How-to Reboot an IOC from the Acclerator Facility HOME Display

To bring up the home display log onto the production server and type <facility>HOME& on an x-term, where facility is LCLS, FACET, XTA or ASTA. In the example below LCLSHOME is used.

Next click on the tab in the Network row for the machine area of interest. In this example the LTUH Network tab will be selected.
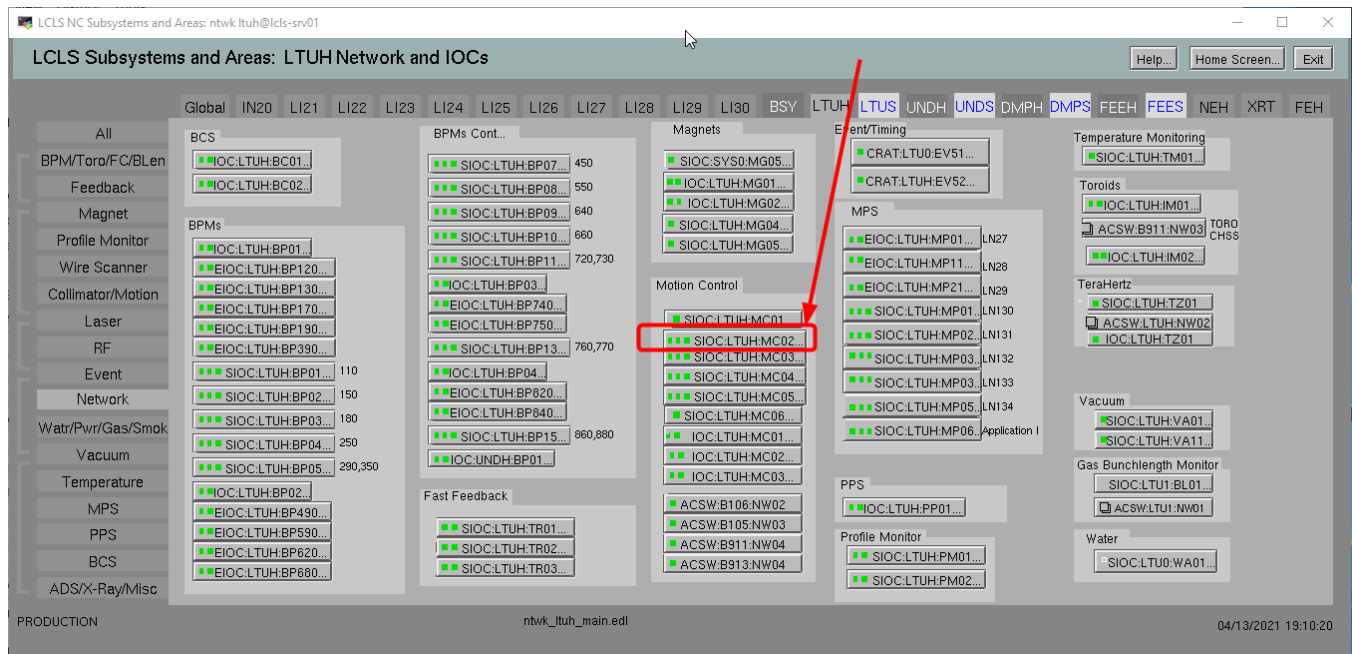
Once this tab is selected the following display will appear.

Ok Now let's select the button for the Motion Control IOC, sioc-ltuh-mc01, which will bring up the following display. You'll notice that for this IOC, we have running on a CPU associated with an ATCA Crate.

IOC Status - SIOC:LTUH:M... — ☐ ✕

IOC Status
SIOC:LTUH:MC02

[Home...] [Exit]

IOC

IOC Heartbeat Status	PRESENT
Heartbeat Errors in Last 20 Sec.	0
IOC Heartbeat	5218842
IOC Time of Day	04/13/2021 19:13:01
Time of Day Status	Synchronized
IOC Boot Time	02/12/2021 08:32:20
IOC Location	B913-0444
Engineer	Namrata Balakrishnan (namrata)
IOC Reboot	[Reboot...] [log]

[More IOC Stats...] [▇ Autosave] [▇ Seq stats]

IOC Information

Device controlled by this ioc (e.g. TCAV0)

