



#### Enabling Grids for E-sciencE

# **EGEE Operations**

EGEE 1<sup>st</sup> EU Review – 9<sup>th</sup> to 11<sup>th</sup> February 2005, CERN Hélène Cordier, IN2P3 Piotr Nyczyk, CERN Daily Operations, SA1

www.eu-egee.org







# Objective: A day in SA1 Ops life

**Enabling Grids for E-sciencE** 

- CIC
  - Definition
  - Operational tool
- CIC Operations
  - CIC-on-duty
    - Definition
    - Procedure
    - Operations
  - Monitoring tools
- Escalation Scenarii
  - Severity
  - Deadline Expiration
- Next Steps

#### **EGEE GLOSSARY**

**SA1** EGEE European Grid Support, Operation and Management activity

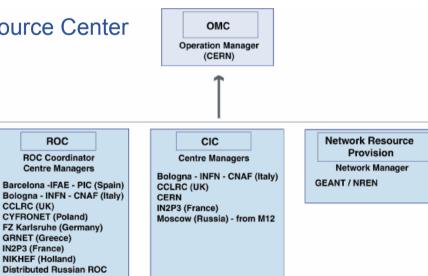
**SA2** EGEE Network Resource Provision Activity

**OMC** Operation Management Center

**CIC** Core Infrastructure Centrer

**ROC** Regional Operation Center

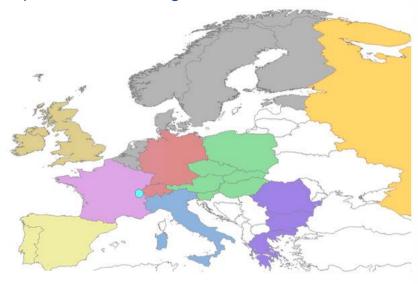
**RC** Resource Center



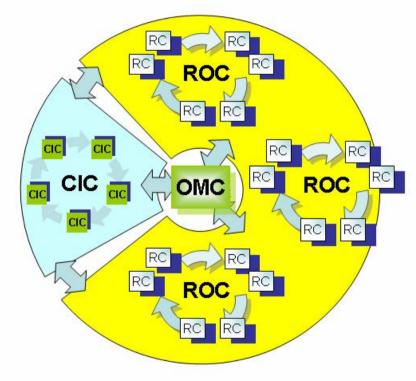


#### **Enabling Grids for E-sciencE**

Operate essential grid services and act as Grid Operation Center



- Objectives
  - Transparency
  - Information sharing
  - Troubleshooting in conjunction with ROCs
- Current state of operations
  - Procedures defined, constantly under review and in use
  - Monitoring tools and in-depth testing
  - Communication tool
  - Problem Tracking System

