Consumer Monitors

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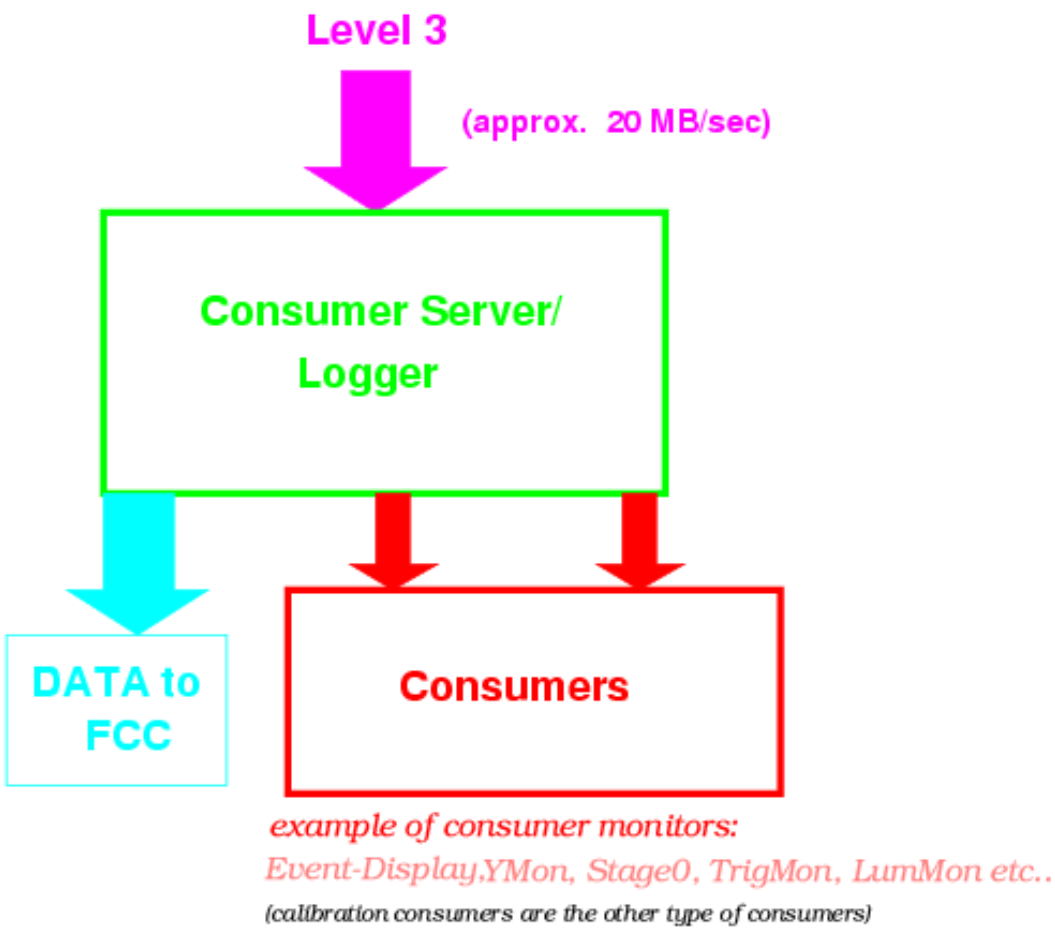
- Consumer Framework Overview
- Consumer Operation at Control Room

