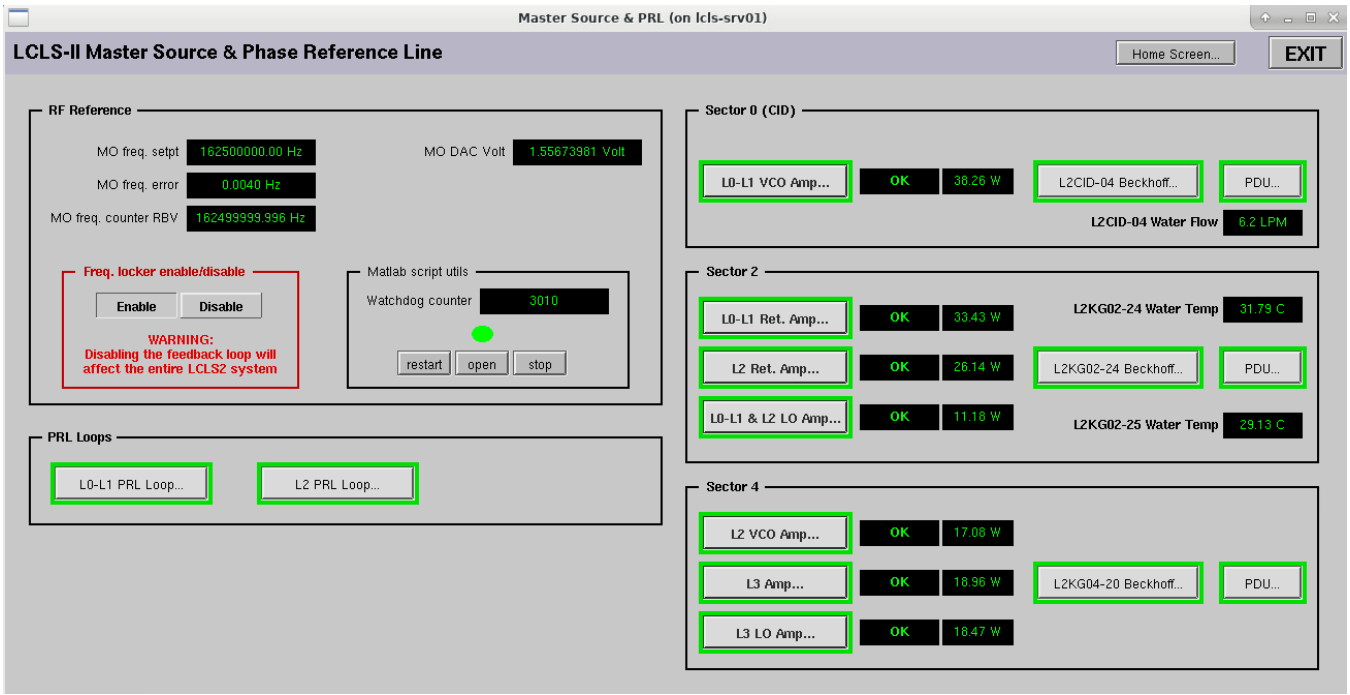
Displays

Contents

MS/PRL main screen

Location: lclshome (SC) --> RF/Global --> Phase Reference Line

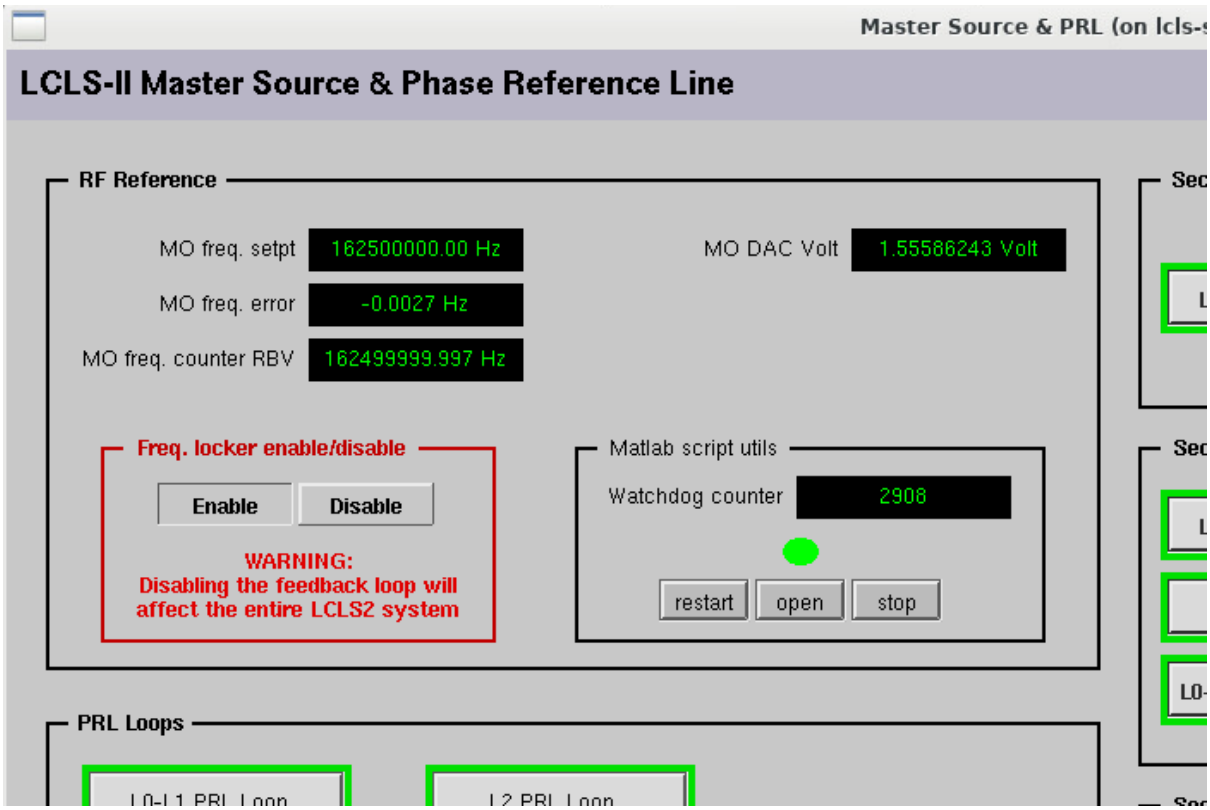


RF Reference (MO Locker)

Location: lclshome (SC) --> RF/Global --> Phase Reference Line

Description: Frequency counter and MO locker matlab script

- Freq locker Enable/Disable button should be set to "Enable"
- MO freq setpoint should be 162.5 MHz
- MO freq error should be < ~1 Hz
- Matlab script LED should be green
- All PVs should be in NO_ALARM state
- For help, refer to Troubleshooting page

