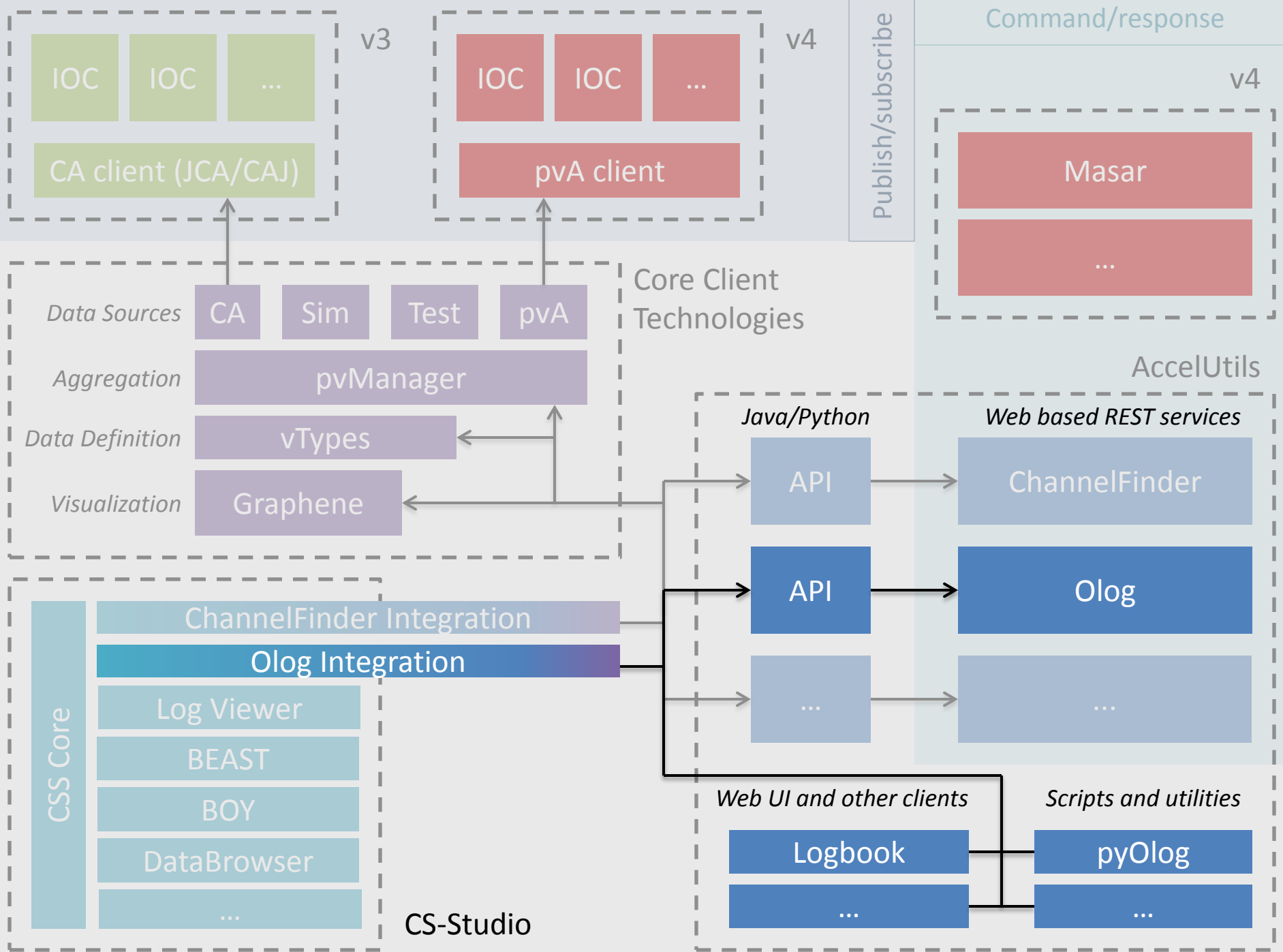


# Olog

Kunal Shroff  
Eric Berryman  
Dejan Dežman  
Arman Arkilic



# Log Entry

- Time
- Owner
- Text
- Attachments
- Logbooks
- Tags
- Properties

# Webclient

The screenshot shows a web browser window displaying a logbook interface. The browser address bar shows the URL <https://logbook.nsls2.bnl.gov/logbook/#739>. The page title is "Olog v0.2" and the user is logged in as "User".

