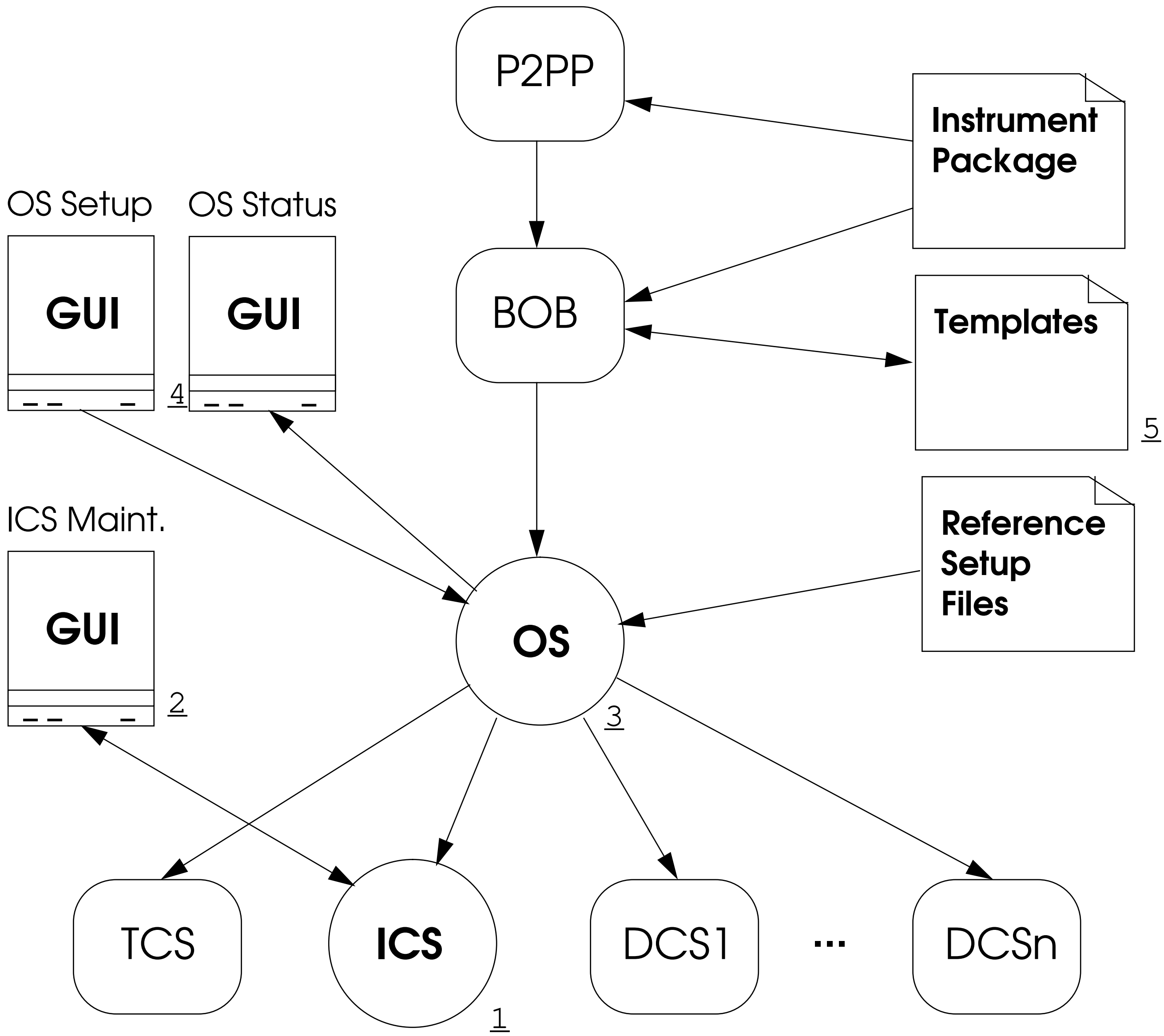
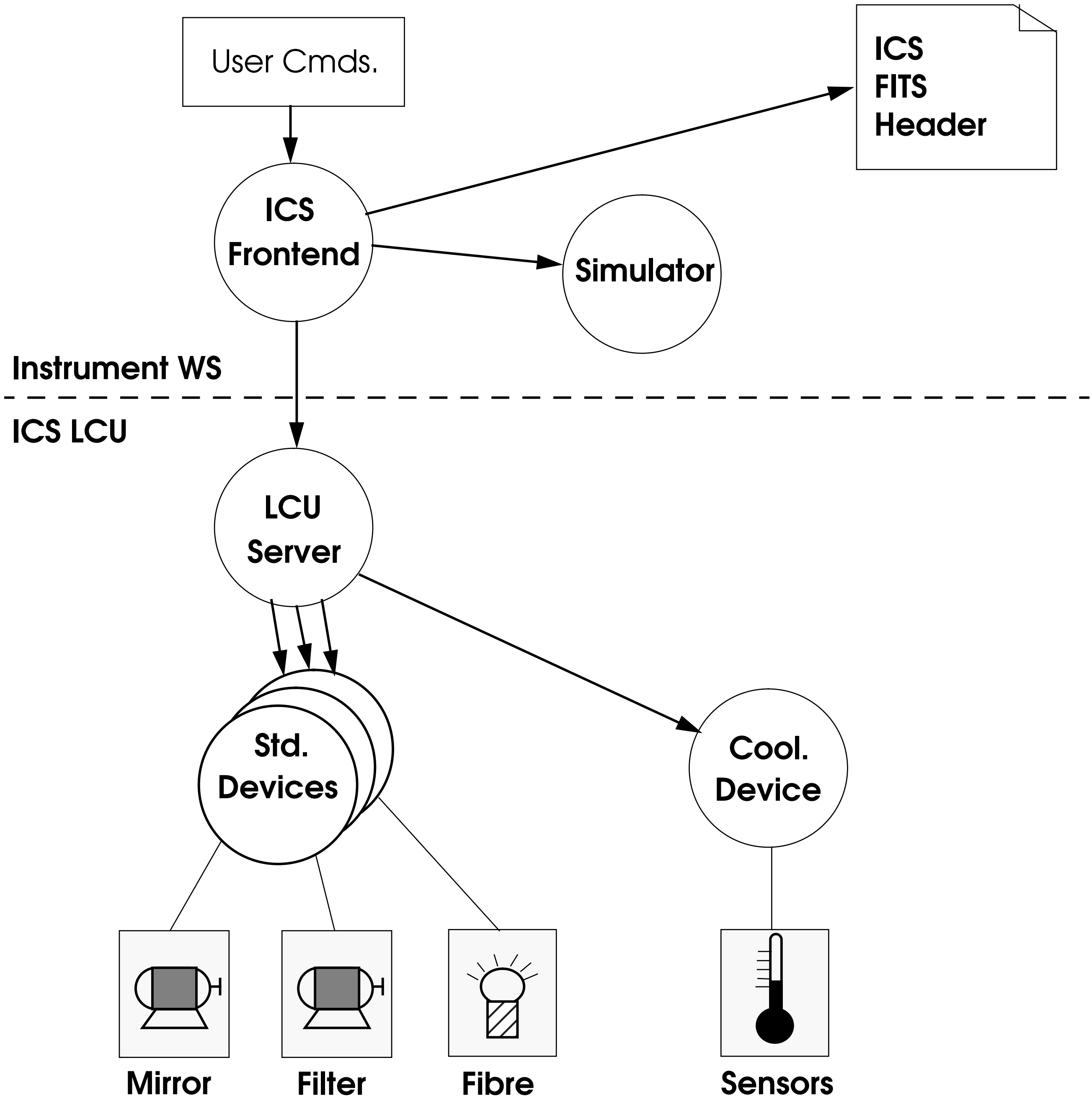
Overview