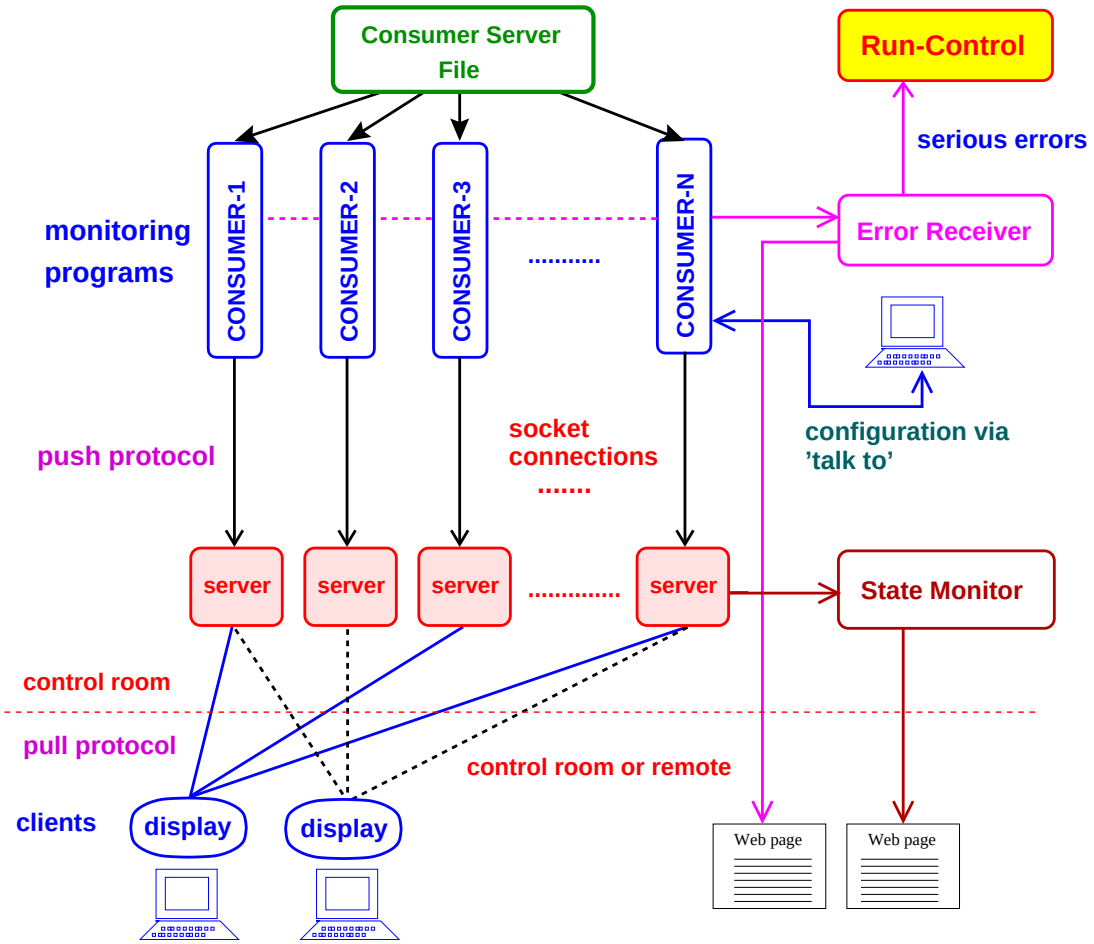
CDF RUN II Consumer Home Page
http://www-cdfonline.fnal.gov
/consumer/home/consumer_home.html

How consumers get data?



1. **Level 3**
   - **Final level of event filtering.**
2. **Consumer Server / Logger (CSL)**
   - **Writes events passing Level 3 to disk.**
   - **Serves events to consumers.**

