

OMB, July 28 th

Vapor

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www.egi.eu

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VAPOR : Vo Administration and operations PORtal

V2.0 in production since March 15th

- ✓ Job Monitoring
- ✓ Data Management
- ✓ Integrate cloud resources
- ✓ Integrate a resource browser



V 2.1 in production - August ?

- ✓ Corrections of bugs
- ✓ Integration of feedback
- ✓ Gstat features with new menu
- ✓ http://operations-portal.egi.eu/vapor_dev

VAPOR MAIN MODULES

1) Resources overview

- ✓ Different summaries of the Top Bdii information through maps, charts, table
- ✓ Distribution of the resources (NGI , Sites ⇔ VO)

2) Resources explorer

- ✓ Tree browsers giving information about resources (Computing Elements , Storage Elements, Faulty resources, Cloud resources)
- ✓ NGI , VO , Cloud views
- ✓ TopBDII browser

3) Data management

- ✓ Use of scripts to check CE usages , performances of the jobs
- ✓ Inherited from previous version

4) Job Monitoring

- ✓ Use of scripts to check SE , evaluate SE usages
- ✓ Inherited from previous version

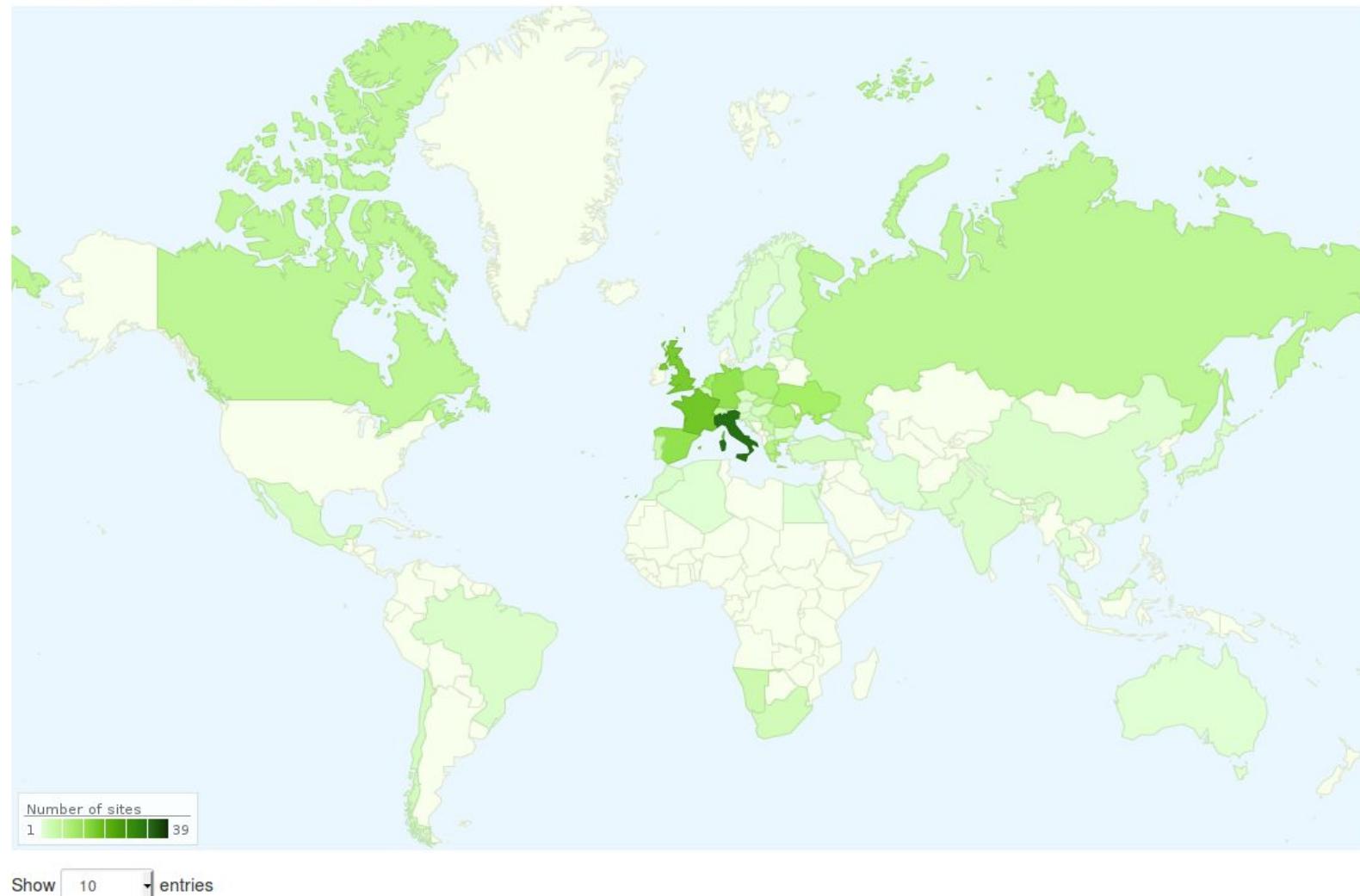
Resource Overview > [Map](#)