WSDL31

Rebooting or power cycling this ioc will

CPU

Type	Advantech
CPU Name	☐ CPU:LTUH:SP01...
CPU Location	B105-0141
Power Status	On

[Power Off] [Power On] [log]

Crate/Chassis

Type	ATCA
Crate Name	☐ CRAT:LTUH:SP01:2...
Crate Location	B105-0124

PRODUCTION   04/13/2021 19:13:00
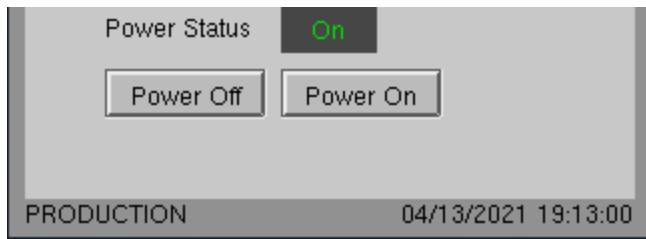
To reboot the IOC, select the "Reboot... " button and the following display will appear. On this display select the "Reboot Now!" button.   Notice that all buttons with "..." indicate that another display.
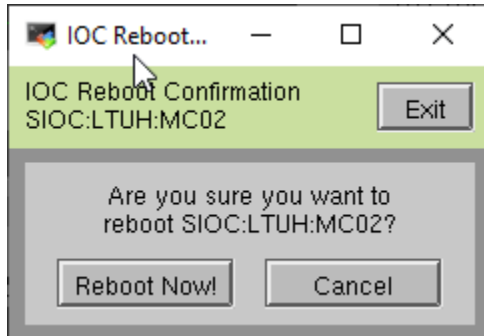
To view additional information for the CPU selec the "CPU-LTUH_SP01" button.

Home...   Exit

System Status and Control

Network   Online

Communication   Initialized   Connect ☐

Chassis Power   On

Power Off   Power On   *CPU boot-up process*
                        takes a couple minutes
                  Power Settings...

Manufacturer   Advantech

More HW Info...

Temperature Sensors

OUTLET-TMP	45.0 DegC
SYS0-TMP	32.0 DegC
SYS1-TMP	28.0 DegC
CPU-TMP	51.0 DegC
FB_INTAKE0-TMP	27.0 DegC
FB_INTAKE1-TMP	28.0 DegC
RISER-TMP	30.0 DegC

Voltages

PAY_12-VOL	12.1 V
PAY_5_0-VOL	5.0 V
PAY_5_0_SB-VOL	4.9 V
LOM_5_0-VOL	5.1 V
PAY_3_3-VOL	3.3 V
PAY_3_3_SB-VOL	3.3 V
LOM_3_3-VOL	3.3 V
BAT_3_0-VOL	3.1 V
LOM_1_5-VOL	1.5 V
LOM_1_26-VOL	1.3 V
PCH_1_05-VOL	1.0 V
CPU_VCORE-VOL	1.8 V
FB_12-VOL	11.9 V
FB_5_0-VOL	5.0 V
FB_3_3-VOL	3.3 V
FB_3_3_SB-VOL	3.3 V

Cooling Fans

FAN1-RPM	6700
FAN2-RPM	10300
FAN3-RPM	6800
FAN4-RPM	10400
FAN5-RPM	4800
FAN6-RPM	7800
FAN7-RPM	5000
FAN8-RPM	7600

Current Monitors

To view more details about the ATCA crate select the Crate button "CRAT:LTUH:SP01:2" Note that the 4the field of the crate PV indicates the ATCA Crate Number (e.g. 2).

ATCA crate - CRAT:LTUH:SP01:2@lcls-srv01 — □ ✕

ATCA Crate
CRAT:LTUH:SP01:2   Exit

System Status and Control

Network   Online   Chassis Power   On

Communication Initialized   Connect ☐   Power Down   Power Up   *Power up and re-init*
                                                                         takes 1-2 minutes
                                                Soft Shutdown   Info...

Crate Contents

                              Front   *Rear*

Shelf Mgr...   1   ATCA-9112

                    2   AMCC-KU040   LCLS-II GENERIC RTM

                    3   AMCC-KU040

                    4   AMCC-KU040

                    5   Fan Tray 1...

                                                                         Fan Tray 2...

Shelf FRU   6   AMCC-KU040
Info 1...

                    7   AMCC-KU040   LCLS-II FWS RTM