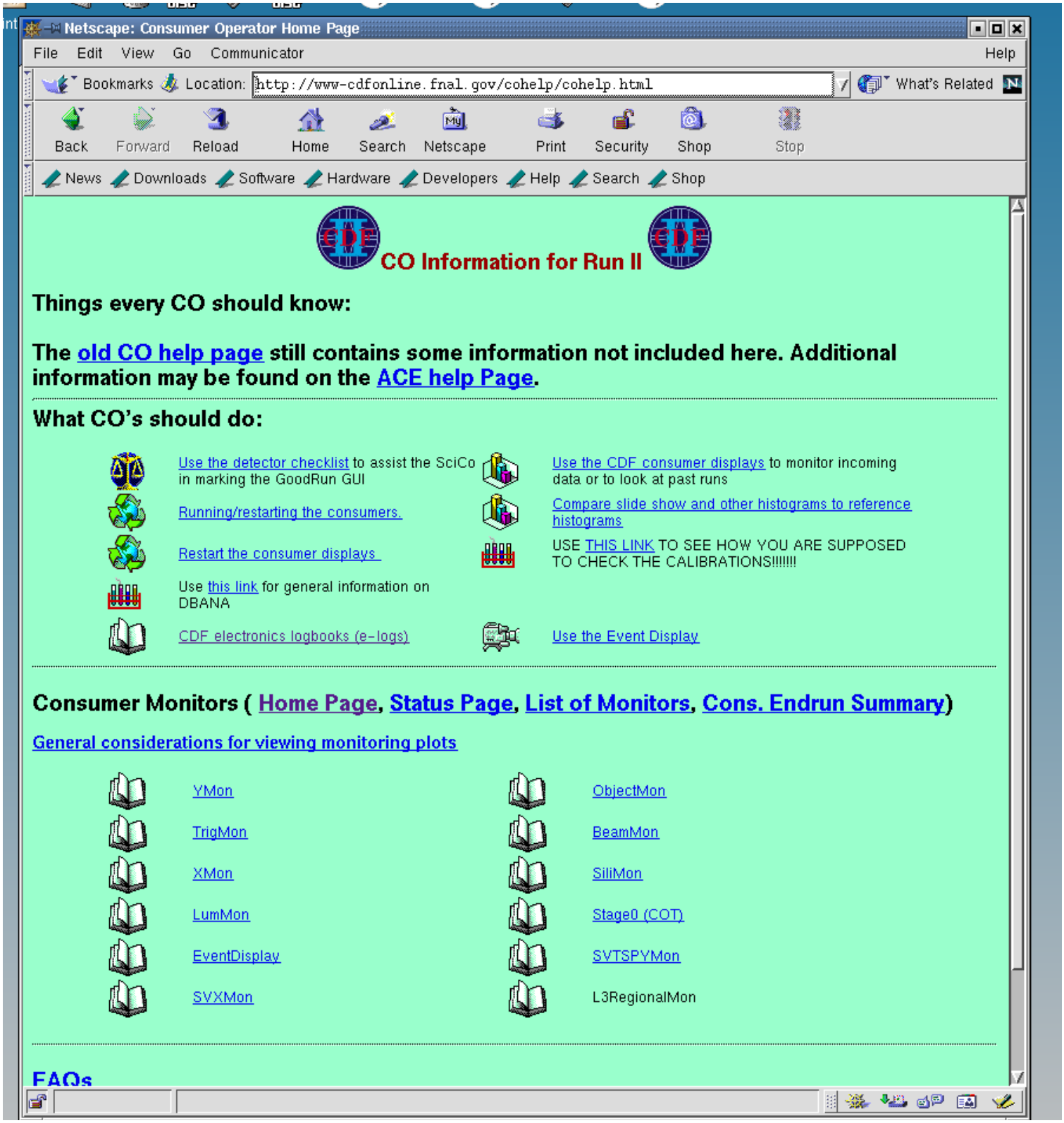
Consumer Framework Components



1. **Consumer**
   - Analyse and monitor the event data from CSL.
   - Send error messages to the error receiver.
2. **Server**
   - Receives ROOT objects from consumer via socket.
   - Reports the status of consumers to the state manager.
3. **Display (HistoDisplay)**
   - Receives ROOT objects from server via socket.
   - Updates objects (histograms, tables, etc.) on canvas.

