

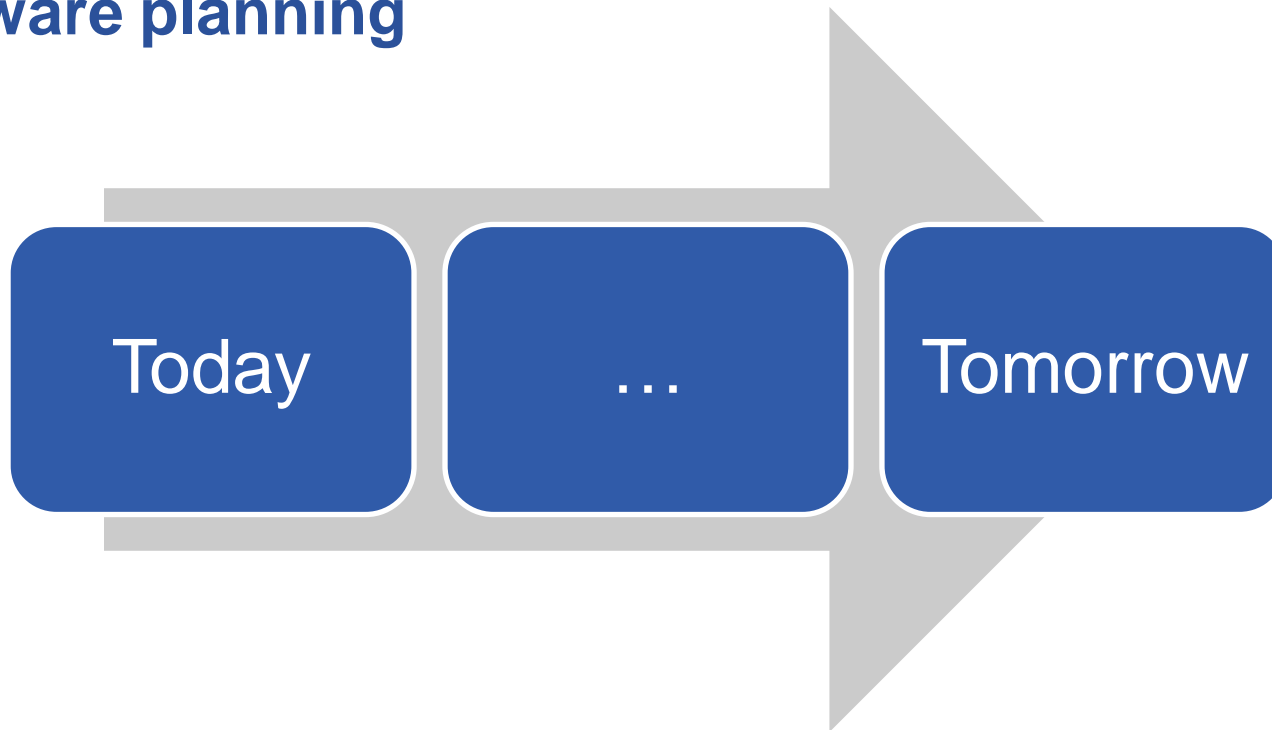
Towards an Information System Product Team

David Horat

EGEE'09, Barcelona, Spain

24th September, 2009

1. Where we are today
2. Where we might be tomorrow
3. Managing the transition
4. Software planning





JRA1

+

SA3

Middleware Engineering

Integration Testing














gLite CVS

[jralmw] Repository:



Index of /

Files shown: 10
 Sticky Tag:

File ▲	<u>Rev.</u>	<u>Age</u>	<u>Author</u>	<u>Last log entry</u>
 Auth/				
 DPM-DICOM/				
 DPM-DSI/				
 DPM-FTP/				
 FCR/				
 GmsSameConsumer/				
 LCG-DM/				
 SRM-DICOM/				
 afs ui scripts/				
 bdii/				
 bdiiconf-gen/				
 build-validation/				
 d-cache-lcg/				

Savannah

LCG Savannah

Logged in as horat

- My Incoming Items
- My Items
- My Groups
- My Account Conf
- Logout

This Page

- Clean Reload
- Printer Version

Search

in **Projects**

Hosted Projects

- Register New Project
- Full List
- Contributors Wanted
- Statistics

Site Help

- User Docs: Cookbook
- User Docs: In Depth Guide
- Get Support



My Incoming Items

- My**
- Incoming Items
- Items
- Group Membership
- Account Configuration

Here's a list of recent items (< 16 days) we think you should have a look at. These are items recently posted on trackers you manage that are still unassigned or assigned to you and news posted on a project you are member of.

