



eTICS2
The Grid Quality Process



INFSO-RI-223782

ETICS

The Software Engineering Infrastructure

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Contents

- ETICS Project
- What ETICS is and what it is not
- Architecture
- Plugins and Metrics
- Distributed Testing
- Infrastructure
- Example of Usage
- Screenshots
- Common issues and new features
- The road ahead
- ETICS Support



ETICS Project



eTICS2
The Grid Quality Process








- ETICS stands for **E**-infrastructure for **T**esting, **I**ntegration and **C**onfiguration of **S**oftware
- ETICS started in **January 2006** and ended in **December 2007**.
- ETICS 2 started in **March 2008** and it will run until **February 2010**
- **ETICS is not 'just' a build system, it's a complete infrastructure for building, testing, configuring and managing software projects**



Partners



What ETICS is

- 
 • It's a **software engineering management system**
- 
 • It's a **build and test infrastructure**
- 
 • It provides **tools and resources** to configure, manage and analyse build and test runs
- 
 • It provides a **common interface** to diverse projects to facilitate knowledge sharing and operations management
- 
 • It has an open **repository** of configuration metadata, packages, reports. The goal is to share information, but also to reliably store and preserve information
- 
 • It has a **plugin-based architecture** and APIs to allow integrating ETICS into existing processes and extending it with custom actions
- 
 • It's **multi-platform** and independent from any specific build or test tool



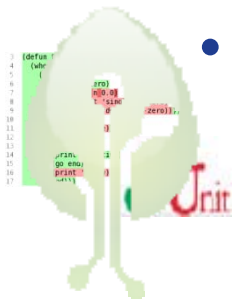
What ETICS is not



- It's not a replacement for **source code management systems** like CVS or Subversion. ETICS uses such systems and can be easily extended with support for more



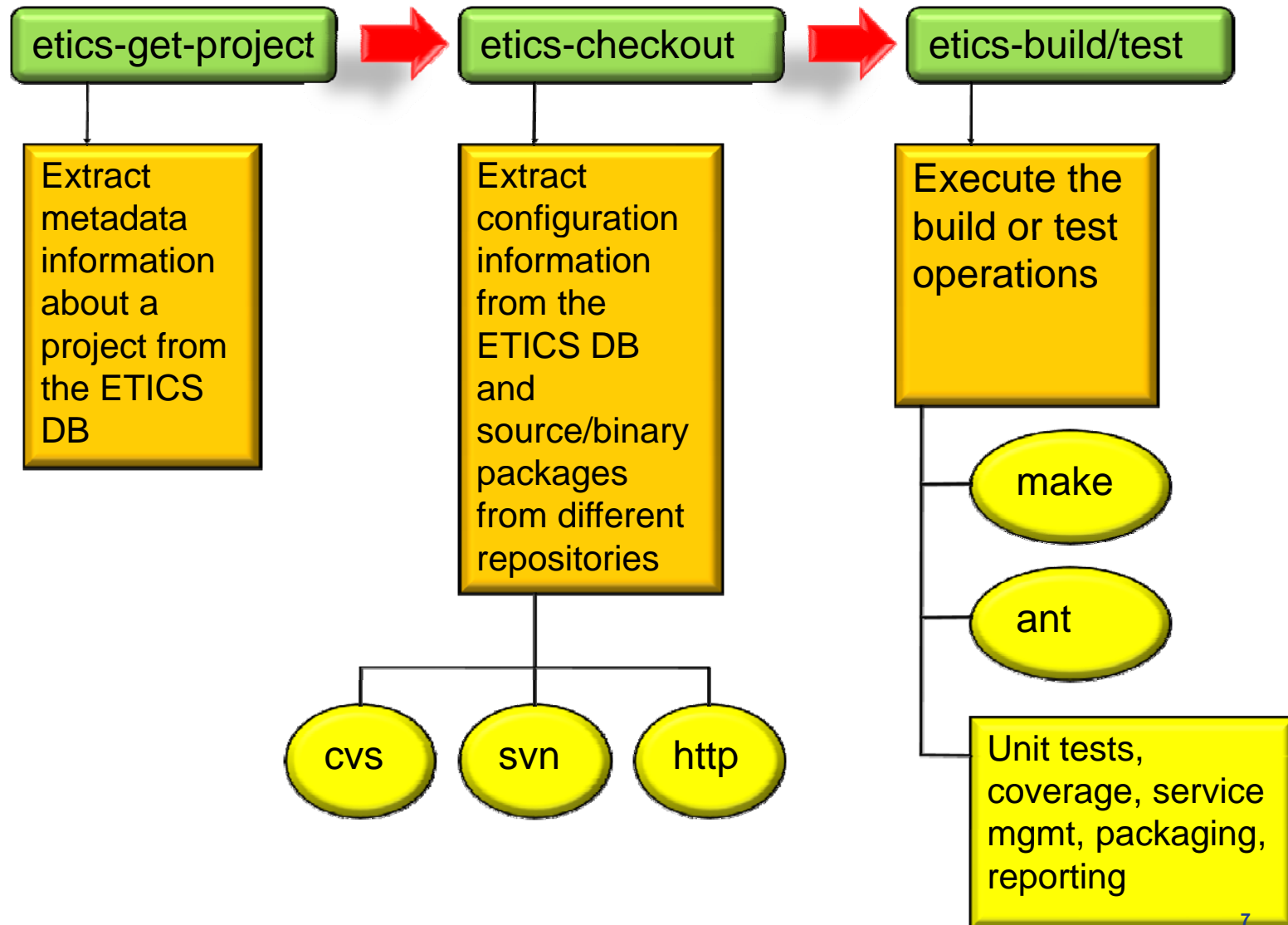
- It's not a replacement for **build tools** like make, ant, etc. ETICS uses whatever native tool a specific project decides to use and doesn't force the usage of any particular tool



