

# Table of Contents

Tasks.....	1
Development.....	2
General Infrastructure.....	5
Crystal Undulator.....	6
WebcamDetector.....	7
List Of Equipments.....	8
MRPC.....	9
StrawTracker.....	10
TimePix development.....	12
DaqSoftware upgrade.....	13
MonitoringSoftware.....	18
Event Viewer.....	19
Analysis Software.....	20

# Tasks

Topic	Action	Priority ▲	Due
Crystal Undulator	Integration of Goniometer readback with DAQ chain Need information from Ulrik about goniometer model	1	2015-08-19
Crystal Undulator	Understand requirements of Photon calorimeter Team in Arhus has a BGO calorimeter	1	2015-08-19
VideoStreaming	Install webcams and PCs	2	2012-09-09
VideoStreaming	Investigate video recording format (flv?)	3	2012-09-08

# Development

Topic	Date	Action
Crystal Undulator	2015-08-20	Assembled goniometer in B4 office
Cherenkov Counter	2015-08-18	Worked with the beam instrumentation people to check Achieved a vacuum of 10 mBar
Crystal Undulator	2015-08-05	In contact with Ulrik Uggerhøj about goniometer
Scintillator Counter	2015-07-29	Sketching small trigger scintillator
Monitoring Software	2015-07-28	New monitoring programs: DWCTracking and DWCBurst
Video Streaming	2015-07-27	Set up BL4S-CAM 02 & 03 - FMLE installed and streaming
Video Streaming	2015-07-22	Received BL4S-CAM 02 & 03 - registered and HDDs installed
Webcam Detector	2015-07-20	OpenCV installed on pbl4sleo4g PC.
Webcam Detector	2015-07-16	Centos 7 installed in new hard disk. PC name is: pbl4sleo4g
Video Streaming	2015-07-13	Flash Video live Encoder installed Tested streaming Tested stream on boot
Crystal Undulator	2015-07-10	Video meeting with SimonHConnell and TimBrooks - planning
Crystal Undulator	2015-07-01	Meeting with SergioBallestrero, MarkusJoos and TimBrooks plans moving forwards
Delay Wre Chamber	2015-06-30	Installed regulator - need different pitch compressor Tested front end electronics with pulse gen and scope
Video Streaming	2015-06-29	Ticket resolved - Windows activated remotely - M
Video Streaming	2015-06-26	Opened ticket with IT INC0813421
Crystal Undulator	2015-06-24	Video meeting with SimonHConnell, MarkusJoos and TimBrooks requirements
Delay Wre Chamber	2015-06-23	Borrowed LV power supply and Arb. pulse gen from Jorg Discussed operation with Cenk and Jorgen
Video Streaming	2015-06-23	Put new HDD in BL4S-CAM 01 and installed Windows
Webcam Detector	2015-06-23	Managed to disable MPEG compression on camera
Delay Wre Chamber	2015-06-17	Took receipt of 2 chambers from Jens Spanggaard Got a selection of Gas fittings, thanks to Konstantin
Crystal Undulator	2015-06-16	Met with SergioBallestrero and SimonHConnell to discuss
Video Streaming	2015-06-16	Met Marek to discuss webcam setup Put BL4S-CAM 01 in office
Webcam Detector	2015-06-16	Video for Linux (V4L2) installed on bl4sdaq/blrsdaq Linux. yum install v4l-utils
Webcam Detector	2015-06-15	Pixelman s/w installed on centos 7 , connected TimePix
Crystal Undulator	2015-06-12	Contacted LauGatignon about magnet system Spoke to Jerome Aloyz about rotation stage for crystal
Webcam Detector	2015-06-12	Met with Jerome Alexandre Aloyz for TimePix. Decided to use TimePix to compare the webcam results.
MRPC	2015-06-11	Received pin headers for board interconnects
Webcam Detector	2015-06-04	ffmpeg s/w installed on bl4sdaq PC , tested.
MRPC	2015-05-26	Received PCBs
MRPC	2015-05-21	Received DIN connectors and resistors from Farnell
MRPC	2015-05-16	Drew the enclosure in more detail Reminded TRT folks about enclosure requirements

