# **User/Operation Support** at **INFN-GRID**

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#### Outline

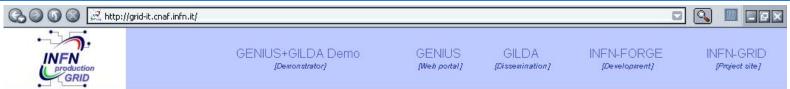


- ➤ Overview
- >Usage Report
- >Interfacing with GGUS
- > Conclusions



#### Overview (1/5)





#### Organisation

#### ▶ Documents

- ▶ People & tasks
- ▶ Deployment
- Meetings

#### Access to the grid

Pavia Legnaro

Ferrara

Napoli

Bologna

Genova

- Install your UI
- ▶ Get your certificate
- ▶ Register to a VO
- ▶ Use the grid [upd] ▶ Applications
- Manage your site
- ▶ Installation
- ▶ Upgrade
- ▶ Test & certification
- ▶ Releases
- ▶ CVS Repository

#### Grid status

- ▶ Site view
- ▶ Job monitor ▶ Grid services [upd]
- ▶ Calendar
- Downtime Advices

#### Support

- ▶ Ticketing System
- ▶ Knowledge base EGEE SA1

- Italian CIC services [upd]
- ▶ Timesheets

Search Links

#### Welcome to the INFN Production Grid for Scientific Applications! grid-it.cnaf.infn.it



Welcome to web site of the INFN Production Grid.

INFN-GRID is a research project which features solutions and innovations in methodologies and technologies for the implementation and widespread use of large-scale platforms and grids. We partecipate to several national and international research projects on Grid

We're coordinating our objectives with the strategies of the European Community to build the

Our efforts are evaluated in terms of our grid capability to solve very critical, real problems in the medium-long term. The best standards in ICT are assumed as the technological starting point (e.g. OOP, Web services, Globus), over which new technologies are studied and built.

Read how users are running their applications on the Grid (Applications area)

#### Latest news

07-10-04 12:00

EGEE Second Conference

22-26 November 2004, The Hague, the Netherlands

[more...]

04-10-04 14:00

EGEE, INFN-GRID, Grid.it on Week.it

European and Italian grid research projects on last

Week.it issue... [more...]

02-10-04 12:00

IV INFN Grid Workshop

Bari, October 25th - 27th 2004 [more...]

•26 RCs

•664 CPUs 30 TB +Tier-1 (890 CPUs **60 TB)** 

•14 VOs

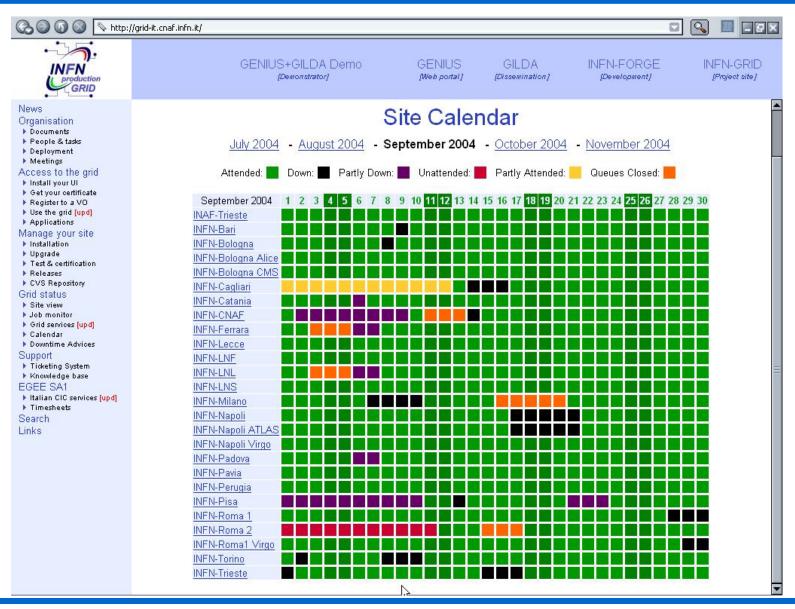
•+VOMS,DAG, **MPI,DGAS** 

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#### Overview (2/5)







