

# Shifter's responsibilities for the Offline systems

The DQM/Offline shifter controls the following Offline systems:

- ➡ the RAW data registration, transfer and replication
- ➡ the Shuttle

by means of:

- ➡ the dashboard
- ➡ the MonALISA Shuttle monitoring page

and takes appropriate actions, as detailed in the following and in

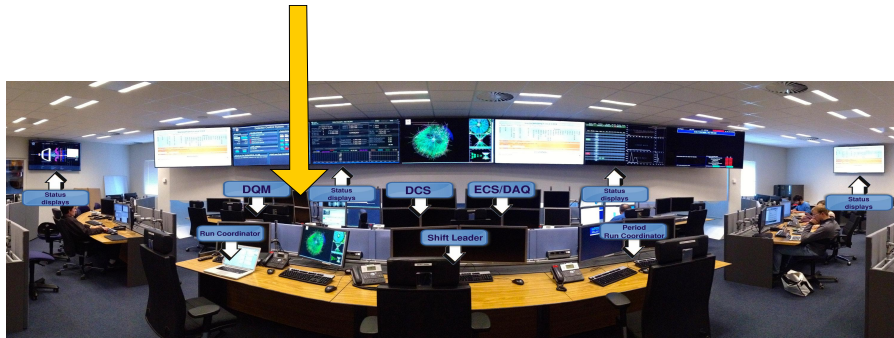
- ➡ the shifters' manual in the ALOSHI pages.

The DQM/Offline shifter's duties are listed in the shifter's checklist.



# The Offline station

The Offline station is the small screen at the right of the DQM screens.  
As Offline shifter you have autologin on the Offline station (**arcoff01**).  
This means you don't need a password to login.



RAW data



# RAW data flow

## A: P2 $\Rightarrow$ CASTOR disk

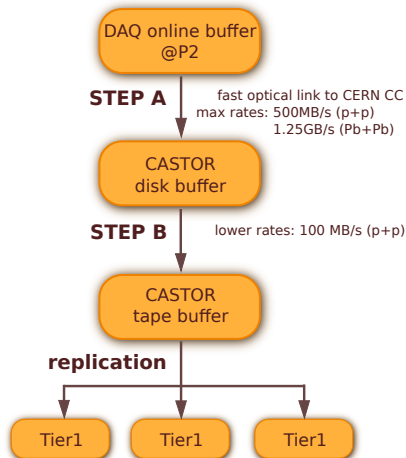
RAW data are transferred from DAQ to CASTOR disk (at different rates).

## B: CASTOR disk $\Rightarrow$ CASTOR tape

Physics runs' RAW data are copied to CASTOR tape (at lower rates).

## Replication

RAW data are transferred to Tier1s.





- ➡ Automatic and well exercised (it almost never goes wrong)
- ➡ DAQ is nominally responsible for the transfers
  - ➡ If not working, DAQ/SL notifies the shifter and/or the [alice-shift-alarms@cern.ch](mailto:alice-shift-alarms@cern.ch) expert list
- ➡ Offline provides the gateway for registering the files in the AliEn File Catalogue

## Shifter's duties:

- ➡ follow the registration of RAW data [▶ see dashboard](#)
- ➡ monitor the filling of the CASTOR buffer [▶ see dashboard](#)



# From CASTOR disk to CASTOR tape

- ➡ All PHYSICS data get copied to tape. No action required from the shifter.



- After RAW is recorded to tape in CASTOR a copy is made to two remote T1 centres for custodial storage and processing
  - The replication is an automatic process, triggered at EoR
  - Progress is displayed on the dashboard
- Shifter's responsibility:
  - the process is fully automatized
  - if physics runs are not replicated in the last 12 hours, add a note in the EOS report (mentioning run numbers) and send list of stuck runs also to [alice-shift-alarms@cern.ch](mailto:alice-shift-alarms@cern.ch)