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StrawTracker	2015-05-15	Integrate UDP recv into DataChannel Tested correction to error handling code Received data from udp_sender_receiver test program
StrawTracker	2015-05-13	Integrate UDP socket code into rcd_trb Module Looked at RAWevent format Worked on error handling code Loaded module on BL4S DAQ hardware and tested error
DaqSoftware	2015-05-11	Testing rcd_empty <ul style="list-style-type: none"> <li>• Added Jorgens schema file for rcd_trb package - Right click on a Data File and select 'Details' files' list and select a location in the 'Add f</li> <li>• Using schema, created a ReadoutModuleTRB object RCD object called BL4SApp</li> <li>• Created a HWInputChannel called TRB_channel_0 resource of the Segment called BL4SSegment</li> <li>• Compiled all modules in dbg mode</li> <li>• Switched to prefer dbg code and enabled tracing</li> <li>• Ran BL4S partition and confirmed configuration expected</li> </ul>
DaqSoftware	2015-05-07	Monitoring beam muons <ul style="list-style-type: none"> <li>• Spoke to Serguei.Kolos about oh_display and ohp /afs/cern.ch/atlas/project/tdaq/inst/tdaq/tdaq-</li> <li>• Started first recording of beam muons on H8 lin</li> </ul>
MRPC	2015-05-06	Sent finalised designs to TS-DEM
DaqSoftware	2015-04-30	Long run testing <ul style="list-style-type: none"> <li>• Ran part_BL4S and TRT_Testbeam overnight</li> <li>• Both remote IGUI instances had gone</li> <li>• part_BL4S had lost a few processes</li> <li>• Later on, PMG was briefly unavailable: - This n being restarted with a new IGUI - will retest w</li> <li>• Agent log: bl4sdaq.cern.ch:/logs/tdaq-05-05-00/initial/</li> <li>• Last job (test_app_pmg -p part_BL4S -H lnxpool4 17:52:27</li> <li>• Next batch of jobs all started at 17:52:49</li> <li>• Root Controller (bl4sdaq:/logs/tdaq-05-05-00/initial/DefaultRootControlle</li> <li>• TIMEOUT at 17:52:44</li> </ul>
StrawTracker	2015-04-24	Discussion of Readout architecture with Markus and Jorgen proposes writing a RCD_empty package into w A TRBScope program should be written to capture data The TRBScope can explore the data format and under A TRBemulator could be written to send arbitrary da sequence of packets from the TRB Ultimately the TRBScope code should be integrated an RCD_TRB package that can run in the BL4S data-t
TimePix	2015-04-20	Trying Pixelman on SLC6
StrawTracker	2015-04-08	Working with Elena Zarkh Set up DAQ PC and electronics Dual timer is tricky to start up as a pulse gener Used switch box to view test pulses from front en Found that the TRB needs a LVDS trigger, when dis 40kHz The trigger box (based around one of the level co signals and outputs LVDS across all channels

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		Some channels seem to be flipped or offset - check up Outputs are on a pin header so one can use the sv connecting to a scope over LEMO cables The discriminator for one of the channels had a v the coincidence rate - we adjusted this up to ~10 We measured the coincidence rate of the scintilat A small test run did not collect any meaningful s Overnight run started ~21:50
StrawTracker	2015-04-07	Meeting with Elena Zarkh Started HV for overnight conditioning Found DAQ PC(styxbn.cern.ch) had a dead power suppl Borrowed PSU from bl4sdaq1 for the moment
StrawTracker	2015-04-02	Meeting with Konstantine Zhukov Started gas flow to condition straws
MRPC	2015-04-01	Emailed comments from William Billereau - add RE files, add corner alignment markers to the copper
TimePix	2015-03-31	Meeting with TimePix experts Winnie and Erik Possible Neutron converters applied to the sensor FitPix USB readout card ~3000CHF TimePix readout + Si sensor + wirebonding ~1000CHF Data clock: 50MHz 14 bits per pixel
MRPC	2015-03-23	The PCB layout of Anode, Cathode and VHDCI adapted mechanical and electrical correctness.
StrawTracker	2015-03-13	Visit SR1 to see CERN's STYX module Check the gas system in SR1 Mix the gasses (Ar/CO2)
MRPC	2015-03-11	Draft layouts for Anode and Cathode boards done.
MRPC	2015-03-09	Met Adrian to discuss layout issues and power sup (TS-DEM PMT).
MRPC	2015-03-04	First layouts.
MRPC	2015-02-25	First meeting with Crispin and Adrian.

