**TO-DOs:**

* From: <https://github.com/openaps/docs/blob/master/docs/getting-started/rpi.md>
  + change user login password or disable, only use SSH keys
  + figure out accessing Git on the device (necessary if any changes are being made, probably also to store me-specific files
* Read this: <https://github.com/openaps/openaps/blob/master/README.md>
* ~~From:~~ [~~https://github.com/openaps/docs/blob/master/docs/Log-clean-analyze-with-openaps-tools/using.md~~](https://github.com/openaps/docs/blob/master/docs/Log-clean-analyze-with-openaps-tools/using.md)
  + ~~configure OPENAPS on the Pi~~
* From: <https://github.com/openaps/docs/blob/master/docs/Build-manual-system/Using-oref0-tools.md>
  + re-invoke and review the reports with insulin pump settings, after I get old pump setup
  + starting doing steps after here: $ openaps report add monitor/glucose.json JSON cgm iter\_glucose 5
* draw out flow chart of reports, checks, and enacts for me to follow

**NOTES:**

* OPENAPS raspi:
* 192.168.1.132
* pi, raspberry

$ openaps use pump -h





$ openaps use cgm –h:



git push to Bitbucket:

Top of Form

Bottom of Form

Repository setup

Your repository is empty — let's put some bits in your bucket.

[I have an existing project](https://bitbucket.org/mikestebbins/openaps00#command-line-existing)

Already have a Git repository on your computer? Let's push it up to Bitbucket.

cd /path/to/my/repogit remote add origin https://mikestebbins@bitbucket.org/mikestebbins/openaps00.gitgit push -u origin --all # pushes up the repo and its refs for the first timegit push -u origin --tags # pushes up any tags

In order to eliminate needing to enter the Bitbucket password every time I “git push”, use the following instead of above, “… add origin https://mikestebbins: [BeRtensg@bitbucket.org](mailto:BeRtensg@bitbucket.org)...”

Crontab

Examples: <https://www.raspberrypi.org/documentation/linux/usage/cron.md>

<https://www.raspberrypi.org/forums/viewtopic.php?f=91&t=39344>

Access via:

$ crontab –e

Enter in Nano:

\*/5 \* \* \* \* (cd ~/openaps00/ && git push)



Nightscout integration

Followed these instructions: <https://github.com/openaps/docs/blob/dev/docs/Automate-system/vizualization.md>

Set-up clock zoned from line in script here: <https://github.com/openaps/oref0/blob/master/bin/ns-uploader-setup.sh#L51>

**More CRON to be set-up:**

live4sw 02:10

I think I may need to add something to retry-loop to deal with this scenario. My retry-loop is currently the default, which is retry-loop = ! bash -c "until( ! mm-stick warmup || openaps loop); do sleep 5; done". Has anyone here encountered a similar issue?

Basically, if I reboot, or reset the USB, it gets unstuck, but otherwise it just throws off that error every 5 minutes and doesn't even get to the preflight, even though everything is connected and i'm a few feet away from the stick

scottleibrand 03:48

openaps alias add preflight '! bash -c "rm -f monitor/clock.json && echo -n \"PREFLIGHT \" && openaps report invoke monitor/clock.json 2>/dev/null >/dev/null && grep -q T monitor/clock.json && echo OK || ( ( mm-stick warmup 2>&1 || sudo oref0-reset-usb ); echo FAIL; sleep 120; exit 1 )"'

openaps alias add retry-loop '! bash -c "openaps wait-loop || until( ! mm-stick warmup 2>&1 | egrep -v \"^ \" || ! openaps preflight || openaps loop); do sleep 10; done"'

live4sw 04:47

What do you use for your wait-loop alias? I didn't see that discussed in the docs.

scottleibrand 08:48

openaps alias add wait-loop '! bash -c "openaps preflight && openaps gather && openaps enact && openaps report invoke monitor/temp\_basal.json 2>/dev/null >/dev/null && openaps upload && openaps get-settings 2>/dev/null >/dev/null && openaps wait-for-bg && openaps enact && openaps upload-ns-status >/dev/null"'

live4sw 09:28

Thanks Scott, unfortunately this brings up wait-for-bg and several aliases not discussed in the docs. I see Jason uses these too. What is the purpose of the "wait" aliases? I think I may need to spend some time this weekend really trying to understand how these aliases do things differently.