## The Shuttle



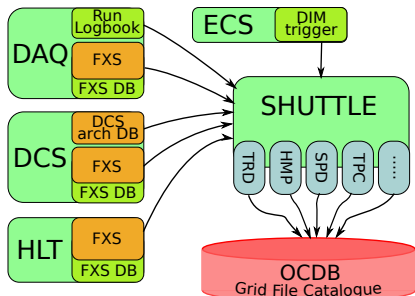
- ▶▶▶ the Shuttle: short description
- ▶▶▶ the Shuttle status (online/offline)
- ▶▶▶ the MonAlisa Shuttle web page
- ▶▶▶ how to read the Logs
- ▶▶▶ the Detectors Preprocessors Flow
- ▶▶▶ what to do in case of failures



# Shuttle and Preprocessors

The Shuttle is the ALICE Online-Offline software framework. It steers detector specific procedures (**preprocessors**) to:

- ▶ extract conditions (calibration and alignment) from on-line systems
- ▶ consolidate them and
- ▶ upload them to the OCDB



# Monitoring the Shuttle

- Quick overview from the dashboard.
- Full view from the MonAlisa Shuttle monitoring page.
- Linked also from the navigation section of the MonAlisa main page: Shuttle Production@P2

ALICE Repository

- Google Map
- Shifter's dashboard
- Run Condition Table
- Production Overview
- Production info
- Job Information
- SE Information
- Services
- Network Traffic
- FTD Transfers
- Calibration
- SHUTTLE
- Production@P2
- Real jobs
- Build system
- HelpDoc
- Dynamic charts

This page bookmark URL

Running jobs trend

248 120 60 30

(Click arrow for detailed view)

Monitoring for SHUTTLE for data taking at Point2 (click here to go to the test setup)  
SHUTTLE running ARRoot version v5-02-Rev-27 (rev. #58465)  
SHUTTLE statistics (current status: ONLINE, processing run: 189380, unprocessed runs: 1)  
DCS errors/last hour: 0, FKS errors/last hour: 0, GRP failures/last hour: 0, OCDB errors/last hour: 0

Run#	Run type	First seen	Last seen	SHUTTLE	ACC	EMC	FMD	GRP	HLT
189380	TECHNICAL	today 12:24	today 12:25	Done 0	Skipped(1) 0	Skipped(1) 0		Skipped(1) 0	Done(1) 0
189379	TECHNICAL	today 11:38	today 11:39	Done 0	Skipped(1) 0	Skipped(1) 0	Skipped(1) 0	Skipped(1) 0	Done(1) 0
189378	STANDALONE_PEDestal	today 11:21	today 11:22	Done 0				Skipped(1) 0	Done(1) 0
189377	TECHNICAL	today 11:28	today 11:28	Done 0	Skipped(1) 0	Skipped(1) 0	Skipped(1) 0	Skipped(1) 0	Done(1) 0
189376	TECHNICAL	today 11:07	today 11:07	Skipped					
189375	TECHNICAL	today 10:57	today 10:57	Skipped					
189374	STANDALONE_PEDestal	today 10:28	today 10:29	Done 0				Skipped(1) 0	Done(1) 0
189373	PEDestal	today 10:07	today 10:09	Done 0				Done(1) 0	Done(1) 0
189372	PEDestal	today 10:14	today 10:16	Done 0				Done(1) 0	Done(1) 0
189371	CALIBRATION	today 10:06	today 10:07	Done 0				Done(1) 0	Done(1) 0
189370	STANDALONE_PEDestal	today 10:05	today 10:06	Done 0				Skipped(1) 0	Done(1) 0
189369	PULSER	today 09:58	today 10:05	Done 0				Done(1) 0	Done(1) 0
189368	PEDestal	today 09:56	today 09:58	Done 0				Done(1) 0	Done(1) 0
189367	PEDestal	today 09:53	today 09:56	Done 0	Done(1) 0			Done(1) 0	Done(1) 0
189366	PHYSICS	today 09:40	today 09:53	Done 0				Done(1) 0	Done(1) 0
189365	PHYSICS	today 09:06	today 09:19	Done 0				Done(1) 0	Done(1) 0
189364	PHYSICS	today 07:58	today 08:12	Done 0				Done(1) 0	Done(1) 0
189363	PHYSICS	today 07:25	today 07:40	Done 0				Done(1) 0	Done(1) 0
189362	PHYSICS	today 06:10	today 07:09	Done 0	Done(1) 0			Done(1) 0	Done(1) 0
189361	STANDALONE	today 02:47	today 02:47	Skipped					
189360	PEDestal	today 02:44	today 02:56	Done 0				Done(1) 0	Done(1) 0
189359	PHYSICS	today 02:57	today 04:15	Done 0				Done(1) 0	Done(1) 0
189358	PHYSICS	today 01:38	today 01:54	Done 0				Done(1) 0	Done(1) 0
189357	PHYSICS	today 00:59	today 01:19	Done 0				Done(1) 0	Done(1) 0
189356	PHYSICS	today 00:49	today 01:19	Done 0				Done(1) 0	Done(1) 0
189355	PHYSICS	yesterday 23:45	yesterday 23:53	Done 0				Done(1) 0	Done(1) 0
189354	PULSER	yesterday 23:17	yesterday 23:17	Done 0				Skipped(1) 0	Done(1) 0
189353	PULSER	yesterday 23:04	yesterday 23:07	Done 0				Done(1) 0	Done(1) 0
189352	PULSER	yesterday 22:53	yesterday 22:55	Done 0				Done(1) 0	Done(1) 0