New And Unassigned Items

(-) **gLite Middleware** (9 items)

- [R3.2/SL5/x86_64: DPM/LFC v1.7.3](#) (patch #3241, With Provider)
- [Data Export #392](#) (bugs) (task #11220, None)
- [Data Export #391](#) (patch) (task #11193, None)
- [Data Export #390](#) (patch) (task #11165, None)
- [a1_grid_env 3.0.1.1 SL4 SL5/x86_64](#) (patch #3231, Ready for Integration)
- [a1_grid_env 3.0.1.1 SL4 SL4/x86_64](#) (patch #3230, Ready for Integration)
- [VOMS 1.9 -- Client and APIs no longer need globus x86_64](#) (patch #3229, Ready for Integration)
- [VOMS 1.9 -- Client and APIs no longer need globus](#) (patch #3228, Ready for Integration)
- [SL5/x86_64: glite-MPI_utils](#) (patch #3225, Ready for Integration)

(-) **EGEE-SA1 Tools** (1 item)

News

None found

Twiki



Jump
Search

EGEE

Twiki > EGEE Web > InformationSystem (2009-07-24, DavidHorat)

[Edit](#) [Attach](#) [PDF](#)

EGEE Web

- EGEE Web Home
- gLite
- SA3
- JRA1
- TMB
- EMT
- SA1
- SA2
- NA2
- NA4
- EGEE-UIG
- List of registered projects
- List of EGEE-RP interactions
- Changes
- Index
- Search

Main.WebList

Welcome Guest

Login or [Register](#)

Information System

Documentation

- i. [Information System Overview](#)
- ii. [Berkely Database Information Index \(BDII\)](#)
 - a. [Resource BDII](#)
 - b. [BDII Tests](#)
- iii. [Glue Use within EGEE](#)
- iv. [Information System Troubleshooting Guide](#)
- v. [LDAP bench](#)

Obsolete

- i. [Berkely Database Information Index \(BDII\) v4](#)
- ii. [Information System Troubleshooting Guide v4](#)
- iii. [Generic Information Provider \(GIP\)](#)

Work Plan

1. Efficient Transport

ETICS

The Grid Quality Process

your identity is: **Guest (not-registered)**

ETICS | **Welcome** | **Configuration** | **Repository** | **Requests**

Tree | **Details**

- ETICS Repository
 - Registered
 - castor
 - dicom
 - egrid
 - etics-contrib
 - externals
 - gLite-ipv6
 - glite-release
 - grid-ireland
 - gridtestbed
 - gridway
 - INFNGrid
 - Metronome
 - mpi
 - myproject
 - OMII-Europe
 - org.diligentproject
 - org.etics
 - org.etics.testsuites
 - org.gcore
 - org.gcube
 - org.glite
 - Packages
 - a1_grid_env
 - bdii
 - 3.8.5
 - 3.8.7



bdii-5.0.4-1.noarch.rpm

org.glite/bdii/5.0.4/noarch/bdii-5.0.4-1.noarch.rpm

File details	
<i>name:</i>	bdii-5.0.4-1.noarch.rpm
<i>type:</i>	RPM
<i>size:</i>	15 KB (15531 bytes)
<i>created:</i>	21/08/2009 14:16:18
<i>download:</i>	org.glite/bdii/5.0.4/noarch/bdii-5.0.4-1.noarch.rpm