**Filter Log Entries**

- LOGBOOKS
  - Filter Logbooks ...
  - Controls Commissioning
  - Electronics Maintenance
  - LOTO
  - Mechanical Technicians
  - Operations
- TAGS
  - Filter Tags ...
  - Bumps
  - Inverpower Power Supplies
  - Kicker
  - Large Power Supplies
  - RF Area
  - Septums
  - Timing Systems
- CREATED FROM
  - Last min
  - Last hour
  - Last day
  - Last week
- CREATED FROM - TO
  - From
  - To

**logbook: Controls Commissioning tag: RF Area** Search

**mdavidsaver, September 24th 2013, 6:38 pm**  
Present egun timing delays, widths prior to adding collective egun delay calculator. sbm trigger: 0 ns, 160 ns mbm trigger: 0 ns, 200 ns mbm limiter: 9995.144 us, 10 us grid amp ena.: 9995 us, 10 us grid limiter: 9995.144 us, 3 us grid rf switch: ...

**mdavidsaver, September 13th 2013, 1:26 pm**  
egun permit restored.

**mdavidsaver, June 4th 2012, 5:34 pm**  
Found that the IOC for MBM LRRF controller had not correctly reloaded the PGA bit file after the power outage on Friday. Made another tweak to the logic which tries to guess if the bit file is loaded or not.

**mdavidsaver, May 21st 2012, 10:06 am**  
Thomas Pfeiffer (PPT) sent email this morning indicating that he updated the Linac RF PLC. He says: the changes in the RF PLC are done. Each modulator sum interlock will be acknowledged automatically now, if the according interlock is gone. ...

**mdavidsaver, May 15th 2012, 3:03 pm**  
Plot of RF forward powers from 9:30am to 2:30pm. Shows that the output of Kly #3 appears to be fluctuating slowly with time.

**mdavidsaver, May 7th 2012, 11:35 am**  
The trip of modulator #1 at 11:12 also caused a full reset of the modulator controller.

**mdavidsaver, April 10th 2012, 7:16 pm**  
Some data from around the time of the mod 1 shutdown. I happened to remotely read the event log about ~1 minute before. Also some archive plots of modulator and vacuum. mod-10120410-1824.txt - text dump of the modulator's internal ...

**mdavidsaver, April 10th 2012, 7:16 pm** Show details

Some data from around the time of the mod 1 shutdown. I happened to remotely read the event log about ~1 minute before. Also some archive plots of modulator and vacuum.

mod-10120410-1824.txt - text dump of the modulator's internal event log

mod-10120410-1824.png - plot showing apparent spike in vacuum pressure at the time that mod 1 shutdown. It doesn't appear the the pump controller shutdown. WGIP6 doesn't show any activity.

mod-10120410-1824-2.png - Plot of some modulator voltages and currents from the same time.