# Shuttle **online**/offline state

The MonALISA Shuttle pages show the state of the Shuttle:

- it is either **offline** or **online**
- the **offline** state is already the result of a failed automatic restarting procedure

Monitoring for SHUTTLE for data taking at P10n2 (click here to go to the test setup)

SHUTTLE running AllRoot version v5-05-Rev-17 (prod\_2260c74)

SHUTTLE status: ONLINE, processing run: 206033

DCS errors/last hour: 0, FXS errors/last hour: 0, OCDB errors/last hour: 0

RunID	Run type	First seen	Last seen	SHUTTLE	ACO	EMC	FMD	GRP	HLT	HMP	MCH	MTR	PHS	CPV	PMD	SPD	SDD	SSD	TPC	TRD	TRI	T00	V00	ZDC
205045	STANDALONE	today 17:34	today 17:34	Skipped																				
205044	STANDALONE	today 17:23	today 17:23	Skipped																				
205043	STANDALONE	today 17:23	today 17:23	Skipped																				
205042	STANDALONE	today 17:15	today 17:15	Skipped																				
205041	CALIBRATION	today 17:16	today 17:24	Done 0%				Done 0%		Done 0%												Skipped 0%		
205040	STANDALONE	today 17:15	today 17:15	Skipped																				
205039	STANDALONE	today 17:08	today 17:08	Skipped																				
205032	STANDALONE	today 16:08	today 16:08	Skipped																				
205031	STANDALONE	today 16:08	today 16:08	Skipped																				

Keep regularly an eye on the Shuttle state and call the Offline on-call in case it is **offline**.





# Monitoring the Shuttle



MonALISA Repos

Monitoring for SHUTTLE for data taking at Point2 (click [here](#) to go to the test setup)  
SHUTTLE running AliRoot version v5-02-Feb-27 (rev. #58469)  
SHUTTLE statistics (current status: **ONLINE**, processing rate: **188404**, unprocessed runs: **0**)  
DCS errors/last hour: **0** FXS errors/last hour: **0** GRP failures/last hour: **0** OCDB errors/last hour: **0**

Online/Offline  
current AliRoot version  
currently processed run  
number of unprocessed runs

latest DCS errors  
latest FXS errors  
latest GRP failures  
latest OCDB failures

