

eISY Tips

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Button Meaning Sticker (apply to front of eISY)

Presses: (1) Update packages (2) WiFi Setup (3) Reset passwords
(4) Reset networking (5) Reboot (6) Shutdown (10) Factory Reset

If you accidentally press the button and update packages, it will come up in an unstable state requiring you reboot it to clear the condition. Sadly, it is all too easy to hit this button as you are working on the unit.

Configuration

Pretty much all configuration should be done through the phone app – that you have to download. It looks like you can configure most things on the admin console – but it often doesn't work, or work as well as doing it on the phone app. The phone app is not optional!

See separate notes on adding Z-Wave devices for more detail on this important step.

Networking

You can use either (a) ethernet or (b) WiFi – you can enable both (which I think is wrong as this causes instability and lockups, but is allowed by the unit) but you should NOT!

Ethernet is the default, and you need the phone app to setup WiFi.

I originally thought that I needed the WiFi interface enabled to talk to my Harmony Hub using the HarmonyHub node. This is incorrect. In fact, it turns out that the HarmonyHub node will fail to detect any hubs if the WiFi interface is enabled. This was a very frustrating issue to track down and I finally found this out in this [forum discussion](#).

Note that the WiFi interface uses a different MAC address than the Ethernet – which is printed on the bottom of the unit.

Passwords

The wiki says that you can change “all” of the references to the password in one spot now. This is NOT true.

It does NOT change the linux command line password – to change this requires the chpwd command on the command line.

It does NOT change the Polyglot V3 (PG3) ISY password which must be changed in PG3, in the IoX Configuration menu, using the Edit Current IoX feature.

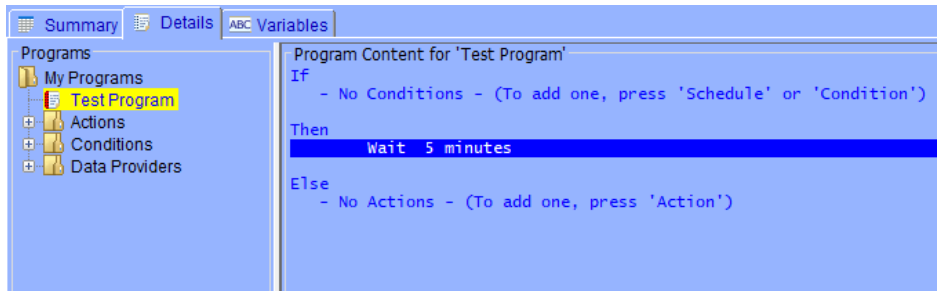
Known Issues

User Interface Issues

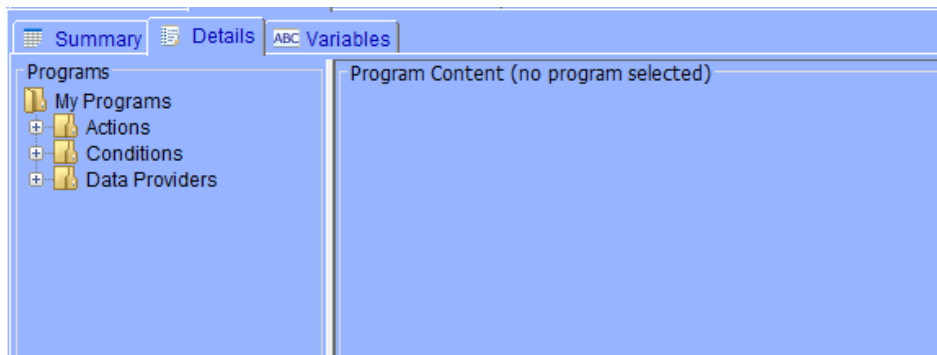
Delete Program Mysteriously fails

If you delete a program, it “appears” to be deleted – because it no longer shows up in the program list.

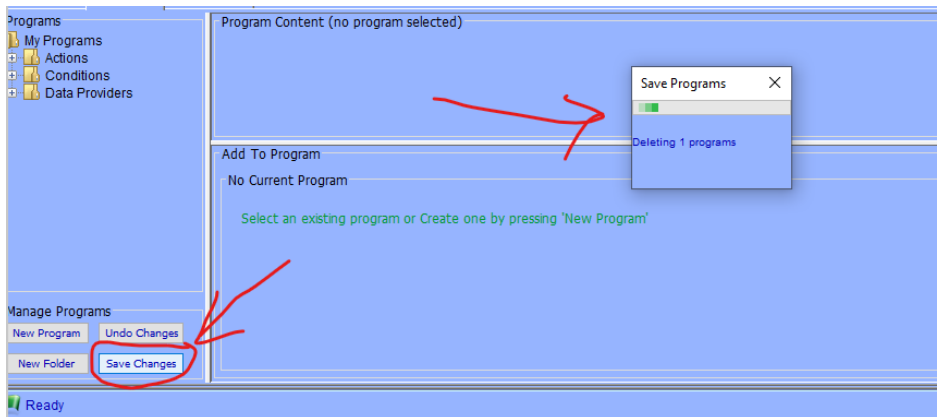
Before delete:



After delete, it appears that the program is no longer present.