**Attachments**

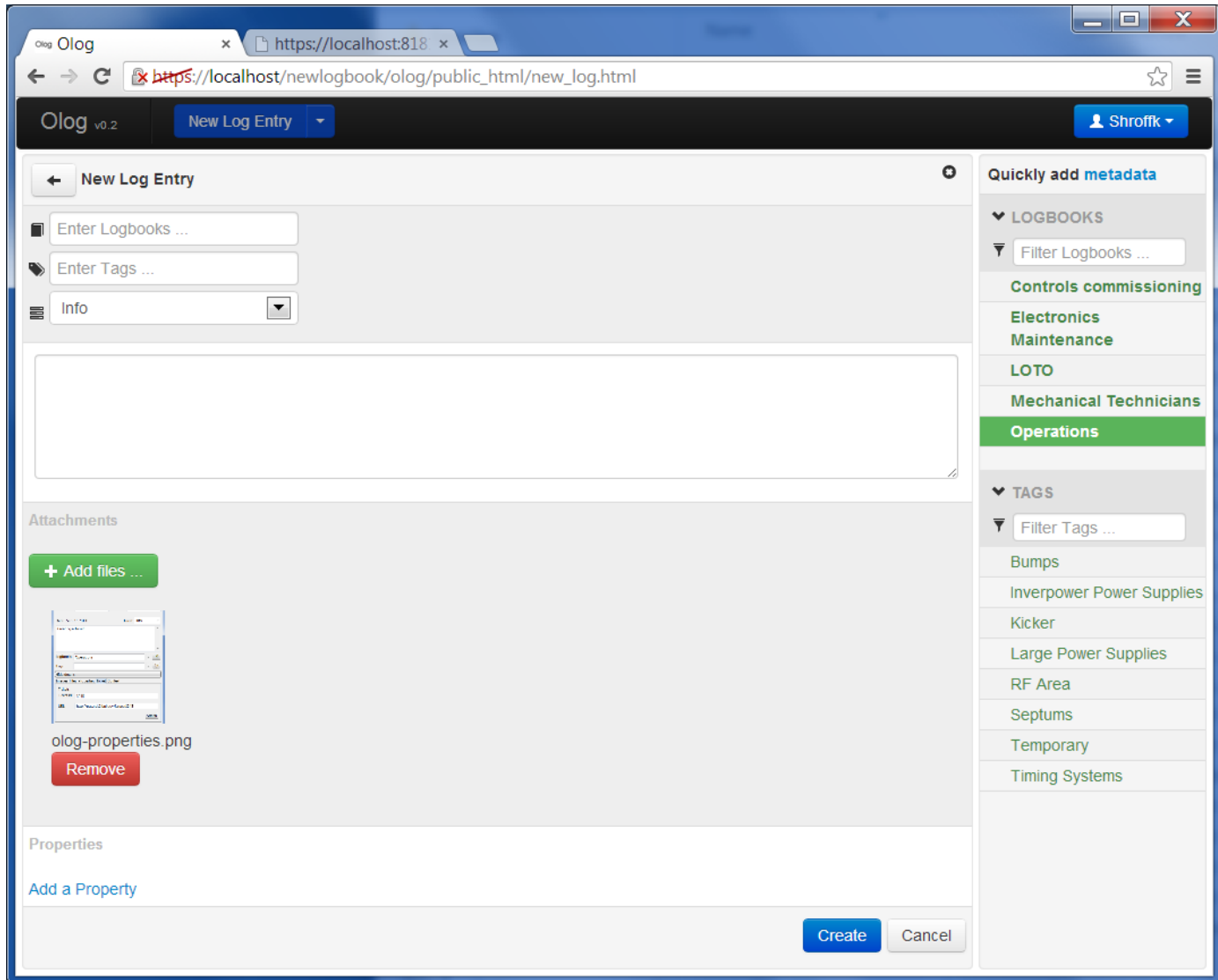
Annotation 1  
2012/04/10 18:25:27.672461426 0.0 OK, OK  
Source: Channel Archiver  
Interpolated (18:25:24.451656-9)

Pressure

Time

LHAR(IP:1KLY)P:4 LHAR(IP:2KLY)P:4 LHAR(IP:3KLY)P:4

# Webclient



# Webclient

AT&T [Camera] [Signal] [Wi-Fi] [H+] [Battery] [Checkmark] 11:49


PROCMAG

- QWR085
- REA Maintenance
- ReA Operations
- ReA Physics
- TDCM

➤ TAGS

➤ CREATED FROM

➤ CREATED FROM - TO



Search ... Search

laumberb, October 4th 2013, 1:58 pm

-Mike, Rogelio, and I attached a pump to the Batch Transfer Line between box 35 and MDB batch can. Vacuum started at 20mtorr.

