



AliEn v2-17

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ALICE Offline week

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New version of AliEn

- Still under development
 - Release by mid-July
- Already in the build system
- Number of improvements and new feature
 - Discussed in the following slides and presentations

AliEn v2-17: New features

- gcc 4.1.2, and cleanup of modules (distributing only one gsoap) (Alina)
 - Carry new gcc for local compilations – this is an improvement, but we would like to get away from local compilations as much as possible
- Xrd3cp (Andreas)
 - Third party copy between storage elements, migration of SEs, critical for the new CERN CASTOR2 operation
- Lots of improvements on xrootd (Fabrizio)
 - Both in the server and client
 - More ‘resilient’ connection over WAN

AliEn v2-17: New features

- CREAM-CE submission, and reduce the load in the VO-Box (Patricia and Stefano)
- More refined way of querying the information system (VOViews)
- More options to save files from jobs (Steffen)
 - Dedicated presentation
- Torrent improvements – software deployment (Costin)
 - Dedicated presentation
- New (and simplified) transfer model (Pablo)
 - Already tested for T0->T1 transfers
 - Bulk copy of data any SE->SE, any method as plugin (FTS/xrd3cp/other)

AliEn v2-17: Further improvements

- Catalogue structure
 - Remove internal mysql triggers
 - Always the goal is to speed access and increase the capacity of the catalogue
- Deprecate SE and FTD on the sites
 - The SE will be defined in ldap, but it won't run as a service on the site
 - Reduce number of services and thus resilience

New transfer model

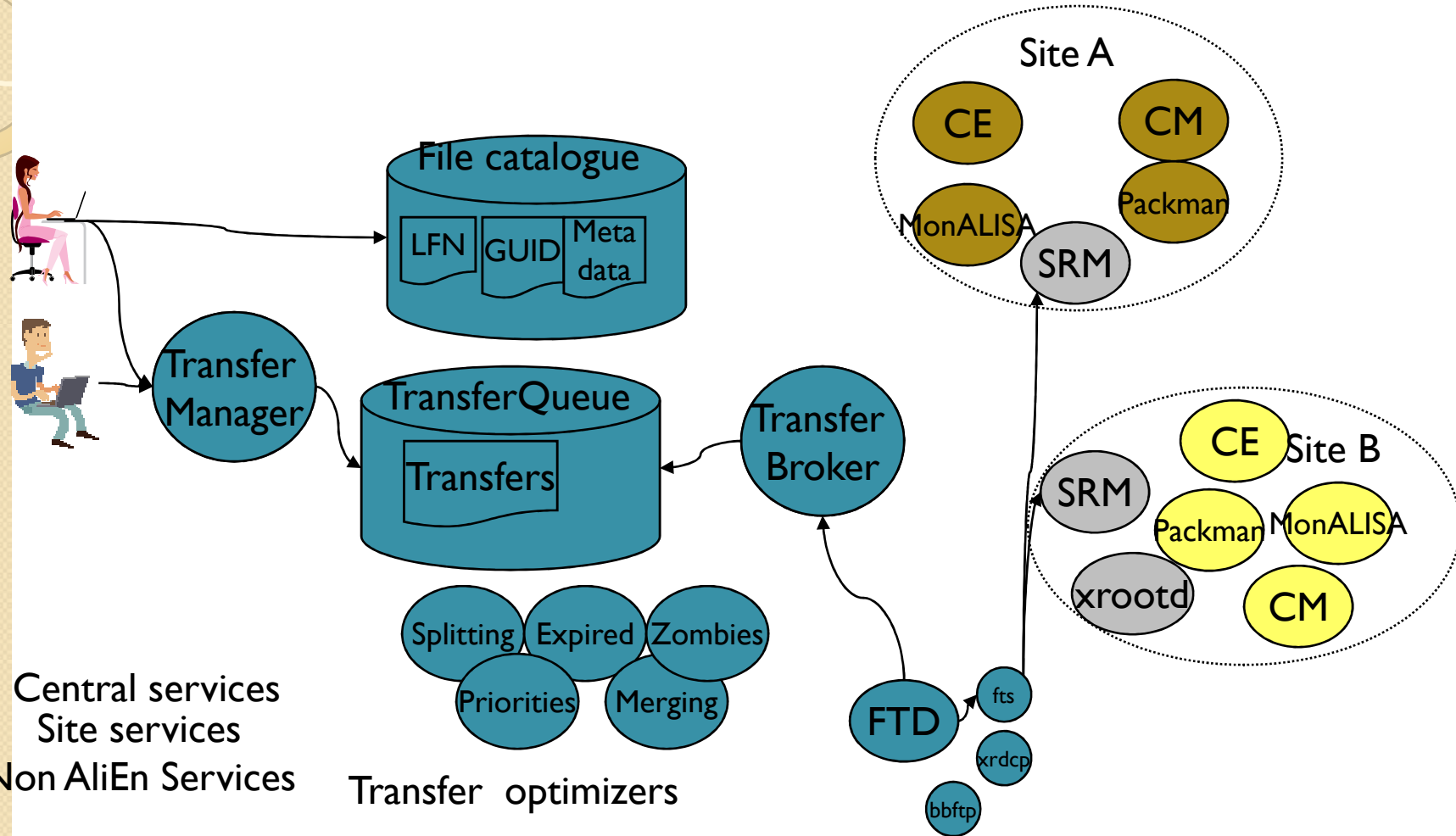
- Same interface for the user (mirror)
- FTD no longer on the vobox
 - Only one FTD per type of transfer (fts, xrd3cp)

- Less transfer status:

INSERTED→WAITING→ASSIGNED→TRANSFERRING→DONE

- `getTransferHistory` and `listTransfers`

Transfer model



aliensh – minor changes

- Avoid declarations like

export

```
alien_API_SERVER_LIST="pcapiserv01.cern.ch:10000|pc  
apiserv02.cern.ch:10000|pcapiserv04.cern.ch:10000"
```

In favour of DNS aliases (this is already set up)

- No changes foreseen on the set of commands or behaviour
 - No requests for this – the interface is remarkably good!

AliEn v2-17: Secondary issues

- Quotas
 - Job quotas per user— protects the system from intentional (or unintentional) submission of hundreds of thousands of jobs at once
 - Space quotas – the storage is limited, we are quite fast in filling it...
- The above will not be in the initial release, to be added later
- Presently the system relies on the intelligence of users (be nice please!)

Conclusions

- New version of AliEn
- With plenty new improvements
- Still some work to do before releasing it
 - To a large extent the new features are tested
- Simplified transfer mechanism
- Substantial improvement in storage handling
- Less AliEn services on the site – more stability

- Release – mid-July... Stay tuned.