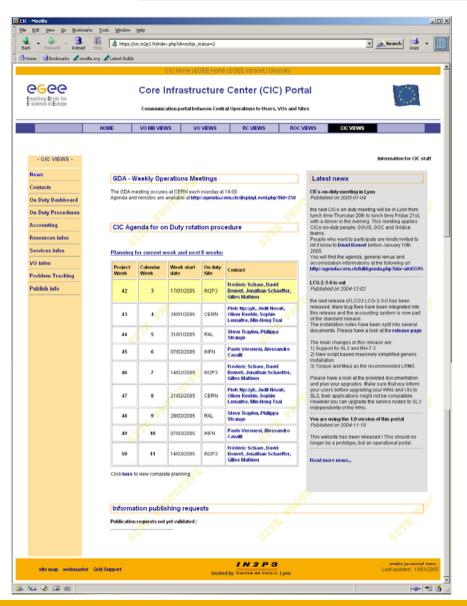




#### **Operations Web Portal**

http://cic.in2p3.fr/

**Enabling Grids for E-sciencE** 



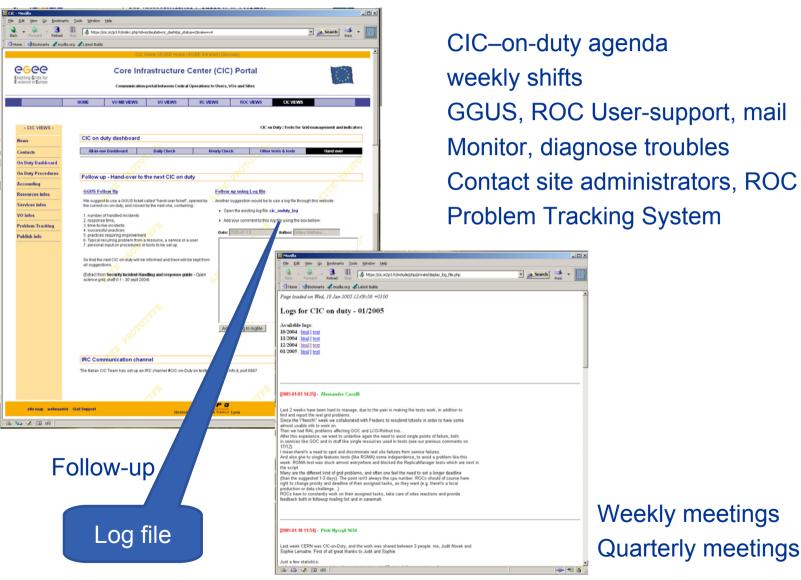
CIC portal features

- Links tools for EGEE operators and users
- Communication tool
- Provide a repository
  - Operations logs
  - Knowledge: configurations, data, FAQs
  - Procedures and processes