- It's not a replacement for **QA tools** like checkstyle, junit, cppunit, coverage tools, etc. ETICS provides a **rich library** of such tools that projects can activate as they wish when running builds and tests



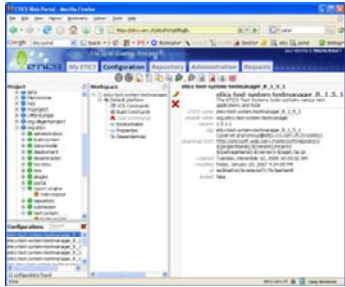
Typical ETICS Execution Sequence



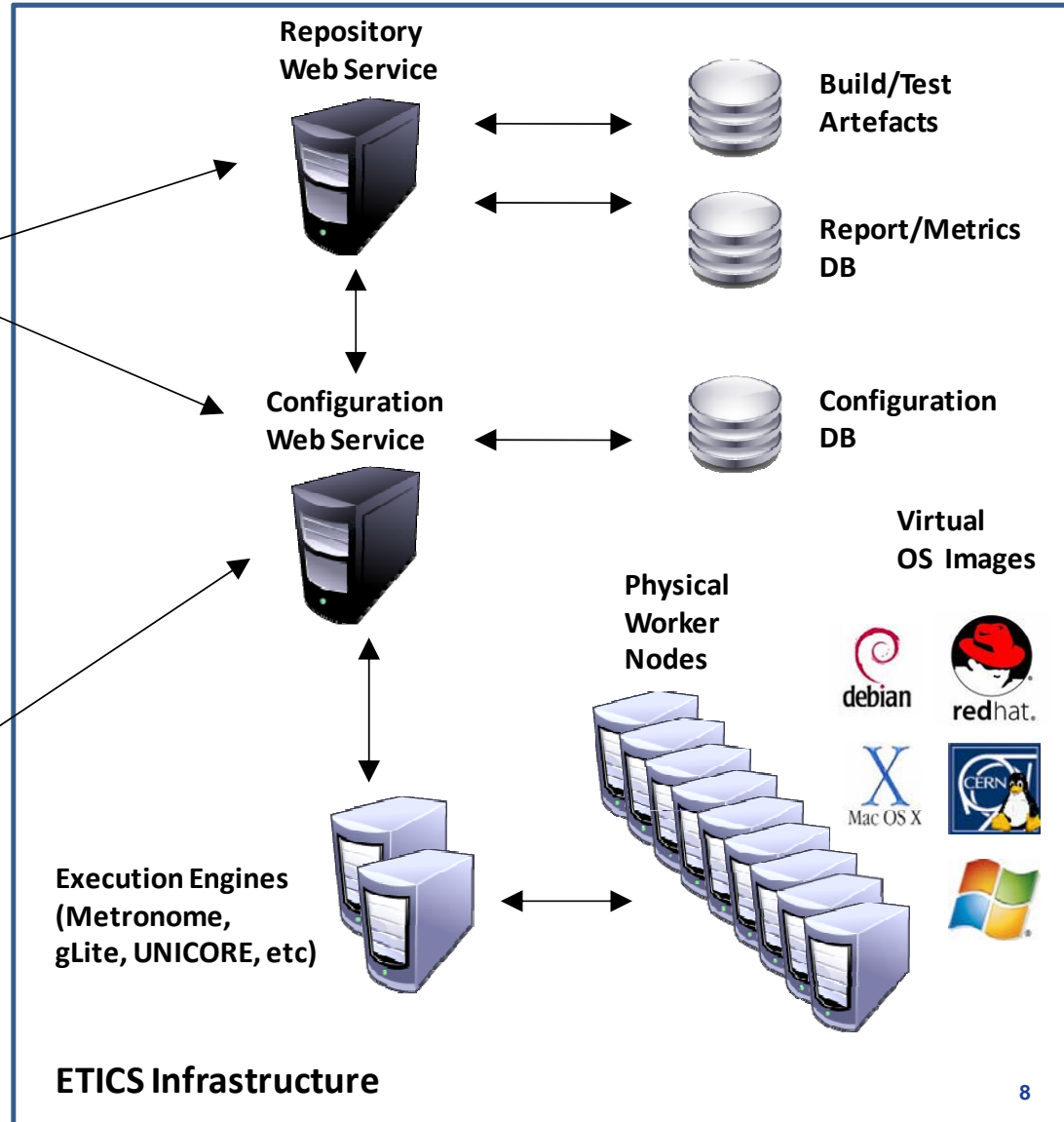
Architecture

ETICS is not 'just' a build system

Web Portal



Command Line User Interface



Plugins and Metrics Collectors

- The ETICS system is **plugin-based** (like for example ECLIPSE)
- It provides a **core set** of tools and a published specification for developing additional plugins
- Plugins are essentially thin **wrappers** around existing or custom tools providing very specific functionality like packaging, static or dynamic testing, standards compliance testing, service installation and management, reporting, etc
- Plugins can publish information in the ETICS system in the form of **metrics**, which can then be used to do data mining or trend analysis using the available ETICS reporting tools



Examples of metrics collectors

Metrics	Type	Programming languages/ technologies	Tool	ETICS Plugin
Complexity	static	Java Python	Javancss	JCcnPlugin PyComplexityPlugin.py
Design quality	static	Java	Jdepend	JDependPlugin
N of potential bugs	static	C/C++ Python Perl PHP Java	Flawfinder, RATS PMD Findbugs	CFlawfinderPlugin CPyPhpRatsPlugin JPmdPlugin JFindbugsPlugin
N of potential bugs	dynamic	C/C++	Valgrind	CValgrindPlugin
Lines of code	static	All	SLOCCount	SLOCCountPlugin
Coverage	dynamic	Java	Emma Cobertura	JUnitemmaPlugin JcoberturaPlugin
Unit tests success rate	dynamic	Java Python	JUnit PyUnit	JUnitPlugin JUnitreportsPlugin.py PyUnitPlugin.py
Compliance with standards	static	IPv6 WSI		IPv6Plugin WSIinteroperabilityPlugin
Profiling	dynamic	C/C++ Java	Jrat Valgrind	JRatPlugin CValgrindPlugin



