Reliability and Availability of the T1 sites during the Christmas Period: ALICE report

WLCG-MB, CERN 27-01-09

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SAM framework for ALICE: last news

- Entablishment of a collaboration with VECC-T2 site (India) for the improvement and maintenance of the SAM structure for the ALICE experiment
  - Based on the good experiences gained in the past while creating the SAM-VOBOX test environment for ALICE
  - Defined again in November 2008
  - November-December 2008 achievements:
    - Documentation of the SAM-VOBOX test suite for ALICE
    - Migration of the CE sensor tests from RB to WMS submission mode
  - Future plans:
    - Creation of a WMS sensor test suite
    - (Proposed already during the F2F MB meeting in November 2008)

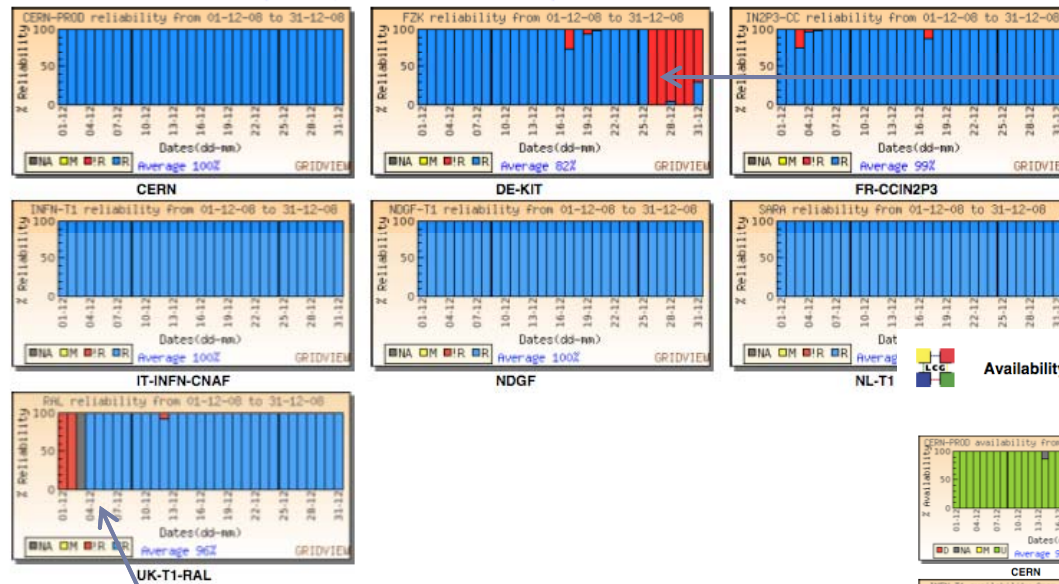# December 2008 results

▸ Good results for all T1 sites in Dec'08

FZK instabilities during one week in December
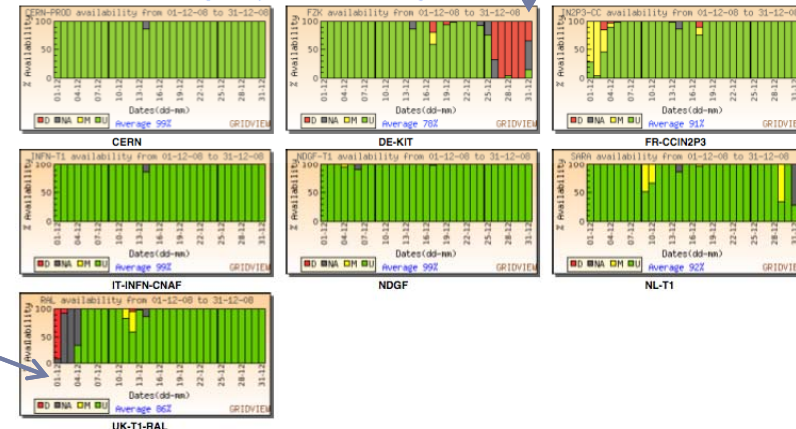
RAL instabilities during few days in December