# General Infrastructure

[Open issues](#) [Close](#)

# Crystal Undulator

▢ Development ▾ Close

Date	Action
2015-08-20	Assembled goniometer in B4 office
2015-08-05	In contact with Ulrik Uggerhøj about goniometer at CERN
2015-07-10	Vidyo meeting with SimonHConnell and TimBrooks - discussed simulation results and planning
2015-07-01	Meeting with SergioBallestrero, MarkusJoos and TimBrooks - discussed status and plans moving forwards
2015-06-24	Vidyo meeting with SimonHConnell, MarkusJoos and TimBrooks - discussed experimental requirements
2015-06-16	Met with SergioBallestrero and SimonHConnell to discuss support for Team
2015-06-12	Contacted LauGatignon about magnet system Spoke to Jerome Aloyz about rotation stage for crystal

▢ Contacts ▾ Close

- TimBrooks
- Colleen Henning - St John's College Science HOD
- SergioBallestrero [link](#). Atlas sysadmin and employed by Univ. Johannesburg.
- SimonHConnell (mentioned in the proposal) is his supervisor.
- ChristopherLee [link](#). Atlas sysadmin and employed by Univ. Johannesburg
- Ulrik Uggerhøj - Aarhus contact for Goniometer

▢ Open issues ▾ Close

# Webcam Detector

Development Close

Date	Action
2015-07-20	Opencv installed on pcbl4sleo4g PC.
2015-07-16	Centos 7 installed in new hard disk. PC name is: pcbl4sleo4g.
2015-06-23	Managed to disable MPEG compression on camera
2015-06-16	Vide for Linux (V4L2) installed on bl4sdaq/blrsdaq1 PC for controlling webcam from Linux.  yum install v4l-utils
2015-06-15	Pixelman s/w installed on centos 7 , connected TimePix device to PC.
2015-06-12	Met with Jerome Alexandre Aloyz for TimePix. Decided to use webcam between 2 TimePix to compare the webcam results.
2015-06-04	ffmpeg s/w installed on bl4sdaq PC , tested.
2015-07-03	Meeting with Jerome to work with several medipix devices in one readout. Request for second Timepix and radioactive source.

Contacts Close

- Manuela Lima - Team coach

Open issues Close

Description	Action by	Status
We should by the same Web cam as they have	Candan	Looking for a supplier
Look for Linux compatible S/W for reading single images via USB from the camera	Candan	to be started
Understanding the camera	Candan	Question: can we control the exposure time? If necessary Markus will contact Logitech about technical support



# List Of Equipments

1. 3 Logitech C270 Webcam
2. 2 Timepix with FITPIX.
3. 5 SATA Hard Disk
4. 1 USB Hub (7-Port Powered Mobile Hub) and cables

-- TimBrooks - 2015-06-03

# MRPC

▣ Development ▣ Close

Date	Action
2015-05-16	Drew the enclosure in more detail Reminded TRT folks about enclosure requirements
2015-06-11	Received pin headers for board interconnects
2015-05-26	Received PCBs
2015-05-21	Received DIN connectors and resistors from Farnell, and caps from CERN stores
2015-05-06	Sent finalised designs to TS-DEM
2015-04-01	Emailed comments from William Billereau - add README for organisation of the output files, add corner alignment markers to the copper and silk layers.
2015-03-23	The PCB layout of Anode, Cathode and VHDCI adapter boards is done. Need to verify mechanical and electrical correctness.
2015-03-11	Draft layouts for Anode and Cathode boards done.
2015-03-09	Met Adrian to discuss layout issues and power supply. Met PCB fabrication group (TS-DEM PMT).
2015-03-04	First layouts.
2015-02-25	First meeting with Crispin and Adrian.