- ✓ 1 st Map with the number of sites per Country
- ✓ 2nd Map accessible on click with the details of each country
- ✓ A table summarizes also the information

Resource Overview > [Table](#)

- ✓ Select a VO > List of the services by NGI for this VO
- ✓ Select a NGI > List of Sites > List of Services and supported VO

Number of sites by Country



[Help](#)

[AfricaArabia](#)
[NGI Information](#)
[XML](#)
[JSON](#)
[CSV](#)
[DZ-01-ARN || Algeria](#)
[Site Information](#)
[XML](#)
[JSON](#)
[CSV](#)

HostName	Service Type	VO or Roles supported
bdii01.grid.arn.dz	bdii_site	VO : N/A Roles : N/A
ce04.grid.arn.dz	org.glite.ce.CREAM	<p>dzgrid</p> <p>/dteam/Role=lcgadmin</p>
lfc.grid.arn.dz-local-lfc	lcg-local-file-catalog	<p>dzgrid</p> <p>Roles : N/A</p>
se01.grid.arn.dz	DPM	<p>eumed</p> <p>Roles : N/A</p>

Showing 1 to 4 of 4 entries

Resource Overview > Distribution

- ✓ Table representing the support of VO / NGI
- ✓ Click on VO > VO Tree browser > Computing, Storage Capacities , Services
- ✓ Click1 on NGI > NGI Tree browser > Sites > Computing, Storage Capacities, Services
- ✓ Click2 on NGI > Table representing the support of VO / Site

Resource Overview > Figures

- ✓ Table/Chart summarizing CPU Benchmark, CPU capacities, Storage Capacities and Jobs Status
- ✓ Different levels > NGI > Sites or countries

Distribution

Show 25 entries

Search:

List of VO	AfricaArabia	AsiaPacific	CERN	IDGF	NGI_AEGIS	NGI_ARMGRID	NGI_BG	NGI_CH	NGI_CHINA	NGI_CZ	NGI_DE	NGI_FI	NGI_FRANCE	NGI_GE	NGI_GRNET	NGI_HR	NGI_HU	NGI_IGERGRID	NGI_IT	NGI_MARGI	NGI_NDGF	NGI_NL	NGI_PL	NGI_RO	NGI_SI
ops	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
dteam	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
atlas	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	X	✓	X	✓	✓	X	✓	✓	X	✓	✓	✓	✓	
cms	✓	✓	✓	X	✓	X	✓	✓	✓	X	✓	X	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	X	X
alice	✓	✓	✓	X	X	✓	X	X	X	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	X
lhcb	X	✓	✓	X	X	X	✓	✓	X	X	✓	X	✓	✓	✓	✓	X	✓	✓	X	X	✓	✓	✓	X
biomed	✓	X	X	X	X	X	✓	X	✓	X	✓	X	✓	✓	✓	✓	X	✓	X	✓	✓	✓	✓	X	X
enmr.eu	✓	✓	X	X	X	X	X	X	✓	X	✓	X	✓	X	X	X	X	✓	X	X	✓	✓	✓	X	X
auger	X	X	X	X	X	X	X	X	X	✓	✓	X	✓	X	X	X	X	✓	X	X	✓	✓	✓	✓	✓
geant4	X	✓	✓	X	X	X	X	X	X	X	✓	X	✓	X	✓	X	X	X	✓	X	X	✓	✓	X	X
hone	X	X	X	X	X	X	X	X	✓	X	✓	✓	X	✓	X	X	X	X	X	X	✓	✓	✓	✓	X

