Status of the Shuttle Framework
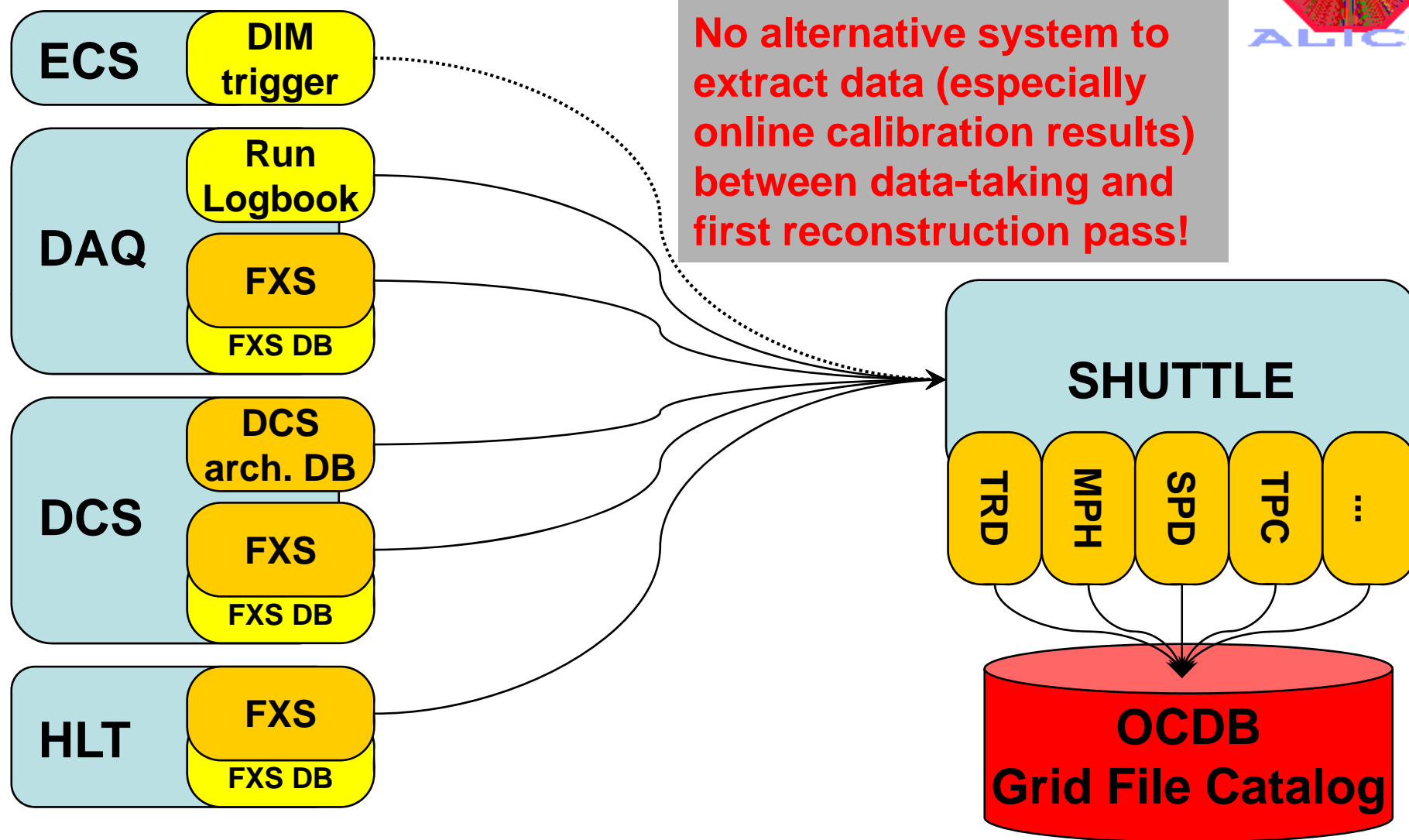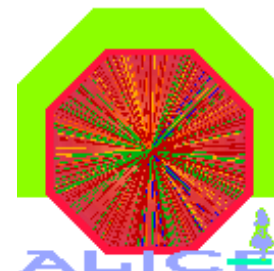
Preprocessor status and tests

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Offline Week, 11.04.08

for Alberto Colla

The Shuttle

ECS — DIM trigger

DAQ — Run Logbook / FXS / FXS DB

DCS — DCS arch. DB / FXS / FXS DB

HLT — FXS / FXS DB

No alternative system to extract data (especially online calibration results) between data-taking and first reconstruction pass!