## **CIC-on-duty**

#### **Enabling Grids for E-sciencE**



Weekly meetings Quarterly meetings



### **CIC Operations**

https://cic.in2p3.fr/index.php?id=cic&subid=cic\_dash2

**Enabling Grids for E-sciencE** 

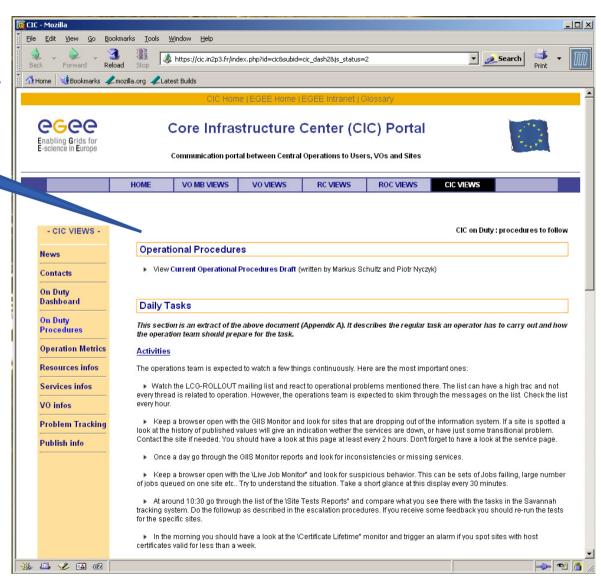
Cic operational procedure

**Ops Procedure** 

High level abstraction of core tools results

Link all existing tools

- monitoring
- diagnosis
- communication
  - mail
  - follow up log

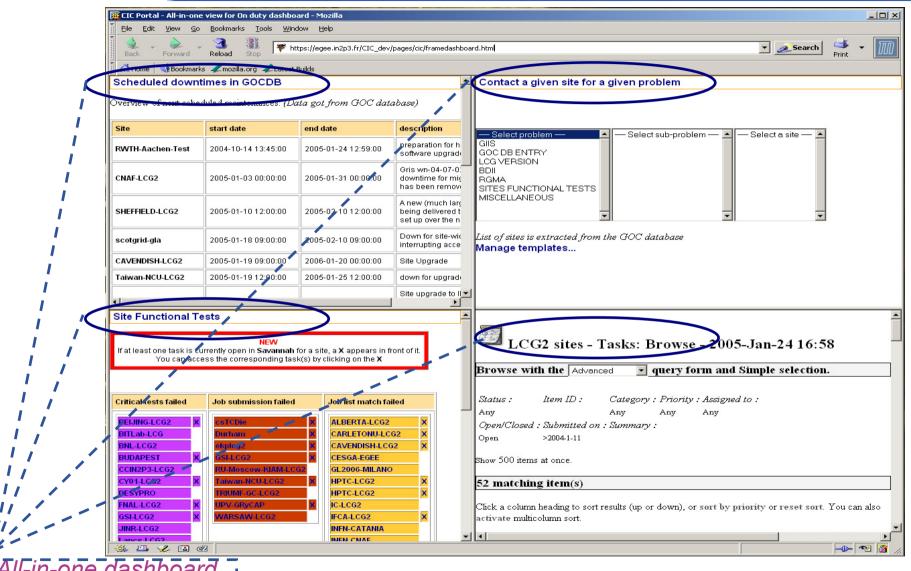




### **Cic-on-duty Dashboard**

https://cic.in2p3.fr/pages/cic/framedashboard.html

**Enabling Grids for E-sciencE** 





# Selection of Monitoring tools

#### **Enabling Grids for E-sciencE**



**GIIS Monitor** 



**GOC Data Base** 



Gridlce - VO view



**GIIS Monitor graphs** 



**Scheduled Downtimes** 



Gridlce - fabric view



Sites Functional Tests



Live Job Monitor



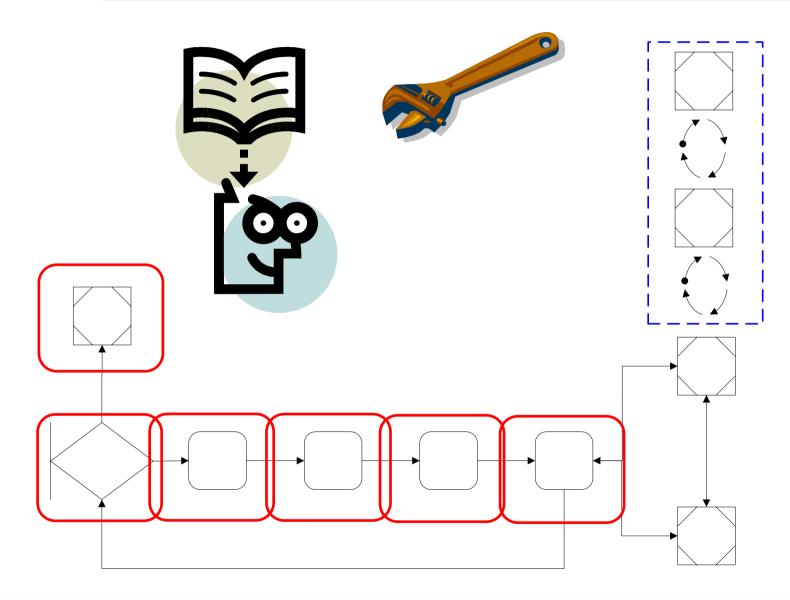
**Certificate Lifetime Monitor** 

Note: Those thumbnails are links and are clickable.