But it is NOT actually deleted until you also press the “Save Changes” button. This can cause endless havoc when you are trying to track down why something isn’t working and you don’t realize this program is still running – but it is INVISIBLE! This has been reported as a bug and will hopefully be fixed in the future. In the meantime, always “Save Changes” after deleting a program.



Z-Wave Issues

There is an insidious bug in version 5.6.2 that causes sequential changes to different Z-Wave nodes in the same physical device to silently fail. The workaround is to insert a 2 second “wait” delay between the changes in your program. This bug has been reported and hopefully will be fixed in some future version.

This is devastating if, for example, you are turning off irrigation relay #1, and immediately turning on irrigation relay #2 (in the same Z-Wave device.) Relay #2 never turns on, and no error conditions are set, causing your plants to die from lack of water.

Node Controller Issues

TimeData

The problem is an edge condition where the logic is invoked TWICE (should only be once) if, and only if, the minute being checked is 59 AND another test accompanies it to verify that the hour is not 23.

I setup four test to verify this (see below) two of the tests trigger at two minutes before the hour and they both work properly. the other two tests trigger at one minute before the hour and one of these fails (see TimeDataTest2)

You can see this in the variable picture below. All variables were initialized to zero before running this test. Notice how variable TEST2 was incremented TWICE, and the last modified time is 12:00:07. TEST2 was incremented once at 11:59:07, and then again at 12:00:07. THIS SHOULD NOT BE HAPPENING IN MY OPINION. This was reported on the UD forum on 7/13/2023.

30	TEST	0	1	0	Thu 2023/07/13 11:59:07 AM
31	TEST2	0	2	0	Thu 2023/07/13 12:00:07 PM
32	TEST3	0	1	0	Thu 2023/07/13 11:58:07 AM
33	TEST4	0	1	0	Thu 2023/07/13 11:58:07 AM

The screenshot shows the 'Program Content for 'TimeDataTest'' in the Node Controller. The program is an IF statement with the following logic:

```
IF
    'TimeData' Minute is 59 minute
Then
    $TEST += 1
Else
    - No Actions - (To add one, press 'Action')
```

The screenshot shows the 'Program Content for 'TimeDataTest2'' in the Node Controller. The program is an IF statement with the following logic:

```
IF
    'TimeData' Minute is 59 minute
    And 'TimeData' Hour is not 23 Hour
Then
    $TEST2 += 1
Else
    - No Actions - (To add one, press 'Action')
```

The screenshot shows the 'Program Content for 'TimeDataTest3'' in the Node Controller. The program is an IF statement with the following logic:

```
IF
    'TimeData' Minute is 58 minute
Then
    $TEST3 += 1
Else
    - No Actions - (To add one, press 'Action')
```

Programs	Program Content for 'TimeDataTest4'
<ul style="list-style-type: none">My Programs<ul style="list-style-type: none">TimeDataTestTimeDataTest2TimeDataTest3TimeDataTest4Actions<ul style="list-style-type: none">ChandelierDoor Bell	<pre>If 'TimeData' Minute is 58 minute And 'TimeData' Hour is not 23 Hour Then \$TEST4 += 1 Else - No Actions - (To add one, press 'Action')</pre>

HarmonyHub Issues

There is an issue where the node controller can't find the hubs, or behaves erratically, if the eISY is connected to the network using Wi-Fi. The solution is simple – connect the eISY using a hard ethernet cable.

Scene Controllers

The eISY now supports scene controller functionality which is cool and allows you to sense when a user presses buttons. Using this in a program is not obvious – refer to my other document Sensing Switch Movement for details on how this works.

Logging into the UD Forum

The UD forum web site is kind of lame. You should log in using your Portal ID/password. HOWEVER it will immediately tell you that you are not authorized! You need to refresh the page, and then you will have access to the forum. Reported to UD 7/13/2023.

Admin Console

If the loX launcher can not find the eISY unit, you can manually add it as follows:

<https://eisy.local:8443/desc>

IMPORTANT: The loX launcher requires an internet connection and will fail if your connection is down. To get around this problem you can launch the admin console with the following link in a browser window:

<https://eisy.local:8443/admin.jnlp>

This is more tedious and requires you to accept security risks and download a file to your desktop (from the unit) but will allow you to run the admin console.

Programming

When comparing values with fractional parts (ex: “wind speed”) the values are rounded up/down before the comparison – the fractional part is NOT truncated as you might expect. So if the value is ‘14.9742’, and the comparison is “if value < 15” the test will fail because 14.9742 will be rounded up to 15 before the comparison. It is possible that this only occurs on weather node variables, but I suspect it occurs on all fractional values.