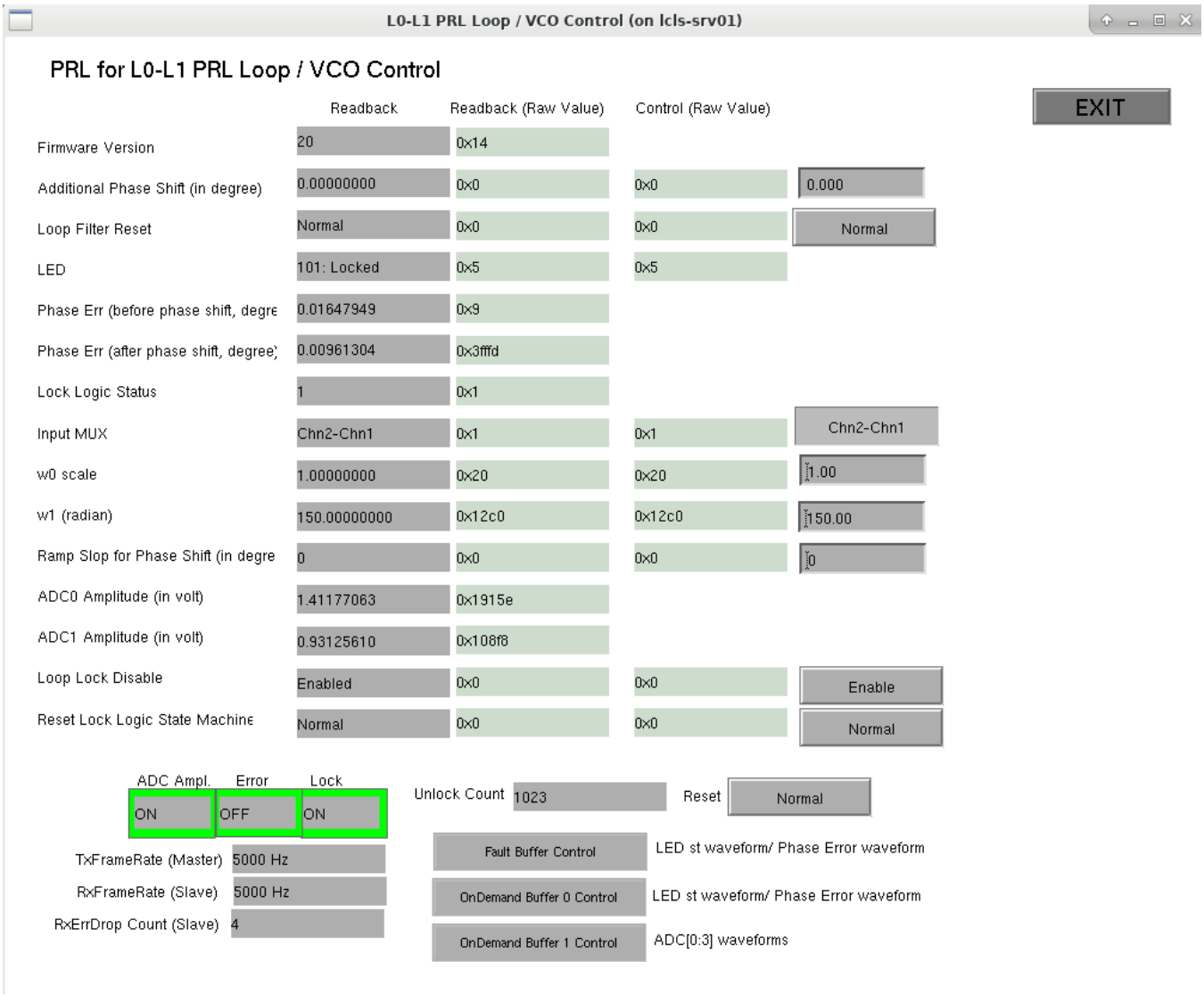


PRL Loops

Location: lclshome (SC) --> RF/Global --> Phase Reference Line --> L0-L1 PRL Loop...(etc.)

Description: Phase Reference Line feedback loops

- ADC Ampl = ON, Error = OFF, Lock = ON
- LED PV should read "101: Locked"
- Tx/Rx frame rates should be ~5000'
- Loop Lock Disable should be "Enabled"
- All PVs should be in NO_ALARM state
- For help, refer to Troubleshooting page