P2PP
Instrument Package
OS Setup
OS Status
GUI
GUI
4
BOB
Templates
5
ICS Maint.
GUI
2
Reference Setup Files
OS
3
TCS
ICS
1
DCS1
...
DCSn

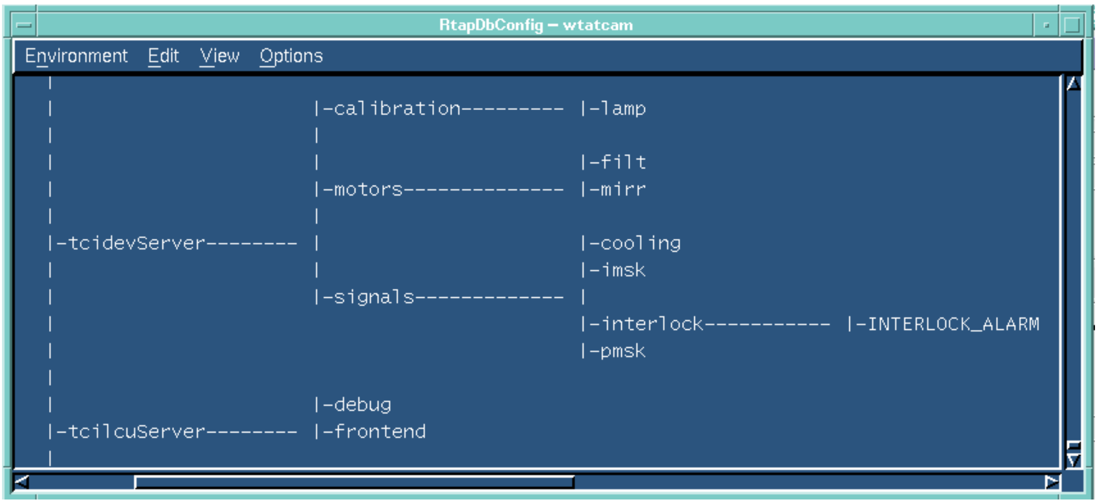
ICS


User Cmds.
ICS
FITS
Header
ICS
Frontend
Simulator
Instrument WS
ICS LCU
LCU
Server
Std.
Devices
Cool.
Device
Mirror
Filter
Fibre
Sensors

ICS Functions

Pick-up mirror assembly
Filter wheel
Reference light fibre
Pupil plane and image plane mask
Cooling controller, alarm signals

ICS Database



Device States -> ICS State

- Off, Loaded
- Standby
- Online

Device modes

- Simulation/Normal
- Enabled/Disabled
- Available/Not available.