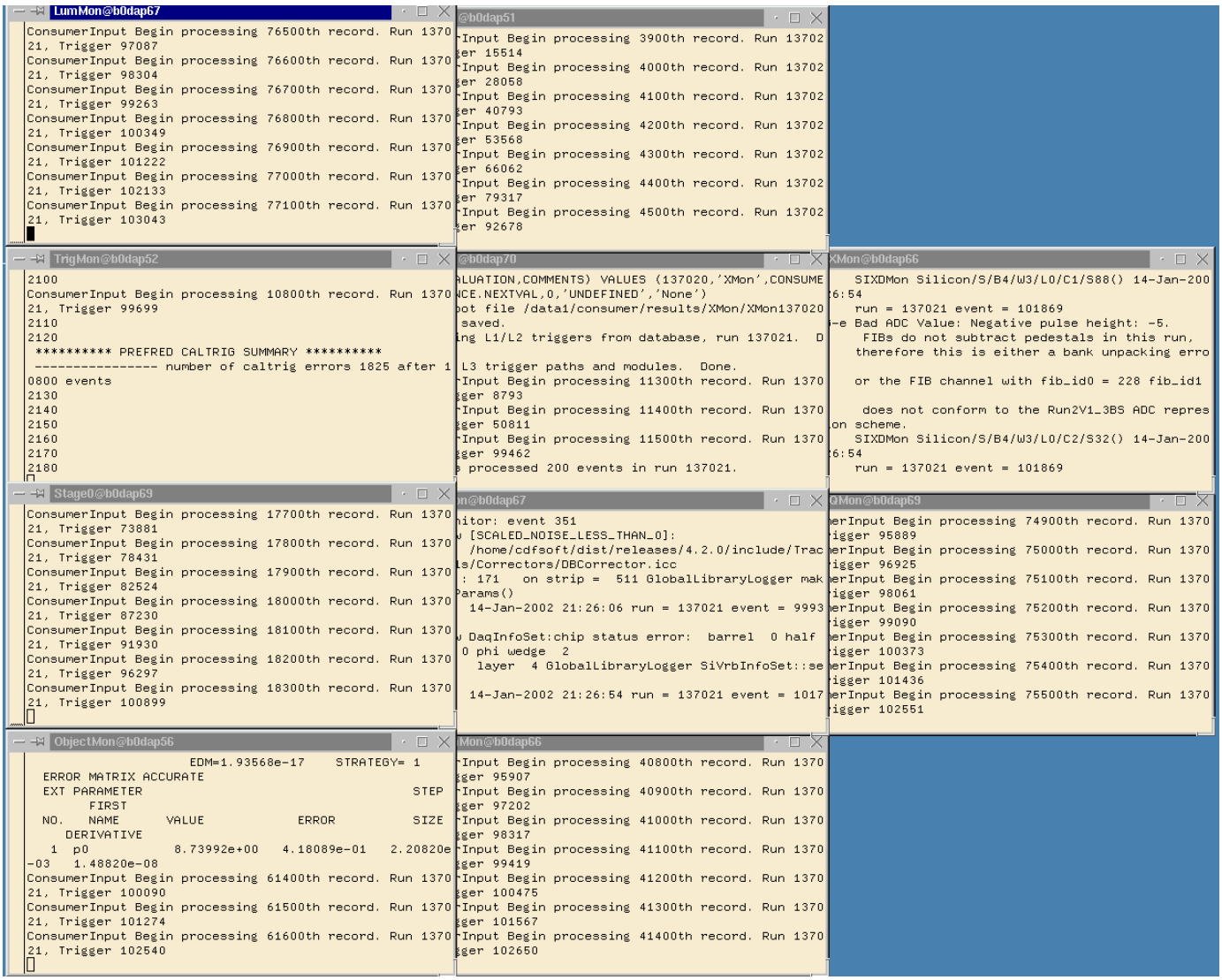
CO Help Page

http://www-cdfonline.fnal.gov/cohelp/cohelp.html



How to start consumer monitors

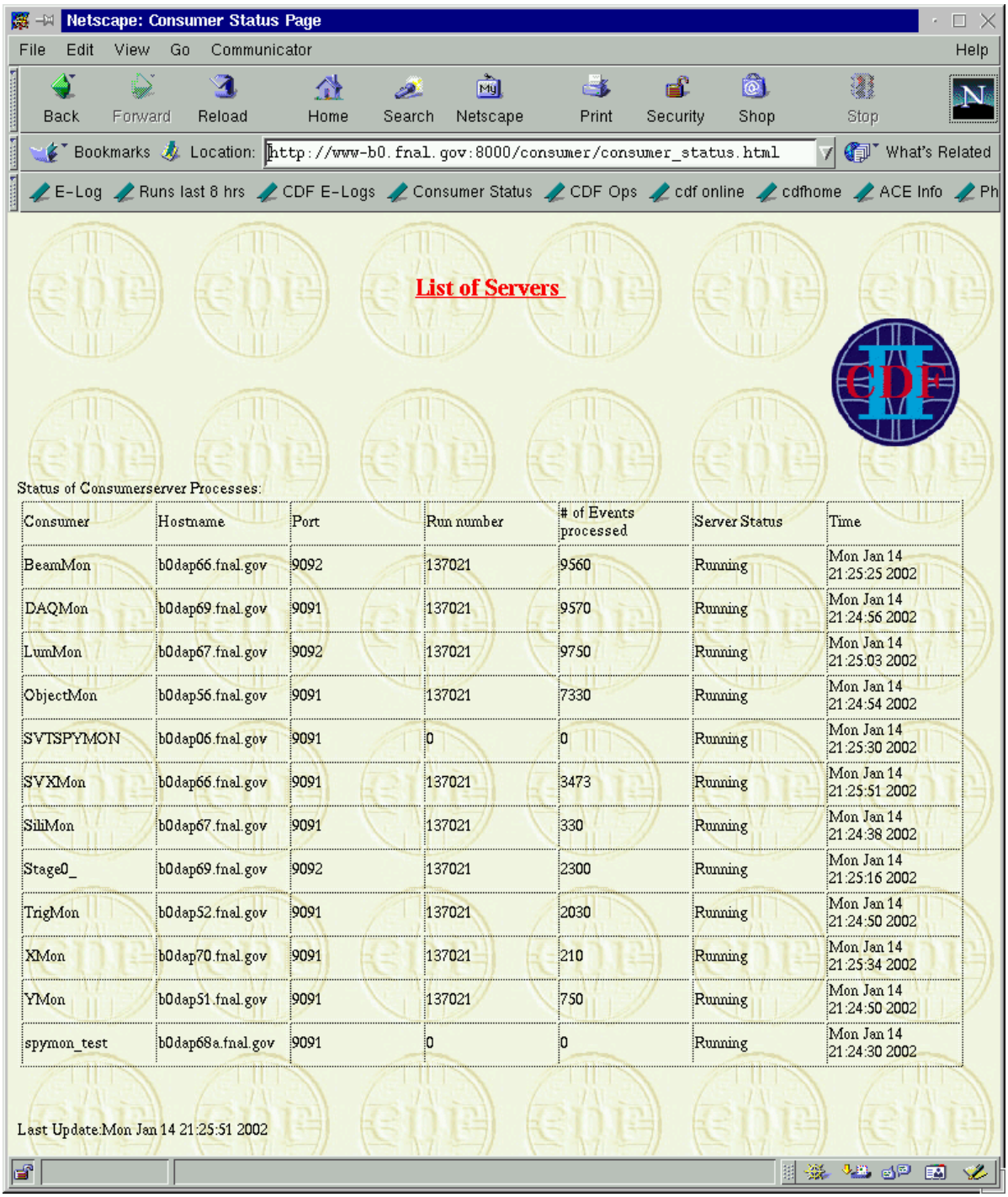
1. Go to /cdf/people1/cdfdaq/consumer_scripts directory on b0dap51
   (Type : cd consumer_scripts)
2. Type : ./startMon.sh All $< PartitionID >$
3. Server for each consumer start automatically.