The 'Distributed Testing' Feature

- One of the last features to be added, still in experimental mode
- It allows designing **complex tests** involving **several services** and test applications to be deployed on **separate nodes**
- ETICS analyses the definition and deploys the services on the necessary nodes
- A **synchronization mechanism** orchestrates the start/stop of services and the execution of the test applications
- At the end the results are **collected** and **reported** as a single report
- It is not yet usable by 'any user', it requires some deep knowledge of the system to be tested
- It has been **successfully** used in a number of cases by the **DILIGENT project**
- It has the strong prerequisite that the services to be deployed have to be managed **without user intervention**, which is not always the case



The ETICS Infrastructure

- The ETICS Infrastructure is currently based on three **resource pools** managed by Condor, at CERN, UoW and INFN
- There are about **450 cores** available in the three sites with more than **40 different types of platforms**
- At CERN in particular there are **120 cores** and **12 different platforms** (a platform is a combination of operating system, CPU architecture and compiler, ex: slc4_ia32_gcc36, deb4_x86_64_gcc412, etc)
- Additionally various nodes are attached to the CERN pool from **third-party** projects or organizations for specific use (4D Soft Ltd for DILIGENT in Hungary, GARR for EUChinaGrid and EGEE/SA2, IN2P3 for EGEE/SA2)



The CERN Resource Pool

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NMI Build & Test System :: Pool Overview - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://etics.cern.ch/nmi/index.php?page=pool/index&sortSiteBy=name&sortSiteDir=4&sortBy=state&sortDir=4

ETICS Web Portal

• Home > Pool Overview



NMI Build & Test System

[Run Results](#) | [Pool Status](#) | [Options](#)

Pool Statistics	
CPU Slots:	69
Unique Hosts:	39
Remote Sites:	0
Unclaimed CPU Slots:	34 49.28%
Claimed CPU Slots:	35 50.72%
Idle CPU Slots:	34 49.28%
Busy CPU Slots:	35 50.72%

Host	Platform	State	Activity	Activity Time	User	Run ID
vm1@xb1051.cern.ch	x86_slc_4	Claimed	Busy	01:08:08	tomcat4@xmrrb3703.cern.ch	85849
vm2@xb1051.cern.ch	x86_slc_4	Claimed	Busy	01:06:43	tomcat4@xmrrb3703.cern.ch	85853
xb1052.cern.ch	x86_slc_4	Claimed	Busy	01:04:43	tomcat4@xmrrb3703.cern.ch	85857
xb1053.cern.ch	x86_slc_4	Claimed	Busy	01:11:51	tomcat4@xmrrb3703.cern.ch	85841
xb1055.cern.ch	x86_slc_4	Claimed	Busy	01:09:49	tomcat4@xmrrb3703.cern.ch	85845
xb1102.cern.ch	x86_slc_4	Claimed	Busy	27:24:55	tomcat4@xmrrb3703.cern.ch	85475
xb1103.cern.ch	x86_sl_5.1	Claimed	Busy	01:08:49	tomcat4@xmrrb3703.cern.ch	85847
xb1108.cern.ch	x86_slc_4	Claimed	Busy	12:13:46	tomcat4@xmrrb3703.cern.ch	85683
slot1@xb1111.cern.ch	x86_rhes_4	Claimed	Busy	40:19:15	tomcat4@xmrrb3703.cern.ch	85391
slot2@xb1111.cern.ch	x86_rhes_4	Claimed	Busy	16:23:10	tomcat4@xmrrb3703.cern.ch	85677
xb1117.cern.ch	x86_deb_4.0	Claimed	Busy	13:52:13	tomcat4@xmrrb3703.cern.ch	85674
xb5401.cern.ch	x86_64_slc_4	Claimed	Busy	13:27:05	tomcat4@xmrrb3703.cern.ch	85676
xb5403.cern.ch	x86_64_slc_4	Claimed	Busy	01:10:11	tomcat4@xmrrb3703.cern.ch	85844
xb5572.cern.ch	x86_64_slc_4	Claimed	Busy	04:58:05	tomcat4@xmrrb3703.cern.ch	85764
xb5588.cern.ch	x86_64_slc_4	Claimed	Busy	39:30:19	tomcat4@xmrrb3703.cern.ch	85390
vm1@xb7972.cern.ch	x86_slc_4	Claimed	Busy	07:56:11	tomcat4@xmrrb3703.cern.ch	85792
vm2@xb7972.cern.ch	x86_slc_4	Claimed	Busy	02:04:07	tomcat4@xmrrb3703.cern.ch	85817
slot4@xb7973.cern.ch	x86_64_slc_4	Claimed	Busy	13:20:09	tomcat4@xmrrb3703.cern.ch	85681
slot2@xb7973.cern.ch	x86_64_slc_4	Claimed	Busy	01:13:34	tomcat4@xmrrb3703.cern.ch	85835
slot3@xb7973.cern.ch	x86_64_slc_4	Claimed	Busy	01:12:13	tomcat4@xmrrb3703.cern.ch	85840
slot1@xb7973.cern.ch	x86_64_slc_4	Claimed	Busy	00:12:59	tomcat4@xmrrb3703.cern.ch	85848
vm1@bketvm0001.cern.ch	x86_sl_5.1	Claimed	Busy	01:12:31	tomcat4@xmrrb3703.cern.ch	85839
vm2@bketvm0001.cern.ch	x86_sl_5.1	Claimed	Busy	01:10:31	tomcat4@xmrrb3703.cern.ch	85843
bketvm0021.cern.ch	x86_slc_4	Claimed	Busy	00:04:08	tomcat4@xmrrb3703.cern.ch	85861
bketvm0022.cern.ch	x86_64_slc_4	Claimed	Busy	00:09:08	tomcat4@xmrrb3703.cern.ch	85860
slot2@bketvm0026.cern.ch	x86_deb_4.0	Claimed	Busy	13:56:12	tomcat4@xmrrb3703.cern.ch	85679
slot1@bketvm0026.cern.ch	x86_deb_4.0	Claimed	Busy	00:07:32	tomcat4@xmrrb3703.cern.ch	85850
vm1@bketvm0027.cern.ch	x86_sl_5.1	Claimed	Busy	14:47:36	tomcat4@xmrrb3703.cern.ch	85675
vm2@bketvm0027.cern.ch	x86_sl_5.1	Claimed	Busy	14:06:55	tomcat4@xmrrb3703.cern.ch	85660