▣ Contacts ▣ Close

- Tim Brooks - Project lead/ PCB layout
- Crispin Williams [↗](#) Detector/ NI NO design
- Adriano Rodrigues [↗](#) Detector fabrication
- TE-MPE-EM [↗](#) (formally TS-DEM BE [↗](#)) Electronic design consulting
  - ◆ Section leader Betty Magnin
  - ◆ William Billereau
- TS-DEM PMT [↗](#) PCB fabrication
  - ◆ Section leader Rui de Oliverira [↗](#)

# StrawTracker

Development Close

Date	Action
2015-05-15	Integrate UDP recv into DataChannel Tested correction to error handling code Received data from udp_sender_receiver test program, recoding it to disk
2015-05-13	Integrate UDP socket code into rcd_trb Module Looked at RAW event format Worked on error handling code Loaded module on BL4S DAQ hardware and tested error handling
2015-04-24	Discussion of Readout architecture with Markus and Jorgen Jorgen proposes writing a RCD_empty package into which we can add TRB specific code A TRBscope program should be written to capture data from the TRB The TRBscope can explore the data format and understand handling of UNIX sockets A TRBemulator could be written to send arbitrary data at arbitrary times, or replay a sequence of packets from the TRB Ultimately the TRBscope code should be integrated into the RCD_empty package to form an RCD_TRB package that can run in the BL4S data-taking partition
2015-04-08	Working with Elena Zarkh Set up DAQ PC and electronics Dual timer is tricky to start up as a pulse generator Used switch box to view test pulses from front end electronics Found that the TRB needs a LVDS trigger, when disconnected it free runs to around 40kHz The trigger box (based around one of the level converter cards) accepts TTL level signals and outputs LVDS across all channels Some channels seem to be flipped or offset - check trigger box outputs when setting up Outputs are on a pin header so one can use the switch box to probe the channels, connecting to a scope over LEMO cables The discriminator for one of the channels had a very narrow pulse width, killing the coincidence rate - we adjusted this up to ~100ns We measured the coincidence rate of the scintillators to be just below 10Hz A small test run did not collect any meaningful statistics Overnight run started ~21:50
2015-04-07	Meeting with Elena Zarkh Started HV for overnight conditioning Found DAQ PC(styxbn.cern.ch) had a dead power supply Borrowed PSU from bl4sdaq1 for the moment
2015-04-02	Meeting with Konstantine Zhukov Started gas flow to condition straws
2015-03-13	Visit SR1 to see CERN's STYX module Check the gas system in SR1

M x t h e g a s s e s ( A r / C O 2 )

▸ Contacts ▾ Close

- Steffen Schaepe - STYX software and configuration of TRB
- Elena Zarkh - STYX operational experience
- Ian Brock [↗](#) - STYX project leader
- Christoph Rembser [↗](#) - STYX project collaborator

# TimePix development

[Development](#) [Close](#)

Date	Action
2015-04-20	Trying Pixelman on SLC6
2015-03-31	Meeting with TimePix experts Winnie and Erik Possible Neutron converters applied to the sensor FitPix USB readout card ~3000CHF TimePix readout + Si sensor + wirebonding ~1000CHF Data clock: 50MHz 14 bits per pixel

[Contacts](#) [Close](#)

- [Jerome Alozy](#) - Electronics Technical Engineer
- [Winnie Wong](#)
- [Erik Frojd](#)