jasoncalabrese 09:31

the wait-for-bg causes the loop to wait until BG changes, and just keeps polling

you then need a cron to killall openaps processes older than 10 minutes

\* \* \* \* \* killall -g --older-than 10m openaps

live4sw 09:40

Oh I see, so is the logic here that by using the wait, you can make sure that your loop runs immediately when there is a new bg? I assume your cron still runs retry-loop every 5 minutes, you're just killing old processes to make sure they don't snowball?

jasoncalabrese 09:49

the cron runs every minute, but checks if it's already running first

I use \* \* \* \* \* cd /home/edison/indy && ( ps aux | grep -v grep | grep -q 'openaps retry-loop' && echo OpenAPS already running || openaps retry-loop ) 2>&1 | logger -t openaps-loop

**Python file in Linux**

Create new file from terminal:

* touch /path/to/file for an empty file

Just put this in the first line of your script :

~~#!/usr/bin/env python~~

Actually, change it to this:

#!/usr/bin/python

Then make the file executable with

chmod +x myfile.py

Execute with

./myfile.py

Use subprocess to run it in the shell:

<https://docs.python.org/2/library/subprocess.html>

<http://stackoverflow.com/questions/89228/calling-an-external-command-in-python>

**Round two, 2016-03-26. Install Dev into a new folder and start fresh with the Dev docs.**

**Names of things:**

* pump name = pump
* Dexcom cgm = cgm

Changed password to “GlareBucket2” using:

sudo raspi-config

Ran:

sudo bash -c 'echo "options 8192cu rtw\_power\_mgnt=0 rtw\_enusbss=0" >>/etc/modprobe.d/8192cu.conf'

Installed watchdog via:

Enable the built-in hardware watchdog chip on the Raspberry Pi:

sudo modprobe bcm2708\_wdog

sudo bash -c 'echo "bcm2708\_wdog" >> /etc/modules'

Install the watchdog package, which controls the conditions under which the hardware watchdog restarts the Pi:

sudo apt-get install watchdog

Next, add watchdog to startup applications:

sudo update-rc.d watchdog defaults

Edit the config file by opening up nano text editor

sudo nano /etc/watchdog.conf

Uncomment the following: (remove the # from the following lines, scroll down as needed to find them):

max-load-1

watchdog-device

Finally, start watchdog by entering:

sudo service watchdog start

Update the RPi2.

sudo apt-get update && sudo apt-get -y upgrade

Install dev via package manager:

curl -s https://raw.githubusercontent.com/openaps/docs/dev/scripts/quick-src.sh | bash -

Install openaps via:

sudo easy\_install -ZU setuptools sudo easy\_install -ZU openaps

Run

sudo openaps-install-udev-rules

Run

sudo activate-global-python-argcomplete

log session via:

script logfile20160326

Initialize new Openaps environment

$ cd

$ openaps init openapsdev

$ cd openapsdev

Add devices:

$ openaps device add pump medtronic 012842

$ openaps device add cgm dexcom

$ openaps device show

$ cat openaps.ini

$ cat pump.ini

$ openaps use <my\_pump\_name> model

$ openaps use <my\_pump\_name> -h

$ openaps use <my\_dexcom\_name> iter\_glucose 1

Pull nightscout values:

[device "curl"] <br>

fields = <br>

cmd = bash <br>

vendor = openaps.vendors.process <br>

args = -c "curl -s https:// mikestebbinscgmsite.azurewebsites.net/api/v1/entries.json | json -e 'this.glucose = this.sgv'" <br>

[report "monitor/glucose.json"] <br>

device = curl <br>

use = shell <br>

reporter = text <br>

reports

$ openaps report add last\_five\_pump\_hours.json JSON pump iter\_pump\_hours 5

$ openaps report invoke last\_five\_pump\_hours.json

$ openaps report add last\_five\_cgm\_hours.json JSON cgm iter\_glucose\_hours 5

aliases:

$ openaps report invoke last\_five\_pump\_hours.json

$ openaps report invoke last\_five\_cgm\_hours.json

$ openaps alias add last\_five\_hours "report invoke last\_five\_pump\_hours.json last\_five\_cgm\_hours.json"

$ openaps last\_five\_hours

**Phase 2: build a manual system**

$ openaps device add oref0 process oref0

$ openaps device add get-profile process --require "settings bg\_targets insulin\_sensitivities basal\_profile max\_iob" oref0 get-profile

$ openaps device add calculate-iob process --require "pumphistory profile clock" oref0 calculate-iob

$ openaps device add determine-basal process --require "iob temp\_basal glucose profile" oref0 determine-basal

$ mkdir -p settings monitor enact

$ openaps report add settings/settings.json JSON pump read\_settings

$ openaps report add settings/bg\_targets.json JSON pump read\_bg\_targets

$ openaps report add settings/insulin\_sensitivities.json JSON pump read\_insulin\_sensitivies

$ openaps report add settings/basal\_profile.json JSON pump read\_basal\_profile\_std

Create max\_iob file in main directory:

From main openapsdev directory:

touch max\_iob.json

nano max\_iob.json

input:

{"max\_iob":2}

$ openaps report add settings/profile.json text get-profile shell settings/settings.json settings/bg\_targets.json settings/insulin\_sensitivities.json settings/basal\_profile.json max\_iob.json

$ openaps alias add gather-profile "report invoke settings/settings.json settings/bg\_targets.json settings/insulin\_sensitivities.json settings/basal\_profile.json settings/profile.json"

$ openaps report add monitor/pumphistory.json JSON pump iter\_pump\_hours 5

$ openaps report add monitor/clock.json JSON pump read\_clock

$ openaps report add monitor/iob.json JSON calculate-iob shell monitor/pumphistory.json settings/profile.json monitor/clock.json

$ openaps report add monitor/temp\_basal.json JSON pump read\_temp\_basal

$ openaps report add monitor/glucose.json JSON cgm iter\_glucose 5

$ openaps report add enact/suggested.json text determine-basal shell monitor/iob.json monitor/temp\_basal.json monitor/glucose.json settings/profile.json

$ openaps alias add monitor-pump "report invoke monitor/clock.json monitor/temp\_basal.json monitor/pumphistory.json monitor/iob.json"

$ openaps alias add monitor-cgm "report invoke monitor/glucose.json"

$ openaps report show

$ openaps alias show

test the full sequence of aliases and the that which depend on them:

$ rm -f settings/\* monitor/\* enact/\*

$ openaps gather-profile

$ openaps monitor-pump

$ ~~openaps monitor-cgm~~

$ openaps monitor-cgm-ns

$ openaps report invoke monitor/iob.json

$ openaps report invoke enact/suggested.json

rm -f settings/\* monitor/\* enact/\* | openaps gather-profile | openaps monitor-pump | openaps monitor-cgm-ns | openaps report invoke monitor/iob.json | openaps report invoke enact/suggested.json

**3.3.9**

$ openaps alias add preflight '! bash -c "rm -f monitor/clock.json && openaps report invoke monitor/clock.json 2>/dev/null && grep -q T monitor/clock.json && echo PREFLIGHT OK || (mm-stick warmup || (sudo oref0-reset-usb && echo PREFLIGHT SLEEP && sleep 120); echo PREFLIGHT FAIL; exit 1)"'

Added new Bitbucket repo for dev, pushed all to it using my password trick (earlier in this document)

Create loop

Perhaps re-check this: ktomy Jan 23 20:26: Also I have a very different "loop" command and maybe it would be good to add it to the documentation somewhere (without enact):

Loop:

openaps alias add loop '! bash -c "openaps monitor-cgm 2>/dev/null && ( openapspreflight && openaps gather && openaps enact) || echo No CGM data."'