Find: globus Next Previous Highlight all Match case

Done



Real-world example: EGEE – gLite Building

- **org.glite**: 371 Modules, 9507 Configurations, 531 Main Reports, 1058 Metrics, 1.6 M lines of code
- The project has two main configurations, one for production (`glite_branch_3_1_0`) and one for development (`glite_branch_3_1_0_dev`) and several private, experimental or custom configurations
- All other configurations are versions of the 371 modules inside the org.glite project
- It is automatically built four times per day on 5 different platforms (`slc4 32/64`, `sl5 32`, `deb4 32`, `rhel4 32`). SLC3 has been dropped recently
- Many on-demand builds are performed by individual developers on the same and additional platforms (`sl5 64bit` for example)
- The porting of several services is managed with ETICS. At the moment development gLite builds are run on several different platforms



Screenshots

INFSO-RI-223782

The screenshot displays the ETICS web interface. At the top, there is a navigation bar with the ETICS logo, the text "Powered by ETICS and NMI", and a user profile for "Alberto Di Meglio". The main content area is divided into several sections:

- Module Summary:** Lists project details such as Project name (org.etics), Module name (org.etics.nmi.scripts), Description (etics-nmi-scripts_R_1_3_3_1), Version (1.3.3), Release (1), Vendor (ETICS), and License (Apache 2.0 License).
- Execution Summary:** Shows the build result as "Success" with a 100% success rate. It includes start and end times (27/03/2008 18:52:15), duration (00:00:04), configuration, tag, VCS root, and platform (slb4_la32_gcc346).
- ETICS Commands:** Provides the commands used for getting the project, checking out, building, and testing.
- Environment Properties:** A section for environment-related details.
- Report:** A detailed log of the checkout and build process, including timestamps and status messages. It shows successful checkout and build steps, followed by an error during the checkout of the 'etc' directory.

At the bottom of the interface, there is a footer with the text "Feel free to contact the ETICS support (etics-support@cern.ch) if you have any question" and a search bar showing "44 configurations found".

Screenshots

INFSO-RI-223782

ETICS Repository Query Engine Link

Query: SELECT * FROM etics:metric

Query Type: SQL **Result Type:** LIST

Results: 512 **Generated:** 2008-03-28T10:05:36.958+01:00

Metric: IPV6

Value: 67 **Report:** ipv6/index.html

Scope: OVERALL **Date:** 2008-01-11T12:27:06.000Z

Min Value: **Max Value:**

Unit: **Type:**

Metric: SLOCCount

Value: 1828966 **Report:** sloccount/index.html

Scope: OVERALL **Date:** 2008-01-11T12:27:06.000Z

Min Value: **Max Value:**

Unit: **Type:**

Metric: IPV6

Value: 0 **Report:** ipv6/index.html

Scope: OVERALL **Date:** 2008-01-11T09:21:56.000Z

Min Value: **Max Value:**

Unit: **Type:**

</opt/kg/bin/dpns-chnip> 244 KB (25008 bytes)
</opt/kg/bin/dpns-chnmod> 205 KB (210608 bytes)
</opt/kg/bin/dpns-chnown> 247 KB (253738 bytes)
</opt/kg/bin/dpns-chnownman> 203 KB (207992 bytes)

100%

Screenshots

INFSO-RI-223782

The screenshot displays the ETICS web interface. At the top, there is a navigation bar with the ETICS logo and tabs for "My ETICS", "Configuration", "Repository", and "Administration". Below the navigation bar, the interface is divided into three main sections:

- Project:** A tree view showing various projects. The "org.glite" project is expanded, showing sub-projects like "gridview", "org.edg", "amga", "apel", "ar", "bar", "ce", and "data".
- Workspace:** A list of workspace configurations. The "glite_branch_3_1_0_dev" workspace is selected, showing a list of operating systems and compilers, such as "AIX 5.2 (ppc-32) with gcc 3.3.3", "CentOS Linux 4 (ia32) with gcc 3.4.6", "CentOS Linux 4 (x86_64) with gcc 3.4.6", "CentOS Linux 5 (ia32) with gcc 4.1.2", "CentOS Linux 5 (x86_64) with gcc 4.1.2", "CERN Scientific Linux 4 (ia32) with gcc 3.4.6", "CERN Scientific Linux 4 (x86_64) with gcc 3.4.6", "Debian Linux 4.0 (ia32) with gcc 4.1.2", "Debian Linux 4.0 (x86_64) with gcc 4.1.2", "Default platform", "MacOS X 10.3 (ppc-32) kernel 7.7.2, gcc 3.3", "MacOS X 10.4 (ppc-32) kernel 8.8.0, gcc 4.0.1", "Scientific Linux 5 (ia32) with gcc 4.1.1", "Scientific Linux 5 (ia32) with gcc 4.1.2", "Scientific Linux 5 (x86_64) with gcc 4.1.2", "Solaris 10 (ia32) with gcc 3.4.3", "SuSE Linux 10 (x86_64) with gcc 4.2.1", "SuSE Linux 9 (ia32) with gcc 335", "SuSE/Novell 10 (ia32) with gcc 4.2.1", and "Yellow Dog Linux (ppc-64) gcc 4.1.1".
- Configurations:** A search bar and a list of configurations. The "glite_branch_3_1_0_dev" configuration is selected. Below the list, it indicates "17 configurations found".



