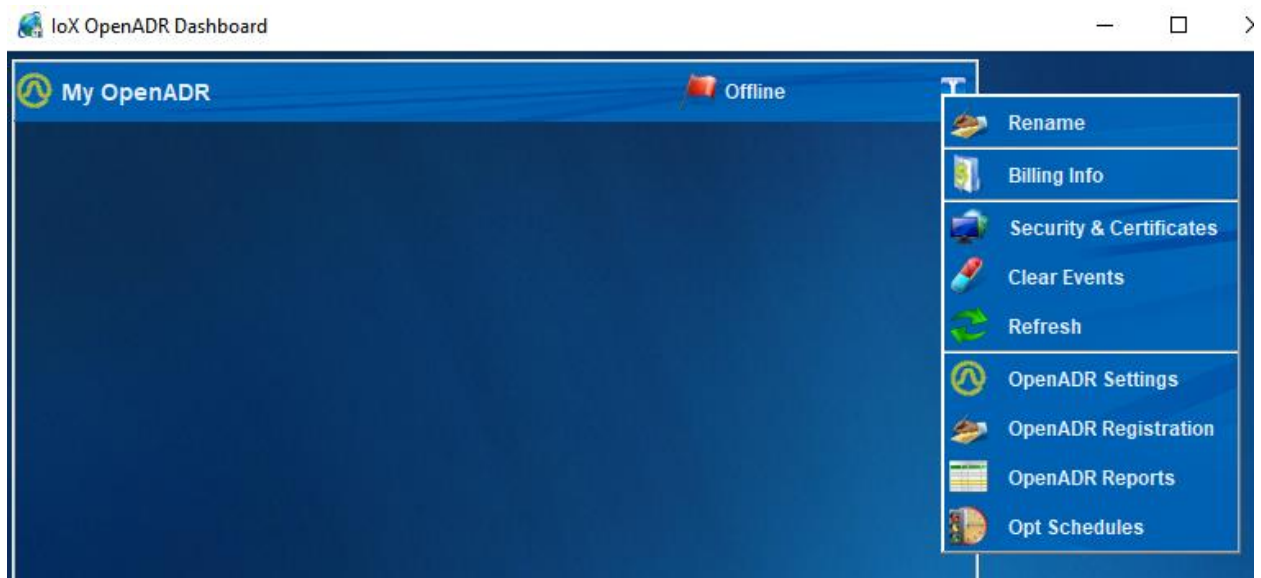
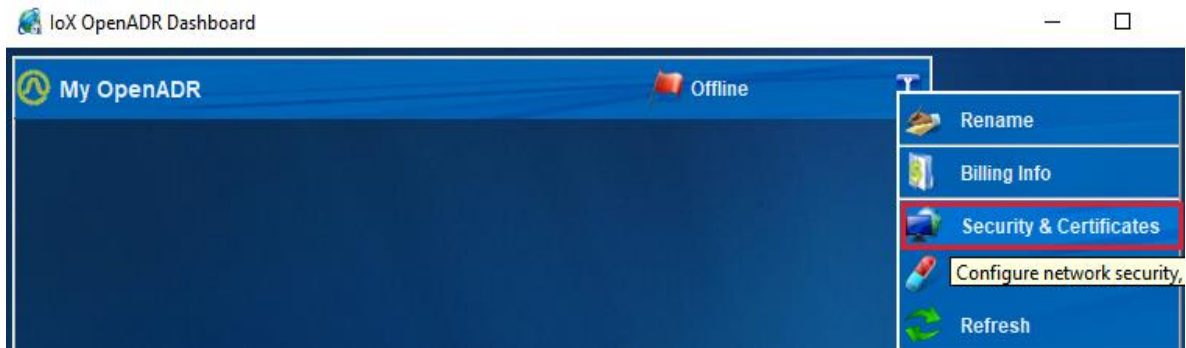