Package details	
<i>project:</i>	org.glite
<i>module:</i>	bdii
<i>version:</i>	5.0.4-1
<i>platform:</i>	noarch
<i>author:</i>	CN=Laurence Field, CN=609275, CN=lfield, OU=Users, OU=Organic Units, DC=cern, DC=ch

Build details	
---------------	--

SA3





New And Unassigned Items	News
gLite Middleware (0 items)	None found
FCI 35353686_S4I_SPMERFC17.3 [open issue, new]	
SI Data Export #392 [patch] [open issue, new]	
SI Data Export #391 [patch] [open issue, new]	
SI Data Export #390 [patch] [open issue, new]	
gLite 5.0.4-1 SL4 SL4698_64 [open issue, new, to register]	
gLite 5.0.4-1 SL4 SL4698_64 [open issue, new, to register]	
VOADS 1.9 - Client and APIs no longer need	
gobby 0.85_64 [open issue, new, to register]	
VOADS 1.9 - Client and APIs no longer need	
gobby [open issue, new, to register]	
SL 5.0.69_64_gLite-MPL [open issue, new, to register]	

bdii-5.0.4-1.noarch.rpm
org.gite/bdii/5.0.4/noarch/bdii-5.0.4-1.noarch.rpm

File details
name: bdii-5.0.4-1.noarch.rpm
type: RPM
size: 15 KB (15531 bytes)
created: 21/08/2009 14:16:18
download: org.gite/bdii/5.0.4/noarch/bdii-5.0.4-1.noarch.rpm

Package details
project: org.gite
module: bdii
version: 5.0.4-1
platform: noarch
author: CN=Laurence Field, CN=609275, CN=field, OU=Users, OU=Organic Units, DC=cern, DC=ch

Build details



File	Rev	Age	Author	Last log entry
Auth/				
DPM-D3COM/				
DPM-D3V/				
DPM-FTV/				
FCV/				
GlobusOpenCosmoser/				
LCS-DM/				
SDM-D3COM/				
de_w_script/				
lsd/				
lsdc-ccf-Cent/				
libd3-validator/				
d-cache-3g/				



- 1. Self Contained Software Unit**
 - Self sufficient
 - Interface (What we deliver and how?)

- 2. Same as now with minor changes**
 - Plus certification
 - Interface (What we deliver and how?)

Information System Product Team

- **Areas to consider**
 - Hosting options
 - Building system
 - Certification
 - Release management

- **Current products**
 - BDII
 - GLUE 2.0
 - GIP
 - Etc.



	Organization	Revision Control	Bug Tracking	Web Hosting	Wiki	Mailing List	Forum	Access Mechanisms	Code Review	Paid Support
assembla	Assembla LLC	SVN	Yes	No	Yes	Messages ¹	No	Account	No	Yes
CERN SVN	CERN	SVN	Yes	Yes	Yes	Yes	No	Account, Certificate	No	Unknown
GNU Savannah	GNU	CVS, SVN	Yes	No	No	Yes	Yes	Account	No	No
Google Code	Google	SVN	Yes	Outside ²	Yes	Outside ³	Outside ⁴	Account	Yes	No
Launchpad	Ubuntu	CVS, SVN ⁵	Yes	No	No	Yes	No	Account	Yes	No
SourceForge	SourceForge	CVS, SVN	Yes	Yes	Yes	Yes	Yes	Account, OpenID	No	No
Tigris	CollabNet	CVS, SVN	Yes	Yes	Yes	Yes	Yes	Account	No	No
Unfuddle	Subventurate LLC	SVN	Yes	No	Yes	Blog ⁶	No	Account	No	Yes

- [1] It is really an internal messaging system rather than a standard mailing list
- [2] You can use Google Sites.
- [3] You can use Google Groups.
- [4] You can use Google Groups.
- [5] CVS and SVN are imported into Bazaar format. No native support.
- [6] It is really an internal blog rather than a standard mailing list



IT Department

IT Home > Technical Computing > CERN Central SVN Service

[CERN Home](#) [IT Home](#) [Phonebook](#) [Need Help?](#)