# DaqSoftware upgrade

Development Close

Date	
2015-05-11	<p>Testing rcd_empty</p> <ul style="list-style-type: none"> <li>Added Jorgens schema file for rcd_trb package - can do this with</li> <li>Right click on a Data File and select 'Details', right click in</li> <li>Using schema, created a ReadoutModuleTRB object called TRBModule</li> <li>Created a HWInputChannel called TRB_channel_0 contained by TRB</li> <li>Compiled all modules in dbg mode</li> <li>Switched to prefer dbg code and enabled tracing on RCDEExample p</li> <li>Ran BL4S partition and confirmed configuration and transitions</li> </ul>
2015-05-07	<p>Monitoring beam muons</p> <ul style="list-style-type: none"> <li>Spoke to Sergeui.Kolos about oh_display and ohp - directed us to</li> <li>Started first recording of beam muons on H8 line (run 143102494)</li> </ul>
2015-05-03	<p>Very long run testing</p> <ul style="list-style-type: none"> <li>Some PMG timeouts around 07:06</li> <li>BL4SApp starts throwing errors:</li> </ul> <pre> 20:05:12 ERROR BL4SApp rc::ParentUpdateFailure Failed to notify the parent co 20:05:11 ERROR BL4SApp rc::CorbaException Received CORBA exception "TRANSIENT </pre> <p>IGUI commands raise the following errors: <a href="#">Command Error</a> <a href="#">Close</a></p> <p>IGUI - Command Error</p> <p>Message:    daq.rc.RCException\$CORBAException: Failed contacting "BL4SSegment". Reason</p> <p>Level:    SEVERE</p> <p>Stack Trace:    Failed contacting "BL4SSegment". Reason: org.omg.CORBA.TRANSIENT: Retries exce    daq.rc.CommandSender.executeCommand(CommandSender.java:376)    Igui.Igui.sendControllerCommand(Igui.java:1919)    Igui.RunControlAdvancedPanel\$ButtonActions\$1.run(RunControlAdvancedPanel.    java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java    java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.java    java.lang.Thread.run(Thread.java:724)</p> <p>Retries exceeded, couldn't reconnect to 137.138.89.83:34362    org.jacorb.orb.iiop.ClientIIOPConnection.connect(ClientIIOPConnection.java    org.jacorb.orb.giop.GIOPConnection.sendMessage(GIOPConnection.java:1072)    org.jacorb.orb.giop.GIOPConnection.sendRequest(GIOPConnection.java:1017)    org.jacorb.orb.giop.ClientConnection.sendRequest(ClientConnection.java:30    org.jacorb.orb.giop.ClientConnection.sendRequest(ClientConnection.java:28    org.jacorb.orb.Delegate._invoke_internal(Delegate.java:1419)    org.jacorb.orb.Delegate.invoke_internal(Delegate.java:1244)    org.jacorb.orb.Delegate.invoke(Delegate.java:1232)    org.omg.CORBA.portable.ObjectImpl._invoke(ObjectImpl.java:475)    rc._commanderStub.executeCommand(_commanderStub.java:1185)    daq.rc.CommandSender.executeCommand(CommandSender.java:358)    Igui.Igui.sendControllerCommand(Igui.java:1919)    Igui.RunControlAdvancedPanel\$ButtonActions\$1.run(RunControlAdvancedPanel.    java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java    java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.jav    java.lang.Thread.run(Thread.java:724)</p> <p><a href="#">Transition Error</a> <a href="#">Close</a></p> <p>IGUI - Transition Error</p>

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Message:

daq.rc.RCEException\$CORBAException: Failed contacting "RootController". Reason:  
Level:

SEVERE

Stack Trace:

```
Failed contacting "RootController". Reason: org.omg.CORBA.TRANSIENT: Retries
  daq.rc.CommandSender.executeCommand(CommandSender.java:431)
  daq.rc.CommandSender.makeTransition(CommandSender.java:468)
  Igui.Igui.sendRootControllerTransitionCommand(Igui.java:1890)
  Igui.MainPanel$8.run(MainPanel.java:2606)
  java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:
  java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:
  java.lang.Thread.run(Thread.java:724)
Retries exceeded, couldn't reconnect to 137.138.89.83:42921
  org.jacorb.orb.iiop.ClientIIOPConnection.connect(ClientIIOPConnection.java:
  org.jacorb.orb.giop.GIOPConnection.sendMessage(GIOPConnection.java:1072)
  org.jacorb.orb.giop.GIOPConnection.sendRequest(GIOPConnection.java:1017)
  org.jacorb.orb.giop.ClientConnection.sendRequest(ClientConnection.java:30
  org.jacorb.orb.giop.ClientConnection.sendRequest(ClientConnection.java:28
  org.jacorb.orb.Delegate._invoke_internal(Delegate.java:1419)
  org.jacorb.orb.Delegate.invoke_internal(Delegate.java:1244)
  org.jacorb.orb.Delegate.invoke(Delegate.java:1232)
  org.omg.CORBA.portable.ObjectImpl._invoke(ObjectImpl.java:475)
  rc._commanderStub.makeTransition(_commanderStub.java:1081)
  daq.rc.CommandSender.executeCommand(CommandSender.java:413)
  daq.rc.CommandSender.makeTransition(CommandSender.java:468)
  Igui.Igui.sendRootControllerTransitionCommand(Igui.java:1890)
  Igui.MainPanel$8.run(MainPanel.java:2606)
  java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:
  java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:
  java.lang.Thread.run(Thread.java:724)
```