Consumer Status Page

1. **Before attach a consumer to HistoDisplay, make sure that the consumer appears on the consumer status page (minimum 10 events).**

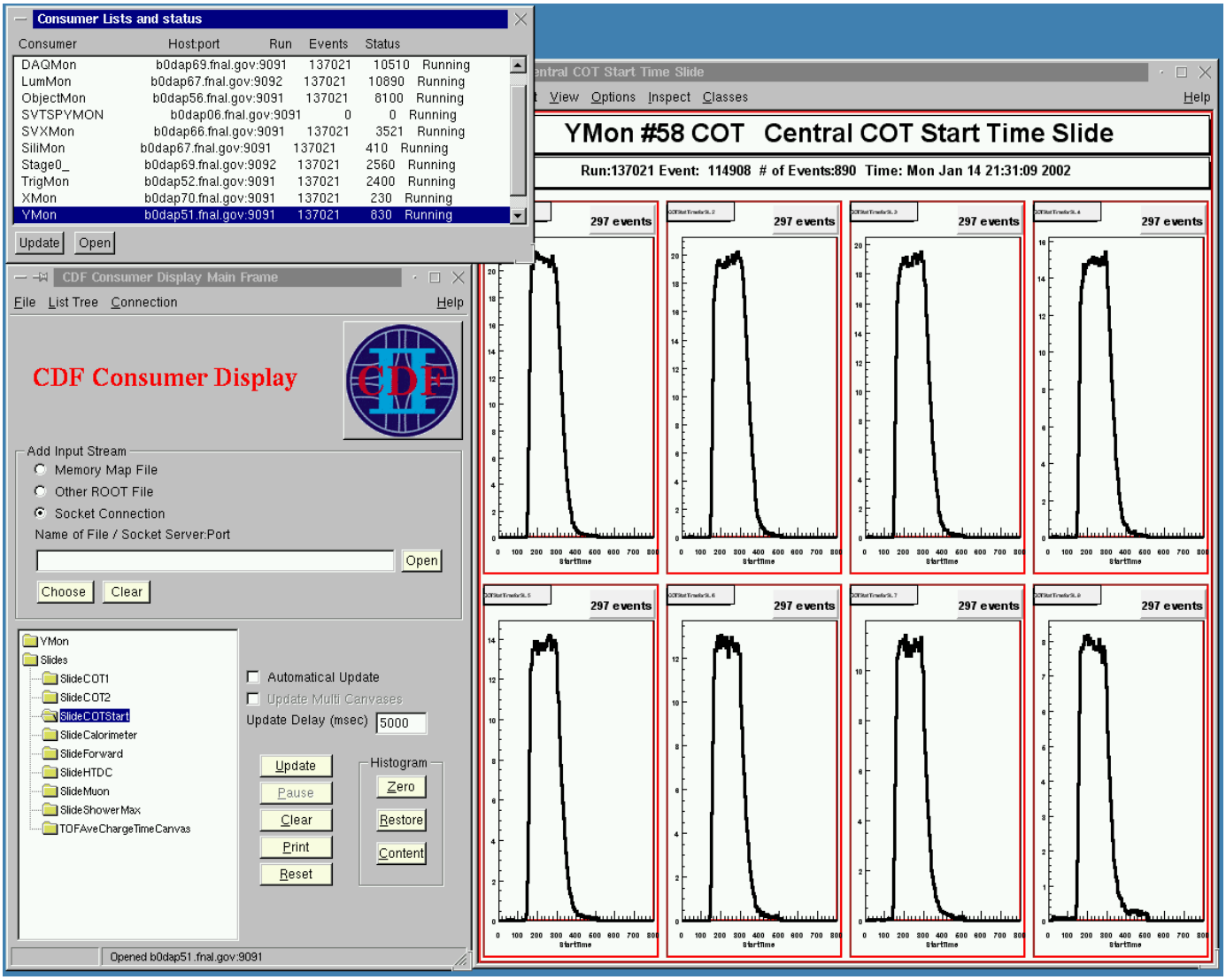
http://www-cdfonine.fnal.gov/consumer/consumer_status.html