Commands

- Mainly standard commands are used:

State cmds: OFF, STANDBY, ONLINE.
Mode cmds: SIMULAT, STOPSIM, ...
Operation: SETUP, STATUS, STOP, STATE.
Test cmds.: SETUP (TURN keyw.), GETCONF.

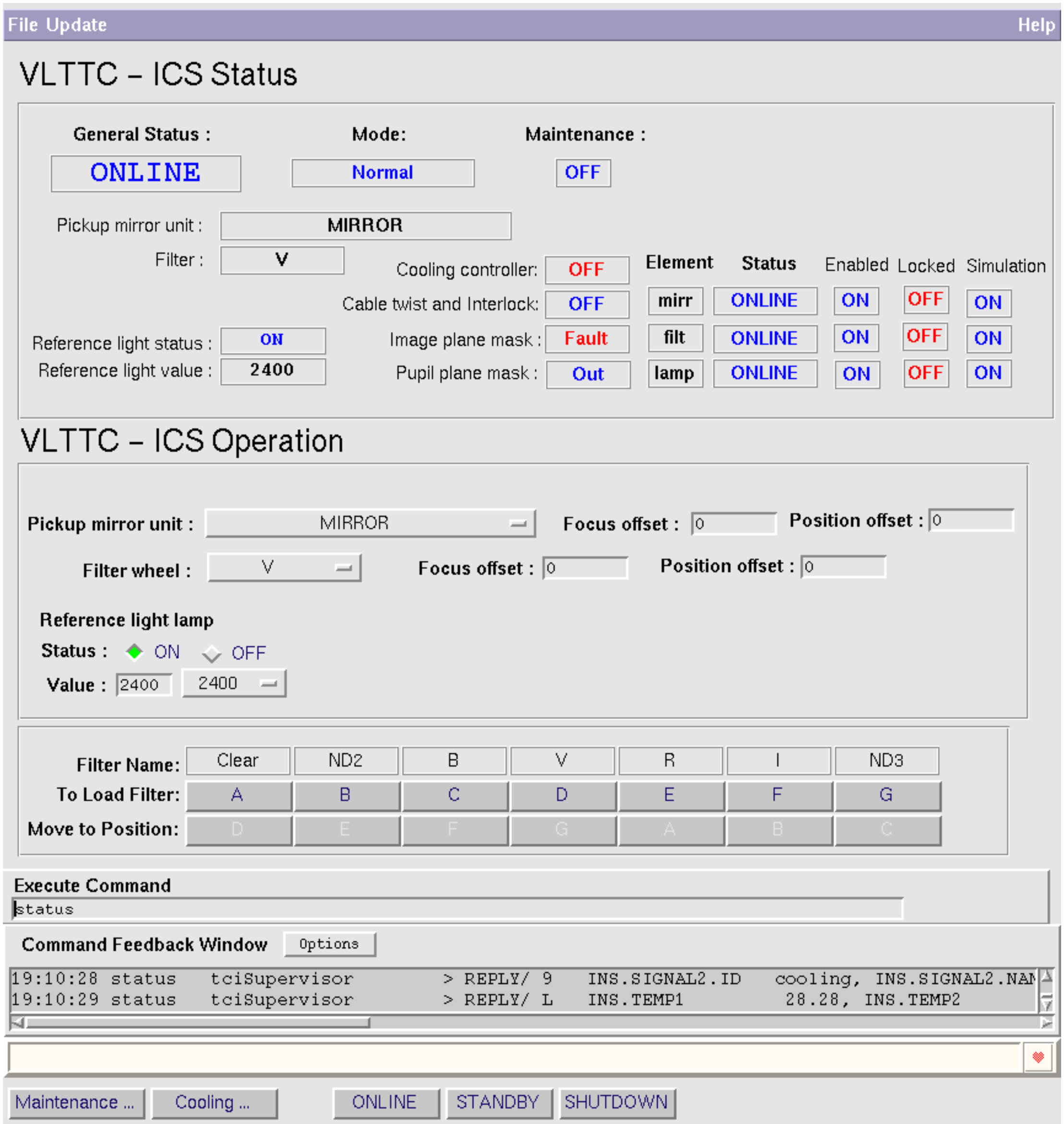
- Meaning of parameter `-function all':

only applicable devices, e.g.:
STATUS -function all:
all available, enabled devices,
at least in state Standby.