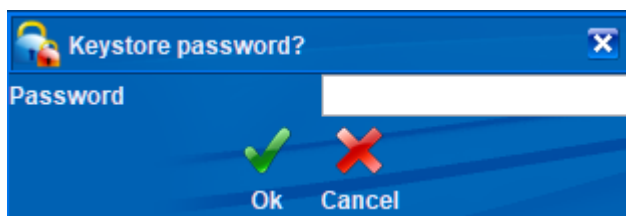
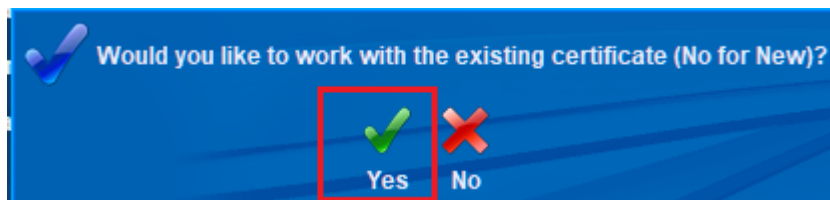
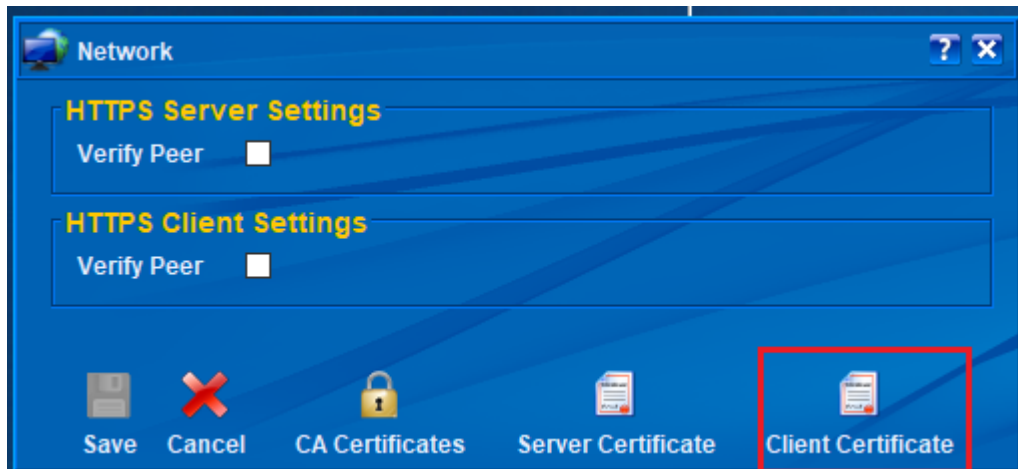
Figure 1.2 – OpenADR Dashboard & Menu

2. Install OpenADR Cert (if necessary)

- Make sure you have a valid OpenADR Certificate in .pfx (PKCS#12) format
- Click on Security & Certificates on My OpenADR Dashboard



- Click on Client Certificate



- Enter the password for the certificate.

SSL Certificates Management

Certificate Information

Issuer	OpenADR Alliance RSA VEN CA
Host Name	UD.ISY.OADR.0021b9.X.132073
Email	
Org.	Universal Devices, Inc.
Org. Unit	OpenADR Alliance RSA VEN Certificate
Locality	
State	
Country	US
Fingerprint	AC1D15B4AB3D8C64458628A2BB10EC6B37FA06E8
Key Strength	2048