- All CERN
- IT Department

CERN Central SVN Service

<http://svn.web.cern.ch/svn/index.php>

This is the web page of the CERN Central SVN Service - a SVN service provided, maintained and supported by IT Division. You will find more specific information on the following pages:

- [HOW TO - request a project](#), administrate it, [access](#) SVN servers etc.
- Further [Reading](#) about SVN; different clients and presentations.
- Add a [feature request](#) if there is anything in the Central SVN Service that you are missing.
- [Service Level Agreement](#), you may also have a look at the [Mandate](#)

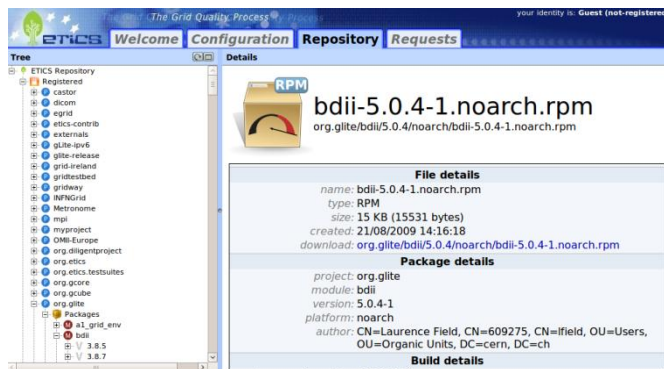
Projects hosted: **234**

Subscribe to [VC-Announcements](#) (Version Control Systems related announcements), or have a look in our [archive](#), where you will find a Summary of the SVN Forums and major announcements.

Are you also using CVS?? Then you might want to have a look at our CVS to SVN (Subversion) migration campaign:

- IT Services**
- [Access to Facilities](#)
- [Desktops and Portables](#)
- [Administrative Computing](#)
- [Physics Computing](#)
- [Technical Computing](#)
- [Telecom](#)
- [Index of Services](#)
- [Other Services](#)
- Department Information**
- [What We Do](#)
- [Department Structure](#)
- [Administration](#)
- [Minutes & Reports](#)

- **CVS → SVN**
- **Savannah + Twiki → Trac**



- Best practices in Free Software?
- Get closer to the OS?
- Include components in OS distributions?

A possibility ...

Koji

The Fedora Build System

```
koji build <repo_tag> <source>
```

<repo_tag>: The repository to use for dependencies

<source>: CVS URL, SVN URL, source RPM, etc.

- Dependencies resolved using the spec file

All Tasks owned by lfield

State: Owner:
 Method: View:

Tasks 1 through 50 of 180 >>>

Page:

ID	Type	Owner	Arch	Finished	State
6874	build (dist-centos5-devel, /svn/grid-monitoring/tags/gstat/validation/R_2_0_11:HEAD) <ul style="list-style-type: none"> — buildSRPMFromSCM (/svn/grid-monitoring/tags/gstat/validation/R_2_0_11:HEAD) — buildArch (gstat-validation-2.0.11-1.el5.src.rpm, noarch) — tagBuild (noarch) 	lfield	noarch	2009-08-28 12:00:38	
6873	build (dist-centos4-devel, /svn/grid-monitoring/tags/gstat/validation/R_2_0_11:HEAD) <ul style="list-style-type: none"> — buildSRPMFromSCM (/svn/grid-monitoring/tags/gstat/validation/R_2_0_11:HEAD) — buildArch (gstat-validation-2.0.11-1.el4.src.rpm, noarch) — tagBuild (noarch) 	lfield	noarch	2009-08-28 12:00:33	
6807	build (dist-centos4-devel, /svn/grid-monitoring/trunk/probe/org.bdii:2273) <ul style="list-style-type: none"> — buildSRPMFromSCM (/svn/grid-monitoring/trunk/probe/org.bdii:2273) — buildArch (grid-monitoring-probes-org.bdii-1.0.3-1.el4.src.rpm, x86_64) — buildArch (grid-monitoring-probes-org.bdii-1.0.3-1.el4.src.rpm, i386) — tagBuild (noarch) 	lfield	noarch	2009-08-26 16:35:27	
6808	build (dist-centos5-devel, /svn/grid-monitoring/trunk/probe/org.bdii:2273) <ul style="list-style-type: none"> — buildSRPMFromSCM (/svn/grid-monitoring/trunk/probe/org.bdii:2273) — buildArch (grid-monitoring-probes-org.bdii-1.0.3-1.el5.src.rpm, x86_64) 	lfield	noarch	2009-08-26 16:34:56	