• Logs from this time:

```
/tmp/part_BL4S/RCD@BL4SApp@TestRCAppRunning-test_app_pmg_bl4sdaq.cern.ch_1430
/tmp/part_BL4S/RCD@BL4SApp@TestRCAppRunning-test_app_pmg_bl4sdaq.cern.ch_1430
/tmp/part_BL4S/BL4SSegment_bl4sdaq.cern.ch_1430411323.err
/tmp/part_BL4S/RootController_bl4sdaq.cern.ch_1430411315.err
/tmp/part_BL4S/RCD_Monitor_bl4sdaq.cern.ch_1430411369.out
/tmp/part_BL4S/RCD_Monitor_bl4sdaq.cern.ch_1430411369.err
/tmp/part_BL4S/monitoring-conductor_bl4sdaq.cern.ch_1430411315.out
/tmp/part_BL4S/core.26581
```

• PMG lists the following: `pmg_list_partition -p part_BL4S` `Cl os`

Asking all the agents about processes running in partition part\_BL4S

APPLICATION	PARTITION	HANDLE
CHIP	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/CHIP/1
DDC	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/DDC/1
DF	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/DF/1
DFConfig	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/DFConfig/1
DQM	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/DQM/1
Histogramming	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/Histogramm
ISRepository	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/ISRepositor
MTS	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/MTS/1
Monitoring	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/Monitoring
PMG	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/PMG/1
RDB	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/RDB/1
RDB_POOL_1	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/RDB_POOL_1
RDB_RW	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/RDB_RW/1
ResInfoProvider	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/ResInfoPro
Resources	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/Resources/
RunCtrl	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/RunCtrl/1
RunCtrlStatistics	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/RunCtrlSta
RunParams	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/RunParams/
Setup	part_BL4S	pmg://bl4sdaq.cern.ch/part_BL4S/Setup/1