#### Overview (3/5)

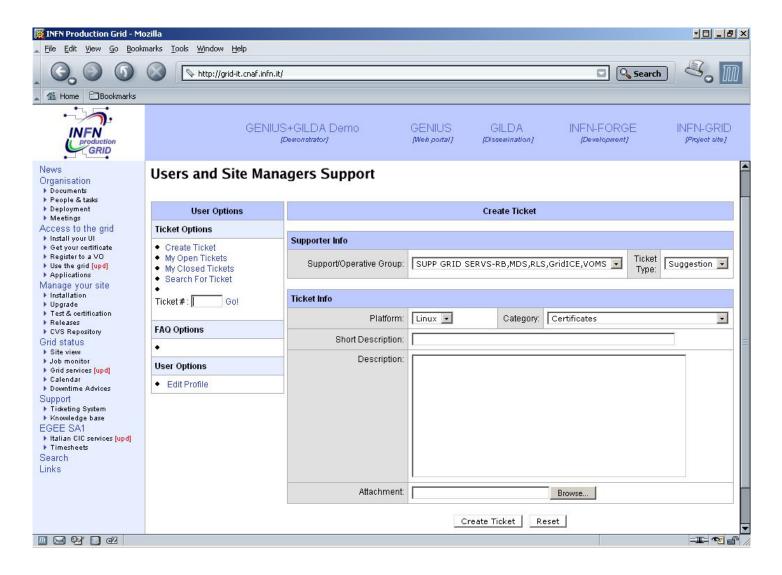


- The trouble ticketing system is based on OneOrZero Helpdesk tool (<a href="https://www.oneorzero.com">www.oneorzero.com</a>), coded in PHP, using MySQL, customizable, free
- >Access allowed to registered members approved by administrators:
  - · End-users: they create the tickets describing problems or suggestions
  - · Supporters: fix the problems, or redirect somewhere else
  - · Site Managers: act as supporters for a given RC, and exchange tickets with Operatives for operational issues
  - Operatives: people of ROC/CIC Central Management Team and Release & Deployment Team, exchange tickets with Site Managers and Supporters