# **Escalation scenarii (1/2)**

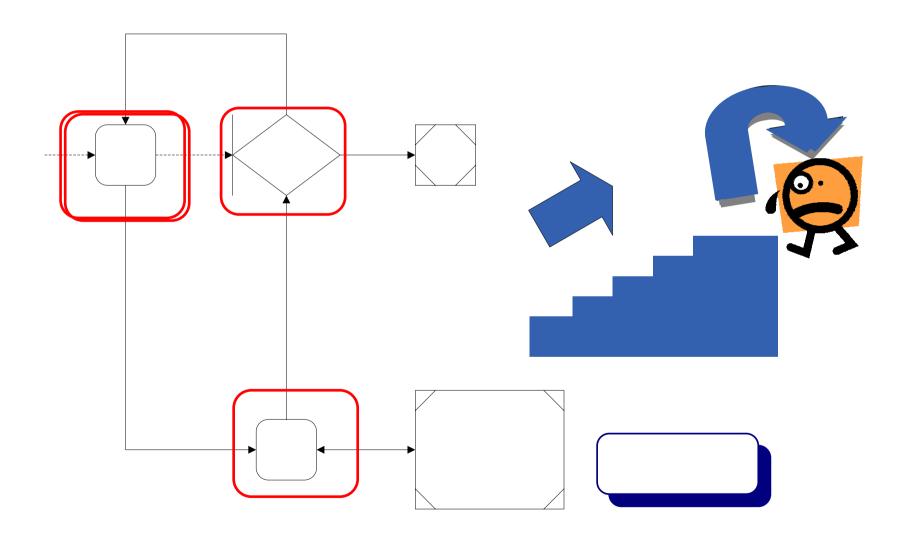
**Enabling Grids for E-sciencE** 





## **Escalation Scenarii 2/2**

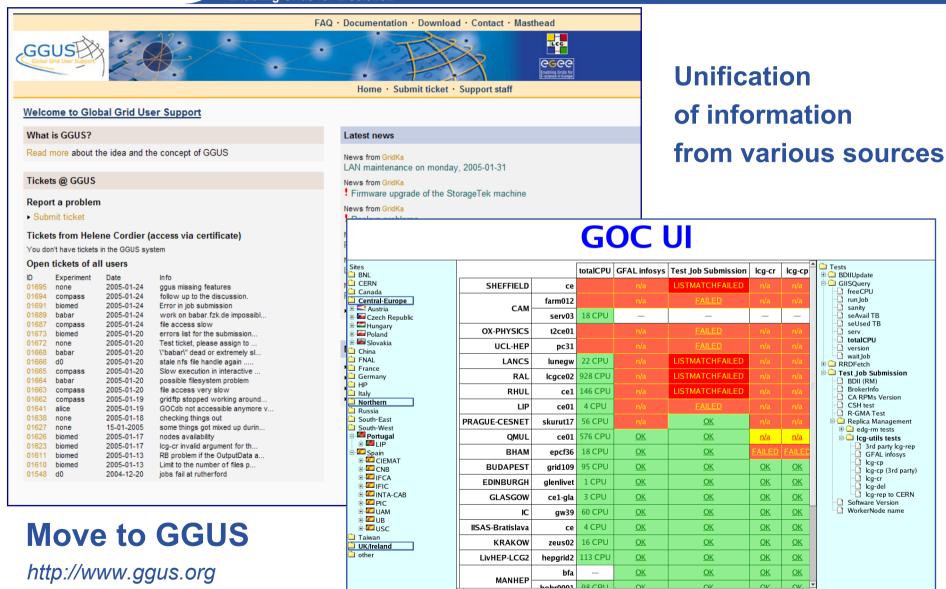
**Enabling Grids for E-sciencE** 





### **Next steps**

**Enabling Grids for E-sciencE** 





Done

### **Task Deadline Expiration**

savannah.cem.ch 🦰 GP

**Enabling Grids for E-sciencE** 0 \_ 5 X Edit View Go Bookmarks Tools Help 0 \_\_\_\_\_ ✓ O Go C. https://savannah.cern.ch/task/index.php?func=detailitem&item\_id=1542 LCG Savannah LCG2 sites - Tasks: Modify an Item Mv Items My Groups Public Areas Main | Homepage | Support | Bugs | Tasks > My Account Conf Bookmark This Page >> Submit a Task | Browse Open Tasks | Browse My Tasks | Digest Tasks | Search a Task | Statistics Logout Clean Reload Printer Version Administration Main | Support | Bugs | Tasks in Project/Group You are both technician and manager for this tracker. Search task #1542 overview: Job submission failed > Register New Project > Full List > Statistics Submitted by: Philippa Strange <pstrange> Submit Changes and Browse Items Submitted on: 2005-Jan-13 11:37 Submit Changes and Return to this Item Get Support Contributor Wanted ₹ 2005 Should Start On: 13 🕶 January 2005 Should be Finished on: 17 ▼ January Priority: \* Category: CGG-LCG2 5 - Normal Contact Us Item Group: Job Submission (Job Manager) Status: None Assigned to: rocfrance Percent Complete. 0% GNU/Savane Open 🕶 Open/Closed: \* Action taken: Mail to site admin Person contacted: dlegeeadmin@cgg.com, grid.support@cc.in2p3.fr Response: Summary: \* Job submission failed Original Submission: Deadline task #1542 details: - Follow-up Comments - Attached Files - Mail Notification Carbon-Copy List - Dependencies - Reassign this item