Run#	Run type	First seen	Last seen	SHUTTLE	ACO	EMC	FMD	GRP	HLT	HMP
			Last day							
		today 08:57	today 08:58	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
		today 08:38	today 08:38	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
		today 07:29	today 07:29	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
188401	PEDESTAL	today 05:35	today 05:39	Done h	Skipped (1) h	Skipped (1) h		Done (1) h	Done (1) h	Skipped (1)
188400	PEDESTAL			Done (1) h	Skipped (1) h	Skipped (1) h		Done (1) h	Done (1) h	Skipped (1)
188399	TECHNICAL			Skipped (1) h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
188398	TECHNICAL			Skipped (1) h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
188397	TECHNICAL	today 01:53	today 01:53	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
188396	TECHNICAL	today 01:41	today 01:42	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
188395	TECHNICAL	yesterday 23:53	yesterday 23:53	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
188394	TECHNICAL	yesterday 22:27	yesterday 22:27	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
188393	TECHNICAL	yesterday 22:08	yesterday 22:08	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
188392	TECHNICAL	yesterday 20:52	yesterday 20:53	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
188391	TECHNICAL	yesterday 18:28	yesterday 18:29	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
188390	CALIBRATION_BC	yesterday 18:06	yesterday 18:13	Done h	Skipped (1) h	Skipped (1) h		Done (1) h	Done (1) h	Skipped (1)
188389	TECHNICAL	yesterday 18:06	yesterday 18:06	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
188388	TECHNICAL	yesterday 17:29	yesterday 17:29	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)
188387	TECHNICAL	yesterday 16:21	yesterday 16:22	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h	Skipped (1)

EMC: Run number: 188394  
TECHNICAL

This page: bookmark, URL



ALICE

# Monitoring the Shuttle

general info		preprocessors' columns				
Last seen	SHUTTLE	ACO	EMC	FMD	GRP	HLT
today 08:58	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h
today 08:38	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h
today 07:29	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h
today 05:39	Done h				Done (1) h	Done (1) h
today 05:25	Done h				Done (1) h	Done (1) h
today 05:19	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h
today 05:17	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h
today 01:53	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h
today 01:42	Done h	Skipped (1) h	Skipped (1) h		Skipped (1) h	Done (1) h