#### Overview (4/5)

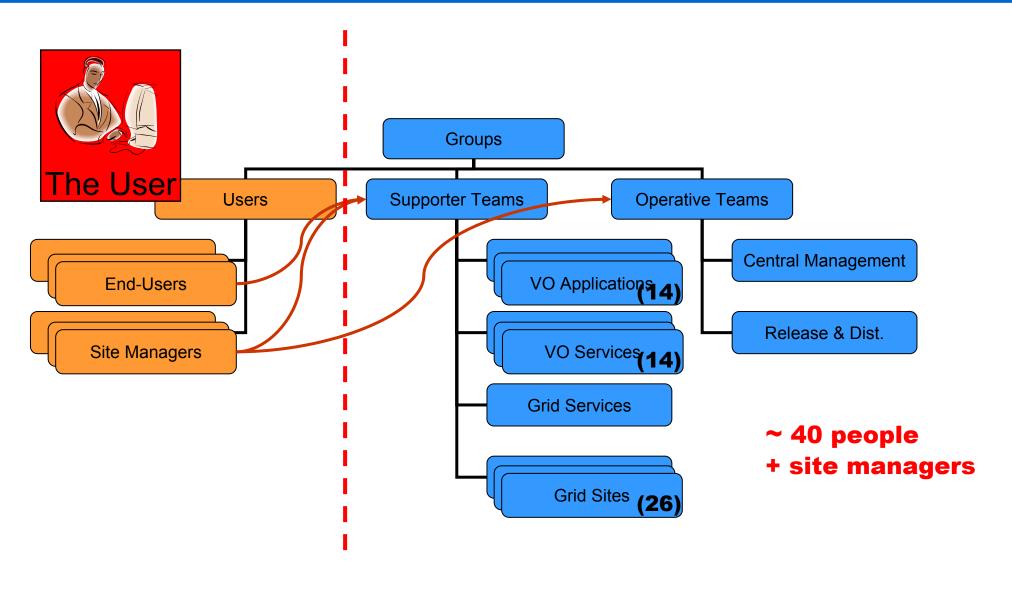






#### Overview (5/5)





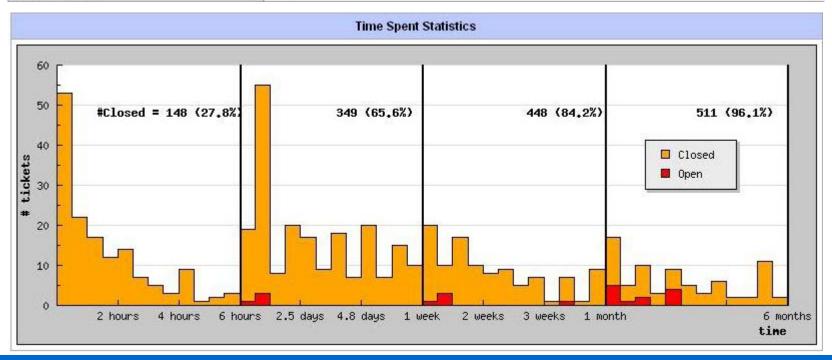


## Usage Report (1/5)



#### Statistics after 1 year of operations

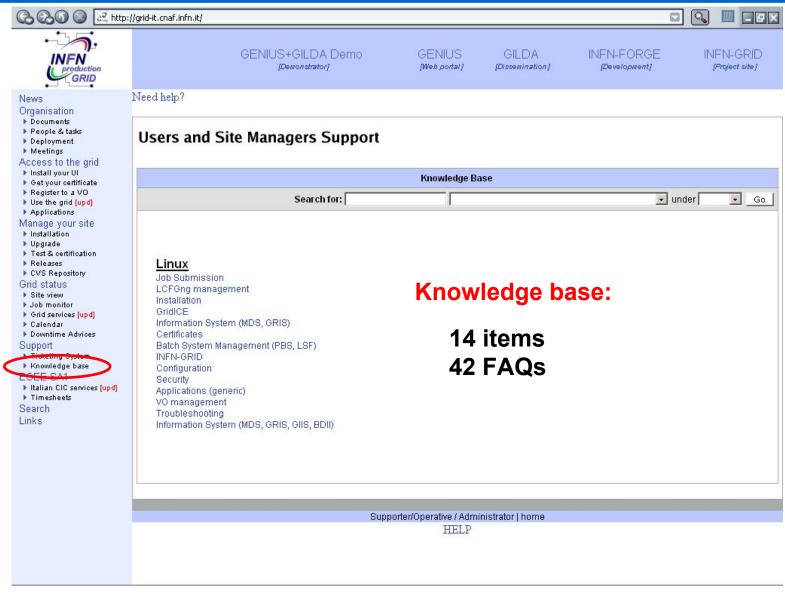
Ticket Statistics					
Open Tickets:	21				
Closed Tickets:	511	~10 tickets a week on average			
Total Tickets:	532				