[Column visibility](#) [Copy](#) [Excel](#)

Search:

Show entries

Name	Information			CPUs		Data Store ⓘ			Service Store ⓘ			Jobs		
	HEPSPEC2006 ↗	SI2000 ↗	Logical ↗	Physical ↗	Used ↗	Free ↗	Total ↗	Used ↗	Free ↗	Total ↗	Waiting ↗	Running ↗	Total ↗	
AfricaArabia	0	106	224	56	0	0	0	3820	25574	29398	131	198	329	
	Summary By Site ⓘ (3)		Summary By Country ⓘ (3)											
AsiaPacific	0	18314	476	158	0	0	0	0	0	0	45	800	845	
	Summary By Site ⓘ (1)		Summary By Country ⓘ (1)											
IDGF	0	0	0	0	0	0	0	0	0	0	2666664	0	0	
	Summary By Site ⓘ (1)		Summary By Country ⓘ (1)											
NGI_AEGIS	0	9538	1014	271	0	0	0	15399	8660	24060	7	7	14	
	Summary By Site ⓘ (6)		Summary By Country ⓘ (1)											
NGI_BG	0	7206	896	76	1591	23299	21709	1590	NaN	61572651178754	7	154	161	
	Summary By Site ⓘ (2)		Summary By Country ⓘ (1)											
NGI_CH	0	0	0	0	412054	754805	342751	1173063	677526	1850591	330	241	572	
	Summary By Site ⓘ (3)		Summary By Country ⓘ (1)											
NGI_CHINA	0	0	0	0	499762	539856	40094	811558	128885	940447	113	559	672	
	Summary By Site ⓘ (1)		Summary By Country ⓘ (1)											