INFSO-RI-508833 EGEE Operations 12

- History



## **Unsolved Problem**

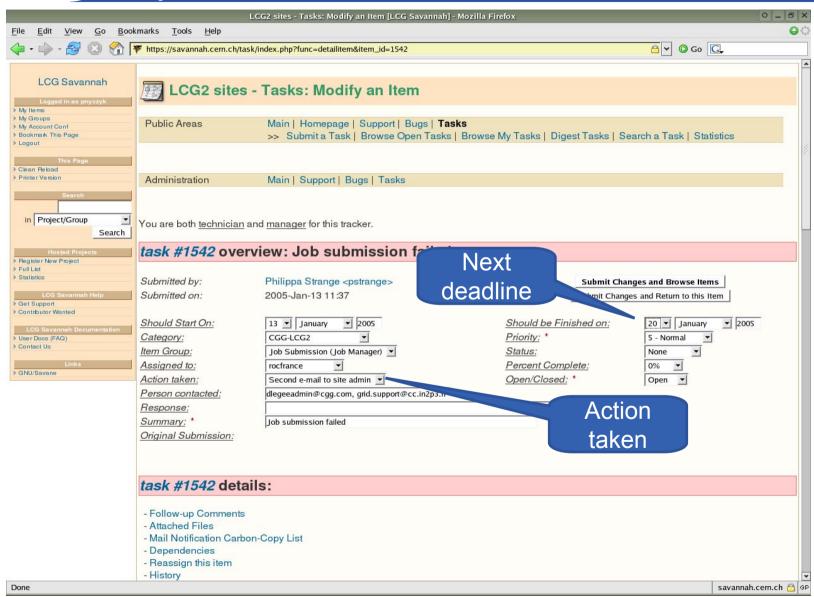
**Enabling Grids for E-sciencE** 

Site Functional Tests report - Mozilla Firefox										
File Edit View Go Bookmarks Tools Help										
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BNL	BNL-LCG2	lcg-ce01.usatlas.bnl.gov	2005-01-17 06:05:40	LCG-2_2_0	LCG-2_2_0	<u>0K</u>	<u>0K</u>	n/a	<u>0K</u>	ldap://lcg-bdii.usatlas.bnl.gov:21
CentralEurope	BUDAPEST	grid109.kfki.hu	2005-01-17 06:05:40	LCG-2_2_0	LCG-2_2_0	<u>0K</u>	<u>ok</u>	FAILED	<u>ok</u>	ldap://lxn1189.cern.ch:2170
Canada	CARLETONU-LCG2	lcg02.physics.carleton.ca	2005-01-17 06:05:40	FAILED	n/a	n/a	n/a	n/a	n/a	n/a
UKI	CAVENDISH-LCG2	serv03.hep.phy.cam.ac.uk	2005-01-17 06:05:40	FAILED	n/a	n/a	n/a	n/a	n/a	n/a
France	CCIN2P3-LCG2	cclegceli01.in2p3.fr	2005-01-17 06:05:40	LCG-2_2_0	LCG-2_2_0	<u>OK</u>	<u>0K</u>	<u>0K</u>	<u>OK</u>	ldap://lxn1178.cern.ch:2170
CERN	CERN-LCG2	lxn1184.cern.ch	2005-01-17 06:05:40	LCG-2_3_0	LCG-2_2_0	<u>OK</u>	<u>0K</u>	<u>0K</u>	<u>0K</u>	ldap://lxn1178.cern.ch:2170
	CERN-LCG2	site-bdii.cem.ch	2005-01-17 06:05:40	FAILED	n/a	n/a	n/a	n/a	n/a	n/a
SouthWesternEurope	CESGA-EGEE	ce.egee.cesga.es	2005-01-17 06:05:40	LCG-2_2_0	LCG-2_2_0	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	ldap://lcgbdii02.ifae.es:2170
France	CGG-LCG2	cel.egee.fr.egg.com	2005-01-17 06:05:40	LCG-2_2_0	n/a	n/a	n/a	n/a	n/a	n/a
SouthWesternEurope	CIEMAT-LCG2	lcg02.ciemat.es	2005-01-17 06:05:40	LCG-2_2_0	LCG-2_2_0	<u>ок</u>	<u>ok</u>	FAILED	<u>OK</u>	ldap://lxn1178.cern.ch:2170
	CNAF-LCG2	wn-04-07-02-a.cr.cnaf.infn.it	2005-01-17 06:05:40	<u>FAILED</u>	n/a	n/a	n/a	n/a	n/a	n/a
SouthWesternEurope	CNB-LCG2	mallarme.cnb.uam.es	2005-01-17 06:05:40	LCG-2_2_0	LCG-2_2_0	<u>OK</u>	<u>OK</u>	FAILED	<u>OK</u>	ldap://lxn1189.cern.ch:2170
GermanySwitzerland	CSCS-LCG2	compute-0-10.cscs.ch	2005-01-17 06:05:40	LCG-2_2_0	LCG-2_2_0	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	ldap://lxn1178.cern.ch:2170
SouthEasternEurope	CY01-LCG2	ce101.grid.ucy.ac.cy	2005-01-17 06:05:40	FAILED -	lua	n/a	n/a	n/a	n/a	n/a
CentralEurope	cyfronetlcg2	zeus02.cyf-kr.edu.pl	2005-01-17 06:05:40	LCG-2_3_0	LCG-2_3_0	<u>OK</u>	<u>OK</u>		T	icket h:2170
GermanySwitzerland	<u>DESYPRO</u>	grid-ce.desy.de	2005-01-17 06:05:40	LCG-2_3_0	LCG-2_2_0	<u>OK</u>	<u>0K</u>	n/a	S	tatus de:2170
UKI	Durham	helmsley.dur.scotgrid.ac.uk	2005-01-17 06:05:40	LCG-2_2_0	n/a	n/a	n/a	n/a	n/a	n/a
CentralEurope	egee.man.poznan.pl	node2.egee.man.poznan.pl	2005-01-17 06:05:40	FAILED	n/a	n/a	n/a	n/a	n/a	n/a 🔻
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### **Escalation procedure**