Retry loop:

openaps alias add retry-loop '! bash -c "openaps preflight && until( ! mm-stick warmup || openaps loop); do sleep 5; done"'

3.3.16. Configuring Automatic Sensitivity Mode

Add nightscout upload functionality, Follow 3.4.4.1.2. Environment Variables for OpenAPS Access to Nightscout:

echo -n " thisismynewapisecret" | shasum

nano ~/.profile

NIGHTSCOUT\_HOST=https://mikestebbinscgmtest/azurewebsites.net/api/v1/entries.json; export $

API\_SECRET=ad28f5c7f3caa6679b83e8e7a2ed32c7aea3d962; export API\_SECRET

Save and exit, the run:

source /etc/profile

add a new ns-status device:

[device “ns-status”]   
fields = clock iob suggested enacted battery reservoir status  
cmd = ns-status  
vendor = openaps.vendors.process  
args =

$ openaps report add monitor/upload-status.json JSON ns-status shell monitor/clock-zoned.json monitor/iob.json enact/suggested.json enact/enacted.json monitor/battery.json monitor/reservoir.json monitor/status.json

$ openaps vendor add openapscontrib.timezones

$ openaps device add tz timezones

$ git add tz.ini

$ openaps report add monitor/clock-zoned.json JSON tz clock monitor/clock.json

$ openaps report add monitor/reservoir.json JSON pump reservoir

$ openaps report invoke monitor/reservoir.json

$ openaps report add monitor/battery.json JSON pump read\_battery\_status

$ openaps report invoke monitor/battery.json

$ openaps report add monitor/status.json JSON pump status

$ openaps report invoke monitor/status.json

Now, when I run:

$ openaps report invoke monitor/upload-status.json

I get:

ns-status://JSON/shell/monitor/upload-status.json

Could not require: /home/pi/openapsdev/enact/enacted.json { [Error: Cannot find module '/home/pi/openapsdev/enact/enacted.json'] code: 'MODULE\_NOT\_FOUND' }

Could not require: /home/pi/openapsdev/[ { [Error: Cannot find module '/home/pi/openapsdev/['] code: 'MODULE\_NOT\_FOUND' }

reporting monitor/upload-status.json

Added create\_enacted.py and delete\_files.py to pi@raspberry:

Run:

$ python3 create\_enacted.py

Status:

The python code runs when run from the openaps directory. When run from the loop code, I get the following error:

pi@raspberrypi:~/openapsdev $ openaps loop

curl://text/shell/monitor/glucose-NS.json

reporting monitor/glucose-NS.json

pump://JSON/read\_clock/monitor/clock.json

reporting monitor/clock.json

PREFLIGHT OK

pump://JSON/read\_settings/settings/settings.json

reporting settings/settings.json

pump://JSON/read\_bg\_targets/settings/bg\_targets.json

reporting settings/bg\_targets.json

pump://JSON/read\_insulin\_sensitivities/settings/insulin\_sensitivities.json

reporting settings/insulin\_sensitivities.json

pump://JSON/read\_basal\_profile\_std/settings/basal\_profile.json

reporting settings/basal\_profile.json

get-profile://text/shell/settings/profile.json

Could not parse carbratio\_data. Optional feature Meal Assist disabled.

reporting settings/profile.json

Traceback (most recent call last):

File "/usr/local/bin/openaps", line 6, in <module>

exec(compile(open(\_\_file\_\_).read(), \_\_file\_\_, 'exec'))

File "/home/pi/src/openaps/bin/openaps", line 168, in <module>

app( )

File "/home/pi/src/openaps/openaps/cli/\_\_init\_\_.py", line 44, in \_\_call\_\_

self.run(self.args)

File "/home/pi/src/openaps/bin/openaps", line 154, in run

builtins.dispatch(args, self)

File "/home/pi/src/openaps/openaps/builtins.py", line 48, in dispatch

get\_alias(args.command, app)(args)

File "/home/pi/src/openaps/openaps/builtins.py", line 34, in \_\_call\_\_

exit(call(cmd + args.args))

File "/usr/lib/python2.7/subprocess.py", line 522, in call

return Popen(\*popenargs, \*\*kwargs).wait()

File "/usr/lib/python2.7/subprocess.py", line 710, in \_\_init\_\_

errread, errwrite)

File "/usr/lib/python2.7/subprocess.py", line 1335, in \_execute\_child

raise child\_exception

OSError: [Errno 2] No such file or directory

No CGM data.