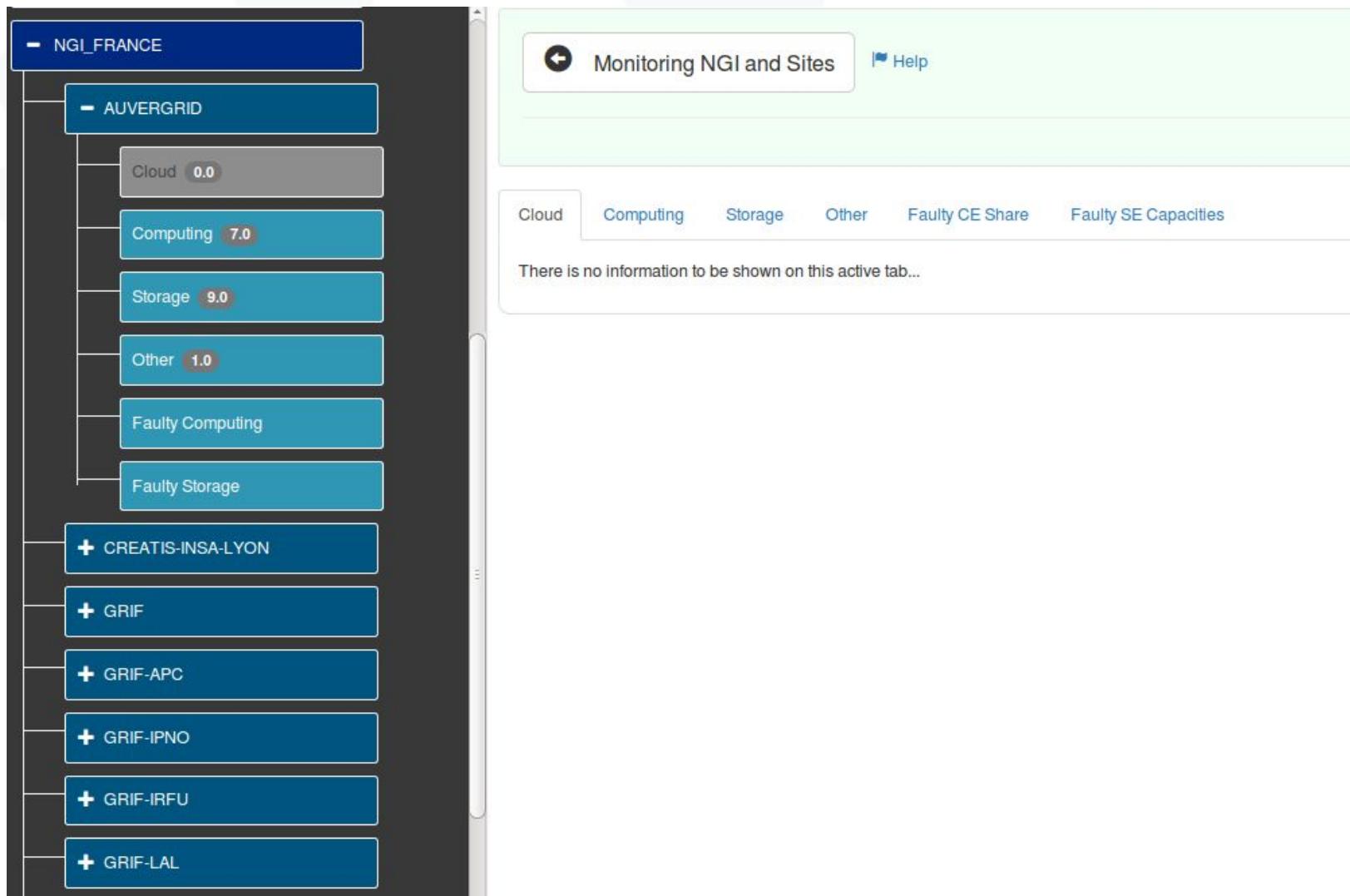
Resource Explorer > by NGI/Sites

- ✓ Tree Browser NGI > Sites > Computing, Storage Capacities, Services > Endpoints > Shares
- ✓ Information about faulty publications (default publications values : 444444 or 9999999, storage negative values ...)

Resource Explorer > by VO

- ✓ Tree Browser VO> Computing, Storage Capacities, Services > Endpoints > Shares
- ✓ Information about faulty publications (default publications values : 444444 or 9999999, storage negative values ...)

Tree Browser



The screenshot shows the EGI-ENGAGE Tree Browser interface. On the left, a tree view displays various sites under the root node 'NGI_FRANCE'. The 'AUVERGRID' site is expanded, showing its sub-components: Cloud (0.0), Computing (7.0), Storage (9.0), and Other (1.0). Below these, under 'Computing', are 'Faulty Computing' and 'Faulty Storage'. Other collapsed sites include 'CREATIS-INSA-LYON', 'GRIF', 'GRIF-APC', 'GRIF-IPNO', 'GRIF-IRFU', and 'GRIF-LAL'. On the right, a main panel titled 'Monitoring NGI and Sites' contains a sub-header 'Monitoring NGI and Sites' with a back arrow and a help icon. Below this are tabs for Cloud, Computing, Storage, Other, Faulty CE Share, and Faulty SE Capacities. A message states: 'There is no information to be shown on this active tab...'. The overall theme is light green and blue.

Resource Explorer > Faulty

- ✓ A summary of all faulty values in the publications > Computing or Storage

Resource Explorer > Cloud

- ✓ Summary of the information related to cloud endpoints

Resource Explorer > Top Bdii browser

- ✓ Top Bdii Tree browsers (GLUE2Benchmark , GLUE2StorageEndpoints, GLUE2DataStore, GLUE2ShareCapacity)
- ✓ Possibilities of exports (Json or XML)