ETICS Improvements

Performance

- The system was designed for **integrators** and **managers** and the speed of execution of individual commands was not a priority compared to support for multiple platforms, reporting, common interfaces
- Over time it's been used more and more by **individual developers**, whose primary concern is performance of single builds or tests, rather than quality evolution over time
- The original **XML-based** implementation did not scale, new implementation is based on **sqlite**, the de-facto standard in multiplatform embedded database engines
- New requirements have been analysed and a new version of the tools is being deployed that **improves performance** from 200% to 900% depending on the task to be executed and the available hardware



Recent ETICS Improvements

Performance

	Old client	New client	Speed-up	Modules
gLite	~35h	~4h	875%	384
WMS	1h 43m 41s	14m 16s	735%	110
DM	1h 12m 18s	10m 34s	720%	104
Security	29m 38s	5m 45s	483%	65
LB	14m 32s	2m 51s	460%	42

In addition, other commands such as:

- ***show structure commands***
- ***listing or editing commands***

have been improved and they are almost instantaneous.

The new **ETICS Repository** has a new **scalable architecture**, new **cache engines** and volatile **automatic cleaning** to boost the performance.



ETICS Improvements

Subsystem Structure

- Currently each project in ETICS can be organized in a **tree hierarchy** (Project – Subsystem – Component)
- Subsystems can be considered **groups of components** for common metadata storage, group builds and permission assignment.
- This hierarchy **has been proven to be a limitation** in some cases when multiple fragmentation is needed for the same project.

- **EXAMPLE:**

By Software

- **org.glite**
 - DM
 - Security
 - WMS
 - LB
 - ...

By Node Type

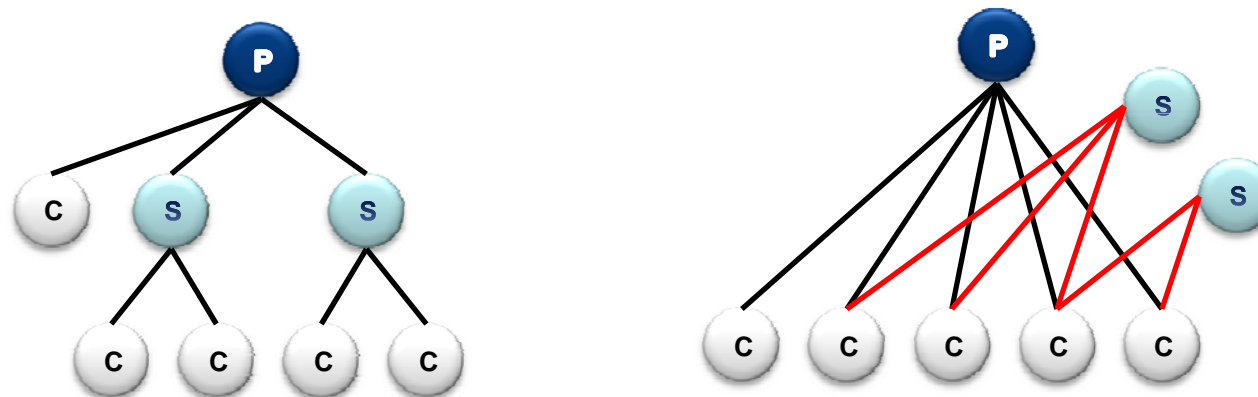
- **org.glite**
 - UI
 - WMS
 - WN
 - ...



ETICS Improvements

Subsystem Structure

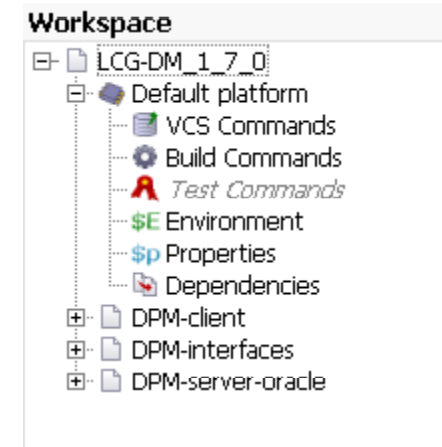
- **WORKAROUND:**
 - Use project configuration including only the needed component configurations
 - The subsystem configurations become Cartesian
- **PROPOSED SOLUTION:**
 - Transform the subsystems to become **independent groups** of selectable components
 - Allow a component to be in multiple Subsystems
 - From “**Folder**” paradigm to “**Tag**” paradigm



ETICS Improvements

Multiple packages per configuration

- Currently **only one package** (different package formats but with the same content) can be created **per configuration**
- With custom SPECFILE it is possible to create multiple packages but it is not possible to **address them separately** as dependency.
- **WORKAROUND:**
 - Use what we call **virtual-packages**
- **PROPOSED SOLUTION:**
 - Allow a component configuration to have package **subconfigurations**.
 - The checkout can be defined in the parent configuration
 - Each package can be created in each subconfiguration



ETICS Improvements

User friendliness

- The system has some **learning curve**, although it depends on the user background and experience
- In part this is due to the fact that the **scope** of the system is quite **broad** and there are many different commands and options to be used
- But it is true that the interfaces (both web and CLI) will benefit from a number of techniques to make their usage friendlier (**wizards**, **templates**, etc)
- **User documentation** is extensive, but not in a format that developers like to use. We are moving now from a single Word document to **lightweight web-based help pages** and tutorials



Dynamic APT Repositories

- Permanent APT repository for the **registered repository**
- **On-the-fly** generation of repositories per **volatile** area or even per **build**



Dynamic Deployment of Virtual Images

- A common **repository of official images** will be set up and maintained
- The ETICS client will **download** and **start** a virtual machine directly on the worker node
- **Custom-configured** virtual machines can be set up by users for testing purposes



Workflow management

- ETICS will provide **advanced release management** and **patch management tools** with proper responsibility transitions
- It will have connectors to several tools such as **Savannah**, **VCS**, **ETICS** Build and Test System to gather all the required information.