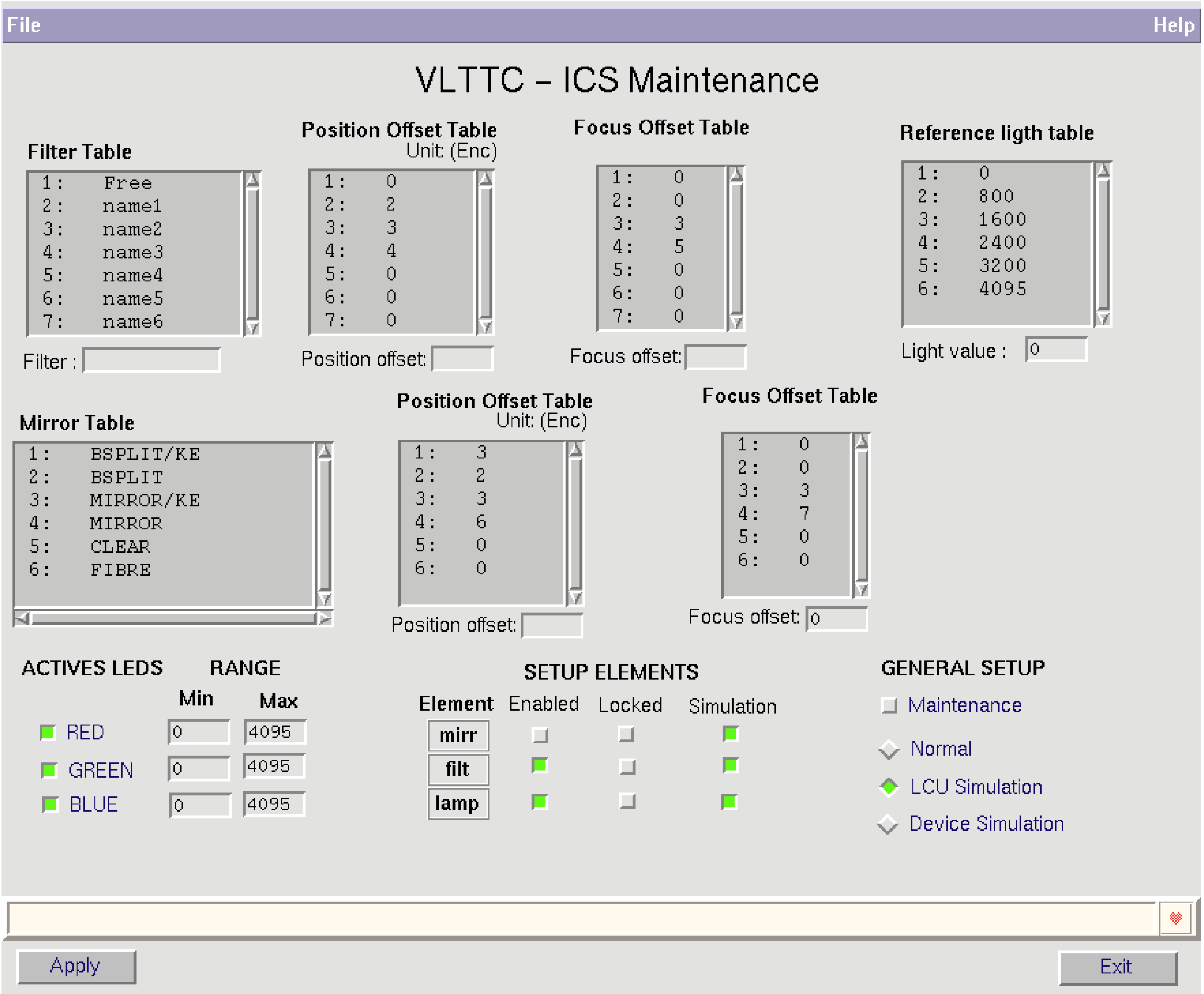
Configuration

- Saved in a OLDB backup file(s).

