

# **Adding Sites & VOs**

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	Site Reports	GIIS Name	Site Reports	GIIS Name
	<u>CAVN</u>	farm012.hep.phy.cam.ac.uk	GLASGOW	ce1-gla.scotgrid.ac.uk
4	CERN-LCG2	lxn1181.cern.ch	<u>GSI</u>	lcg03.gsi.de
S	CIEMAT	lcg02.ciemat.es	<u>HEPHYUIBK</u>	grid.uibk.ac.at
iro	CNAF-LCG2	wn-04-07-02-a.cr.cnaf.infn.it	HP-PUERTO-RICO	ce.prd.hp.com
Ī	FNAL-LCG2	hotdog46.fnal.gov	INFN-NAPOLI	atlasce01.na.infn.it
Ī	FZK-LCG2	gridkap01.fzk.de	INFN-ROMA1	t2-ce-01.roma1.infn.it
Ī	<u>IFCA</u>	gtbcg12.ifca.unican.es	<u>IPAS</u>	testbed001.phys.sinica.edu.tw
	<u>IFIC</u>	lcg2ce.ific.uv.es	<u>JINR</u>	lxt03.jinr.ru
	<u>IMPERIAL</u>	gw39.hep.ph.ic.ac.uk	<u>Karlruhe</u>	karlsruhe.de
Ī	INFN-LEGNARO	t2-ce-01.lnl.infn.it	<u>LANC</u>	lunegw.lancs.ac.uk
Ī	<u>INFN-MILANO</u>	t2-ce-01.mi.infn.it	<u>LIP</u>	ce01.lip.pt
	<u>INFN-TORINO</u>	grid008.to.infn.it	MANCHESTER	bohr0001.tier2.hep.man.ac.uk
	<u>KRAKOW</u>	zeus02.cyf-kr.edu.pl	MONTREAL	lcg-ce.lps.umontreal.ca
	NCU-TAIWAN	grid01.phy.ncu.edu.tw	<u>NCP</u>	penep04.nep.edu.pk
	nikhef.nl	tbn18.nikhef.nl	<u>PRAGUE</u>	golias25.farm.particle.cz
	PIC-LCG2	lcgce02.ifae.es	PRAGUE-CESNET	skurut17.cesnet.cz
	RAL-LCG2	lcgce02.gridpp.rl.ac.uk	<u>QMUL</u>	ce01.ph.qmul.ac.uk
	<u>Taiwan-LCG2</u>	lcg00125.grid.sinica.edu.tw	<u>RALPP</u>	heplnx131.pp.rl.ac.uk
	<u>TRIUMF</u>	lcgce01.triumf.ca	<u>SARA</u>	mu6.matrix.sara.nl
	USC-LCG2	lcg-ce.usc.cesga.es	<u>SHEF</u>	ce.gridpp.shef.ac.uk
	<u>WUPPERTAL</u>	grid-ce.physik.uni-wuppertal.de	<u>SINP</u>	lcg06.sinp.msu.ru
	#HG-01-GRNET	ce01.isabella.grnet.gr	<u>TAU</u>	lcfgng.cs.tau.ac.il
	<u>AACHEN</u>	lcg2-CE.physik.rwth-aachen.de	<u>TOKYO</u>	dgce0.icepp.jp
	<u>ALBERTA</u>	lcgce01.nic.ualberta.ca	<u>TORONTO</u>	bigmac-lcg-ce.physics.utoronto.ca
	BHAM-HEP	epcf36.ph.bham.ac.uk	TRIUMF-GC	lcgce02.triumf.ca
	<u>BNL</u>	atlasgrid04.usatlas.bnl.gov	<u>UAM</u>	grid003.ft.uam.es
	<u>BUDAPEST</u>	grid109.kfki.hu	<u>UB-BARCELONA</u>	lcg-ce.ecm.ub.es
	<u>CARLETON</u>	lcg02.physics.carleton.ca	<u>UCL</u>	pc31.hep.ucl.ac.uk
	CCIN2P3-LCG2	cclcgceli01.in2p3.fr	<u>UCL-CCC</u>	ce-a.ccc.ucl.ac.uk
I-	<u>CLERMONT</u>	clrglop195.in2p3.fr	<u>WEIZMANN</u>	wipp-ce.weizmann.ac.il
l 14	<u>CSCS</u>	compute-0-10.cscs.ch	<u>ITEP</u>	ceitep.itep.ru
	<u>DESY</u>	grid-ce1.desy.de	<u>FRASCATI</u>	atlasce.lnf.infn.it
J.	BEIJING_	lcg002.ihep.ac.cn	RU-IHEP_	ce001.m45.ihep.su
	RHUL-LCG2	ce1.pp.rhul.ac.uk		