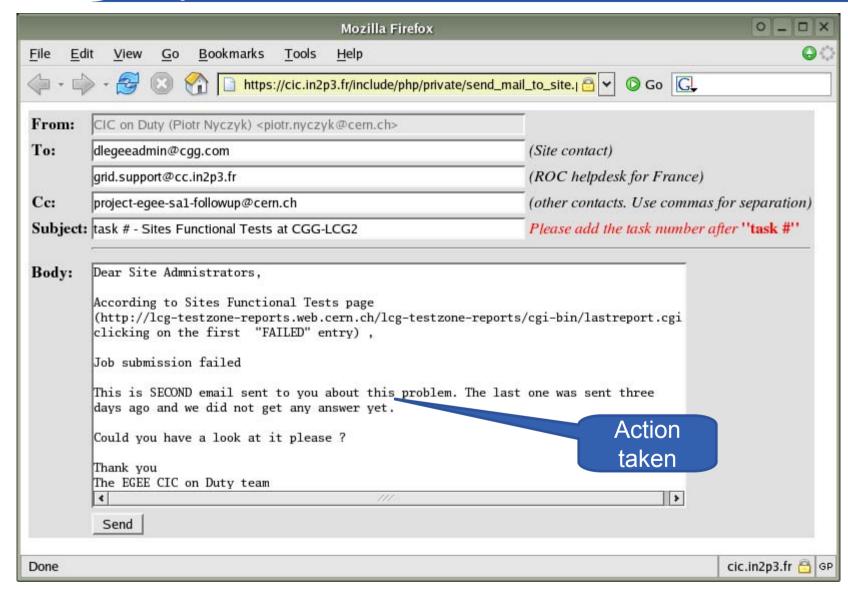
#### **Enabling Grids for E-sciencE**





#### **Second Notification**

**Enabling Grids for E-sciencE** 





### **Problem detection**

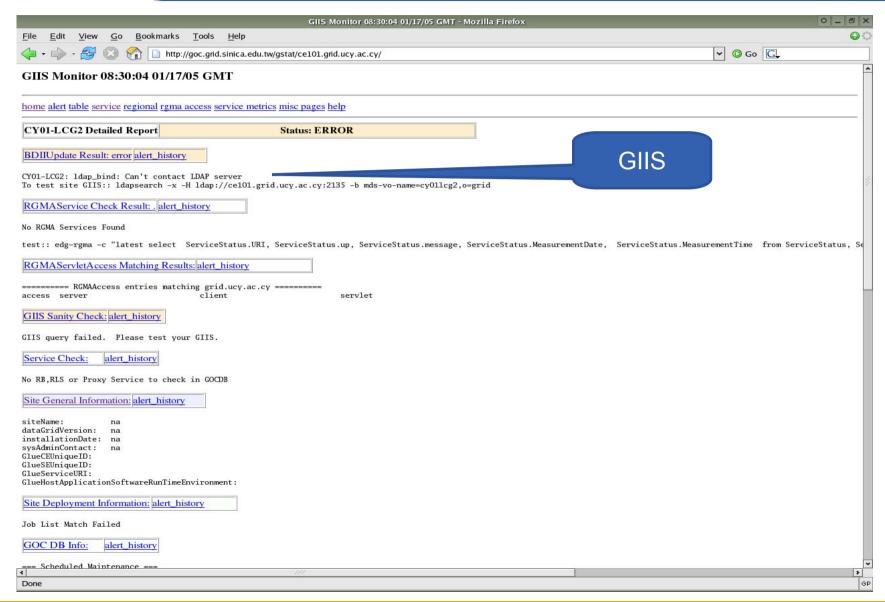
**Enabling Grids for E-sciencE** 

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Canada	CARLETONU-LCG2	lcg02.physics.carleton.ca	2005-01-17 06:05:40	FAILED	n/a	n/a	n/a	n/a	n/a	n/a
UKI	CAVENDISH-LCG2	serv03.hep.phy.cam.ac.uk	2005-01-17 06:05:40	FAILED	n/a	n/a	n/a	n/a	n/a	n/a
France	CCIN2P3-LCG2	cclcgceli01.in2p3.fr	2005-01-17 06:05:40	LCG-2_2_0	LCG-2_2_0	<u>0K</u>	<u>ok</u>	<u>0K</u>	<u>0K</u>	ldap://lxn1178.cern.ch:2170
CERN	CERN-LCG2	lxn1184.cern.ch	2005-01-17 06:05:40	LCG-2_3_0	LCG-2_2_0	<u>ok</u>	<u>OK</u>	<u>ok</u>	<u>ok</u>	ldap://lxn1178.cern.ch:2170
	CERN-LCG2	site-bdii.cern.ch	2005-01-17 06:05:40	FAILED	n/a	n/a	n/a	n/a	n/a	n/a
SouthWesternEurope	CESGA-EGEE	ce.egee.cesga.es	2005-01-17 06:05:40	LCG-2_2_0	LCG-2_2_0	<u>ok</u>	<u>ok</u>	<u>ok</u>	<u>0K</u>	ldap://lcgbdii02.ifae.es:2170
France	CGG-LCG2	ce l.egee.fr.egg.com	2005-01-17 06:05:40	LCG-2_2_0	n/a	n/a	n/a	n/a	n/a	n/a
SouthWesternEurope	CIEMAT-LCG2	lcg02.ciemat.es	2005-01-17 06:05:40	LCG-2_2_0	LCG-2_2_0	<u>OK</u>	<u>OK</u>	FAILED	<u>OK</u>	ldap://lxn1178.cern.ch:2170