EXAMPLE:

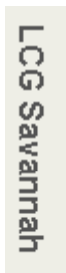


- DATE1: New CVS component by cvsuser USER1
- DATE2: Commit by USER1
- DATE3: Tag TAG1 by USER1



- DATE4: Configuration created C1 with tag assigned tag TAG1
- DATE5: Build Successful with registration. Packages: P1, P2

...



- DATE6: Bug submitted in Savannah, package P1, config C1

...

- DATE7: Patch created by USER1, sent to certification User 3
- DATE8: Patch certified by USER3, package set as Beta(PPS)



User and Project dashboards

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iETICS

Google Search I'm Feeling Lucky

Advanced Search
Search Preferences
Language Tools

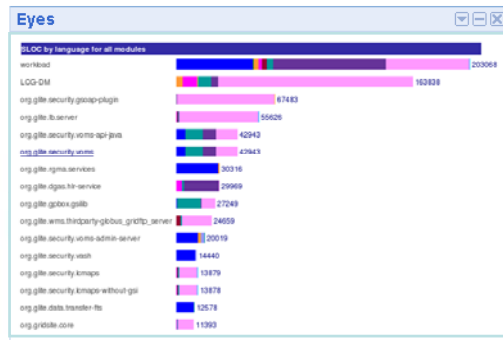
Search: the web pages from Switzerland

Google.ch offered in: [Deutsch](#) [Français](#) [Italiano](#)

[Please sign in to save your page](#)

Home page Add a tab

New! [Select theme](#) | [Add stuff](#) »



Google Map Search

service	SL4/SLC4/CBE	SL4/SLC4/DB_E4	Debian/CBE	Comments
glibe-WN	Released	Released	Build	
glibe-UI	Released	Build	Build	
glibe-AMGA_postgres	Released	Integration	n/a	
glibe-AMGA_oracle	Released	Integration	n/a	
glibe-BDII	Released	Configuration	n/a	
lcg-CE	Released	Build	n/a	
glibe-CONDOR_utils	Released	n/a	n/a	
glibe-CREAM	PPS	n/a	n/a	
glibe-FTA_oracle	Released	Released	n/a	
glibe-FTS_oracle	Released	Released	n/a	
glibe-FTM	Released	Integration	n/a	
glibe-LB	Released	Build	n/a	
glibe-LFC_mysql	Released	Released	n/a	
glibe-LFC_oracle	Released	Released	n/a	
glibe-MON	Released	Build	n/a	
glibe-PX	Released	Integration	n/a	
glibe-SE_dcache_*	Released	Released	n/a	
glibe-SE_dpm_disk	Released	Released	n/a	
glibe-SE_dpm_mysql	Released	Released	n/a	
glibe-SGE_utils	Released	n/a	n/a	
glibe-SLCS_client	Released	n/a	n/a	
glibe-TORQUE_utils	Released	Build	n/a	
glibe-TORQUE_client	Released	Released	n/a	
glibe-TORQUE_server	Released	Build	n/a	

Repubblica.it > Homepage

State	Meaning
Released	Available to production. Level of deployment is unspecified - CDRN deployment is tracked here
PPS	Available to the pre-production service
Certification	A patch has been created and the service is undergoing runtime testing
Configuration	Yam is being finalised
Integration	Service is undergoing installation tests to fix rpm lists and ensure everything can install without conflicts
Build	There are still outstanding components which are not yet built

ANSA.it - Mondo News

- Mutui: Bush, misure straordinarie
- Napoli sede dialogo Mediterraneo
- Rep.Ceca: neonazi in lista regionali

Main Build Reports

Namespace	Project	Module	Configuration	Platform	Date	Status	Req
default	org.glibe	org.glibe.information.system.manager.master	org.glibe.information.system.manager.master:HEAD	os4_ia32_gi0412	18092009	Failed	
default	org.glibe	org.glibe.information.system.manager.agent	org.glibe.information.system.manager.agent:HEAD	os4_ia32_gi0412	18092009	Failed	
default	org.glibe	org.glibe.information.system.manager.master	org.glibe.information.system.manager.master:HEAD	os4_ia32_gi0412	18092009	Failed	
default	org.glibe	org.glibe.information.system.manager.agent	org.glibe.information.system.manager.agent:HEAD	os4_ia32_gi0412	18092009	Failed	
default	org.glibe	org.glibe.xdemont	org.glibe.xdemont:HEAD	os4_ia32_gi0412	18092009	Failed	
default	org.glibe	org.glibe.xdemont	org.glibe.xdemont:HEAD	os4_ia32_gi0412	18092009	Failed	
os4_ia32_gi0412	org.etc	etc	etc:branch_2_1_0	os4_ia32_gi0412	18092009	Processing	
os4_ia32_gi0412	org.etc	etc	etc:branch_2_1_0	os4_ia32_gi0412	18092009	Processing	
default	org.glibe	org.glibe.information.system.manager.agent	org.glibe.information.system.manager.agent:HEAD	os4_ia32_gi0412	18092009	Failed	
default	org.glibe	org.glibe.information.system.manager.master	org.glibe.information.system.manager.master:HEAD	os4_ia32_gi0412	18092009	Failed	

powered by Lia

M	Tu	W	Th	F	Sa	Su
	1	2	3	4	5	6
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					



Test System

SERVICE1_ SERVICE DEFINITION for PLATFORM1

NEW SERVICE

SERVICE LIST / TREE

NEW VERSION

SERVICE VERSION / CONFIG

PHASE1_ PHASE DEFINITION REMOVE PHASE

KEY1 NODE OPT RUN BASH: export key1="\${KEY1}"

KEY2 GLOBAL MAN DES DEFAULT VALUE: 300

ADD NEW REQUIRES

BASH SCRIPT PART [...]