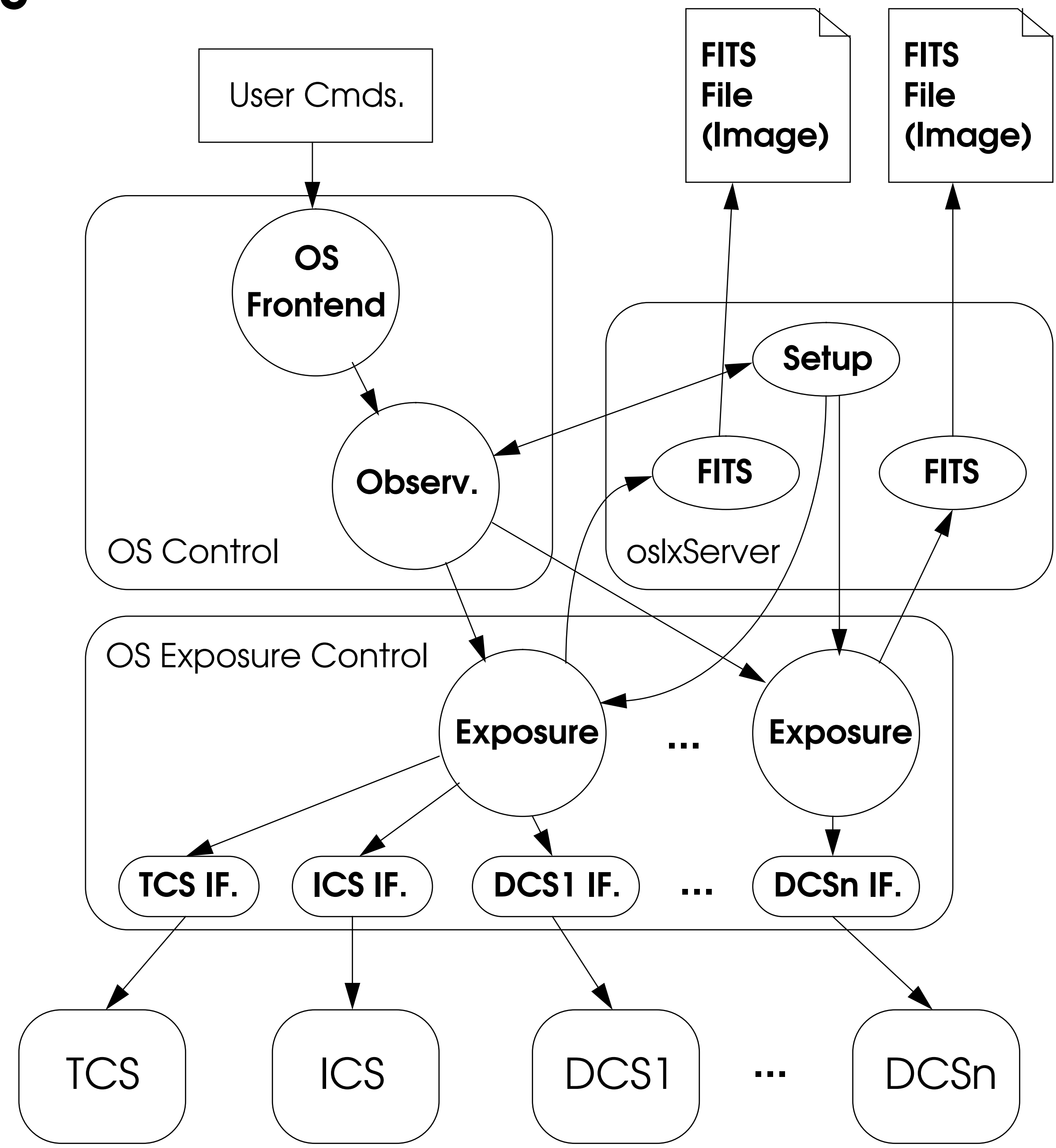
ICS User Interface



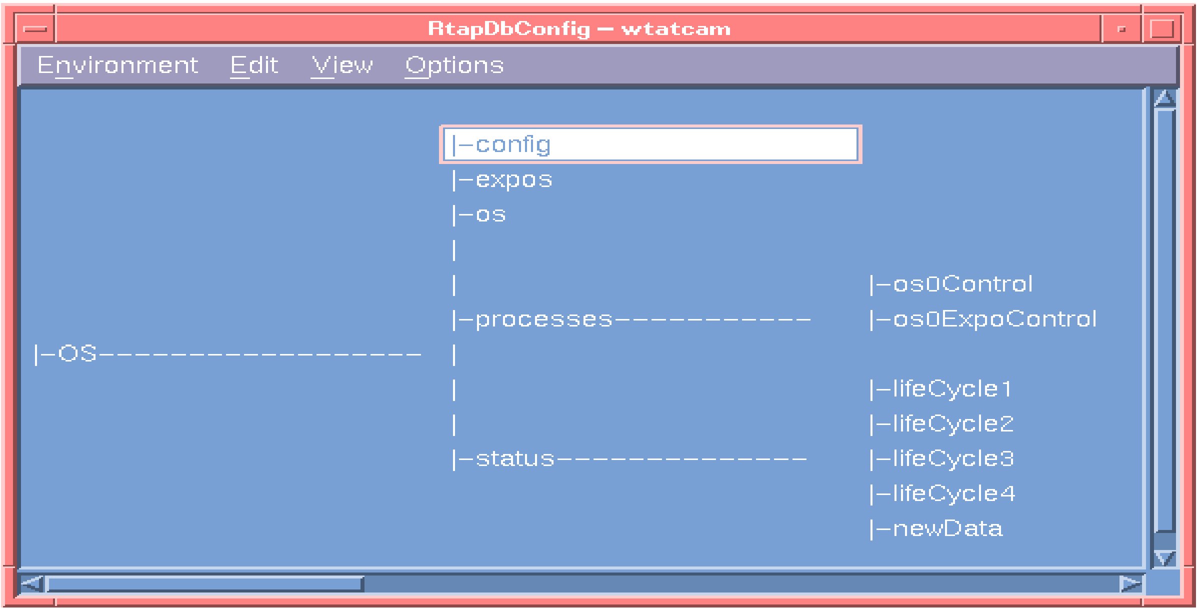
ICS Maintenance Panel



OS


FITS
File
(Image)
FITS
File
(Image)
User Cmds.
OS
Frontend
Setup
Observ.
FITS
FITS
OS Control
oslxServer
OS Exposure Control
Exposure
...
Exposure
TCS IF.
ICS IF.
DCS1 IF.
...
DCSn IF.
TCS
ICS
DCS1
...
DCSn