# Sites in LCG2 July 14 2004



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### contacts deployment team or primary site

sends pointer to release page

finds release page and sends contact form

forwards contact form to security group and GOC

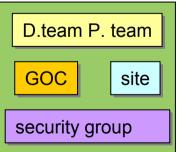
sends pointer to security policy documents for sites

based on documentation and advice decides on install method and scope

installs, configures

supports

runs tests from guide



sends site GIIS DN and host name

adds to testZone BDII configuration file



add site layout to goc DB

runs regular job tests





runs recertification

corrects problems

keeps track of sites certification status

monitors and archives sites information system status

corrects problems

adds site on experiments demand to production zone

Experiments add/remove site to their BDII using "Oliver"-Tool

D.team P. team

GOC site

experiments





### Some details

## Status monitoring:

- GIIS monitor: <a href="http://goc.grid.sinica.edu.tw/gstat/">http://goc.grid.sinica.edu.tw/gstat/</a>
  - sanity check on information
  - history on resources published etc.
  - link to the certification status page (ro) <a href="https://lcg-sites-status.cern.ch:8383/lcg-sites.html">https://lcg-sites-status.cern.ch:8383/lcg-sites.html</a>
- Certification Status:
  - History function (only available from inside CERN)
  - In addition to testers comments automatic created page
- Oliver-Tool
  - http://grid-deployment.web.cern.ch/grid-deployment/gis/lcg2bdii/README
- 2 FAQ pages (one at the GOC in UK one at Taipei)
  - http://goc.grid.sinica.edu.tw/gocwiki/AdministrationFaq
  - http://www.gridpp.ac.uk/tb-support/faq