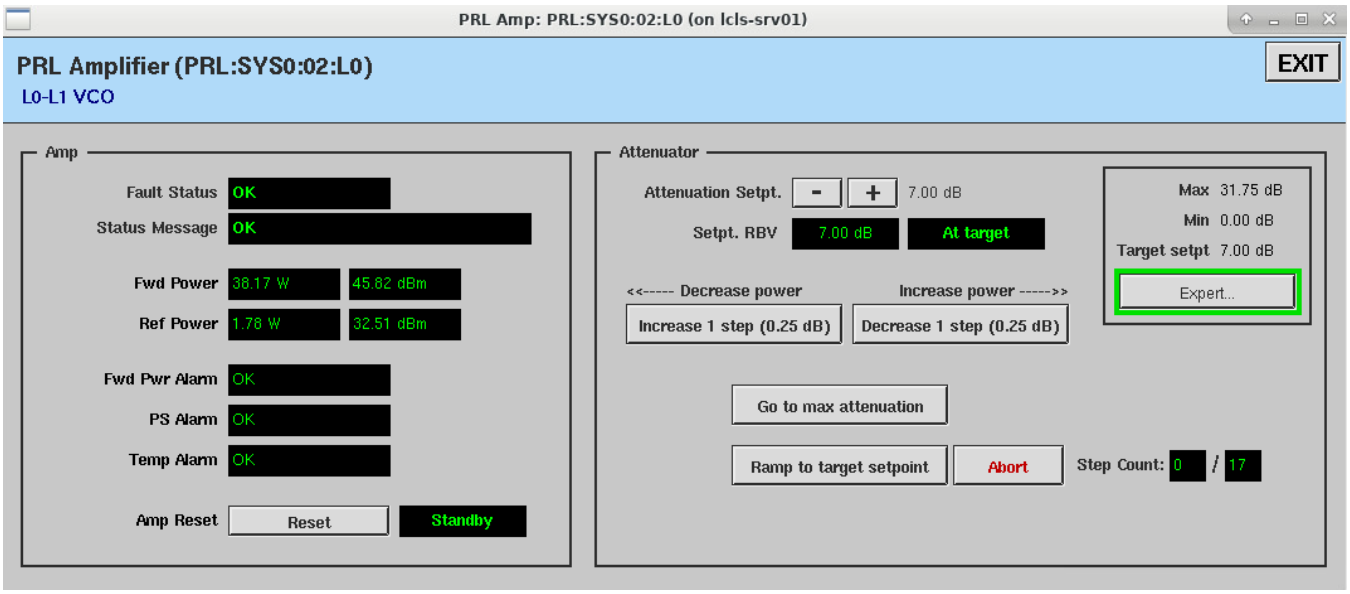


PRL Amps/Attenuators

Location: lclshome (SC) --> RF/Global --> Phase Reference Line --> L0-L1 VCO Amp...(etc.)

Description: Phase Reference Line power amplifiers and digital attenuators

