**EPICS Beamline PVs with APS-U**

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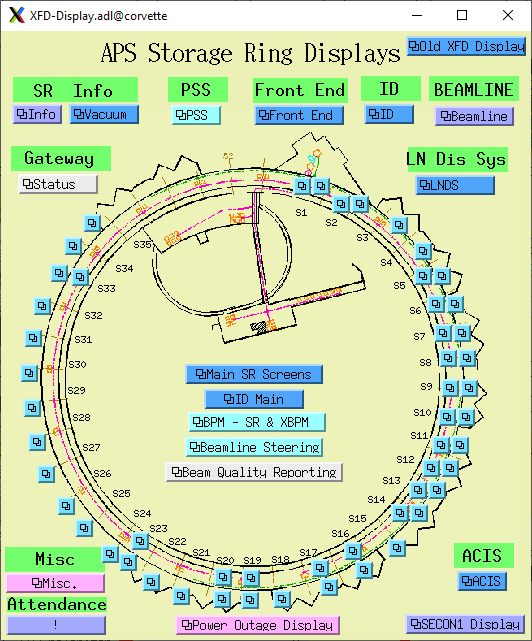
This document described how to locate the relevant beamline EPICS medm screens that work with APS-U. Once the screens for a beamline are located and running it is easy to find the names of the EPICS Process Variables (PVs) by right clicking on a blank area on the display, selecting “PV Info”, and then left clicking on the widget with the PV of interest.

**Top-level Screen XFD-Display.adl**

The top-level screen is called XFD-Display.adl. It can be started by running the following script on a Linux machine with medm installed.

/APSshare/adlsys/xfd-display

That brings up this screen:



Clicking on the left S13 related display button can bring up the 13-BM PSS screen:

A diagram of a building

Description automatically generated

Clicking on the left S13 related display button can bring up the 13-BM FEEPS screen.

A computer screen shot of a diagram

Description automatically generated

From that screen we can bring up the FEEPS Engineering screen:

A screenshot of a computer

Description automatically generated

Clicking on the right S13 related display button on XFD-Display can bring up the 13-ID PSS screen:

A computer screen shot of a diagram

Description automatically generated

Clicking on the right S13 related display button can bring up the 13-ID FEEPS screen:

A computer screen shot of a diagram

Description automatically generated

Clicking on XFD-Display/Beamline button shows the status of all front-ends and ID gaps:

A screenshot of a computer

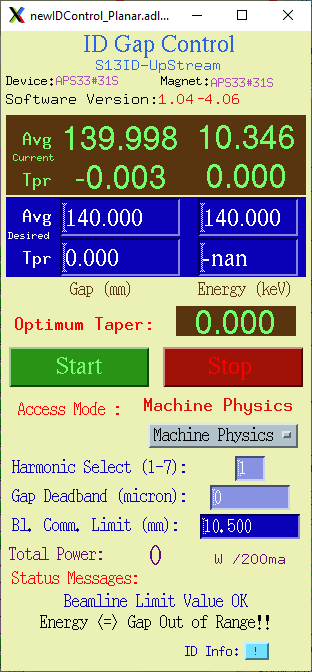
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Selecting XFD-Display/ID/ID Quick Controls brings up this screen:

A screenshot of a computer

Description automatically generated

Selecting the 13US related display on the above screen brings up control of the sector 13 upstream undulator:



Similarly selecting 13DS brings up control of the sector 13 downstream undulator:

A screenshot of a computer

Description automatically generated

Selecting PV Info for the average gap control value (140 in blue above) brings up this screen.

A screenshot of a computer

Description automatically generated

This shows that the name of the PV for the average gap is S13ID:DSID:GapSetC.VAL. That is the PV one needs to write to control the gap.

Similarly, selecting PV for the Energy control (also 140 in blue above) brings up this screen:

A screenshot of a computer

Description automatically generated

This shows that the name of the PV for the average gap is S13ID:DSID:EnergySetC.VAL. That is the PV one needs to write to control the energy.

The “BPM – SR & XBPM” in the center of XFD-Display can bring up this BM XPM display:

A screenshot of a computer

Description automatically generated

Clicking on P1 or P2 in the BM 13 fields above opens this display:

A screenshot of a computer

Description automatically generated

The “BPM – SR & XBPM” in the center of XFD-Display can bring up this ID XPM display:

A screenshot of a computer

Description automatically generated

Clicking on the ID 13 number fields fields above opens displays like this:

A screenshot of a computer

Description automatically generated

The “BPM – SR & XBPM” in the center of XFD-Display can bring up this BM source point display:

A screenshot of a computer

Description automatically generated

The “BPM – SR & XBPM” in the center of XFD-Display can bring up this ID source point display:

A screenshot of a computer

Description automatically generated