3/31: Seemed to finally get openaps to call python script using python3.

Alias’ are now as follows:

enact = ! bash -c "./create\_enacted.py &> /dev/null || echo "error creating enacted""

loop = ! bash -c "openaps monitor-cgm-NS 2>/dev/null && ( openaps preflight && openaps gather-profile && ./create\_enacted.py) || echo No CGM data."

Ns-upload: added:

$ openaps alias add latest-ns-treatment-time '! bash -c "nightscout latest-openaps-treatment $NIGHTSCOUT\_HOST | json created\_at"' || die "Can't add latest-ns-treatment-time"

$ openaps alias add format-latest-nightscout-treatments '! bash -c "nightscout cull-latest-openaps-treatments monitor/pumphistory-zoned.json settings/model.json $(openaps latest-ns-treatment-time) > upload/latest-treatments.json"' || die "Can't add format-latest-nightscout-treatments"

$ openaps alias add upload-recent-treatments '! bash -c "openaps format-latest-nightscout-treatments && test $(json -f upload/latest-treatments.json -a created\_at eventType | wc -l ) -gt 0 && (ns-upload $NIGHTSCOUT\_HOST $API\_SECRET treatments.json upload/latest-treatments.json ) || echo \"No recent treatments to upload\""' || die "Can't add upload-recent-treatments"

Running: openaps report invoke monitor/upload-status.json returns:

ns-status://JSON/shell/monitor/upload-status.json

Could not parse input data: [TypeError: Cannot read property 'duration' of undefined]

No JSON object could be decoded

Traceback (most recent call last):

File "/usr/local/bin/openaps-report", line 6, in <module>

exec(compile(open(\_\_file\_\_).read(), \_\_file\_\_, 'exec'))

File "/home/pi/src/openaps/bin/openaps-report", line 82, in <module>

app( )

File "/home/pi/src/openaps/openaps/cli/\_\_init\_\_.py", line 44, in \_\_call\_\_

self.run(self.args)

File "/home/pi/src/openaps/bin/openaps-report", line 75, in run

output = app(args, self)

File "/home/pi/src/openaps/openaps/cli/subcommand.py", line 52, in \_\_call\_\_

return self.method.main(args, app)

File "/home/pi/src/openaps/openaps/reports/invoke.py", line 48, in main

reporters.Reporter(report, device, task)(output)

File "/home/pi/src/openaps/openaps/reports/reporters/\_\_init\_\_.py", line 27, in \_\_call\_\_

self.blob = self.serialize(data)

File "/home/pi/src/openaps/openaps/reports/reporters/\_\_init\_\_.py", line 25, in serialize

return self.method.serialize(render(data), self)

File "/home/pi/src/openaps/openaps/vendors/process.py", line 56, in prerender\_json

return json.loads(data)

File "/usr/lib/python2.7/json/\_\_init\_\_.py", line 338, in loads

return \_default\_decoder.decode(s)

File "/usr/lib/python2.7/json/decoder.py", line 366, in decode

obj, end = self.raw\_decode(s, idx=\_w(s, 0).end())

File "/usr/lib/python2.7/json/decoder.py", line 384, in raw\_decode

raise ValueError("No JSON object could be decoded")

ValueError: No JSON object could be decoded

openaps report add monitor/upload-status.json JSON ns-status shell monitor/clock-zoned.json monitor/iob.json enact/suggested.json enact/enacted.json monitor/battery.json monitor/reservoir.json monitor/status.json

Deleted out the upload-status report definition from openaps.ini, then recreated the report with:

$ openaps report add monitor/upload-status.json JSON ns-status shell monitor/clock-zoned.json monitor/iob.json enact/suggested.json enact/enacted.json monitor/battery.json monitor/reservoir.json monitor/status.json

Went into openaps.ini, and in that just-created report, I deleted the “[]” from the line “remainder = []”.