thrush, October 4th 2013, 12:49 pm

Closed V9403 (WVotTL) and TDCMLNS. Reopened 9WSRFYN2.

laumberb, October 4th 2013, 12:48 pm

AT&T [Camera] [Signal] [Wi-Fi] [H+] [Battery] [Checkmark] 11:59


[Load more Log entries ...](#)

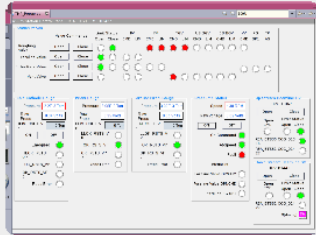
nash, October 1st 2013, 2:42 pm [Hide details](#)

- REA Maintenance
- Vacuum
- Problem

➤ October 1st 2013, 2:43 pm

Found box 19 vacuum station with cold cathode reading 2E-03 Torr. Evidently, the turbo pump had been unplugged (possibly due to a magnet water leak?, buckets were beneath the beamline stand). In this state, the turbo pump channels show the on command, the at-speed signal, and the fault signal. This needs to be addressed in the logic for the turbo gate valve as it stayed open.

Attachments 



# Olog Clients – CS-Studio

The screenshot displays the Control System Studio (HLSLII) interface. On the left, the Alarm Tree shows a hierarchy of areas and systems, including 'Area: Linac (MAJOR/STATE\_ALARM)' and 'System: Radiation Monitoring (MAJOR/STATE\_ALARM)'. A context menu is open over the 'Area: Storage ring invalid-ack'd/UDF' item, listing actions like 'Guidance', 'OPI Table View', 'Copy to clip-board', 'Acknowledge', 'Configure Item', 'Rename Item', 'Duplicate PV', 'Move Item', 'Remove selected Items', 'Alarm Perspective', 'Process Variable', and 'Create Log Entry'.

The main window shows the 'RADIATION MONITORS - Injector' status. It includes a table with columns for Linac ID, location, and radiation level (mR/h), along with visual indicators (green circles) and 'More' buttons for each monitor.

At the bottom, the 'Alarm Perspective' table displays a list of active and historical alarms. The table has columns for Description, Alarm Time, Current Sevi, Current Stat, Alarm Se, Alarm Status, and Alarm Value.

Description	Alarm Time	Current Sevi	Current Stat	Alarm Se	Alarm Status	Alarm Value
MINOR alarm: Linac/LTB Vacuum Summary Fault	2013/09/25 16:14:00	MINOR	STATE_ALARM	MINOR	STATE_ALARM	Minor Alarm
MAJOR alarm: Booster Radiation Monitoring	2013/09/18 10:43:00	OK	OK	MAJOR	STATE_ALARM	Alarm
MAJOR alarm: Booster CFC inhibited the RF.	2013/09/24 09:50:00	MAJOR	HIHI_ALARM	MAJOR	HIHI_ALARM	1
MAJOR alarm: Booster BTS Vacuum Summary Fault	2013/09/25 16:16:00	MAJOR	STATE_ALARM	MAJOR	STATE_ALARM	Major Alarm
MAJOR alarm: BTS Bend Magnet 1 Summary Alarm	2013/09/16 15:20:00	MAJOR	STATE_ALARM	MAJOR	STATE_ALARM	HI
MAJOR alarm: LN-AM(RadMon)Alrm-Sum-Sts	2013/09/18 13:31:00	OK	OK	MAJOR	STATE_ALARM	Alarm

