



Requirement Summary

Dirk Düllmann, IT-DB

More details at <http://lcg3d.cern.ch>

Experiment Requirements



- **Requirement discussions have started**
 - Experiment representatives had to find contacts inside their experiment
 - Application responsables are not prepared yet to give good estimates for data volume and split onto tiers
 - Computing models are in this area not too concrete yet - and may only get more concrete after first deployment in 2005
- **All participating experiments produced a first draft requirement sheet**
 - Having a central contact on the experiment side is useful for consistency and prioritization among the requests
 - Propose to use the 3D requests also as experiment input for CERN T0 service planning
- **Need to complete requirement sheets from all experiments**
 - To agree between experiments and service providers on what needs to be provided next year
 - If numbers are wrong we'll iterate, but no request is interpreted as no service required

Preliminary Summary for 2005



- **Main applications mentioned so far**
 - FileCatalog, Conditions, Geometry, Bookkeeping, Physics Meta Data, Collections, Grid Monitoring, TransferDB
 - Suspect that several smaller(?) applications are still missing
 - No online request from CMS yet
 - No concrete input from EGEE/ARDA yet
 - Expect that File Catalog and File Meta Data volume needs to be determined by experiments - but need a deployment model!
- **Total volume per experiment: 50-500 GB**
 - Error bars are likely as big as the spread
 - Some headroom required on the service side
- **Number of applications to be supported: O(5)**
 - Only few of these application are already deployed
 - Policy for distributed applications to allow for a deployable service?
 - Should/could we request either RAL or ODBC?
- **Distributed Data becomes read-only down from T0**
 - Conservative approach for first service deployment
 - may be reviewed later..
 - Good news as this means directed replication (rather than multi-master)

A Few Questions



- In case of insufficient deployment resources
 - Need to put applications in order of deployment priority
 - Which applications are essential for 2005
 - which could come later?
- Which applications are ready for test in the 3D test bed?
 - Oracle (and if T2 also MySQL) implementation ready?
 - Test work load defining the resource and performance requirements existing?
 - For application which are tagged essential but not yet completed - by when could they be completed?
- Do experiments have manpower available to perform these tests together with the LCG sites?