SHUTTLE

TRD · MPH · SPD · TPC · …

OCDB Grid File Catalog

Recent Developments

- FXS error handling: In case of an error with the FXS the processing is repeated (new status: FXS Error)

- If the storing to OCDB is delayed (because previous unprocessed runs exist) the monitoring now displays "Store Delayed"

- The monitoring page distinguishes between Processing/Pending

- AliPreprocessor::GetHLTStatus implemented

Recent Developments (2)

- After successful processing an entry is created in the AliEn File Catalog to allow automatic reconstruction to start, /alice/data/2008/LHC08a/SHUTTLE_DONE/123

- AliPreprocessor::AddRunType added; only run types that are declared in subdt's preprocessor are processed (status: Skipped)
  - Required action from subdt → Add the desired run types in the constructor. E.g. AddRunType("PHYSICS").
  - Implemented by all subdt, except ACORDE

Easier Monitoring
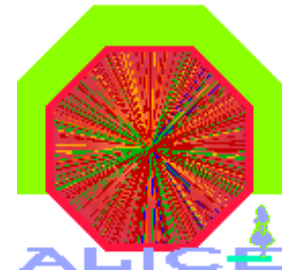
Run#	Run type	First seen	Last seen	SHUTTLE	ACO	EMC	FMD
			Last day				
6327	DAQ	today 15:55	today 15:56	Processing h			
6326	GAIN	today 15:55	today 15:55	Done h			Done (1) h
6325	STANDALONE_EMD	today 15:55	today 15:55	Done h			
6324	STANDALONE_PEDESTAL	today 15:54	today 15:55	Done h			
6323	NOISE	today 15:54	today 15:54	Done h			
6322	PULSER	today 15:53	today 15:54	Pending h			
6321	CALIBRATION	today 15:52	today 15:53	Done h			
6320	PEDESTAL	today 15:48	today 15:52	Pending h			Done (1) h
6319	STANDALONE	today 15:31	today 15:48	Pending h			Done (1) h
6318	DAQ_NOISY_PIX_SCAN	today 15:31	today 15:31	Pending h			
6317	GMS	today 15:31	today 15:31	Done h			
6316	PEDESTAL_RUN	today 15:31	today 15:31	Done h			
6315	PHYSICS	today 15:03	today 15:31	Pending h	Skipped (1) h	Done (1) h	Done (1) h
6314	LASER	today 01:40	today 01:57	Done h			