PV	Description	Alarm Time	Current Sevi	Current Stat	Alarm Se	Alarm Status	Alarm Value
BR-BI(1)Op-Sts	invalid-ack'ed alarm: Booster diagnostic fault	2013/03/18 15:18:00	INVALID	LINK_ALARM	invalid-ack'e	LINK_ALARM	OK
BR-MG(PS)FaultSum	invalid-ack'ed alarm: Booster power supply sum	2013/04/02 08:19:00	INVALID	No Connecti	invalid-ack'e	No Connecti	
LTB-BI(1)Interlock	invalid-ack'ed alarm: ICT interlock test	2013/09/06 11:37:00	INVALID	Disconnecte	invalid-ack'e	Disconnecte	
LTB-MG(PS)FaultSum	invalid-ack'ed alarm: Linac to booster power su	2013/04/25 17:03:00	INVALID	No Connecti	invalid-ack'e	Disconnecte	
SR-MG(PS)FaultSum	invalid-ack'ed alarm: Power supply failure in st	2013/04/02 08:17:00	INVALID	UDF_ALARM	invalid-ack'e	UDF_ALARM	GOOD

# Olog Clients – CS-Studio

- Log Entries initialized with application specific information
- Alarm server
  - PV name
  - Alarm status
  - Alarm time

**Create Log Entry**

User Name:  Password:

Date: Sep 26, 2013 Level:

**Current Alarms**  
LN-AM{RadMon}Alrm:Sum-Sts  
PV : LN-AM{RadMon}Alrm:Sum-Sts  
Alarm Time : 2013/09/18 13:31:00 (Time since event: 194:06:02)  
Alarm Severity/Message : MAJOR/STATE\_ALARM  
Alarm Value : Alarm  
Current Severity/Message: OK/OK

Logbooks:

Tags:

Hide details

Images Files Properties Ticket Context

Remove Images:

Add Image Screenshot CSS Window

Cancel Submit



# Olog Clients – CS-Studio

- Save Context
  - Configuration files for cs-studio applications (.plt)
  - Controls system data (List of process variables)
  - Information related to other services (Trac tickets , ChannelFinder queries)

Create Log Entry

User Name: shroffk Password: ●●●●

Date: Sep 26, 2013 Level: Info

Data Browser Plot with context  
See attached Data Browser plot

Logbooks: Controls commissioning

Tags:

Hide details

Images Files Properties Ticket Context

Attachments:

- strip.plt
- plot.png

Attach context Attach file Remove selected

Submit Cancel

# Olog Clients – CS-Studio

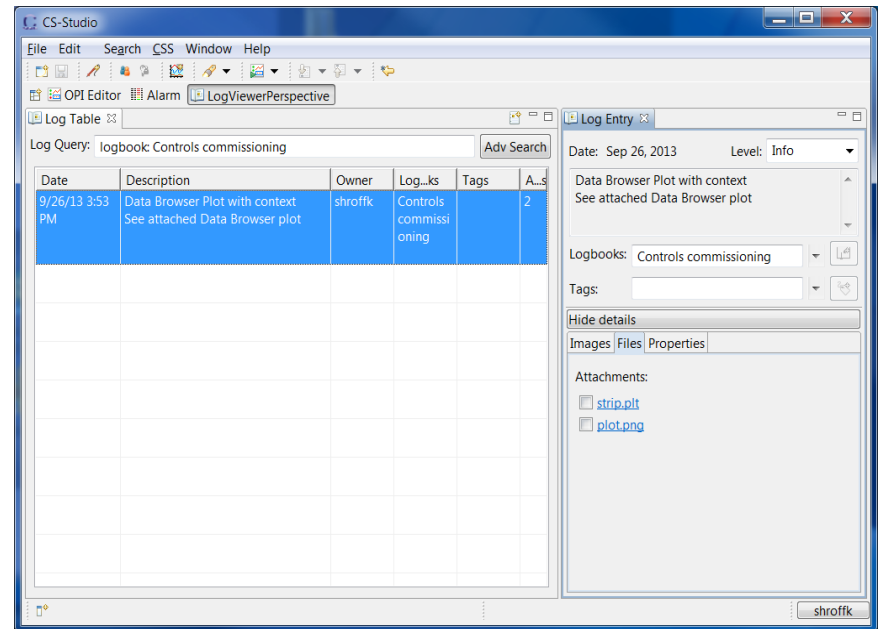
The screenshot displays the CS-Studio interface. The main window is titled "Log Table" and shows a list of log entries. The selected entry is highlighted in blue and contains a plot of RF forward powers.