OS Database



OS Subsystem Table

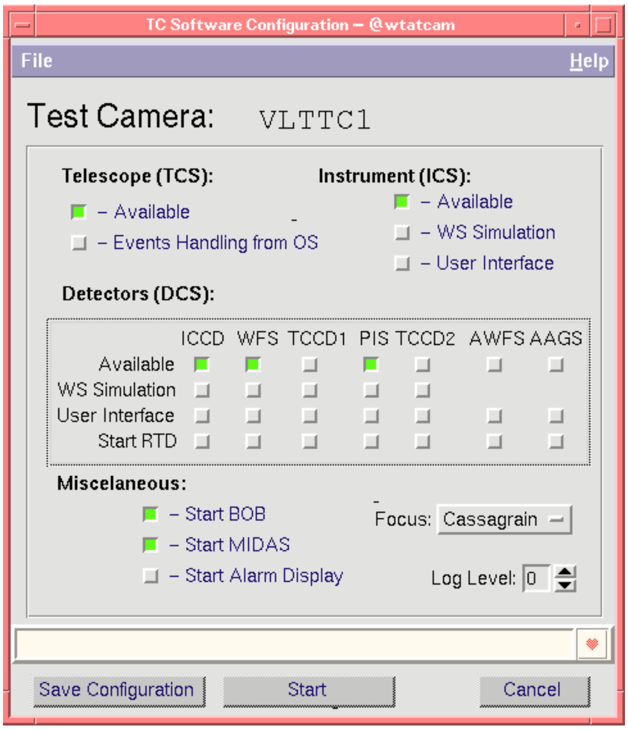
: [<alias>P316.subsystems]

me	type	local	timeout	detId	detName	filterName	insRoot	fitsIndex	available	simulation	panel	rtd	user
)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
S	TCS	1	180000			TCS		0	0	0	0	0	
S	ICS	1	180000			TC_ICS		0	1	1	0	0	
CD	DCS	1	10000	ICCD	ccdTaF1	TC_F1		1	1	1	0	0	I
S	DCS	1	10000	WFS	ccdTaWF	TC_WF		3	1	1	0	0	T
S	DCS	1	10000	PIS	ccdTaPI	TC_PI		7	1	1	0	0	T
CD1	DCS	1	10000	TCCD1	ccdTaWF	TC_TCCD1		5	0	0	0	0	T
CD2	DCS	1	10000	TCCD2	ccdTaPI	TC_TCCD2		6	0	0	0	0	T
GS	DCS	0	10000	AAGS	ccdagc	TC_AG		4	0	0	0	0	T