FZK Status

- SAM reported errors asociated to the CE sensor related to the job submission test (CT for ALICE)
  - Affecting all CEs at the site
    - ce-[1...5]-fzk.gridka.de
    - Period from 26/12 until 31/12
    - ce-4 was declared in scheduled downtime from 22/12 until the 07/01
    - The SAM report shows a problem associated to the local queue

```
          ---
Event: Done
- Arrived              =    Fri Dec 26 20:30:52 2008 CET
- Exit code            =    1
- Host                 =    wms103.cern.ch
- Reason               =    Got a job held event, reason: Unspecified gridmanager error
- Source               =    LogMonitor
- Src instance         =    unique
- Status code          =    FAILED
- Timestamp            =    Fri Dec 26 20:30:50 2008 CET
- User                 =    /DC=ch/DC=cern/OU=Organic
Units/OU=Users/CN=pmendez/CN=477458/CN=Patricia Mendez Lorenzo/CN=proxy/CN=proxy
          ---
Event: Done
- Arrived              =    Fri Dec 26 20:31:43 2008 CET
- Exit code            =    1
- Host                 =    wms103.cern.ch
- Reason               =    Job got an error while in the CondorG queue.
- Source               =    LogMonitor
- Src instance         =    unique
- Status code          =    FAILED
- Timestamp            =    Fri Dec 26 20:31:42 2008 CET
- User                 =    /DC=ch/DC=cern/OU=Organic
Units/OU=Users/CN=pmendez/CN=477458/CN=Patricia Mendez Lorenzo/CN=proxy/CN=proxy
          ---
```

- Corresponding to the 26th of December
- ce-2-fzk.gridka.de (Similar results for the rest of the queues)
- Job was properly assgined by the WMS

Question associated to SAM

- Status of FZK (site with 5 CEs) during Dec08
 - At a certain point the situation of FZK was the following:
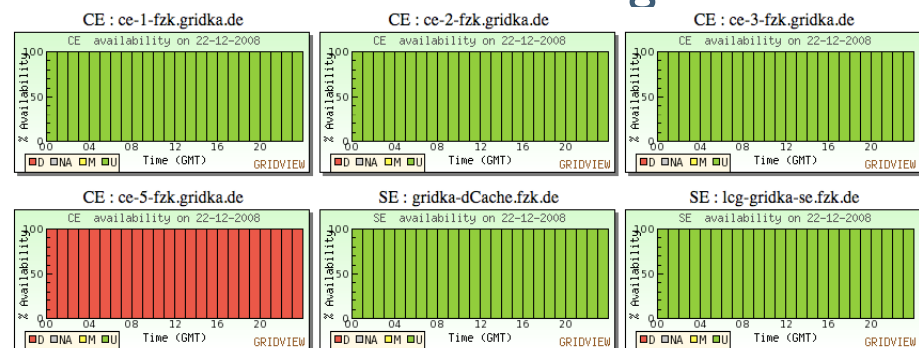   - 3 CEs properly running
    - 1 CE fully down
    - 1 CE in scheduled downtime
  - The final status of the site

at that point was fully available

(from the CE sensor point of view)
  - It seems that it is enough one CE

at the site properly running to consider the site as fully available
    - At the same level that any other site with the whole bunch of CEs properly working
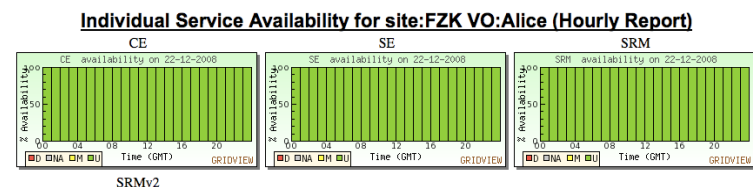
RAL Status

▸ RAL had some issues at the beginning of the Dec'08 during some few days

```
Event: Done
- exit_code              =    1
- host                   =    rb113.cern.ch
- level                  =    SYSTEM
- priority               =    asynchronous
- reason                 =    Got a job held event, reason: Globus error 131: the user proxy
expired (job is still running)
- seqcode                =
UI=000003:NS=0000000003:WM=000004:BH=0000000000:JSS=000003:LM=000007:LRMS=000000:APP=000000
- source                 =    LogMonitor
- src_instance           =    unique
- status_code            =    FAILED
- timestamp              =    Mon Dec  1 01:10:10 2008
- user                   =    /DC=ch/DC=cern/OU=Organic
Units/OU=Users/CN=pmendez/CN=477458/CN=Patricia Mendez Lorenzo
          ---
Event: Done
- exit_code              =    1
- host                   =    rb113.cern.ch
- level                  =    SYSTEM
- priority               =    asynchronous
- reason                 =    Job got an error while in the CondorG queue.
- seqcode                =
UI=000003:NS=0000000003:WM=000004:BH=0000000000:JSS=000003:LM=000009:LRMS=000000:APP=000000
- source                 =    LogMonitor
- src_instance           =    unique
- status_code            =    FAILED
- timestamp              =    Mon Dec  1 01:10:27 2008
- user                   =    /DC=ch/DC=cern/OU=Organic
Units/OU=Users/CN=pmendez/CN=477458/CN=Patricia Mendez Lorenzo
          ---
```