## Major Tasks < BL4S < TW ki

	<pre>ipc-server          part_BL4S  pmg://bl4sdaq.cern.ch/part_BL4S/ipc-server monitoring-conductor part_BL4S  pmg://bl4sdaq.cern.ch/part_BL4S/monitoring mts-worker         part_BL4S  pmg://bl4sdaq.cern.ch/part_BL4S/mts-worker BL4SApp           part_BL4S  pmg://lnxpool41.cern.ch/part_BL4S/BL4SApp/</pre>
2015-04-30	<p>Long run testing</p> <ul style="list-style-type: none"> <li>• Ran part_BL4S and TRT_Testbeam overnight</li> <li>• Both remote IGUI instances had gone</li> <li>• part_BL4S had lost a few processes</li> <li>• Later on, PMG was briefly unavailable: - This may be due to some</li> <li>• Agent log: bl4sdaq.cern.ch:/logs/tdaq-05-05-00/initial/pmg_agent_bl4sdaq.ce</li> <li>• Last job (test_app_pmg -p part_BL4S -H lnxpool41.cern.ch -a BL4S</li> <li>• Next batch of jobs all started at 17:52:49</li> <li>• Root Controller (bl4sdaq:/logs/tdaq-05-05-00/initial/DefaultRootController</li> </ul>
2015-04-29	<p>Integrated monitoring</p> <ul style="list-style-type: none"> <li>• Fixed issue with v792 channel labelling - turns out the upper a</li> <li>• Have rcd_monitor running continuously, collecting histograms eve</li> <li>• Added RCD_Monitor to BL4S configuration database as a CustomLif</li> <li>• running</li> <li>• Worked with Emre to test TRT_Monitor on TRT and BL4S hardware</li> </ul>
2015-04-26	<p>Modified DAQ school monitoring code to monitor all channels</p> <ul style="list-style-type: none"> <li>• Saved in new module RCDMonitor</li> <li>• bl4sdaq paused for ~7 minutes with the message:</li> </ul> <pre>Apr 26 17:31:16 bl4sdaq kernel: volume 537093198 is busy or server is down, r</pre> <ul style="list-style-type: none"> <li>• Strange monitoring-conductor error:</li> </ul> <pre>omniORB: From endpoint: giop:tcp:137.138.89.83:51793. Detected GIOP 1.2 proto</pre>
2015-04-22	<p>Run DAQ school monitoring program in BL4S partition</p> <ul style="list-style-type: none"> <li>• CmdLine object needs a NULL instead of 0</li> <li>• TDC data now has a timestamp as 'channel 0' and the first physio</li> <li>• Included TH2.h to produce 2D histograms</li> <li>• Published a 2D histogram of charge from QDC0 vs. QCD1</li> <li>• ROOT still has the horrific 16-bit colour palette</li> </ul>
2015-04-13	<p>Run TRT partition on TRT hardware</p> <ul style="list-style-type: none"> <li>• Fixed pmgserver issue by removing reject rule in iptables for p</li> <li>• Set addresses to match the TRT hardware</li> </ul>
2015-04-09/10	<p>Set up TEST-TRT PCs</p> <ul style="list-style-type: none"> <li>• Ran into trouble running TRT_Testbeam partition - Giovanna help</li> <li>• fail randomly</li> <li>• Had trouble getting the PMG server to start on the TRT SBC (lnx</li> <li>• have iptables rules relaxed from the default.</li> </ul>
2015-04-01	<p>Met with TRT team for discussion of requirements</p> <ul style="list-style-type: none"> <li>• Forked bl4sdaq repository to have a TRT package: <a href="https://svnweb">https://svnweb</a></li> <li>• Ran BL4S DAQ with pulser input - achieved 10kHz readout of full</li> </ul>
2015-03-26	<p>Updated to tdaq-05-05-00 with the help of Jorgen and Per</p> <ul style="list-style-type: none"> <li>• Having problems with passwordless login to lnxpool41 - need root</li> <li>• This works fine on sbctest-717</li> <li>• setup_daq sometimes has problems starting the pmgserver on lnxpool</li> </ul>
2015-03-26	<p>Updating to tdaq-05-05-00</p> <ul style="list-style-type: none"> <li>• Remember to update the project.cnt file or you'll include header</li> <li>• Updated tags for the partition and sw_repository objects in the dat</li> <li>• Starting the partition, have error message that "/logs" doesn't</li> <li>• <del>script</del> - the message comes from checking \$TDAQ_LOGS_PATH, \$TDAQ_RESU</li> <li>• <del>The path is correctly defined in the LogRoot attribute. Can't see</del></li> <li>• <del>' /afs/cern.ch/atlas/project/tdaq/databases/v41/daq/segments/setup</del></li> </ul>



Maj or Tasks < BL4S < TW ki

- The initial partition tries to connect to pc-atd-cc-02.cern.ch - wh
- IGUI Main Panel Error when clicking 'Set Values' in the Run Set

Main Panel Error

Message:

java.util.concurrent.ExecutionException: Igui.IguiException\$ISException: C

Level:

SEVERE

Stack Trace:

Igui.IguiException\$ISException: Checkout from RunParams IS server failed: is.

java.util.concurrent.FutureTask.report(FutureTask.java:122)

java.util.concurrent.FutureTask.get(FutureTask.java:188)

javax.swing.SwingWorker.get(SwingWorker.java:602)