Now, running openaps report invoke monitor/upload-status.json seems to work.

Conversation history from gitter that got me fixed-up:

**mikestebbins**

[13:20](https://gitter.im/nightscout/intend-to-bolus?at=57017b038d2a72471b7ca33c)

@jasoncalabrese I tried first deleting the [], but that didn't change anything.  
I then deleted the upload-status report from my openaps.ini, then recreated the report using the code straight from the docs openaps report add monitor/upload-status.json JSON ns-status shell monitor/clock-zoned.json monitor/iob.json enact/suggested.json enact/enacted.json monitor/battery.json monitor/reservoir.json monitor/status.json  
Invoking that report didn't work.  
I then went into openaps.ini, deleted the "[]" from the remainder line in the upload-status.json report, and after invoking that report, it worked.  
I must have messed up/corrupted my report definition somehow, but additionally, the brackets on the remainder line seem to have also been a problem. Thank you very much for the help!

**bewest**

[13:34](https://gitter.im/nightscout/intend-to-bolus?at=57017e4ebbffcc665fabc159)

the dev stuff for openaps has been updated recently, which fixes that issue

there's some new tools in oref0 topical/experimental branches to help create "recipes" and templates for dealing with lots of reports<https://github.com/openaps/oref0/pull/94#issuecomment-204616833>

**mikestebbins**

[13:46](https://gitter.im/nightscout/intend-to-bolus?at=57018135d9b73e635f68d26e)

@bewest I installed dev on the raspi using:

sudo easy\_install -ZU setuptools

sudo easy\_install -ZU openaps

sudo openaps-install-udev-rules

Do I just re-run sudo easy\_install -ZU openaps to update to the latest commit of dev with the changes you mentioned?

**bewest**

[14:15](https://gitter.im/nightscout/intend-to-bolus?at=570187f4d9b73e635f68d37c)

ah, easy\_install does not typicaly install dev

pip install git+git://github.com/openaps/openaps.git'#dev' might install dev

the usual workflow for using dev is to git clone the repo and install it from source using sudo python setup.py develop

**mikestebbins**

[14:19](https://gitter.im/nightscout/intend-to-bolus?at=570188f976b6f9de194dbb3d)

Dang. Thanks for the explanation @bewest. Can I update my existing openaps on the raspi from Master to Dev, or do I need to start from scratch using the workflow you describe?

I'm a bit confused. If I run sudo easy\_install -ZU openaps, it returns

Searching for openaps

Reading https://pypi.python.org/simple/openaps/

Best match: openaps 0.0.11.dev0

openaps 0.0.11.dev0 is already the active version in easy-install.pth

Using /home/pi/src/openaps

Processing dependencies for openaps

Finished processing dependencies for openaps

It says that openaps 0.0.11.dev0 is already the active version...but you're saying that I couldn't have dev if I installed with easy\_install?

**jasoncalabrese**

[14:27](https://gitter.im/nightscout/intend-to-bolus?at=57018ab3d478c81e2cbcaf4d)

the clone and setup above should replace the easy\_install version

**scottleibrand**

[14:29](https://gitter.im/nightscout/intend-to-bolus?at=57018b4876b6f9de194dbbac)

0.0.11 is not the latest dev. 0.1.0 is newer.

**bewest**

[14:30](https://gitter.im/nightscout/intend-to-bolus?at=57018b6abbffcc665fabc387)

that looks like you a have a checkout already

just need to fins it, issue git pull to bring it up to date

then sudo python setup.py develop

try cd ~/src/openaps

**mikestebbins**

[14:51](https://gitter.im/nightscout/intend-to-bolus?at=5701907a11ea211749c45fbc)

git pull returns Already up-to-date.. I'll try the clone and setup to replace my easy\_install version.