• User Proxy problem observed at the queue
• Job properly submitted by the RB, began to see the problems at the CE level

RAL effects for the ALICE production

- No ALICE jobs beeing executed at the site at that moment
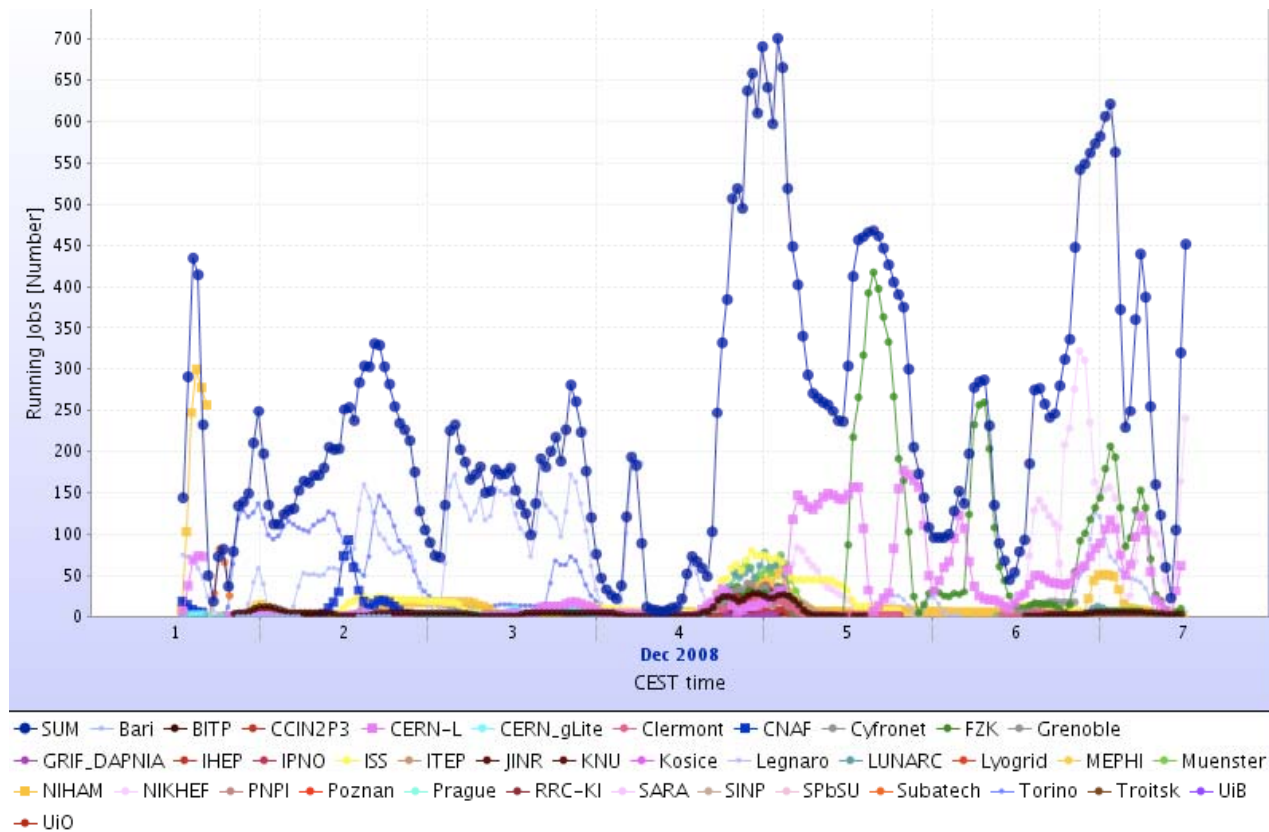
Conclusions

▸ Although not running a large number of jobs, ALICE was in production at that time

▸ T1 stability in Dec.08 was very good for ALICE

  ▸ The T1 support was efficient (as usual)

▸ Dec08 running period - mostly WMS related issues - presented at GDB in January, being addressed

▸ The inclusion of a new sensor related to the WMS and the **setup of the CREAM-CE at all sites** are the most important goals of the experiment at this moment

▸