## **Questionnaire User Guide**

- General Usage
- Optional Args

## **General Usage**

The questionnaire is a form that is filled out between the experiment POC and the controls POC. IT contains the requested setup for every aspect of the experiment, including the motors, lasers, cameras and vacuum components.

The questionnaire is available here through the pswww interface. There is a questionnaire for each run and the proposal catalog lists all of the experiments. Note, some experiments are listen in multiple runs.

```
$ epicsarch-qs exp_name
```

If no hutch is passed it will extract from the experiment name.

## **Optional Args**

- path allows user to specify a specific path for an archfile to be created/updated
  - If no path is provided it will default to: Default path: /cds/group/pcds/dist/pds/[HUTCH]/misc/
- dry-run prints preview to the console of what will be included in the experiment archfile

```
(epicsarch_dev) [ctsoitpsbuild-rhel7-02 misc]$ epicsarch-qs xppl1006821 --dry-run
INFO:happi.backends.qs_db:No device information found under 'trig'
INFO:happi.backends.qs_db:No device information found under 'ao'
INFO:happi.backends.qs_db:No device information found under 'ai'

#*diag_x
#XPP:USR:MMC:04.RBV
*lp_stat
*cryo_temp_base
XPP:XCS:TCT:01:GET_TEMP_D
*cryo_temp_sample
XPP:XCS:TCT:01:GET_TEMP_C
*cryo_temp_table
XPP:XCS:TCT:01:GET_TEMP_B
HXR:PRT:01:MMS:01.RBV
*jungfrau_y
```

■ softlink - updates the softlink to the epicsArch\_experiment\_specific.txt

- linkpath provides user with the option to supply custom file path for softlink.
- cds items gets current data from the questionnaire API via psdm client

>> from psdm_qs_cli import QuestionnaireClient .	 	<b></b>
ors, motors will be user provided, need channels on XPS motor contra		
ler 6 Newport XPS motors, motors and XPS controller will be user pr		
ided, all motors will be controlled via EPICS from beam line"', 'co		
r-comera-1-rate': '38', 'contr-usercomp-2-conn': 'ethernet', 'contr		
pmena-4-wave': 'IR', 'contr-usercomp-1-purpose': ''control of funct		l motor's
s generator, syringe pump"', "contr-camera-Z-rate": "30", "xray-opm";		
e-1': "SASE", 'xray-pulseenergy": 'Maximum', 'xray-mode-descr': 'we i		motor's
Il use the pulse picker to use 30 or 20Hz depending on the Rayonix		
Inning mode', 'xray-pulse-1': '48', 'xray-xrt-single-shot': 'Yes',		
	MEX:USR:MMN:47	l motors
sy-standard': 'No', 'xray-mode': 'Continuous', 'xray-split': 'Not N		motors
ded', 'xray-stdconfig': 'MFX Std Cfg #3 - Droplet on Tope', 'xray-m		motors
	MFX:USR:MMS:18	motors
ssetup-motors-11-purpose': 'EVO Laser Weveplate', 'podssetup-motor'		
l6-name': 'Inj Y', 'podssetup-camera-3-alias': 'LBLSide', 'podssetu	MFX:REC:EVR:82:TRIG3	
trig-9-polarity': 'negative', 'podssetup-motors-11-location': 'MFX	MFX:REC:EVR:82:TRIG8	
mple table', 'podssetup-ao-1-name': 'irled', 'podssetup-motors-7-st	MFX:REC:EVR:82:TRIG9	
eldentity': 'Newport ', 'podssetup-trig-9-purpose': 'OPO Inhibit',	MFX:REC:EVR:82:TRIGA	
dssetup-motors-2-stageidentity": 'Newport ', 'pcdssetup-trig-8-nam'	MFX:LAS:EVR:81:TRIG7	
'EVOQ_trig', 'podssetup-comero-2-type': 'Manta-G1458', 'podssetup	MEX:LAS:EVR:81:TRIG4	
stors-17-location': 'MFX sample table', 'pcdssetup-ao-5-channel':	MFX:LAS:EVR:81:TRIG5	
'pcdssetup-trig-7-pvbase': 'MFX:LAS:EVR:01:TRIG4', 'pcdssetup-mot	MFX:LAS:EVR:81:TRIGG	
s-3-pybase': 'MFX:USR:MMN:43', 'pcdssetup-notors-13-purpose': 'OPO .		troppera

• level - more for developers and troubleshooting, allows the user to specify a debugging level.

```
DEBUG:hutch_python.epics_arch:Set logging level of 'epicsarch-qs' to 'DEBUG'
DEBUG:hutch_python.epics_arch:
epicsarch-qs test script, git
INFO:happi.backends.qs_db:No device information found under 'trig'
INFO:happi.backends.qs_db:No device information found under 'ai'
DEBUG:hutch_python.epics_arch:!Alias Match in questionnaire and archfile! Updating PV: *sam_th, XPP:USR:MMS:17
DEBUG:hutch_python.epics_arch:!Alias Match in questionnaire and archfile! Updating PV: *sam_xr, XPP:USR:MMS:18
DEBUG:hutch_python.epics_arch:!Alias Match in questionnaire and archfile! Updating PV: *sam_y, XPP:USR:MMS:25
DEBUG:hutch_python.epics_arch:!Alias Match in questionnaire and archfile! Updating PV: *sam_z, XPP:USR:MMS:24
DEBUG:hutch_python.epics_arch:!Alias Match in questionnaire and archfile! Updating PV: *swivel_x, XPP:USR:MMS:19
DEBUG:hutch_python.epics_arch:!Alias Match in questionnaire and archfile! Updating PV: *swivel_x, XPP:USR:MMS:19
DEBUG:hutch_python.epics_arch:!Alias Match in questionnaire and archfile! Updating PV: *swivel_z, XPP:USR:MMS:20
```

Useful Info:

EngGen\_04032024.pptx