- **Pros**

- Community supported
- Best practices implementation
- Multiple source types
- One command
- Process driven from the spec file
- Tag based approach

- **Cons**

- RPM based
- Difficulty to build debs
 - Already being discussed in the community
- Other possibilities?
 - The Debian Build System

- **Improve automatic tests**
- **Virtual machine images**
- **Automatic setup**
- **The testbed**





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Wiki | Timeline | Roadmap | **Browse Source** | View Tickets | Search | Blog

[Last Change](#) | [Revision Log](#)

root / **tests** / **trunk**

View revision:

Name ▲	Size	Rev	Age	Last Change
../				
test-bdii-chain.sh	3.2 KB	50	6 weeks	horat:
test-bdii-resource.sh	437 bytes	50	6 weeks	horat:
test-bdii-site.sh	3.0 KB	50	6 weeks	horat:
test-bdii-top.sh	2.0 KB	50	6 weeks	horat:

Note: See [TracBrowser](#) for help on using the browser.



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Visit the Trac open source project at
<http://trac.edgewall.org/>

- **Bash scripts**

- Exit value 0: OK
- Exit value != 0: ERROR

Deploy a Xen Virtual Machine ✕

Configure your Xen Virtual Machine

Physical Hosts:
Virtual Hostnames:
Expiry Time(days):
Memory (MB):
Partition (GB):
OS Image:
Service Type:

Advanced Options

Image Filename:
Virtual Machine Name:

Xen Virtual Machine(s) that will be deployed or are currently reserved to you

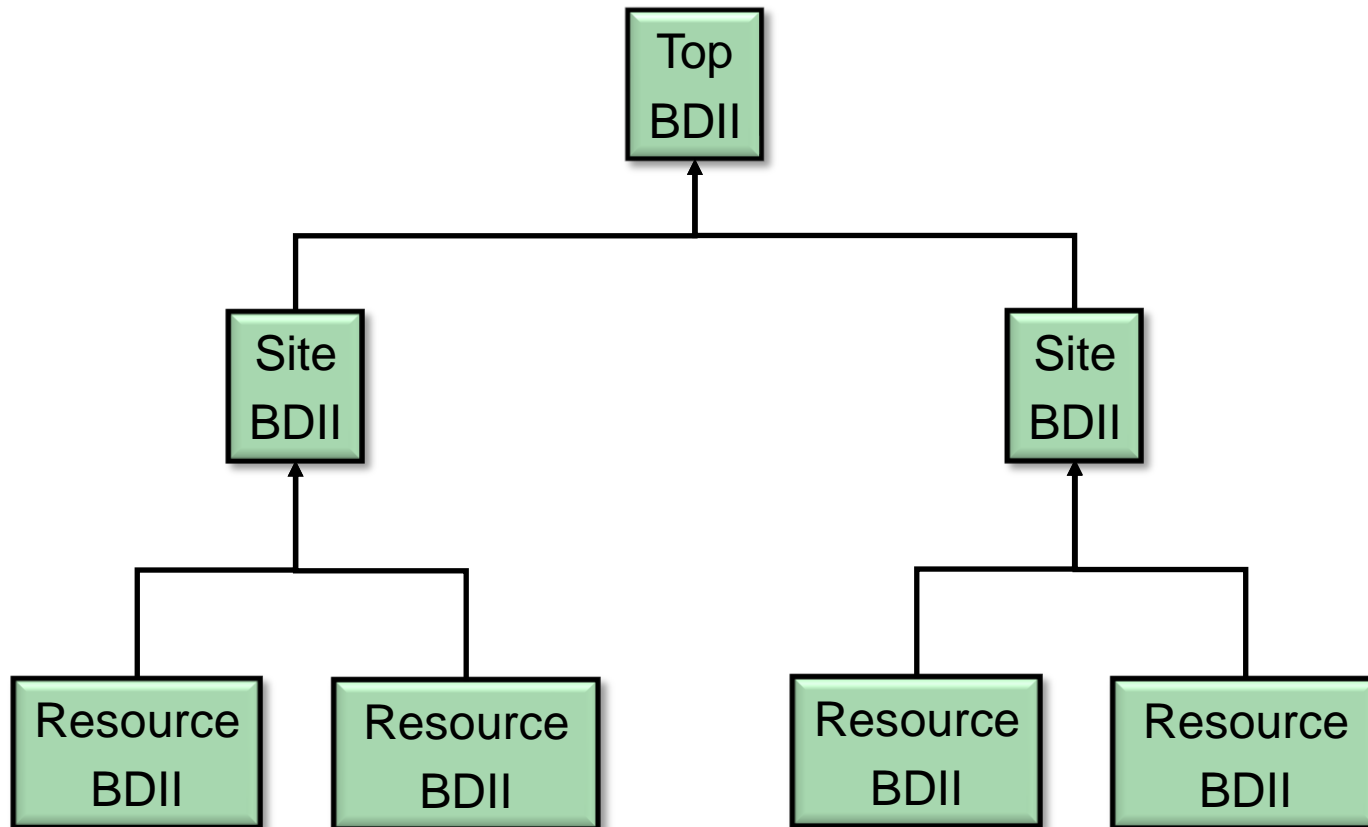
Name	PhysicalHost	VirtualHost	ExpiryTime	Memory	Partition	OSImage
No records found.						