KEY2 GLOBAL MAN RUN BASH: ECHO \$KEY2

ADD NEW PROVIDES

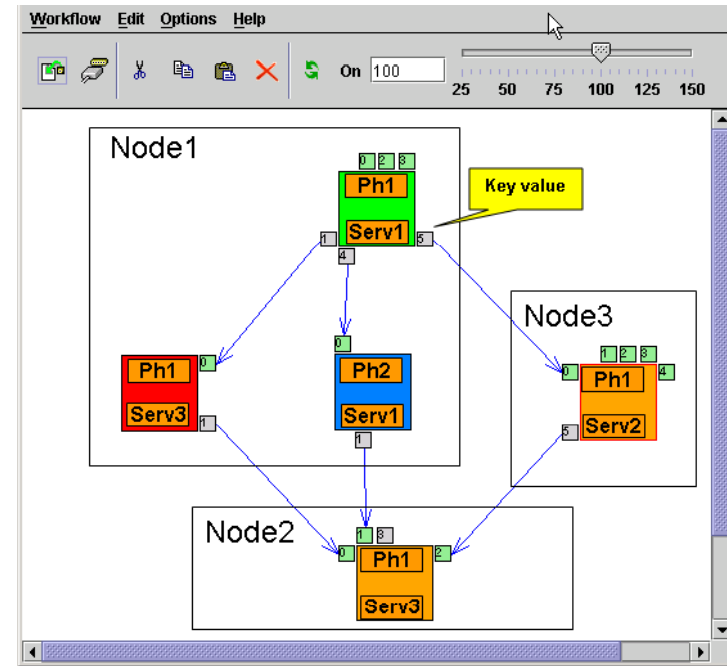
PHASE2_ PHASE DEFINITION REMOVE PHASE

ADD NEW REQUIRES

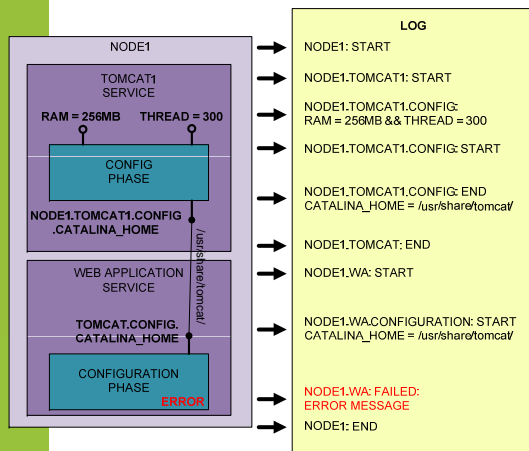
BASH SCRIPT PART [...]

ADD NEW PROVIDES

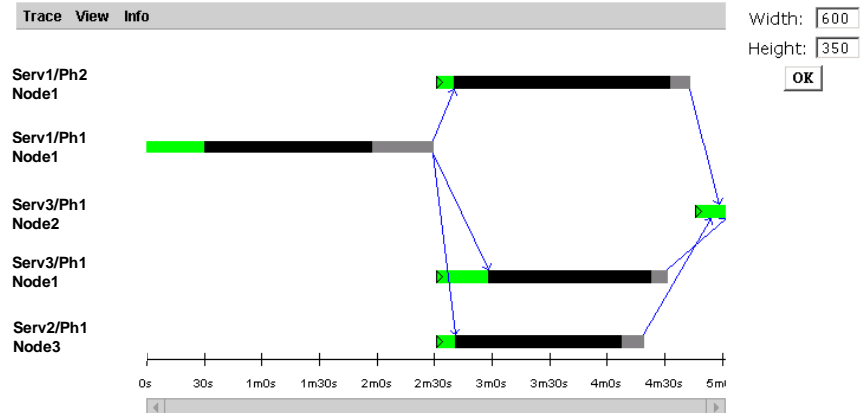
ADD PHASE EXPORT TO BASH SCRIPT IMPORT FROM BASH SCRIPT



Tracefile visualization



workflow: trace_illustration



Extension to new communities

- Two new communities have started evaluating ETICS for helping them building and testing their applications:
 - ESA SLE API } Aerospace community
 - SCOS-200 }
 - UNICORE } High-Parallel Computing community
 - GridBean }
 - AMBER }
- Other projects have shown interested in using ETICS
 - StoRM
 - VDT
- Resource and License requirements have been collected and analysed from new applications
- A couple of new applications or projects will be integrated into ETICS for the middle of November



Extension to new infrastructures

- ETICS plans to be included as a **general service** in the major European infrastructures (**EGEE**, **DEISA**, **SeeGrid**, etc)
- ETICS support is already a standard unit within GGUS.



eTICS2
The Grid Quality Process



SEE-GRID
South Eastern European GRid-enabled
Infrastructure Development



Support

- Characterised by several Web forms
 - a Web Portal at <http://support.eticsproject.eu>), containing:
 - a set of Frequently Asked Questions
 - a set of Knowledge Bases (i.e., Tutorial and Use Cases Resources)
 - a Ticketing System based on GGUS with two Support Units, **ETICS Infrastructure** and **ETICS Experts** respectively for the first-level and second-level supports
 - **please do not use the *etics-support* mailing list for issues, but the ticket system**
 - a Request form for external components
 - a Request form for new project



Support

INFSO-RI-223782

Knowledge Base - Mozilla Firefox
Tutorial - Knowledge Base - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://etics-08.cnaf.infn.it/index.php?view=category&id=2%3Atutorial&option=com_content&Itemid=...