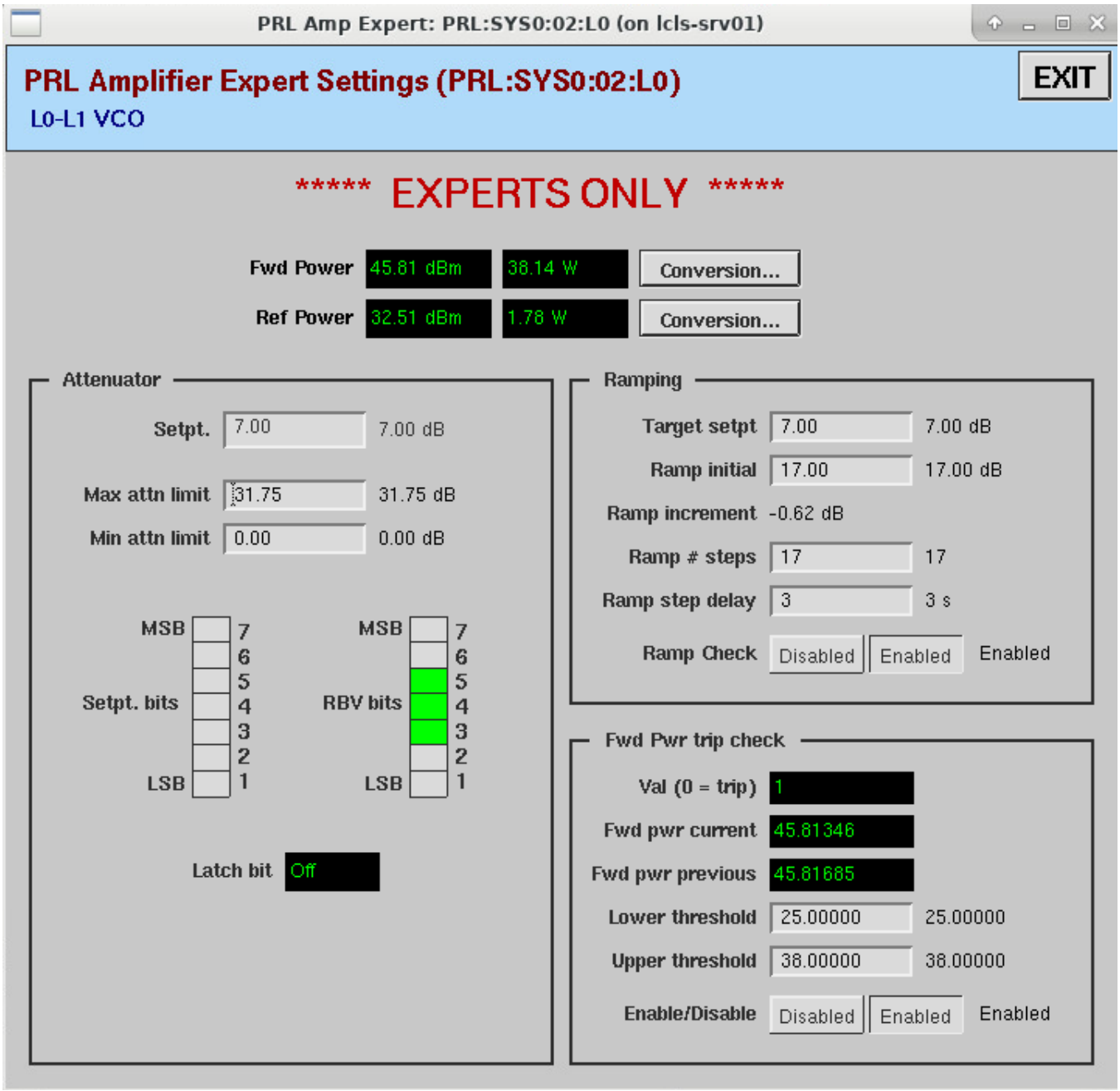
- Fault status and status message should be "OK"
- Amp alarms should read "OK"
- Setpt. RBV should read "At target"
- Amp Reset should be in "Standby"
- For help, refer to Troubleshooting page