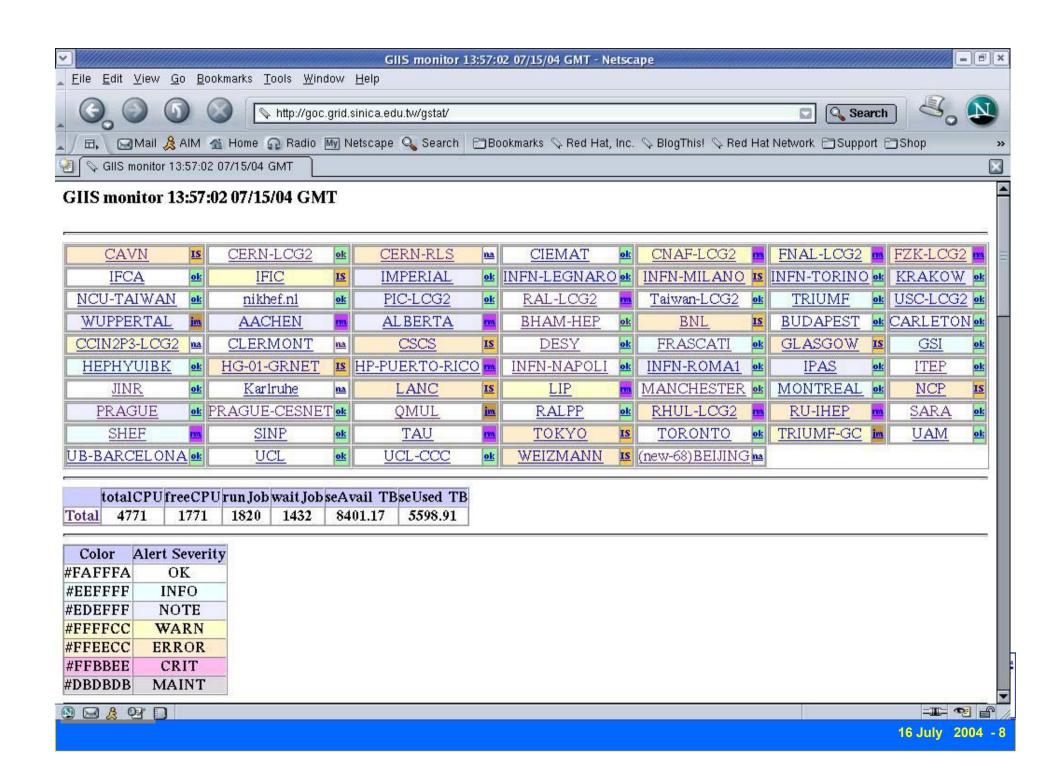


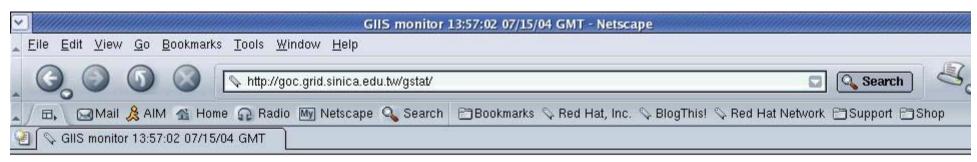
# **Oliver Tool**

### Oliver Tool

- Include lists
- exclude sites
- add single sites
- creates from this config file for BDII by running tool
- allows to base individual site lists based on dteams last tests