Most Visited Getting Started Latest Headlines

ETICS2
The Grid Quality Process

Home FAQ Knowledge Base search...

Home » Knowledge Base » Tutorial

Tutorial

This category contains small articles that can help you to understand ETICS system's features.

Filter Display # All

Understanding Security in ETICS This article explains the ETICS authentication, authorization and roles.	Elisabetta Ronchieri
Integrating an Ant project into ETICS This article explains how to integrate an Ant project in ETICS. It gives a minimal overview of Ant, what is needed to setup a simple project to test the ETICS integration, and then explains how to configure a given component in ETICS.	Michele Carpene
Integrating an Autotools project into ETICS This article gives a brief overview of GNU Autotools, and explains how to integrate in ETICS a project that uses them. The tutorial goes through the setup, configuration and build procedures of a simple Hello World application using ETICS Web Application to create configurations and edit them.	Michele Pace
Using the ETICS Web Portal The ETICS Web Application allows managing projects and components registered in the ETICS database and submitting remote builds and tests to the ETICS build and test infrastructure.	Michele Carpene
Using the ETICS Command Line Client This document explains what are the software prerequisites and how you can install the ETICS Client on your machine. Moreover, a quick tour is provided in order to make you confident with the main commands available on the ETICS Command Line Client.	Marco Canaparo
Understanding Properties This article introduces properties and explains what they are, how to use them in ETICS during the checked out and build of software.	Elisabetta Ronchieri
Understanding Dependencies This article introduces dependencies and explains what they are, how to set a static or dynamic dependency among packages and modules, and how to use them in ETICS to configure your software project using the ETICS Web Application. It also gives an overview on how to add a new dependency and modify dependencies between configurations.	Michele Pace

Login Form

Username

Password

Remember Me

- [Forgot your password?](#)
- [Forgot your username?](#)
- [Create an account](#)

Popular Resources

- [Using the ETICS Web Portal](#)
- [Understanding Properties](#)
- [Integrating an Ant project into ETICS](#)
- [Integrating an Autotools project into ETICS](#)
- [Using the ETICS Command Line Client](#)

Latest Resources

- [Understanding Security in ETICS](#)

Done

Start Google T... Window... Intel PR... Tutorial... Inbox fo... Skype... fig4 - Paint 9:04 AM



Support

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GGUS - /home.php - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://gus.fzk.de/pages/home.php

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FAQ/Wiki · Documentation · Training · Contact · Masthead

GGUS Global Grid User Support

EGEE Enabling Grids for E-science

Home · Submit ticket · Registration · Support staff

Welcome to Global Grid User Support

Tickets @ GGUS

- Information on your GGUS account
- Submit a new ticket via browser
- Submit a new ticket via email

Show my complete ticket list (open/closed/subscribed)

Search ticket database

Latest open tickets

ID	VO	Info
41314	none	CE failure on ingrid.cism.ucl.ac.be (BelGrid-UCL)
41312	cms	proxy with cms VO
41311	none	CE failure on ce-alice.sdfarm.kr (KR-KISTI-GCRT-01...
41310	none	CE failure on grid03.lal.in2p3.fr (GRID)
41309	none	sBDII failure on bdii.cci.ucad.sn (SN-UCAD)
41308	none	RGMA failure on lcg-wn.lps.umontreal.ca (Umontreal...
41307	none	sBDII failure on cedric.scal.fraunhofer.de (SCAI)
41306	none	sBDII failure on birzs.latnet.lv (IMCSUL-INF)
41303	none	MyProxy failure on grid153.kfki.hu (BUDAPEST)
41302	none	CE failure on t2ce04.physics.ox.ac.uk (UKI-SOUTHGR...
41301	other	request to update access to the SAM/XML interface ...
41300	none	SRM failure on grid-se.ii.edu.mk (MK-01-UKIM_II)
41298	none	CE failure on ce001.imbm.bas.bg (BG02-IM)
41297	none	RGMA failure on cluster4.knu.ac.kr (LCG_KNU)
41296	atlas	ru-Moscow-SINP-LCG2 "lost heartbeat"

Show all open tickets

Show open FNOC tickets

Latest news

News from GGUS 2008-09-19 14:42 UTC

- Interface to ROC SW interrupted!

News from GGUS 2008-09-19 14:47 UTC

- New release of the GGUS portal online

Recently created FAQs

- go here
- News at CIC-Portal

GGUS development plans

- Description of development procedures
- Submit a request for a new feature to GGUS
- Browse current open features
- Plans for upcoming releases
- Ongoing worklist & Release Notes

GGUS Search

Grid Web Search Search

- GGUS-Knowledge-Base
- Documentation
- GGUS-FAQ - Wiki pages

Monitoring Info

Done gus.fzk.de

37020 none ETICS Experts verified 2008-06-02 ETICS Web Interface problem

Done gus.fzk.de

Start Goog... Wind... Intel... GGU... 3 M... Skyp... fig6... Micro... Docu... 9:20 AM



ETICS Web Site

INFSO-RI-223782



Conclusions

- ETICS is **not** 'a build system'
- ETICS is a **complete infrastructure** for configuring, building, testing and managing the software development process
- The current system is the result of two years of requirements analysis, design, implementations and deployment with many projects and developers
- It is currently effectively used in **production tasks**
- We are actively and proactively **supporting** our users, providing timely solutions to common problems and new features
- Where we go from here depends on how we can evolve the system and how **many more projects** decide to adopt ETICS