#### Usage Report (2/5)

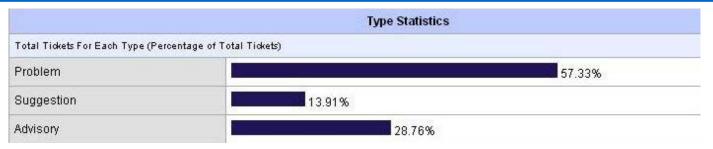


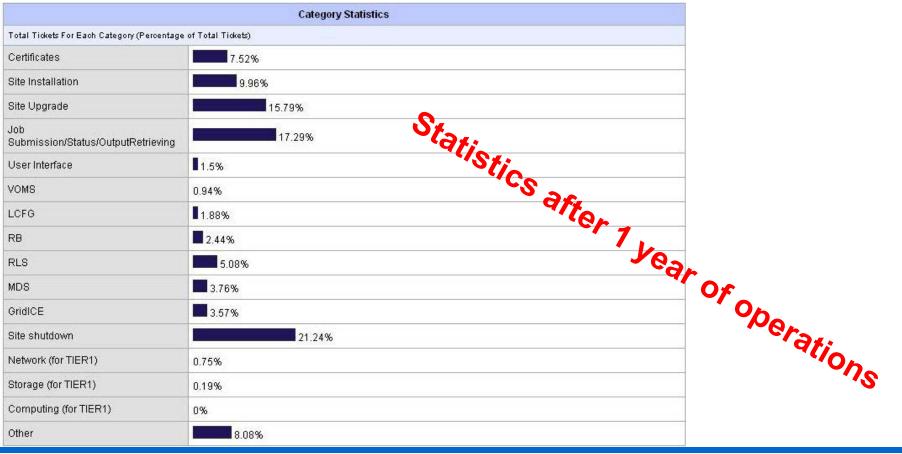




### Usage Report (3/5)



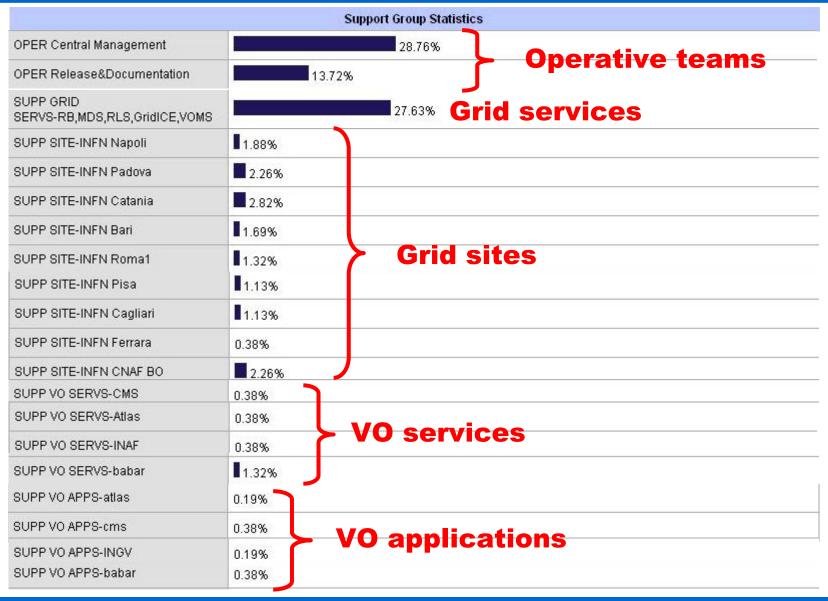






### Usage Report (4/5)







### Usage Report (5/5)



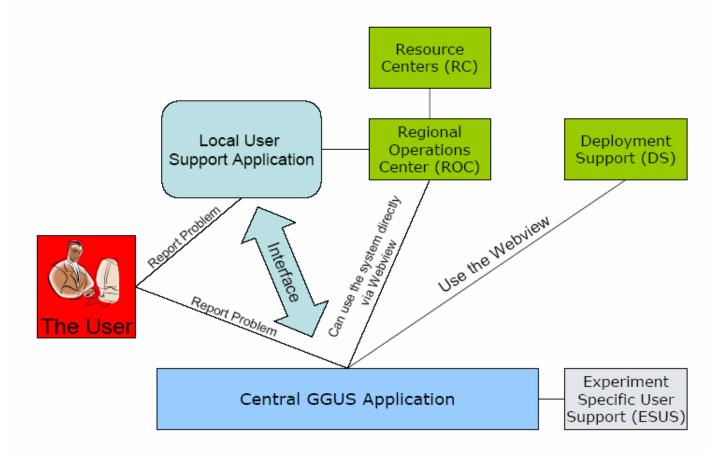
- Support up to now on best effort basis, supporters answer in their working hours (8x5), if not busy with meetings, conferences, etc...
- At a rate of ~10 tickets a week it is enough, better human resources management required in future with the grow of the grid
- We are happy with our system, and would like to receive a ticket even for support requests from GGUS or other ROCs/CICs
- We also would like to forward tickets to GGUS, CDS, other ROCs/CICs support systems when needed, i.e.:
  - middleware issues
  - grid services managed by other ROCs/CICs
  - problems in RCs of other ROCs
- We do not want to have an account on every other system or look at overloaded mailing lists



### Interfacing with GGUS (1/3)



- ROC Managers approved the User Support Task Force outcome:
  - to use the local Helpdesk Systems in conjunction with a central integration platform at GGUS





### Interfacing with GGUS (2/3)



- First Pilot Interface between INFN Helpdesk System and GGUS ready by the end of this week
- > Based on Web Services at GGUS side, several advantages:
  - sample code available for PHP / Perl and other computing languages
  - very fast: 600-1000 service requests/sec on the GGUS Servers
  - easy to adapt
- ▶ Based on e-mail at INFN side (importing tool)
- >XML or Text exchange format
- The main issue is the Ticket Fields Mapping between the two systems



## Interfacing with GGUS (3/3)



GGUS Field	Type	INFN Field	Type	Notes
ext_idam	int(?)	ext_id	int(?)	WARNING! This field is miss- ing at GGUS and INFN.
