



European DataGrid Software for Testbed 1

EDG Integration Team (ITeam)

October 29 , 2001

CERN



Morning Outline

- ◆ Introduction (C. Loomis)
- ◆ Installation Tools (M. Barroso)
- ◆ Globus2 Configuration (A. McNab)

Coffee Break

- ◆ Machine & Site Configuration (A. Waaanen)
- ◆ User Interface (F. Donno)

Lunch



A fternoon D em onstration

- ◆ Use of Installation Tools (M .Barroso, E .Fede)
- ◆ Configuration of Globus (S .Barale)
- ◆ Configuration of M DS (A .Cavalli)
- ◆ Interaction with Batch Systems (F .Hernandez)
- ◆ EDG Pkgs.: Installation & Configuration (E .Ronchieri, Y .Legre)
- ◆ Virtual Organizations (S .N icoud)
- ◆ Network Monitoring (F .Bonnassieux)
- ◆ Feedback (B .Jones)



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Eric Fede	Andrew McNab	Antony Wilson

Many thanks for their hard work!



Legal Issues

- ◆ Copyright Statement:

Copyright (c) 2001 EU DataGrid - see <http://www.edg.org//license.html>

- ◆ License

- Above link doesn't yet work! Will probably adopt Globus license.
 - Is a BSD-style license which puts few restrictions on use.

- ◆ Condor-G (used by W P1)

- Not open source or redistributable.
 - Through special agreement, can redistribute within DataGrid.

- ◆ LCFG (used by W P4)

- Uses GPL.



EDG Usage Guidelines

Site usage guidelines present **logistical** problem for EDG operation.

- ◆ Difficult for user because each set of guidelines is different.
 - User may not know on which sites jobs will run.
 - Dynamic Testbed configuration implies that user may need to agree to more as time goes on.
- ◆ Solution is to develop single set of Usage Guidelines.
 - Users agree to a single (fairly) static document.
 - System administrators agree that this replaces local usage guidelines.

NOTE: System administrators **retain ultimate control** over authorized users at their site through grid map file.



EDG Usage Guidelines

- ◆ Draft developed from CERN circular no 5 and CNRS guidelines.
 - Expect to have "final" version before first official release.
 - Found at <http://marianne.in2p3.fr/documents/>.
 - Comments to work package manager's list and integration team list.
 - hep-proj-grid-wp-mgt@cern.ch
 - hep-proj-grid-integration-team@cern.ch
- ◆ Official location will be:
 - <http://www.edg.org/guidelines/>



Site Administrator Support

- ◆ The ITeam will provide
 - documentation/training
 - bug reporting system
(<http://marianne.in2p3.fr/datagrid/bugzilla>)
 - email support (hep-proj-grid-integration-team@cern.ch)
 - forum for site administrators to exchange experience/information
- ◆ Expect site administrators to provide
 - email contact aliases (grid_support@<site> and grid_siteadm_in@<site>)
 - first line of support for users of site's resources

End users of the system will have access to the following support:

- ◆ Primary contacts:
 - local site administrator for **operational** problems
 - experimental representative for **application** problems
- ◆ bug reporting system
<http://marianne.in2p3.fr/datagrid/bugzilla>
 - assigned to member of ITeam
 - passed to expert within work package if necessary
- ◆ email support (hep-proj-grid-integration-team@cern.ch)



Additional Information

Testbed Information see <http://marianne.in2p3.fr/>.

- ◆ Documentation
 - User's Guide, Installation Guide, Developer's Guide
 - <http://marianne.in2p3.fr/documentation>.
- ◆ Support
 - Contacts <http://marianne.in2p3.fr/datagrid/contacts>.
 - Bug reports: <http://marianne.in2p3.fr/datagrid/bugzilla>.
- ◆ Status
 - See <http://marianne.in2p3.fr/datagrid>.



(Frascati) Schedule

- ◆ October 22
 - First beta release of DataGrid (CERN & Lyon)
- ◆ November 15
 - Initial limited application testing finished.
 - EDG software ready for deployment on partner sites.
- ◆ November 30
 - Wide spread deployment.
 - ITeam machines form development grid.
 - Testbed 1 open to all applications.
- ◆ December 25 :
 - Testbed 1 finished.



Current Status

- ◆ Globus2
 - JobManager configured, tested with fork, PBS, and LSF.
 - MDS configured, FTree configured, some testing done.
 - Still encountering some severe bugs with Globus.
- ◆ EDG Middleware
 - Workload Mgt. (W P1) packages delivered, being ported to Globus2
 - Data Mgt. (W P2) packages delivered, working under Globus2
 - Information Systems (W P3) delivered, testing now.
 - Installation Tools (W P4) delivered, working with tests ongoing.
 - Network Monitoring (W P7) delivered, working.



Future Plans

- ◆ To be done before November 15
 - Develop test suite for Globus2 .
 - Develop test suite for EDG packages (and interaction between them)
- ◆ December & January Evaluation
 - Evaluate performance of EDG software
 - Evaluate operational procedures
- ◆ Plans in 2002 .
 - Series of incremental releases planned (Jan., Mar., May, July)
 - Maintain development testbed to support this.
 - Hopefully see some production deployment of EDG software .