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.

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Source		Des	tinatior	ı														1							Applications
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Once this tab is selected the following display will appear.

K LCLS NC Subsystems and A	Areas: ntwk ltuh@lcls-srv01		Ν		- 🗆 X						
LCLS Subsystem	LCLS Subsystems and Areas: LTUH Network and IOCs										
All BPM/Toro/FC/BLen Feedback Magnet Profile Monitor Wire Scanner Collimator/Motion Laser RF Event	Global IN20 LI21 LI22 LI2 BCS • OC:LTUHBC01. • OC:LTUHBC02. BPMs • OC:LTUHBP10 • EIOC:LTUHBP10 • EIOC:LTUHBP130 • EIOC:LTUHBP130 • EIOC:LTUHBP30 • EIOC:LTUHBP30	3 L124 L125 L126 L127 L BPMs Cont	128 L129 L130 BSV L Magnets SIOC:SVS0:MG05	TUH LTUS UNDH UNDS DMPH 0 e ent/Timing CRAT:LTU0:EV51 CRAT:LTUH:EV52 MPS •EIOC:LTUH:MP01 LN27 •EIOC:LTUH:MP01 LN28 •EIOC:LTUH:MP01 LN29 •SIOC:LTUH:MP01 LN29 •SIOC:LTUH:MP01 LN29 •SIOC:LTUH:MP01 LN29 •SIOC:LTUH:MP01 LN29 •SIOC:LTUH:MP01 LN29 •SIOC:LTUH:MP01 LN29 •SIOC:LTUH:MP01 LN130 •SIOC:LTUH:MP01 LN130 •SIOC:LTUH:MP01 LN130 •SIOC:LTUH:MP01 LN130 •SIOC:LTUH:MP01 LN130 •SIOC:LTUH:MP01 LN130 •SIOC:LTUH:MP01 LN130 •SIOC:LTUH:MP01 LN130 •SIOC:LTUH:MP01 LN130 •SIOC:LTUH:MP01 •SIOC	Heip Hume Screen Exit DMPS FEEH FEES NEH XRT FEH Temperature Monitoring SIOC/LTUHTM01 Toroids SIOC/LTUHTM01 Toroids Image: SiOC/LTUHTM01 CHS Toroids Toroids SIOC/LTUHTM02 Image: SiOC/LTUHTM02 TeraHertz SIOC/LTUHTM02 TeraHertz SIOC/LTUHTM02 Image: SIOC/LTUHTZ01 ACSW/LTUHTNW02 Image: SIOC/LTUHTZ01 ACSW/LTUHTNW02						
Network Watr/Pwr/Gas/Smok Vacuum Temperature MPS PPS BCS ADS/X-Ray/Misc	•• SIOC:LTUH:BP02 150 •• SIOC:LTUH:BP03 180 •• SIOC:LTUH:BP04 250 •• SIOC:LTUH:BP05 290,350 •• IOC:LTUH:BP02 100 •• EIOC:LTUH:BP05 290,350 •• EIOC:LTUH:BP02 100 •• EIOC:LTUH:BP02 100 •• EIOC:LTUH:BP02 100 •• EIOC:LTUH:BP02 100 •• EIOC:LTUH:BP03 100	EIOC.LTUH-BP820 SIOC.LTUH-BP820 SIOC.LTUH-BP15 Fast Feedback SIOC.LTUH-TR01 SIOC.LTUH-TR01 SIOC.LTUH-TR03	SIOCLTUH-MC05 SIOCLTUH-MC05 SIOCLTUH-MC05 IOCLTUH-MC01 IOCLTUH-MC03 IOCLTUH-MC03 ACSW:B106:NW02 ACSW:B106:NW02 ACSW:B11:NW04 ACSW:B913:NW04	SIOC:LTUH:MP03_LNI33 SIOC:LTUH:MP05_LNI34 SIOC:LTUH:MP06_Application 1 PPS MOC:LTUH:PP01 Profile Monitor SIOC:LTUH:PM01 SIOC:LTUH:PM02	Vacuum SIOC:LTUH:VA01. SIOC:LTUH:VA01. SIOC:LTUH:VA01. Gas Bunchlength Monitor SIOC:LTU1:BL01. ACSW:LTU1:NV01 Water SIOC:LTU0:WA01						
PRODUCTION		ntwk_ltuh_main.edl			04/13/2021 19:10:20						

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.

NOC 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
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
Туре АТСА
Crate Name 🔲 CRAT:LTUH:SP01:2
Crate Location B105-0124

Power Status	On
Power Off	Power On
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.

NOC Reboot		×
IOC Rebool Confirmation SIOC:LTUH:MC02		Exit
Are you sure you w reboot SIOC:LTUH:N Reboot Now!	vant to MC02? Cancel	

To view additional information for the CPU selec the "CPU-LTUH_SP01" button.

Advantech CPU:LTUH:SP01	B105-0141	ß		Home Exit
System Status and	Control			
Network	Online		Manu	afacturer Advantech
Communication	Initialized Conn	ect 🗆		More HW Info
Chassis Power	On			
Power Off	Power On cPU by	oot-up process		
		Power Settings		
Temperature Sensors	β	Voltages	_	Cooling Fans
OUTLET-TMP	45.0 DegC	PAY 12-VOL	12.1 V	EAN1-RPM 6700
SYS0-TMP	32.0 DegC	PAY_5_0-VOL	5.0 V	FAN2-RPM 10300
SYS1-TMP	28.0 DegC	PAY_5_0_SB-VOL	4.9 V	FAN3-RPM 6800
CPU-TMP	51.0 DegC	LOM_5_0-VOL	5.1 V	FAN4-RPM 10400
FB_INTAKE0-TMP	27.0 DegC	PAY_3_3-VOL	3.3 V	FAN5-RPM 4800
FB_INTAKE1-TMP	28.0 DegC	PAY_3_3_SB-VOL	3.3 V	FAN6-RPM 7800
RISER-TMP	30.0 DegC	LOM_3_3-VOL	3.3 V	FAN7-RPM 5000
		BAT_3_0-VOL	3.1 V	FAN8-RPM 7600
		LOM_1_5-VOL	1.5 V	
		LOM_1_26-VOL	1.3 V	
		PCH_1_05-VOL	1.0 V	Current Monitors
		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	
PRODUCTION				04/13/2021 19:22:00

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).

KATCA crate - CRAT:LTUH:SP01:20	@lcls-srv01		_		×
ATCA Crate CRAT:LTUH:SP01:2	Ь <u>З</u>		Exit		
System Status and Control			_		1
Network		Chassis Power On			l
Communication	d Connect	Power Down Power Up Power 1	up and re-init -2 minutes		
		Soft Shutdown	Info		
Crate Contents					
	Front	Rear	1		
Shelf Mgr 1	ATCA-9112				
2	AMCC-KU040	LCLS-II GENERIC RTM			
3	AMCC-KU040				
4	AMCC-KU040				
5			Fan Tray 1.		
Shelf FRU Info 1	AMCC-KU040		Fan Tray 2.	·]	
7	AMCC-KU040	LCLS-II FWS RTM			