local_id	int(?)	local_id	int(?)	WARNING! This field is miss- ing at GGUS and INFN.
Name	Char(80)	user	varchar(255)	OK; check size
Login	Char(128)	?	?	WARNING! This field should not be compulsory. An external user does not necessarily have an account at GGUS
Email	Char(80)	email	varchar(255)	OK; check size
Phone	Char(50)	phone	varchar(48)	OK
Experiment	Char(15)	MISSING	7,6	WARNING! Needs to be cre- ated
Short Desc.	Char(128)	short	varchar(255)	OK; check size
Description	Diary	description	text	OK; check type
Problem Type	Char(50)	category	varchar(48)	WARNING! Values need to be agreed upon
Date And Time	Date_Time	create_date	int(60)	WARNING! Different type. Conversion needed
Exp. Specific	Char(1)	MISSING	¥	WARNING! Needs to be cre- ated
Attachment	Blob()	attachment	longblob	WARNING! This field is in ta- ble attachments
Short Sol.	Char(254)	MISSING	29	WARNING! Duplicate Solution field here
Solution	Char(4000)	update_log	text	WARNING! Verify if INFN is the right one
Diary Of Steps	Diary	MISSING	5	NOT USED
Internal Diary	Diary	MISSING	#0	NOT USED

#### Ticket fields map

- Missing fields identified and added to INFN system
- Same activity going on for other ROCs to speed up interfacing process
- •GGUS doesn't need to know about local ROC support internal structure



#### **Conclusions**



- ➤INFN-GRID Support System Infrastructure in place since 1 year, more than 500 support requests handled
- > Front End for both Users and ROC/CIC Operation managers
- >Pilot Interface to Central GGUS System almost completed
- ➤Interfaces between GGUS and other ROC Systems will follow soon (straightforward for SWE System based on OneOrZero too)
- ➤ GGUS interface with ROCs is not enough, we need also an interface with CDS, GOC, Experiments (mostly using Savannah tool)
- The final goal is having all above various support components within EGEE interfaced with each other