Amp/Attenuator Expert Screen

Location: lclshome (SC) --> RF/Global --> Phase Reference Line --> L0-L1 VCO Amp...(etc.) --> Expert...

Description: Power amplifier and digital attenuator expert controls

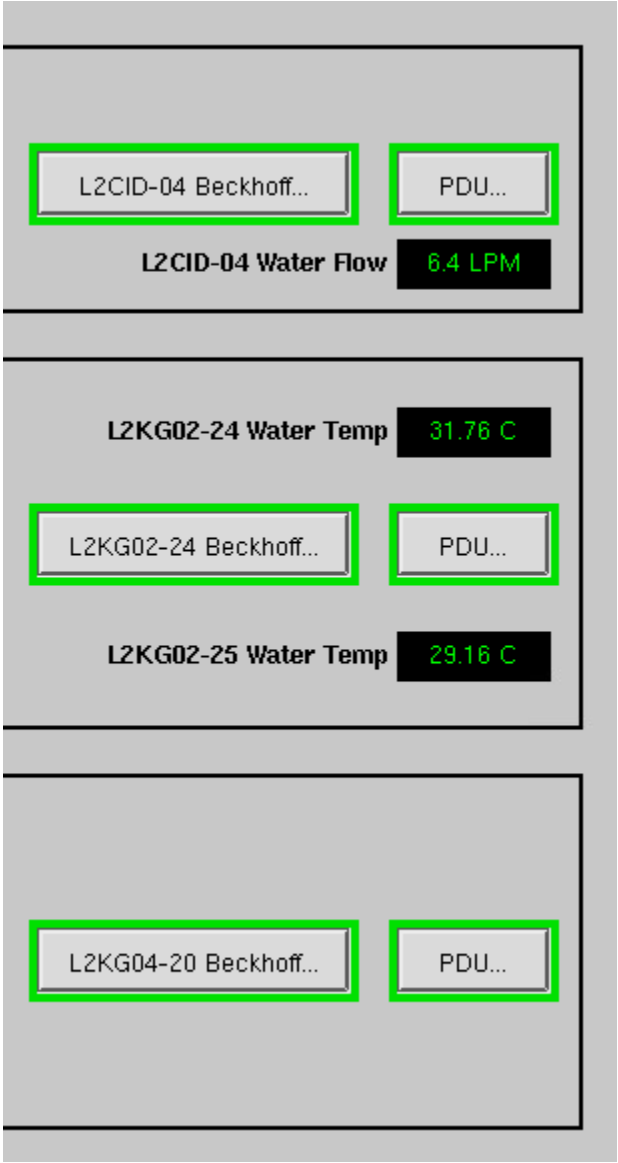


Water/Temp/Misc

Location: lclshome (SC) --> RF/Global --> Phase Reference Line

Description: Beckhoff low-level displays, rack water & temperature, PDUs for amp AC power etc.

- Occassionally PDU alarm PVs will be INVALID (purple) because of a hardware problem. This should not affect PRL functionality.
- All other PVs should be in NO_ALARM state


L2CID-04 Beckhoff...
PDU...
L2CID-04 Water Flow
6.4 LPM
L2KG02-24 Water Temp
31.76 C
L2KG02-24 Beckhoff...
PDU...
L2KG02-25 Water Temp
29.16 C
L2KG04-20 Beckhoff...
PDU...