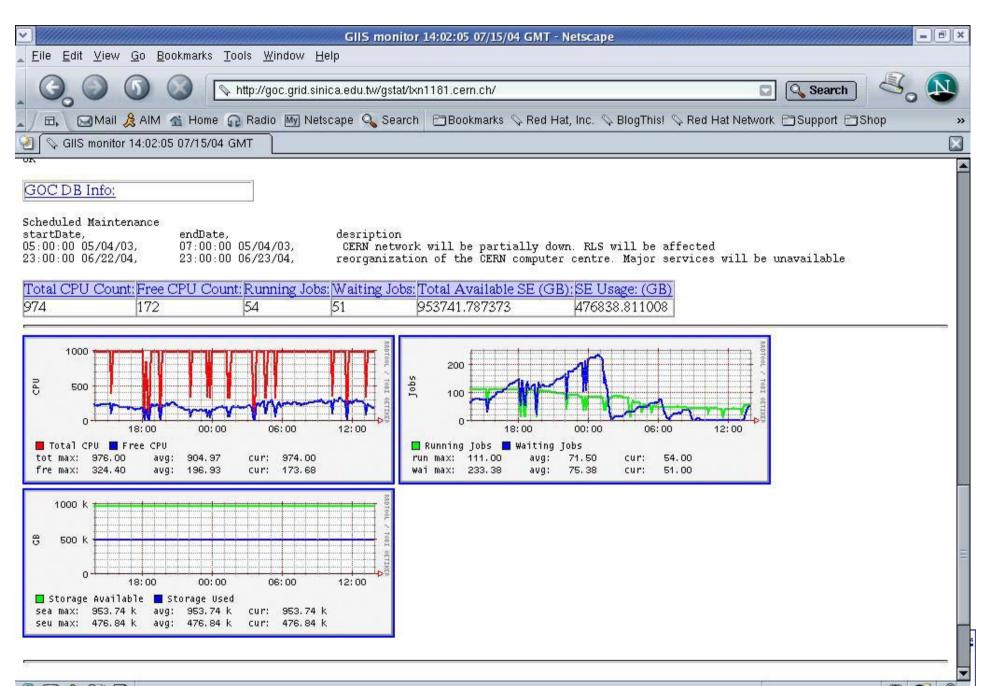


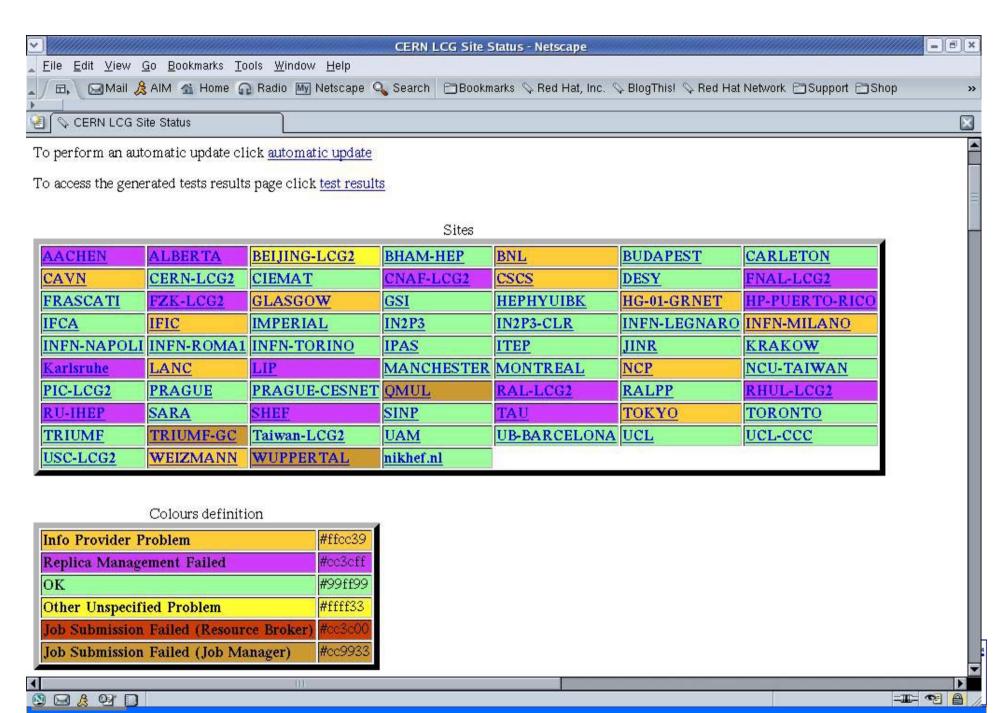


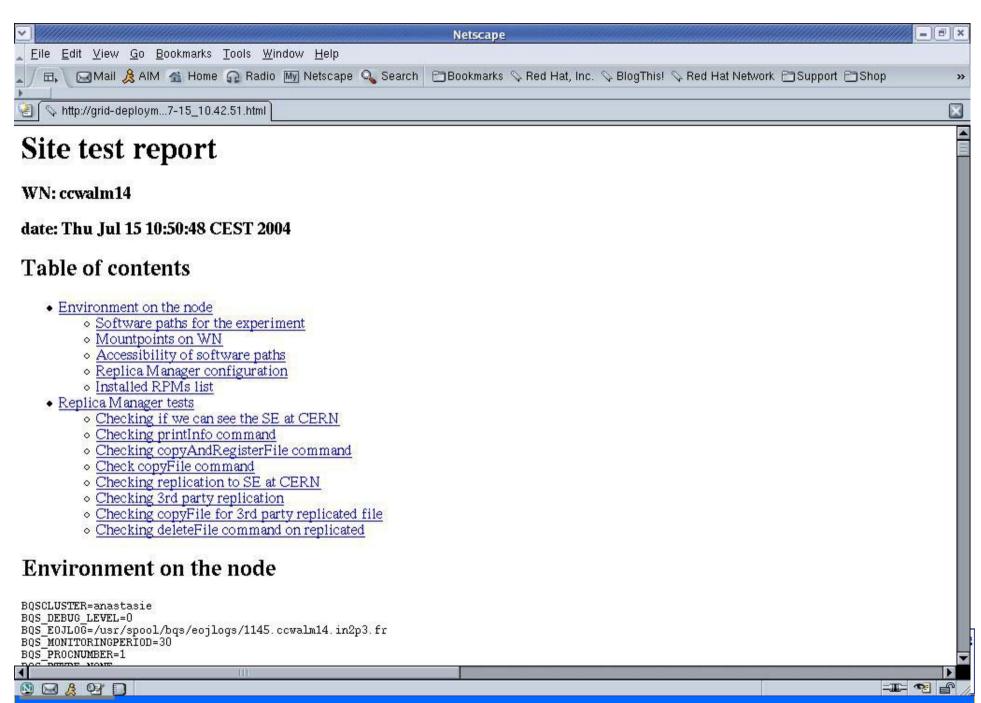


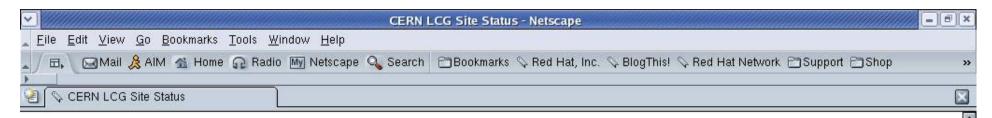
#### Site List

No	Site Reports	zone	GIIS Name	bbdii	sanity	version	totalCPU	freeCPU	run Job	wait Job	seAvail TB	seUs Tl
1	CAVN	ext,pro	farm012.hep.phy.cam.ac.uk	Fail	warn	na				10		1 -
2	CERN-LCG2		lxn1181.cern.ch	Pass	ok	LCG-2_1_0	974	174	54	51	931.38	465.6
3	CERN-RLS	ext,pro	lxn1194.cern.ch	Pass	warn	na					931.32	465.6
4	CIEMAT	ext,pro	lcg02.ciemat.es	Pass	ok	LCG-2_0_0	2	2	0	0	0.06	0.00
5	CNAF-LCG2	ext,pro	wn-04-07-02-a.cr.cnaf.infn.it	Pass	warn	LCG-2_0_0	798	236	510	671	1862.71	1863
5	FNAL-LCG2	ext,pro	hotdog46.fnal.gov	Pass	warn	LCG-2_0_0	18	18	0	0	•	
7	FZK-LCG2	ext,pro	gridkap01.fzk.de	Pass	warn	na			V.			
3	IFCA .	ext,pro	gtbcg12.ifca.unican.es	Pass	ok	LCG-2_0_0	32	31	1	0	0.04	0.00
9	IFIC	ext,pro	lcg2ce.ific.uv.es	Pass	warn	LCG-2_1_0	108	106	1	0		