- **VNode: XEN virtual machines**
 - SL4-32-DH
 - SL4-64-DH
 - SL5-64-DH

```
./yaimgen.sh <input file> <log file>
```



1. Update the system
 2. Select repository
 3. Install nodes
 4. Install patches
 5. Configure the system
 6. Configure the node using YAIM
 7. Run basic tests
- And now we can start certifying ...



Welcome, **David Jesus Horat Flotats**

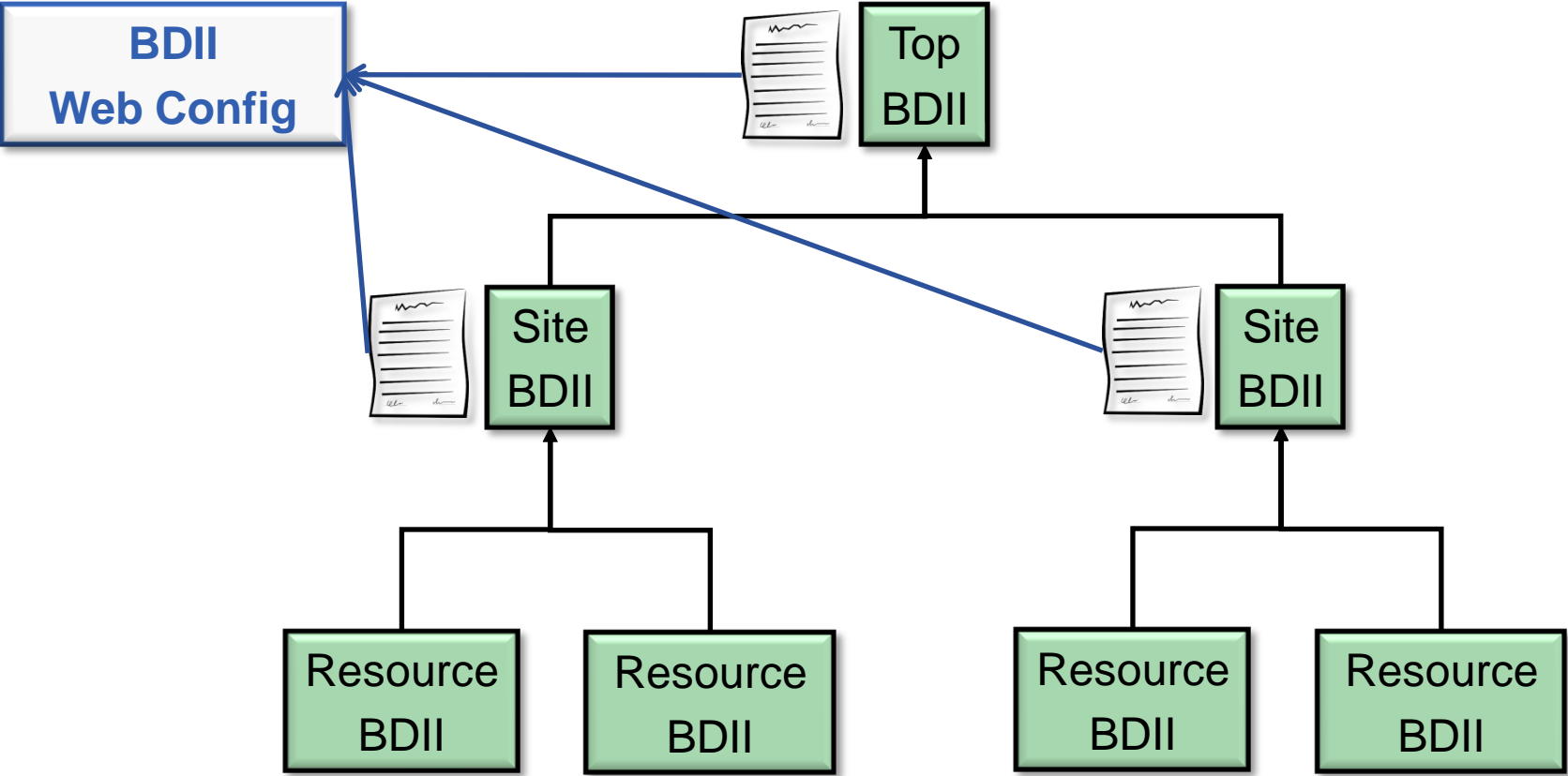
BDII Web Config

Files	Commands
cert-tb-cern	Show Link Edit Delete
Testbed-Top	Show Link Edit Delete

[Create a new file](#)

[David Horat](#)

[Help](#) - [CERN Copyright](#) ©



- **Announcements**
- **Bug tracking**
- **Project portal**
- **Code browser**
- **XML-RPC API**



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Recent posts

GStat 2.0 Beta Release

The beta release of GStat is now available. Installation and configuration instructions can be found in the [Installation Guide](#). For any questions or comments, please email the [GStat support list](#).

GStat 2.0 is a major revision of the original version of GStat and aims to improve usability while reducing the maintenance overhead. In addition, the modular design enables various components to be re-used in other applications. Further details on the design goals and architecture can be found in the [GStat Overview](#) page and the [CHEP 2009 paper](#).

The aim of the GStat 2.0 beta release is to give potential users a chance to provide feedback before the official release. The aim of the official release will be to provide a replacement for the original version of GStat. However, due to time constraints, some functionality is not available in this beta release.

Here is an instance of GStat 2.0 Beta for evaluation: <http://gstat-dev.cern.ch/gstat>. Feedback on improvements and desired functionality is welcome and can be given by emailing the [GStat support list](#).

Posted: 2009-08-27 13:39 (Updated: 2009-09-01 14:03)


Author: [lfield](#)

Categories: [Releases](#)
[Comments](#) (0)

Download in other formats:



This blog does not yet have an 'About' post.

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Browse by time:

[August 2009](#) (1)

Browse by author:

[lfield](#) (1) [RSS](#)

Browse by category:

[Releases](#) (1) [RSS](#)



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[Available Reports](#) | [Custom Query](#)

{7} My Tickets (7 matches)

This report demonstrates the use of the automatically set USER dynamic variable, replaced with the username of the logged in user when executed.