Consumer	Hostname	Port	Run number	# of Events processed	Server Status	Time
BeamMon	b0dap66.fnal.gov	9092	137021	9560	Running	Mon Jan 14 21:25:25 2002
DAQMon	b0dap69.fnal.gov	9091	137021	9570	Running	Mon Jan 14 21:24:56 2002
LumMon	b0dap67.fnal.gov	9092	137021	9750	Running	Mon Jan 14 21:25:03 2002
ObjectMon	b0dap56.fnal.gov	9091	137021	7330	Running	Mon Jan 14 21:24:54 2002
SVTSPYMON	b0dap06.fnal.gov	9091	0	0	Running	Mon Jan 14 21:25:30 2002
SVXMon	b0dap66.fnal.gov	9091	137021	3473	Running	Mon Jan 14 21:25:51 2002
SiliMon	b0dap67.fnal.gov	9091	137021	330	Running	Mon Jan 14 21:24:38 2002
Stage0_	b0dap69.fnal.gov	9092	137021	2300	Running	Mon Jan 14 21:25:16 2002
TrigMon	b0dap52.fnal.gov	9091	137021	2030	Running	Mon Jan 14 21:24:50 2002
XMon	b0dap70.fnal.gov	9091	137021	210	Running	Mon Jan 14 21:25:34 2002
YMon	b0dap51.fnal.gov	9091	137021	750	Running	Mon Jan 14 21:24:50 2002
spymon_test	b0dap68a.fnal.gov	9091	0	0	Running	Mon Jan 14 21:24:30 2002