Intermediate Certificates

RIGHT MOUSE CLICK

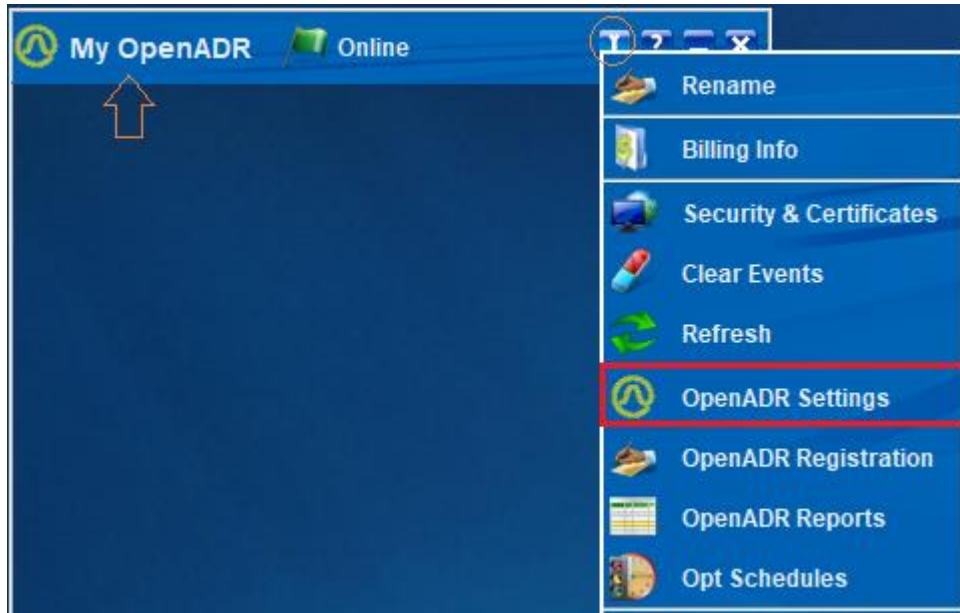
Copy



Cut

Cancel Import Cert. Export Cert. Self Signed Cert. Request Receive Cert.

3. Configure OpenADR

a. Configure OpenADR Settings



 OpenADR Settings

☒ Enabled

Polling Interval (sec)

10

Profile

2.0

b

Smart Optimization

Server URL

https://192.168.1.65:8080/OpenADR2/Simple/2.0b

User ID

Password

OpenADR 2.0 Settings

VTN Interaction Mode

Pull

☐ XML Signature

☒ Auto Registration

Push URL Base

VTN ID

TH_VTN

VEN ID

TH_VEN

Party ID

Resource ID

Group ID

Market Context

http://MarketContext1

Registration ID

REG061423_160441_965

Optimization Settings

Cool Setpoint ° Baseline


72


Heat Setpoint ° Baseline


70


Dimmables % Baseline

100

 Save

 Cancel

 Refresh

 Install Report

b. Configure OpenADR Registration (2.0b)



Auto Registration – if this option is checked, ISY will automatically try to register with the VTN at boot up or when there is no longer any registration.

c. Configure OpenADR Reports (2.0b)



OpenADR Reports

Telemetry Status

☒ Enabled

☒ On Change [Register](#)

Duration Max Sampling Min Sampling

Telemetry Usage

☒ Enabled

☒ On Change [Register](#)

Duration Max Sampling Min Sampling

Reports

ID	Resource Name	Name
ADR0001	Auto DR	
LUT_LS_1	Lutron Load Shed	

Register – All report types (status/usage) are registered at the same time regardless of which Register button is clicked.

Report registrations are cannot be canceled. So, if there are any changes to any reports, Register button must be clicked again to re-register all reports (replaces the old metadata information).

eisy will automatically decide what needs to be registered based on the device classes of devices that are in Auto DR group. For instance, energy monitoring channels only register Telemetry Usage whereas thermostats and load controllers register Telemetry Status. Some devices may report both.

d. Configure OpenADR Opt Schedules (2.0b)



Opt Schedules inform eisy of what disposition must be reported during certain times. Clicking on the **Add** button or any of the schedules brings up the Opt Editor dialog which enables editing each schedule.

Opt Schedules

Opt Schedules

ID	Parent ID	Start Time	End Time	Disposition	Reason
27	27	2023/06/14 04:17:0...	2023/06/14 07:17:0...	Opt In	Schedule
Click to Edit					

Save

Cancel

Refresh

Add

Clear

Cancel All

Opt Editor

Opt Schedule

ID

Mod. #

0

Start Time

2023/06/14

4

▼

:

17

▼

:

17

▼

PM

▼

☐ End Time

2023/06/14

4

▼

:

17

▼

:

17

▼

PM

▼

Disposition

Opt In

▼

Reason

Schedule

▼

Save

Cancel

Cancel Opt