Accepted (2 matches)

Ticket	Summary	Component	Version	Milestone	Type	Priority	Created
#19	Prepare a BDII test plan	bdii			task	major	23/07/09
#38	Deployment Stats	gstat-web	2.0	GStat beta2	enhancement	minor	28/08/09

Owned (5 matches)

Ticket	Summary	Component	Version	Milestone	Type	Priority	Created
#20	Glue 2.0 Tests	gstat-validation	2.0		enhancement	major	23/07/09
#18	Glue 2.0 Examples for multi-core/VM use cases.	glue-schema	2.0		task	major	23/07/09
#12	GLUE 2.0 Django models and import script	gstat-web	2.0		enhancement	minor	13/07/09
#28	GLUE 2.0 AdminDomain Information provider.	bdii			enhancement	minor	03/08/09
#17	Optimize application images	gstat-web	2.0	GStat beta2	enhancement	minor	16/07/09



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Roadmap

Milestone: **GStat beta release**

Completed **3 weeks** ago (25/08/09)



Closed tickets: 15 Active tickets: 0 / Total tickets: 15

First beta release of GStat

Show already completed milestones

Milestone: **GStat beta2**

Due in **3 days** (20/09/09)



Closed tickets: 3 Active tickets: 14 / Total tickets: 17

This release should duplicate the functionality of GStat version 1, so that the service can be decommissioned.

Milestone: **Gstat release**

Due in **6 weeks** (01/11/09)



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Welcome to the Grid Information System

Starting Points

- [Documentation](#) -- Documentation.
- [Test Plan](#) -- The Testing Strategy.
- [Automatic Tests matrix](#) -- Making basic testing become easy.
- [Download](#) -- Download the software.
- [Support](#) -- Support and Troubleshooting.
- [Suggestions](#) -- Suggestions for the different components.
- [RoadMap](#) -- Software road map.
- [Developers](#) -- Information for developers.
- [FAQ](#) -- Frequently Asked Questions.
- [Links](#) -- Interesting link compilation.

For anything else please contact [✉ is-grid-support](mailto:is-grid-support).

Download in other formats:

[Plain Text](#)

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--	------	----------	---------	----------------------	--------------	------------	--------	-------	------

[Last Change](#) | [Revision Log](#)

root

View revision:

Name ▲	Size	Rev	Age	Last Change
▶ bdii		64	4 weeks	lfield: New Release
▶ certification		59	6 weeks	horat: Added configuration for WN and SE_dpm_mysql
▶ deploystats		68	9 days	horat: Example form with javascript validation for usability
▶ example		17	3 months	lfield: A few more build changels
▶ glue-schema		67	9 days	lfield: Updated specfile
▶ ldapbench		48	6 weeks	lfield: Added ldapbench
▶ poorman		58	6 weeks	horat: Extracted auxiliary functions to the file lib.php
▶ release-scripts		20	3 months	lfield: Added release scripts
▶ tests		50	6 weeks	horat:
📄 copy-build-scripts.sh	282 bytes	20	3 months	lfield: Added release scripts

Note: See [TracBrowser](#) for help on using the browser.



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<http://trac.edgewall.org/>

- **Web Service**
 - XML-RPC
 - Doc: <http://trac-hacks.org/wiki/XmlRpcPlugin>
- **Manage**
 - Tickets
 - Wiki
 - Search

Retrieving my tickets in Python

```
import xmlrpclib

url =
    "https://user:password@svnweb.cern.ch/no_sso/trac/gr
    idinfo/login/xmlrpc"

server = xmlrpclib.ServerProxy(url)
multicall = xmlrpclib.MultiCall(server)

for ticket in server.ticket.query("owner=horat"):
    multicall.ticket.get(ticket)
print map(str, multicall())
```

- **Software released**
 - BDII
 - BDII File Editor
 - GStat
 - Deployment statistics

- **Software in which we collaborate**
 - GLUE Schema
 - Yaimgen

- **To come ...**
 - GLUE 2.0 roll out
 - BDII maintenance
 - Performance and scalability improvement
 - Investigate a more decentralized model
 - GStat 2.0 release
 - Validation probes
 - Web application
 - Yaimgen
 - More and more automation

Thank you!

David Horat

david.horat@cern.ch

<http://cern.ch/horat>