	CNAF-LCG2	wn-04-07-02-a.cr.cnaf.infn.it	2005-01-17 06:05:40	FAILED	n/a	n/a	n/a	n/a	n/a	n/a
SouthWesternEurope	CNB-LCG2	mallarme.cnb.uam.es	2005-01-17 06:05:40	LCG-2	Site F				<u>OK</u>	ldap://lxn1189.cern.ch:2170
GermanySwitzerland	CSCS-LCG2	compute-0-10.cscs.ch	2005-01-17 06:05:40	LCG-2	Tests	Re	ports		<u>OK</u>	ldap://lxn1178.cern.ch:2170
SouthEasternEurope	CY01-LCG2	ce101.grid.ucy.ac.cy	2005-01-17 06:05:40	FAILED	n/a	n/a	n/a	n/a	n/a	n/a
CentralEurope	cyfronetlcg2	zeus02.cyf-kr.edu.pl	2005-01-17 06:05:40	LCG-2_3_0	LCG-2_3_0	<u>OK</u>	<u>OK</u>	FAILED	<u>OK</u>	ldap://lxn1178.cern.ch:2170
GermanySwitzerland	DESYPRO	grid-ce.desy.de	2005-01-17 06:05:40	LCG-2_3_0	LCG-2_2_0	<u>OK</u>	<u>OK</u>	n/a	<u>OK</u>	ldap://grid-bdii.desy.de:2170
UKI	Durbam	helmsley.dur.scotgrid.ac.uk	2005-01-17 06:05:40	LCG-2_2_0	n/a	n/a	n/a	n/a	n/a	n/a
CentralEurope	egee.man.poznan.pl	node2.egee.man.poznan.pl	2005-01-17 06:05:40	FAILED	n/a	n/a	n/a	n/a	n/a	n/a
GermanySwitzerland	ekplcg2	ekp-lcg-ce.physik.uni-karlsruhe.de	2005-01-17 06:05:40	LCG-2_2_0	LCG-2_2_0	<u>OK</u>	<u>OK</u>	FAILED	<u>ok</u>	ldap://lxn1178.cern.ch:2170
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## In- Depth Testing