Date	Description	Owner	Logbooks	Tags	A.s
9/13/13 1:26 PM	egun permit restored.	mdav...aver	Controls Commissioning	RF Area Timing Systems	0
6/4/12 5:34 PM	Found that the IOC for MBM LLRF controller had not correctly reloaded the PGA bit file after the power outage on Friday.  Made another tweak to the logic which tries to guess if the bit file is loaded or not.	mdav...aver	Controls Commissioning	RF Area	0
5/21/12 10:06 AM	Thomas Pfeiffer (PPT) sent email this morning indicating that he updated the Linac RF PLC. He says:  the changes in the RF PLC are done. Each modulator sum interlock will be acknowledged automatically now, if the according interlock is gone. So you have only to reset the modulator interlocks at the modulator GUI.  I wrote this changes also to the PLC memory card and restarted successful the PLC.  Thomas	mdav...aver	Controls Commissioning	RF Area	0
5/15/12 3:03 PM	Plot of RF forward powers from 9:30am to 2:30pm. Shows that the output of Kly #3 appears to be fluctuating slowly with time.	mdav...aver	Controls Commissioning	RF Area	1
5/7/12 11:35 AM	The trip of modulator #1 at 11:12 also caused a full reset of the modulator controller.	mdav...aver	Controls Commissioning	RF Area	0
4/10/12 7:16 PM	Some data from around the time of the mod 1 shutdown. I happened to remotely read the event log about -1 minute before. Also some archive plots of modulator and vacuum.  mod-10120410-1824.txt - text dump of the modulator's internal event log  mod-10120410-1824.png - plot showing apparent spike in vacuum pressure at the time that mod 1 shutdown. It doesn't appear the pump controller shutdown. WGI6 doesn't show any activity.  mod-10120410-1824-2.png - Plot of some modulator voltages and currents from the same time.	mdav...aver	Controls Commissioning	RF Area	3
3/27/12 6:46 PM	We noticed that the MO power levels reported by the LLRF controllers is changing in time. Possibly correlated to the HV	mdav...aver	Controls Commissioning	RF Area	1

The "Log Entry" window shows the selected entry's details. The date is May 15, 2012, and the level is Info. The description is "Plot of RF forward powers from 9:30am to 2:30pm. Shows that the output of Kly #3 appears to be fluctuating slowly with time." Below the description, there are fields for "Logbooks" (Controls Commissioning) and "Tags" (RF Area). The "Images" section shows a plot of RF forward powers over time. The plot has a y-axis labeled "Forward Power (kW)" ranging from 0 to 40 and an x-axis labeled "Time" ranging from 09:31 to 14:31. The plot shows multiple data series for ACS #1, ACS #2, ACS #3, ACS #4, FBU, KLY #1, KLY #2, and KLY #3. A legend at the bottom of the plot identifies these series with colored dots.