**bewest**

[14:52](https://gitter.im/nightscout/intend-to-bolus?at=570190878d2a72471b7ca6c5)

git status

your almost done

**mikestebbins**

[14:52](https://gitter.im/nightscout/intend-to-bolus?at=570190b211ea211749c45fc8)

git status returns

On branch master

Your branch is up-to-date with 'origin/master'.

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: enact/enacted.json

modified: openaps.ini

modified: pump.ini

no changes added to commit (use "git add" and/or "git commit -a")

**bewest**

[14:53](https://gitter.im/nightscout/intend-to-bolus?at=570190bfd478c81e2cbcb043)

hmmm

git remote -v?

pwd

**mikestebbins**

[14:54](https://gitter.im/nightscout/intend-to-bolus?at=5701910411ea211749c45fd6)

origin https://mikestebbins:BeRtensg@bitbucket.org/mikestebbins/openapsdev.git (fetch)

origin https://mikestebbins:BeRtensg@bitbucket.org/mikestebbins/openapsdev.git (push)

and

/home/pi/openapsdev

**bewest**

[14:54](https://gitter.im/nightscout/intend-to-bolus?at=5701910cd478c81e2cbcb056)

ok:

cd ~/src/openaps

**mikestebbins**

[14:54](https://gitter.im/nightscout/intend-to-bolus?at=5701912311ea211749c45fdb)

ok.

**bewest**

[14:55](https://gitter.im/nightscout/intend-to-bolus?at=57019138e4a8384a1bbe7714)

git status

**mikestebbins**

[14:55](https://gitter.im/nightscout/intend-to-bolus?at=5701914b76b6f9de194dbc9d)

On branch dev

Your branch is up-to-date with 'origin/dev'.

nothing to commit, working directory clean

**bewest**

[14:55](https://gitter.im/nightscout/intend-to-bolus?at=570191528d2a72471b7ca6ed)

geat: git pull origin

**mikestebbins**

[14:56](https://gitter.im/nightscout/intend-to-bolus?at=5701919cd9b73e635f68d51f)

Nice, that shows 22 files changed!

**bewest**

[14:56](https://gitter.im/nightscout/intend-to-bolus?at=5701919e11ea211749c45fec)

sudo python setup.py develop

sudo easy\_install -ZU dexcom\_reader

**mikestebbins**

[14:59](https://gitter.im/nightscout/intend-to-bolus?at=57019225d39de41b496031c5)

after running setup.py develop I see Finished processing dependencies for openaps==0.1.0.dev0. And after running dexcom\_reader, I seeFinished processing dependencies for dexcom\_reader.

**bewest**

[14:59](https://gitter.im/nightscout/intend-to-bolus?at=5701922bd9b73e635f68d537)

cd ~/src/decoding-carelink; git pull origin; sudo python setup.py develop

very good

oops fixed typo

**mikestebbins**

[15:00](https://gitter.im/nightscout/intend-to-bolus?at=57019266d39de41b496031d3)

returns Finished processing dependencies for decocare==0.0.23.dev0

**bewest**

[15:00](https://gitter.im/nightscout/intend-to-bolus?at=5701926bd478c81e2cbcb098)

fantastic

cd ~/openapsdev to get back to your instance

**mikestebbins**

[15:03](https://gitter.im/nightscout/intend-to-bolus?at=57019329d39de41b496031ec)

awesome, thanks @bewest! So, for future updates, I follow that same procedure of cd'ing into the appropriate directories, git pull origin, thne run setup.py develop?

**bewest**

[15:08](https://gitter.im/nightscout/intend-to-bolus?at=5701946811ea211749c4605e)

right

in case of dexcom\_reader, that just converted you to the release version for that package

now in your instance:

openaps report show --cli

**bewest**

[15:10](https://gitter.im/nightscout/intend-to-bolus?at=570194ddd478c81e2cbcb0f8)

or if that errors, openaps report show --json monitor/upload-status.json

**mikestebbins**

[15:12](https://gitter.im/nightscout/intend-to-bolus?at=57019553d39de41b49603238)

openaps report show --cli did not error.