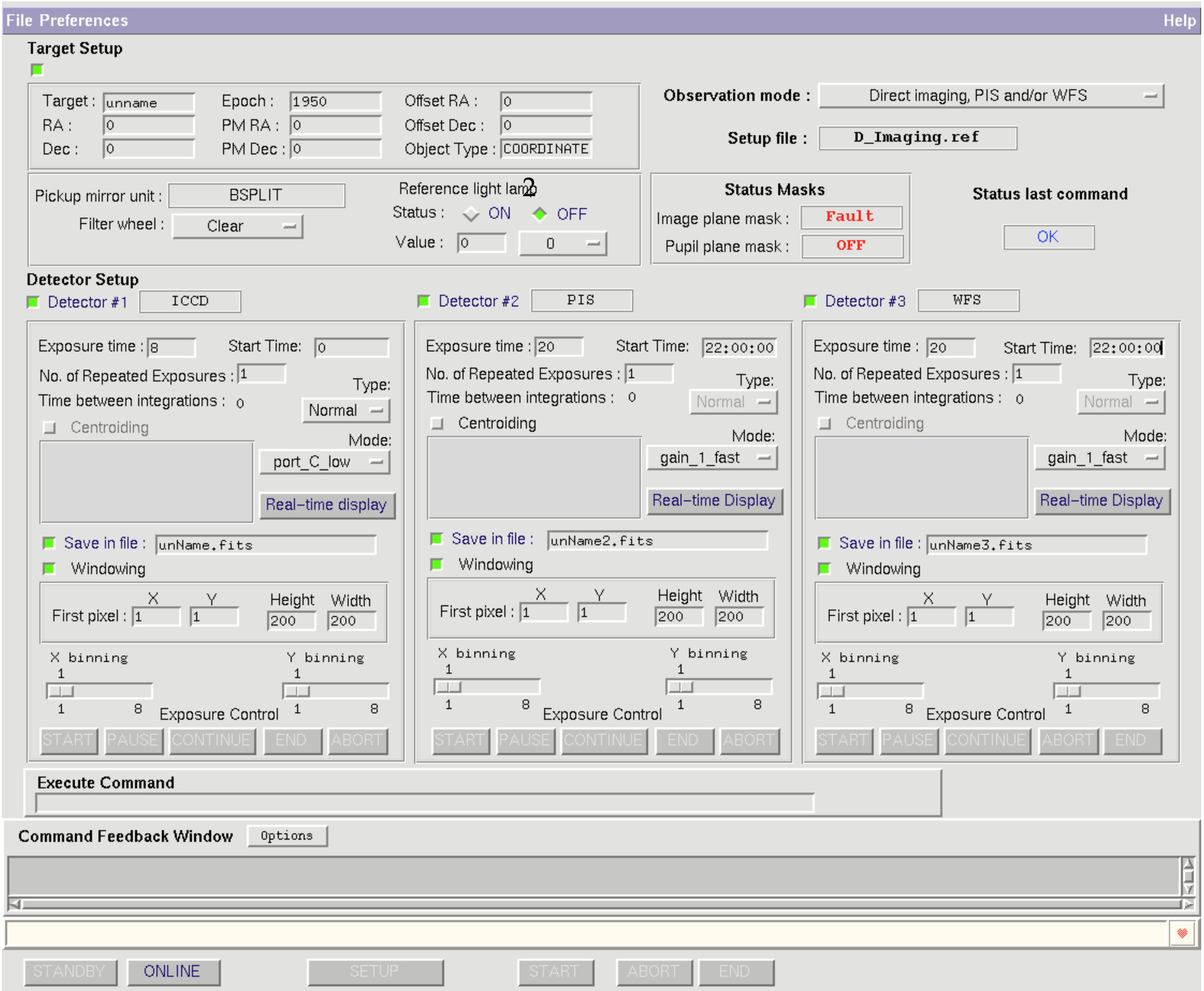
OS States

- Only std. states: OFF, STANDBY, ONLINE.