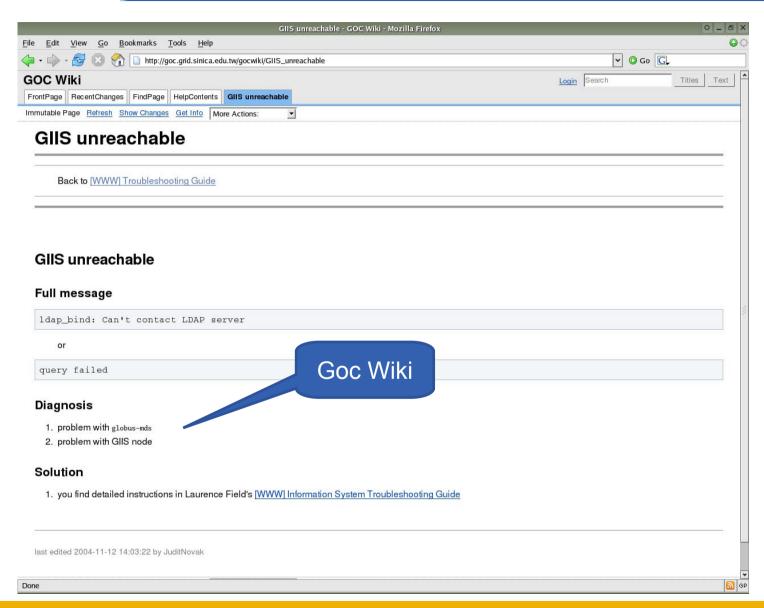
#### **Enabling Grids for E-sciencE**





## Diagnosis

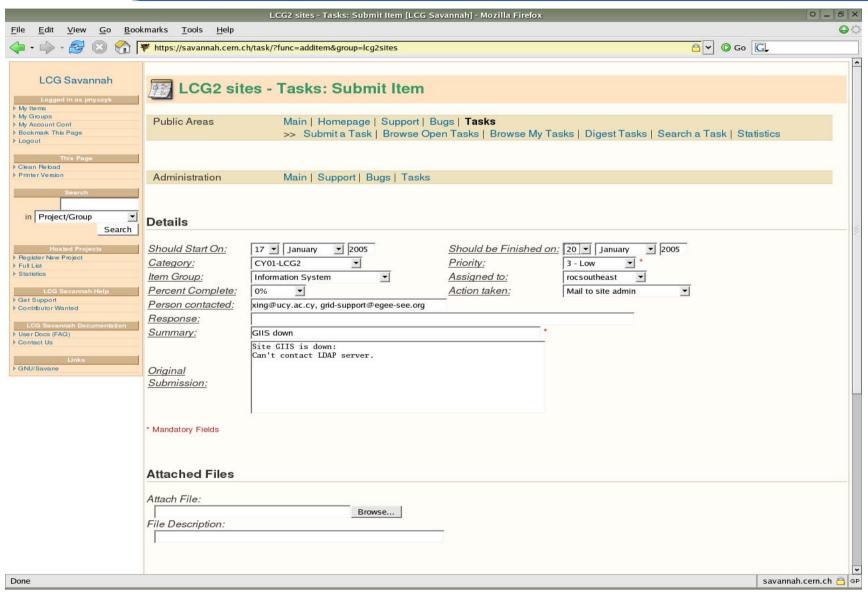
#### **Enabling Grids for E-sciencE**





# Report in bug tracking tool

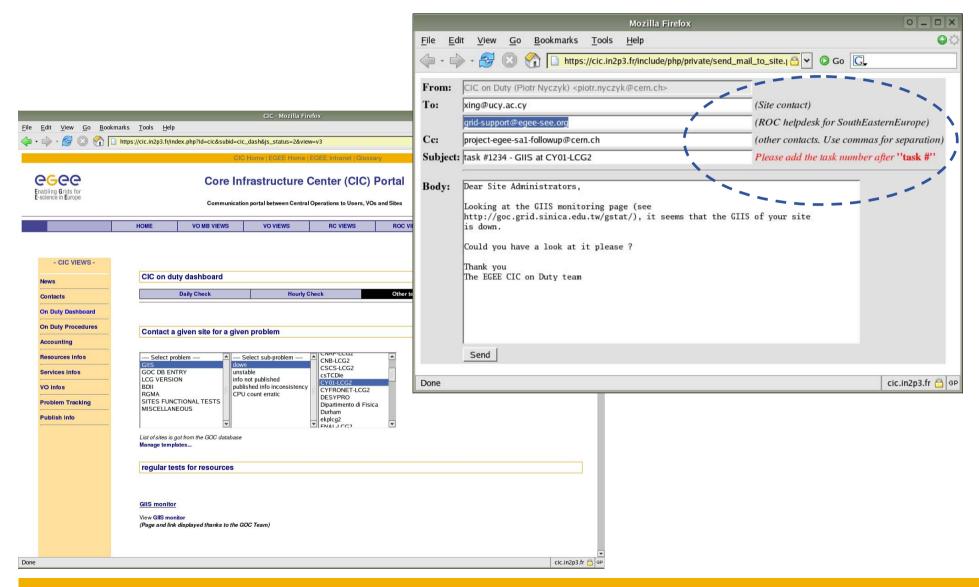
**Enabling Grids for E-sciencE** 





### **Problem Notification**

**Enabling Grids for E-sciencE** 





#### Incident closure

#### **Enabling Grids for E-sciencE**