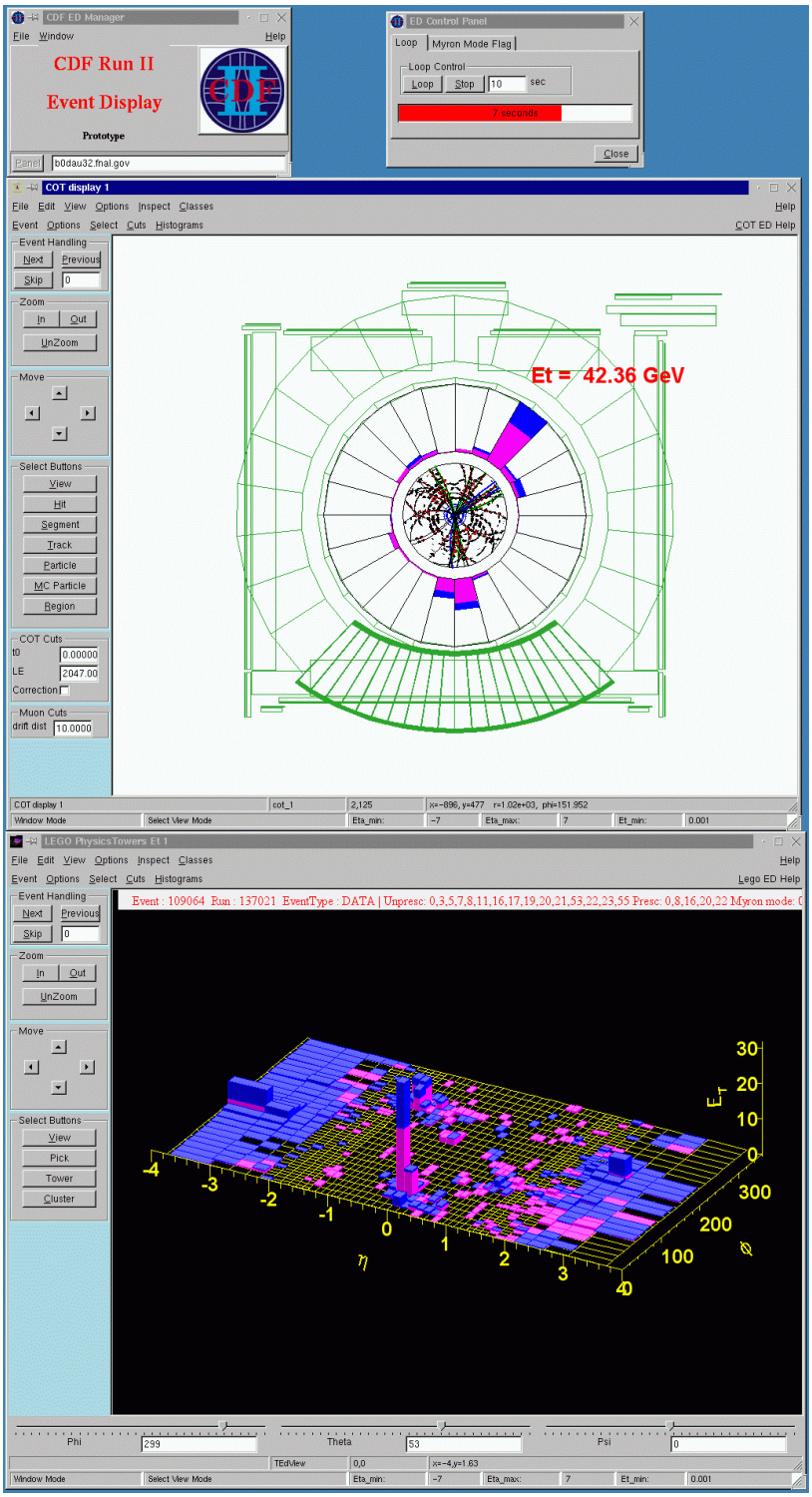
How to start HistoDisplay

1. Go to /cdf/people1/cdfdaq/consumer_scripts directory on b0dap51
2. Type : ./startDisplay.sh All
3. HistoDisplays appear on top and bottom screens of b0dap52, 55 and 56



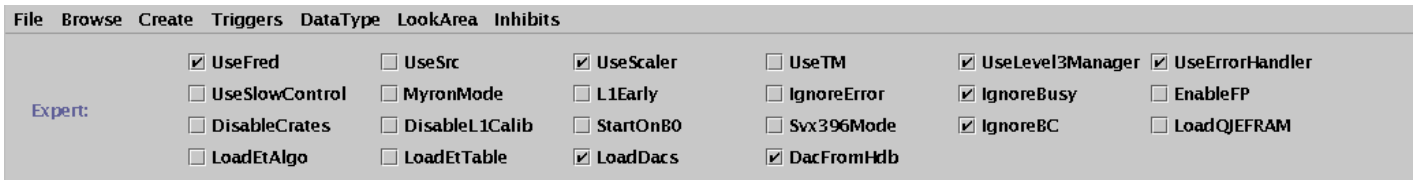
How to start Event Display

1. **Go to /cdf/people1/cdfdaq/consumer_scripts directory on b0dap50 (left most terminal).**
2. **Type : ./startEvd.sh** $< PartitionID >$



Odds and Ends

- **Tell the CO the partition ID on which you start taking data. In general, it is a good idea to tell CO when you are starting/stopping a run.**
- **Check "UseLevel3Manager" is enabled in the Run Control. If not, conumers can not start running.**



- **Please help COs.**
- **Old root files (monitor output files) can be found in /data1/consumer/results/xxxxMon area and older root files can be found in /cdf/cdf-cf-data1/cdf_cf/results/xxxxMon area. One can use the same HistoDisplay GUI as used on online to view these root files.**
- **When you find any problems in consumer monitors in general, please notify us, consumerframework people: (send mail to maeshima@fnal.gov, page:online monitor 266-2705, etc...).**