# Olog Clients – CS-Studio

- Restore Context
  - Launch applications initialized to the state as described while making the log entry
  - Open archived data for associated pv's
  - Run OPI screens
  - Query other services



# Olog Properties

- Integration with other services

- Ticketing service

property

name: ticket

attributes

Id : 1234

URL : <https://trac.cs.nsls2.bnl.gov/tickets/1234>

- Component directory (FRIB)

# Olog properties

- Integration with experimental processes and data

name: *scanProcess*

attributes

type: *XPD*

id: *1234*

description: *save reduced dataset*

location: *pyPXD.nsls2.bnl.gov/resources*

attachments: *reducedData.json*

# Olog Clients – pyOlog

The screenshot displays the Olog web interface. The top navigation bar includes the Olog logo, a 'New Log Entry' button, and a user profile dropdown labeled 'User'. The main content area is divided into three sections:

- LOGBOOKS:** A sidebar on the left with a search filter and a list of logbooks. The 'XPDLLog' logbook is currently selected and highlighted in blue.
- Log Entry List:** A central list of log entries for the selected logbook. Each entry shows the author 'arkilic', the date 'July 30th 2013, 11:07 am', and the tag 'PyXPD Olog'. The entry is accompanied by a small icon representing the tag.
- Log Entry Details:** A right-hand pane showing the details of the selected log entry. It includes the title 'arkilic, July 30th 2013, 11:07 am', a 'Hide details' link, and a list of tags: 'XPDLLog' and 'XPDTag'. Below this, the entry content is shown as 'PyXPD Olog'. There is an 'Attachments' section with a file named 'SetupParameters.txt' and a 'Properties' section for the 'XPDprocess' tag.

XPDprocess	
Name	PyXPD
Description	Define process that sets up the environment for PyXPD
Type	PyXPD.entry.maskedImage.savelm
Location	pyXPD.nsls2.bnl.gov/resources
Id	190390
Attachments	SetupParameters.txt

# Olog Clients – pyOlog

The screenshot displays the Olog web interface. The top navigation bar includes the Olog logo, a 'New Log Entry' button, and a user profile dropdown labeled 'User'. The left sidebar contains a 'LOGBOOKS' section with a search filter and a list of logbooks, including 'Operations' which is currently selected. Below this is a 'TAGS' section with another search filter and a list of tags. The main content area shows a search bar for 'logbook: XPDLog, Operations tag: R' and a list of log entries. The selected entry is from 'arkilic, July 30th 2013, 2:42 pm' and is titled 'PyXPD Olog'. The right-hand pane provides details for this entry, including a 'Hide details' link, a list of attachments (reducedData.json), and a 'Properties' table for the 'XPDprocess'.

**LOGBOOKS**

- Filter Logbooks ...
- DiffractionLogbookv01
- DiffractometerLog
- DiffractometerXXYYZZ
- Electronics Maintenance
- LOTO
- Mechanical Technicians
- Operations
- PyXPDLogBook
- XPDLog
- XPDLogBook
- \_pyspecLog\_
- \_XRDiffLog\_

**TAGS**

- Filter Tags ...
- aman
- Bumps
- Diffractometer
- DiffractometerTag
- DiffractometerTagv01
- DiffractometerTagv02
- DiffractometerTagv03
- Help Info

logbook: XPDLog, Operations tag: R Search

arkilic, July 30th 2013, 2:42 pm  
PyXPD Olog

arkilic, July 30th 2013, 2:34 pm  
PyXPD Olog

arkilic, July 30th 2013, 2:21 pm  
PyXPD Olog

arkilic, July 30th 2013, 2:20 pm  
PyXPD Olog

boss, July 15th 2013, 3:31 pm  
zdfgzdf

boss, July 15th 2013, 3:29 pm  
with attachments

[Load more Log entries ...](#)

arkilic, July 30th 2013, 2:42 pm [Hide details](#)

XPDLog  
ReducedDataSet  
Info

PyXPD Olog

Attachments

[reducedData.json](#)

Properties

**XPDprocess**

Name	PyXPD
Description	Process that saves reduced representation
Type	PyXPD.entry.maskedImage.Intensity/IndexRel
Location	pyXPD.nsls2.bnl.gov/resources/Masked
Id	19040
Attachments	ExperimentalData.txt

# Questions