returns: openaps use cgm iter\_glucose 5 openaps use curl shell openaps use pump iter\_pump\_hours 5.0 openaps use cgm iter\_glucose\_hours 5.0 openaps use pump read\_settings openaps use pump read\_bg\_targets openaps use pump read\_insulin\_sensitivities openaps use pump read\_basal\_profile\_std openaps use get-profile shell --not-json-default settings/settings.json settings/bg\_targets.json settings/insulin\_sensitivities.json settings/basal\_profile.json max\_iob.json openaps use pump iter\_pump\_hours 5.0 openaps use pump read\_clock openaps use calculate-iob shell --not-json-default monitor/pumphistory.json settings/profile.json monitor/clock.json openaps use pump read\_temp\_basal openaps use determine-basal shell --not-json-default monitor/iob.json monitor/temp\_basal.json monitor/glucose-NS.json settings/profile.json openaps use tz clock --timezone "PDT" --adjust "missing" --date "None" --astimezone monitor/clock.json openaps use pump reservoir openaps use pump read\_battery\_status openaps use pump status openaps use ns-status shell --not-json-default monitor/clock-zoned.json monitor/iob.json enact/suggested.json enact/enacted.json monitor/battery.json monitor/reservoir.json monitor/status.json

**bewest**

[15:13](https://gitter.im/nightscout/intend-to-bolus?at=57019570e4a8384a1bbe77b3)

that's a way to see exactly how openaps is running the **use** commands when you invoke

so, eg: openaps report show --cli monitor/upload-status.json will show how it's being run

**mikestebbins**

[15:13](https://gitter.im/nightscout/intend-to-bolus?at=570195a08d2a72471b7ca7a2)

Cool. Thanks for the help @bewest, I need to run out the door now. I'll dig deeper into this tonight!

Ran:

$ ns-upload $NIGHTSCOUT\_HOST $API\_SECRET devicestatus.json monitor/upload-status.json

For gitter:

I wonder if I don't have a mistake in my NIGHTSCOUT\_HOST environment variable. In section 3.4.4.1.2 "Environment Variables for OpenAPS Access to Nightscout", it says to edit `~/.profile` to include `NIGHTSCOUT\_HOST=https://<your Nightscout address>;`

Is my Nightscout address https://mikestebbinscgmtest.azurewebsites.net/, or do I need to append the .../api/v1/ to the address?

Up next:

* Finish drawing out system flow map of reports and alias’
* get nightscout upload working (could ask question above on gitter)
* make enacted alias and/or python code do all the other steps
* set up options in python for various suggested outputs
* set up cron job

$ crontab –e

Enter in Nano:

\*/5 \* \* \* \* (cd ~/openaps00/ && git push)

searching for proper enact code:

from AAybob Jan 31 20:03:

enact ! bash -c "rm -f enact/suggested.json; openaps report invoke enact/suggested.json && cat enact/suggested.json && grep -q duration enact/suggested.json || echo No action required"

[report "oref0-predict/enacted.json"]

device = pump

input = oref0-predict/oref0.json

use = set\_temp\_basal

reporter = JSON

from docs:

# 3.3.9. Enacting the suggested action

Based on suggested.json, which is the output of the determine-basal oref0 process, the next step is to enact the suggested action, i.e. to send a new temp rate to the pump, to cancel the current temp rate, or do nothing. The approach one may follow is to setup an enacted.jsonreport, and a corresponding enact alias. Thinking about how to setup the enact report and alias, you may consider the following questions:

* Which pump command could be used to enact a new basal temp, if necessary, and what inputs should that command take? Where should these inputs come from?
* How could a decision be made whether a new basal temp should be sent to the pump or not? What should enact do in the cases when no new temp basal is suggested?

Once you setup your enact alias, you should plan to experiment by running the required sequence of reports and by executing the enact alias using $ openaps enact. Plan to test and correct your setup until you are ceratin that enact works correctly in different situations, including recommendations to update the temp basal, cancel the temp basal, or do nothing.

Up next:

$ ns-upload $NIGHTSCOUT\_HOST $API\_SECRET devicestatus.json monitor/upload-status.json