Top BDII Browser

GLUE2Benchmark ⓘ

XML export JSON export

+ BUDAPEST

XML export JSON export

+ pic

XML export JSON export

+ UPorto

XML export JSON export

+ NIHAM

XML export JSON export

+ NCBJ-CIS

XML export JSON export

+ CERN-PROD

XML export JSON export

+ SiGNET

XML export JSON export

+ UMB-BB

XML export JSON export

GLUE2StorageEndpoints ⓘ

XML export JSON export

GLUE2DataStore ⓘ

XML export JSON export

GLUE2ShareCapacity ⓘ

XML export JSON export

How to contact us ?

cic-information@cc.in2p3.fr

Features inherited from previous version

Data management and job monitoring

Features inherited from the previous version - only ergonomic / look and feel changes

- ✓ Use of scripts to check CE / SE , evaluate SE usages
- ✓ Use of the JobMonitor tool **
- ✓ The different scripts stored results into local files
- ✓ Results are exposed via the Web Service (Lavoisier)
- ✓ Results are available through reports , charts , metrics

- Limited to some VO : biomed, compchem, enmr.eu , shiwa-workflow.eu, vlemed, vo. france-grilles.fr, see
- Could be activated for other VO on demand

** configured currently only for biomed, vlemed, enmr.eu , shiwa-workflow.eu, vo.france-grilles.fr

Job Monitoring Pages provides detailed information about :

- **Monitoring jobs (by Tab and Graph)**
 - retrieve results of the monitoring jobs submitted by VAPOR to each CREAM CE queue 4 time(s) a day, during the period selected.
- **Running and Waiting Job Ratio**
 - Reports the evolution of the number of running jobs (R) and waiting jobs (W), over the selected period of time, for the VO
- **List of CEs « working fine » at the moment**

Research by period

from

2015-12-27



to

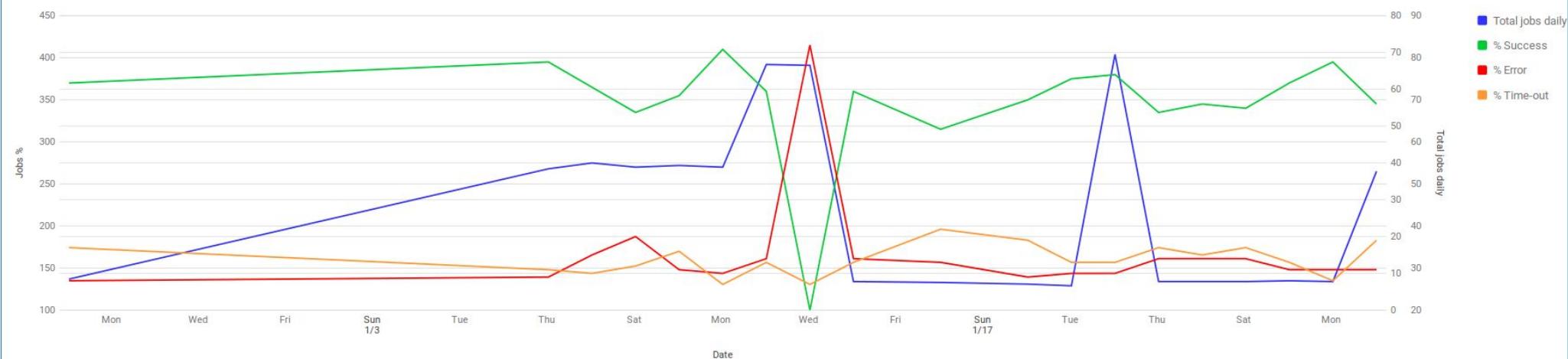
2016-01-27



Send

Percentage of jobs by status Success, Error, Time-out

Percentage of jobs by status Success, Error, Time-out



Average completion time of successful jobs (sec)

Average completion time of successful jobs (sec)

Average completion time of successful jobs (sec)



- **SE Scan operations and reports** :
 - identify heavily loaded Storage Elements
 - identify heavily users on those SE
- **Dark data and lost files history** :
 - Track **dark data**, i.e. files stored on SEs but no longer registered in the file catalog. Optionally, the dark data files can be automatically deleted from the SE.
 - Track **lost files**, i.e. files registered in the file catalog but with no more physical replicate.