Messages can come either from the Shuttle or from the preprocessors.

```

2012-09-14 03:35:49 UTC (2906): GRP - run 188401 - Process - Starting processing
I-AliShuttle::Log: 2012-09-14 03:35:49 UTC (27935): SHUTTLE - run 188401 - Executing TGrid::Connect
-> Trying to connect to server [0] root://alice.cern.ch:18000 as User alidag
I-AliShuttle::Log: 2012-09-14 03:35:49 UTC (27935): SHUTTLE - run 188401 - ProcessCurrentDetector - Retrieving values for GRP, run 188401
I-AliShuttle::Log: 2012-09-14 03:35:49 UTC (27935): SHUTTLE - run 188401 - CleanReferenceStorage - Cleaning /home/shuttle/SHUTTLE_PROD/SHUTTLE_LocalShuttleRefStorage/GRP
I-AliShuttle::Log: 2012-09-14 03:35:49 UTC (27935): GRP - run 188401 - Checking if run type PEDESTAL is in the list of run types to be processed by this preprocessor...
I-AliShuttle::Log: 2012-09-14 03:35:49 UTC (27935): GRP - run 188401 - Run type found. Processing this run.
I-TFile::OpenFromCache: using local cache copy of /alien/alice/data/2012/OCDB/GRP/CTP/DummyConfig/Run0_999999999_v1_s0.root [/tmp/OCDBCache//alice/data/2012/OCDB/GRP/CTP/Dum
I-AliGRPPreprocessor::Initialize: Initialization of the GRP preprocessor.
I-AliGRPPreprocessor::Initialize: Start Time DCS = 1347592864
I-AliGRPPreprocessor::Initialize: End Time DCS = 1347593013
I-AliGRPPreprocessor::Initialize: Pressure Entries: 3
I-AliShuttle::Log: 2012-09-14 03:35:49 UTC (27935): SHUTTLE - run 188401 - UpdateShuttleStatus - GRP: Changing state from Started to DCSStarted
I-AliShuttle::Log: 2012-09-14 03:35:50 UTC (27935): GRP - run 188401 - ProcessCurrentDetector - Querying DCS Amanda server alidcsamanda.cern.ch:1337 (1 of 1)
I-AliShuttle::Log: 2012-09-14 03:35:50 UTC (27935): GRP - run 188401 - Querying 47 DCS aliases
I-AliDCSClient::GetValues: Retrieved entries 0.46 (total 0.46); E.g. L3Current has 7 values collected
I-AliShuttle::Log: 2012-09-14 03:35:52 UTC (27935): SHUTTLE - run 188401 - UpdateShuttleStatus - GRP: Changing state from DCSStarted to PPSStarted
I-AliShuttle::Log: 2012-09-14 03:35:53 UTC (27935): GRP - run 188401 - ***** Processing DAQ logbook
I-AliShuttle::Log: 2012-09-14 03:35:53 UTC (27935): GRP - run 188401 - Start time for run 188401: 1347592936
I-AliShuttle::Log: 2012-09-14 03:35:53 UTC (27935): GRP - run 188401 - End time for run 188401: 1347592960
I-AliShuttle::Log: 2012-09-14 03:35:53 UTC (27935): GRP - run 188401 - Beam Energy for run 188401: 4000.000000 (NOT USING IT TO FILL THE GRP OBJECT, taking it from the LHC f
I-AliShuttle::Log: 2012-09-14 03:35:53 UTC (27935): GRP - run 188401 - Beam Type for run 188401: p-p (NOT USING IT TO FILL THE GRP OBJECT, taking it from the LHC file)
I-AliShuttle::Log: 2012-09-14 03:35:53 UTC (27935): GRP - run 188401 - Number Of Detectors for run 188401: 1
I-AliShuttle::Log: 2012-09-14 03:35:53 UTC (27935): GRP - run 188401 - Detector Mask for run 188401: 1024
I-AliShuttle::Log: 2012-09-14 03:35:53 UTC (27935): GRP - run 188401 - LHC period (DAQ) for run 188401: LHC12g
  
```



- ➡ Logs are available per run for all preprocessors involved in the run (active detectors interested in the run type):  
click on status (**Done**, **Failed**) at run (row) – DET (column) intersection.



- Every information is associated with a timestamp which is expressed in UTC  $\Rightarrow$  corresponds to Geneva time **minus one hour in winter**, **minus two hours in summer**
- ➡ The Shuttle steering process appears in the table as all preprocessors, its logs are accessible in the same way
- ➡ In case of failure, an email is automatically sent to a list of responsables (the recipients' email addresses are listed at the end of the log)

- Each preprocessor sets (in its code) the run types of interest
- Only runs taken within the ECS framework can be processed by the Shuttle (not runs from the DAQ Run Control)
- The GRP preprocessor is run only for a subset of `run types`
- Two different error codes conventions for:
  - ➔ preprocessors `AliDETPreprocessor::Process`
    - ✓ exit code 0  $\Leftrightarrow$  success
    - ✗ exit code >0  $\Leftrightarrow$  failure
  - ➔ AliShuttle steering method `AliShuttle::ProcessCurrentDetector`
    - ✓ 1  $\Leftrightarrow$  success
    - ✗ 0  $\Leftrightarrow$  failure



## In practice:

➡ Process - Client process of 192029 - DET is exiting now with 1.

⇔ the preprocessor for DET was processed successfully

➡ I-AliShuttle::Log: 2012-11-08 17:04:04 UTC (16044): DET - run 191760 - ProcessCurrentDetector - Preprocessor failed. Process returned 1.  
I-AliShuttle::Log: 2012-11-08 17:04:04 UTC (16044): Shuttle - run 191760 - UpdateShuttleStatus - DET: Changing state from PPstarted to PPErrror  
I-AliShuttle::Log: 2012-11-08 17:04:04 UTC (16044): Shuttle - run 191760 - \*\*\*\*\* run 191760 - DET: ERROR \*\*\*\*\*

I-AliShuttle::Log: 2012-11-08 17:04:04 UTC (16044): Shuttle - run 191760 - Process - Client process of 191760 - DET is exiting now with 0.