Igui.MainPanel\$RunParamsUpdater.done(MainPanel.java:1416)

javax.swing.SwingWorker\$5.run(SwingWorker.java:737)

javax.swing.SwingWorker\$DoSubmitAccumulativeRunnable.run(SwingWorker.java

sun.swing.AccumulativeRunnable.run(AccumulativeRunnable.java:112)

javax.swing.SwingWorker\$DoSubmitAccumulativeRunnable.actionPerformed(Swing

javax.swing.Timer.fireActionPerformed(Timer.java:312)

javax.swing.Timer\$DoPostEvent.run(Timer.java:244)

java.awt.event.InvocationEvent.dispatch(InvocationEvent.java:251)

java.awt.EventQueue.dispatchEventImpl(EventQueue.java:733)

java.awt.EventQueue.access\$200(EventQueue.java:103)

java.awt.EventQueue\$3.run(EventQueue.java:694)

java.awt.EventQueue\$3.run(EventQueue.java:692)

java.security.AccessController.doPrivileged(Native Method)

java.security.ProtectionDomain\$1.doIntersectionPrivilege(ProtectionDomain

java.awt.EventQueue.dispatchEvent(EventQueue.java:703)

java.awt.EventDispatchThread.pumpOneEventForFilters(EventDispatchThread.j

java.awt.EventDispatchThread.pumpEventsForFilter(EventDispatchThread.java

java.awt.EventDispatchThread.pumpEventsForHierarchy(EventDispatchThread.j

java.awt.EventDispatchThread.pumpEvents(EventDispatchThread.java:146)

java.awt.EventDispatchThread.pumpEvents(EventDispatchThread.java:138)

java.awt.EventDispatchThread.run(EventDispatchThread.java:91)

Checkout from RunParams IS server failed: is.InfoNotCompatibleException

Igui.MainPanel\$RunParamsUpdater.doInBackground(MainPanel.java:1386)

Igui.MainPanel\$RunParamsUpdater.doInBackground(MainPanel.java:1343)

javax.swing.SwingWorker\$1.call(SwingWorker.java:296)

java.util.concurrent.FutureTask.run(FutureTask.java:262)

javax.swing.SwingWorker.run(SwingWorker.java:335)

java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java

java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.jav

java.lang.Thread.run(Thread.java:724)

null

is.Repository.getValue(Repository.java:355)

is.NamedInfo.checkout(NamedInfo.java:124)

Igui.MainPanel\$RunParamsUpdater.doInBackground(MainPanel.java:1380)

Igui.MainPanel\$RunParamsUpdater.doInBackground(MainPanel.java:1343)

javax.swing.SwingWorker\$1.call(SwingWorker.java:296)

java.util.concurrent.FutureTask.run(FutureTask.java:262)

javax.swing.SwingWorker.run(SwingWorker.java:335)

java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java

java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.jav

java.lang.Thread.run(Thread.java:724)

- This was due to an old log file that was being incorrectly pa  
be set.

2015-03-25

First run of BL4S partition in 2015!

- Readout Application hung while looking for VME modules - base ad
- CenkYildiz will commit current state into SVN then tag as last
- Tried debugging Readout Application by setting TraceLevel and Tr
- Next MajorTask is to run with tdaq-05-05-00. Will need to switc

- May look at diff of the readout modules between the bl4sdaq repo
- MonitoringSoftware expects data layout as in 2014 and so will not  
monitoring only looks at available modules and performance metrics  
configuration.

▣ Contacts ▣ Close

- Jorgen Petersen
- Giovanna Lehmann-Motto
- Per Werner

# Monitoring Software

▢ Development ▢ Close

Date	Action
2015-07-28	New monitoring programs: DWCTracking and DWCBurst Display

▢ Contacts ▢ Close

# Event Viewer

▸ Development ▾ Close

▸ Contacts ▾ Close

# Anal ysi sSof t war e

▢ Devel opment ▢ Cl ose

▢ Cont act s ▢ Cl ose

- Cen kYi l di z - Ori gi nal Au th or
- Sai m̄Sari kaya - Ori gi nal Au th or

-- Ti mBr ooks - 2015-03-25

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This topic: BL4S > Major Tasks

Topic revision: r9 - 2015-08-10 - Ti mBr ooks



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