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Data Management

This is the working area for the data management team at CERN.

Program of Work

The Data Management Program of Work for 2010 and beyond, covering DPM/LFC, FTS & gfal/lcg_util, is available

Software components

The various data management components are described and tracked in their own pages:

File Transfer Service (FTS)	Reliable file movement service
Disk Pool Manager (DPM)	Lightweight SRM-compliant disk pool manager
Encrypted Storage and Hydra	DICOM integration and distributed key-store
LFC	Global and local file replica catalogue
lcg_util and GFAL	Data management client functionality (local data access)

A formal software inventory as one of SA3's deliverables is also maintained: DMSoftwareInventory

Related components:

Delegation interface, client and services	proxy delegation for FTS
CGSI gSOAP	gSOAP https/httpg plug-in
check-node	host/user certificate test for support
DelegationProxyRestrictions	proxy delegation restrictions
Service Discovery	service discovery for FTS

Support

Contact helpdesk@ggusNOSPAMPLEASE.org (remove the NOSPAM !): your ROC will help you, and contact the appropriate experts if needed.

The data management support role is described in DMSoftwareSupporters.

Management

Meetings are tracked in DataManagementMeetings.

Current issues are tracked in DataManagementIssues.

Publications and presentations

General

- Useful presentations about LFC / DPM / GFAL / lcg_util
- Useful presentations about FTS

Current events

- DataManagementCHEP2007 tracks submissions to CHEP 2007.
- IEEE conference paper

Build and test

Testing RPMs and user documentation

User Guides:

- The File Transfer Service User Guide page : DMFTSUserGuide
- man pages of lcg_util and GFAL
- LFC and DPM

Release candidate APT / yum repository:

- Release Candidate RPMs [↗](#)
 - ◆ How to use that repository
 - ◆ and how to create it
- The list of changes [↗](#).

Release procedure

- DMReleaseProcedure: how to build/develop/release a component or subsystem.

Development testbed

- DMTestBed: our virtual machine testbed

Useful development things

- How can you (re)use your ETICS workspace as gLite UI for testing: EticsWSasUI?
- Userspace Installation using APT: How to set up your gLite in userspace: DMUserspaceInstall.
- SLC3 and SLC4 build environments: using ChrootEnvs (or ChrootEnvsCreation on how to make a new one)
- Bored of recompiling dependencies? Use stage-rpm! More details in DMStageRPM
- What do you need for Debian/Ubuntu: DMDebianHelp
- Checking for certificates - ask people to run this every time you see strange Globus / cGSI errors: check-node!
- Generating test certificates for authorization test: glite-test-certs
- gLite I/O from Java: DMJavaJNI

Activities

Dependency challenge

Data management involvement in the EGEEgLiteDependencyChallenge.

- DMDependencyChallenge
- DelegationDependencyChallenge
- DMRestructuringClientServer

The Dusty Cupboard

This section contains pages that may be obsolete and need checking...

Show obsolete section... Hide obsolete section...

- Tomcat 5 database connection pool tuning. DMTomcatConnectionPool.
- The status of the DMEncryptedStorage work.
- DMSecurityModel and DiscussSecurityModel discussions.
- The autogenerated API and installation documentation [↗](#) for gLite R3.0.
- The old (gLite/ant built) [↗](#) APT repository
- The new (ETICS built) [↗](#) yum repositories

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