⇔ the preprocessor for DET failed.

# Take action!

- ⚠ Take action for **GRP**, **DCS** and **FXS** errors (keep an eye on the heading of the monitoring page).
- ⚠ If not solved, those errors prevent the possibility to reconstruct the concerned runs.
- ⚠ Check the log files by clicking on the **Failed** or **PPError** or **DCSError** or **FXSError**. The last lines will be particularly revealing of the cause of the failure.
- ✓ in case of **StoreErrors** notify the offline on-call, after having checked whether the OCDB is accessible, in case the problem persists for more than 1 hour.
- ✓ in case of failing preprocessors (**PPError**, **Failed**) responsables are notified automatically. No need to inform experts (but in the GRP case, which is a special preprocessor, as explained above).



# GRP failure: Take action!

- ⚠ In case of GRP failure, check the log file of the run by clicking on the **Failed** or **PPError** symbol for the GRP in the given run. The last lines of the log will clarify the issue. E.g.:
  - ▶ GRP Preprocessor FAILS!!! (Trigger Configuration ERROR)
  - ▶ GRP Preprocessor FAILS!!! (DCS ERROR)
- ⚠ Contact the shifter of the corresponding system (Trigger or DCS, in the example above), passing all the informations made available by the log
- ⚠ Inform the shift leader and the of the problem: no reconstruction will be possible for that run



# DCS and FXS errors: Take action!

- ⚠ Find the detector that fails with **DCSError** and inform the DCS shifter about the problem and the detector concerned.
- ⚠ Find the detector that fails in **FXSError** and look in its log file to find out which subsystem FXS retrieval failed (can be DAQ or DCS or HLT). Inform the corresponding subsystem shifter and the SL.  
Examples of error messages:
  - ➡ (Trigger Scalers not found in FXS - ERROR)
  - ➡ (FXS Error for LHC Data)
- ⚠ The cause of combined errors (e.g. **DCS (or DAQ) FXS Error for LHC (or CTP) Data**) can be in either of the systems (e.g. in the LHC (CTP) subsystem or in the FXS itself). In this case contact the SL and the DCS or DAQ shifter, (s)he will in case notify the LHC or CTP expert on call.
- 👉 Whenever it is instructive, show the shifter or the SL the log file.
- 📎 For all the critical issues mentioned above, report the problem in the End Of Shift report





## Information for the Offline shifters



# ALOSHI: single access point for information

<https://aloshi.cern.ch>

The **ALICE** Offline **SHifter** Interface (**ALOSHI**) provides to the Offline Shifter a single point of access for browsing and editing information and documentation.

It allows to:

- ▶ publish structured documentation for Shifter's operations and tasks;
- ▶ search easily for information in the database of the shift reports and in the documentation.

ALICE Offline Shifter Interface

Home | Sections | Shift reports | Create content

Feedback | My account | Log out

You are currently logged in as: Raffaele Grosso

Welcome to ALOSHI!

Welcome to ALICE Offline Shifter Interface!

This page contains links to the resources Shifter will monitor or use during their shift as well as links to shift reports area.

- Shifter's Operations Checklist
- Offline Shifter Operations Manual
- Offline Shifter's dashboard
- ALICE DAQ Logbook
- Offline Shifter Tutorials (slides)

**Important note:** You must log out after your shift has ended. The only correct way of leaving ALOSHI is the Log out link in the Navigation bar. Leaving the Interface in any other way can lead to security issues (e.g. other shifters will have access to your account in the Logbook).