Updated Statuses
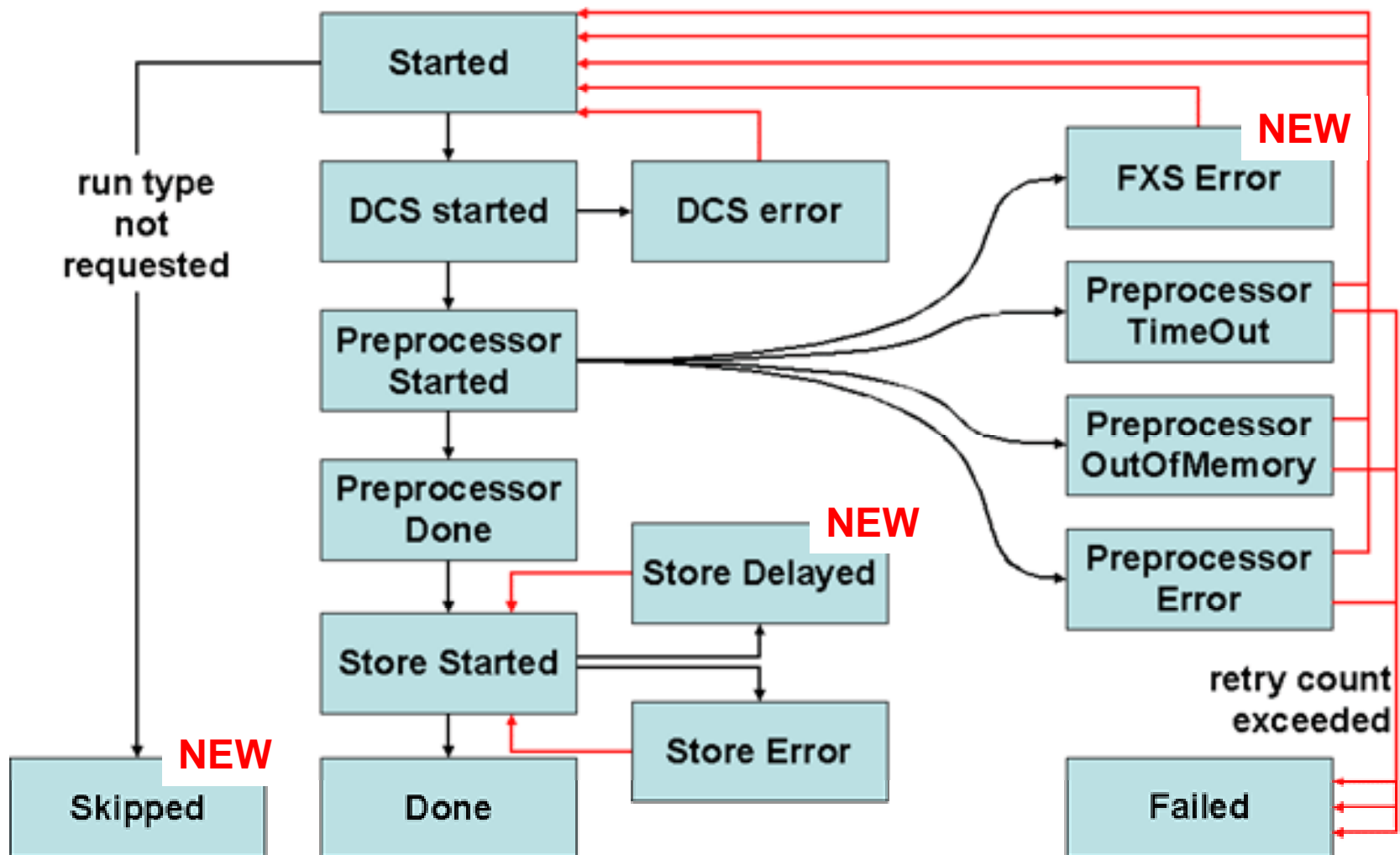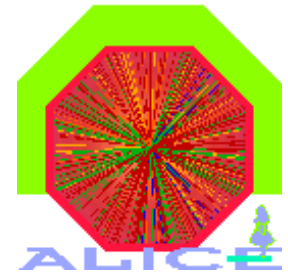
Preprocessor Readiness

	GRP	ACO	EMC	FMD	HMP	MCH	MTR	PHS	CPV	PMD	SPD	SDD	SSD	TOF	TPC	TRD	T0	V0	ZDC
Preprocessor		X		X			X		X										
Test	X			X			X	X	X						X		X	X	
Failover Test	X						X	X	X		X		X			X		X	X
DAQ DA	X				X	X	X				X	X	X				X	X	X
DAQ FXS output files				X			X											X	
DCS DP names							OX		OX	X	O	X							
Preprocessor reads DPs							OX		OX	X	O	X					X		
DCS DA	O	O			O		OX			O	O	O	O	X			OX	O	O
DCS FXS output files	X	O			O		OX			O	O	O	O	X			OX	O	O
HLT DA	O	O		O	O	O	OX			O	O	O	O	O	X		O	O	O
HLT FXS output files	O	O		O	O	O	OX	X		O	O	O	O	O			O	O	O

O = nothing to be done   **X** = Changed since 11.10.07   Last Update: 10.04.08
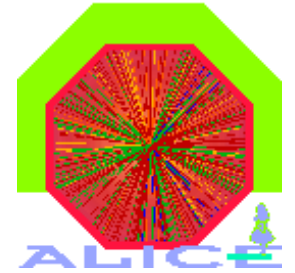
Policy

- Shuttle in Commissioning / Physics run will follow official release for that run

- Updates to the release branch are only permitted, if the preprocessor

  - passes all normal operation tests

  - passes the failover tests

  in the test setup

- This will be strictly enforced, therefore make sure you pass all the tests already now

Open Issues

- Implementation of keep-alive message handling in AliDCSClient (by Shuttle team)
  - Test server of DCS in place
- Bonus values in DCS retrieval ($\rightarrow$ at least one value in each run) by DCS
- Test new EOR trigger
  - Came available by ECS one week ago

Backup

Sequence diagram

EoR   EoR2   SoR

ECS

DAQ

DCS (Calib runs)

HLT

DCS (Arch. DB)

SHUTTLE

OCDB

Loop over all detectors
Registration of condition files
Interfaces with info providers

| ACORDE | EMCAL | HMPID | FMD | ITS | MUON | PHOS | PMD | T0 | TOF | TPC | TRD | V0 | ZDC |

Detector preprocessors