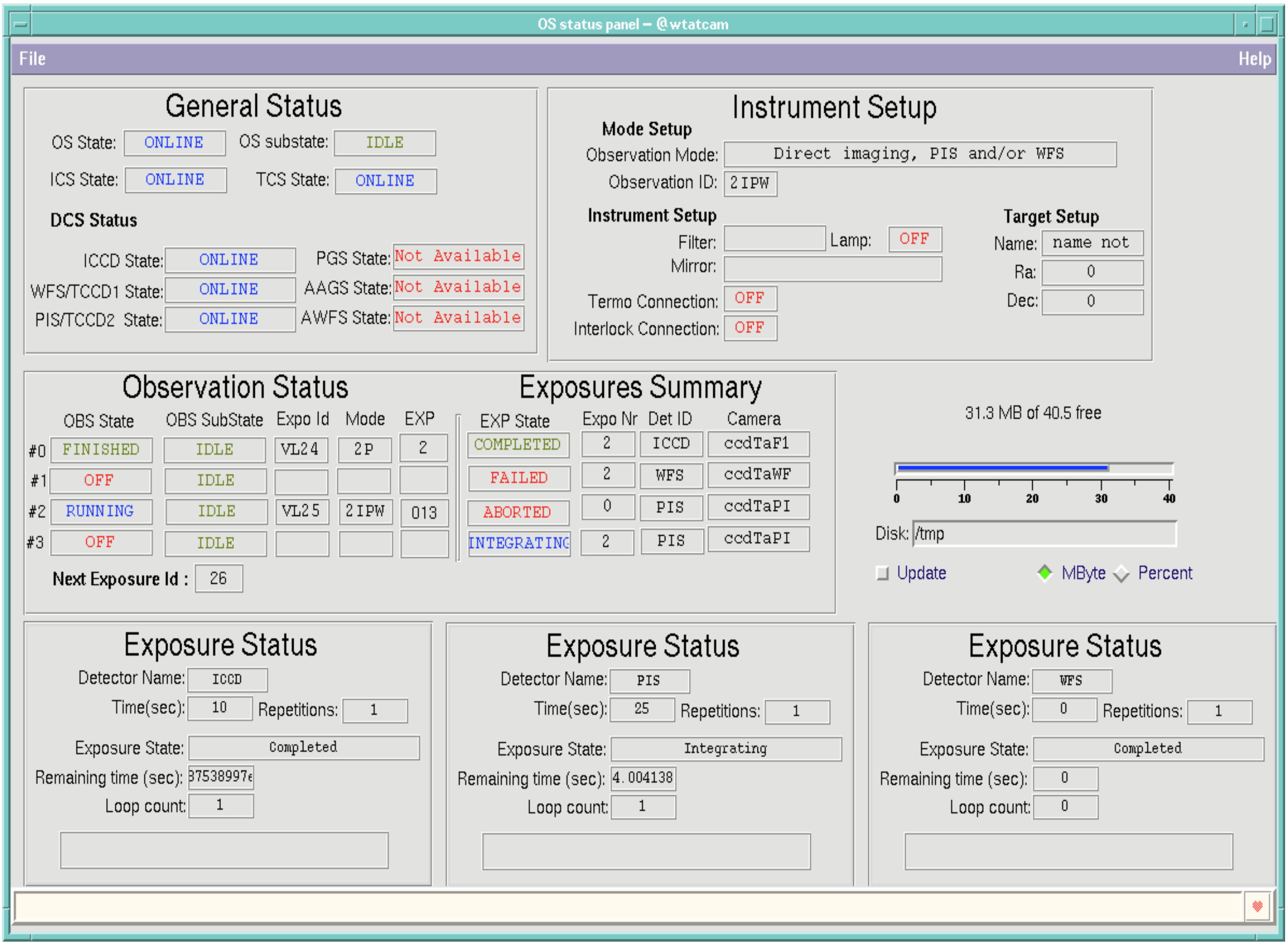
Startup panel



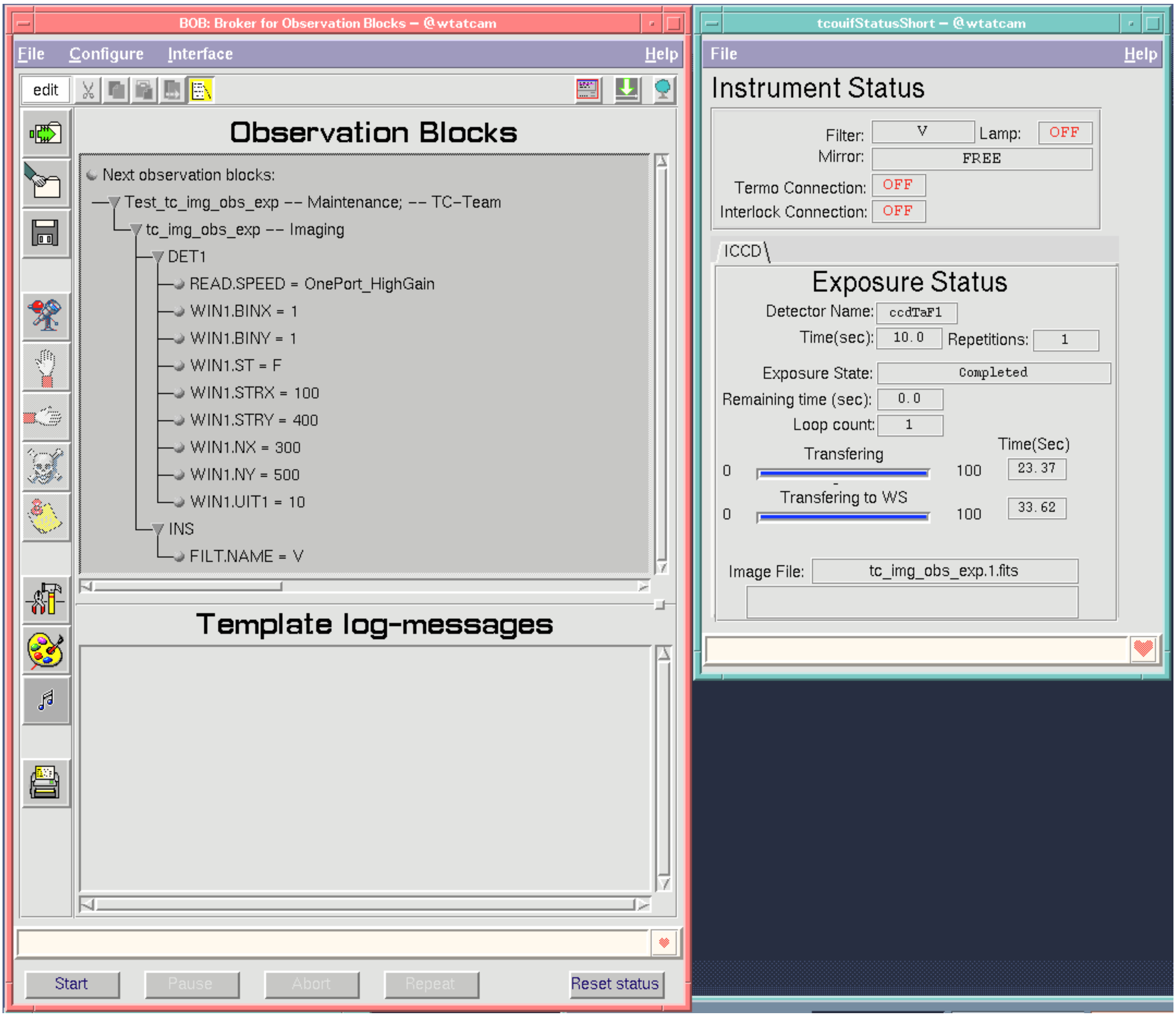
OS Setup Panel



OS Status Panel



BOB and Instrument Status



Templates

- Instrument Package:
  Instrument summary file
  Template signature files

- Templates
  Template signature file
  Template sequencer script
  Reference setup file
  Test OB

- Template library
  Interface classes (itcl): OBS, TCS, DCS, ICS.
  User interface functions.

Software modules

- ICS

  tcidev: Instrument functions
  tcilcu: ICS LCU frontend
  tci: ICS workstation (frontend, simulator)

- OS

  tco: OS config.
  (reuses EMMI os0 implementation).

- User Interfaces

  tciuif: ICS user interfaces
  tcouif: OS user interfaces

- Templates

  tctobs: Instrument package
  tcbobs: Template implementation
  tcblib: Template libraries

tcins: Integration module