SEARCH

Search More options

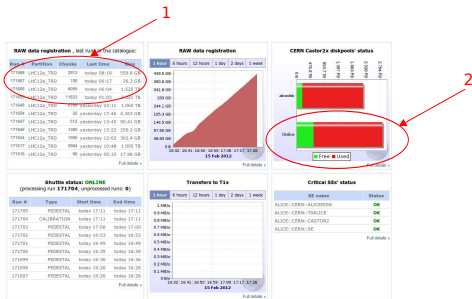


- ➡ Any member of ALICE collaboration can access ALOSHI (<https://aloshi.cern.ch>) with its AFS-NICE CERN password.
  - ➡ No registration is needed.
- ➡ The main page contains (among others) links to:
  - ➡ Shifter's Operations Checklist;
  - ➡ Offline Shifter's Operation Manual;
  - ➡ Offline Shifter's Dashboard;
  - ➡ ALICE DAQ Logbook.
- ➡ Any authenticated user can edit documentation. Modifications to Offline documentation must be agreed with Offline RC (Latchezar).

# The shifter's dashboard

The shifter's dashboard provides an overview of the systems to be monitored. The shifter:

- 1 compares the last registered runs with the last taken runs. If the registration is too far behind the data taking (1-2 hours), contacts the SL and the DAQ shifter to check if DAQ is indeed not asking for registration (e.g. empty runs).



- 2 checks the status of the CASTOR diskpool. If the free space appears to be too small (<5%) notifies the SL and the Offline expert.

▶ back to step A



Summary of required actions:

The shifter's check list



ALICE

# The shifter's check list

Summary of shifters' duties available in the `shifter's checklist`:

- ▶ Monitoring of RAW data registration (dashboard)
  - ▶ Periodic check of the status
  - ▶ Follow PHYSICS runs (start/stop in DAQ logbook) and their registration to CASTOR
  - ▶ Report registration errors to [alice-shift-alarms@cern.ch](mailto:alice-shift-alarms@cern.ch)
- ▶ Monitoring of the data replication (dashboard)
  - ▶ Periodic check of replication status
  - ▶ Note “stuck” runs (not processed 12 hours after registration) in the shifter report pages and sent list to [alice-shift-alarms@cern.ch](mailto:alice-shift-alarms@cern.ch)




# The shifter's check list

- ▶ Monitoring of Shuttle operation (dashboard)
  - ▶ Follow on processing of all runs + global Shuttle messages
  - ▶ In case of persistent detector preprocessor failures, submit a note in the EOS report
  - ▶ In case of system failures (DAQ, DCS, HLT) try to narrow down the issue, contact SL and report to system shifter, annotate logbook.
  - ▶ In case of Shuttle failures, if automatic restart procedure fails, report to the Offline on-call
- ▶ Reporting issues:
  - ▶ Report issues in the ALICE logbook with reference to the runs concerned.
  - ▶ At end of shift write down a summary of the operations and of noteworthy events (in the alice-logbook).



## The right mood

- ▶▶▶ Before pressing the  make sure to apply the procedures and rules defined for each failure type
  - ▶▶▶ alosi has a search feature, use it to look for similar problems and solutions
- ▶▶▶ Try out the remedies
- ▶▶▶ If all fails, inform the `on-call expert`



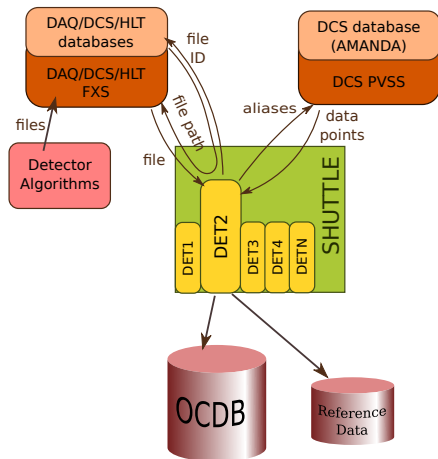


Enjoy your shifts!



ALICE

# Shuttle and Preprocessors



Steered by the Shuttle, detector preprocessors retrieve:

- ➔ files from the File eXchange Servers
- ➔ a map of Data Points from the DCS interface

valid for the given detector and the given run/time stamp.

These data are processed and published in the Offline Conditions Data Base as CDB objects (root files in AliEn).



# Preprocessors' status flow