10	IMPERIAL	ext,pro	gw39.hep.ph.ic.ac.uk	Pass	ok	LCG-2_0_0	66	56	10	0	0.09	0.31
11	INFN-LEGNARO	ext,pro	t2-ce-01.1n1.infn.it	Pass	ok	LCG-2_0_0beta	142	64	49	0	0.12	1.22
12	INFN-MILANO	ext,pro	t2-ce-01.mi.infn.it	Fail	warn	na				IA.	W. SAFEY ST	
13	INFN-TORINO	ext,pro	grid008.to.infn.it	Pass	ok	LCG-2_0_0beta	24		22	0	0.41	1.53
14	KRAKOW	ext,pro	zeus02.cyf-kr.edu.pl	Pass	ok	LCG-2_0_0	14	10	4	4	0.03	0.06
15	NCU-TAIWAN	ext,pro	grid01.phy.ncu.edu.tw	Pass	ok	LCG-2_0_0	8	8	0	0	0.44	0.08
16	nikhef.nl	ext,pro	tbn18.nikhef.nl	Pass	ok	LCG-2_0_0	236	68	170	317	1.20	0.49
17	PIC-LCG2	ext,pro	lcgce02.ifae.es	Pass	ok	LCG-2_0_0	210	42	113	0	2794.06	2794
18	RAL-LCG2	ext,pro	lcgce02.gridpp.rl.ac.uk	Pass	ok	LCG-2_1_0	144	122	18	0	931.33	0.99
19	Taiwan-LCG2	ext,pro	lcg00125.grid.sinica.edu.tw	Pass	ok	LCG-2_0_0	268	3	265	43	933.07	0.07
20	TRIUMF	ext,pro	lcgce01.triumf.ca	Pass	ok	LCG-2_0_0	10	0	10	13	0.63	0.07
21	USC-LCG2	ext,pro	lcg-ce.usc.cesga.es	Pass	ok	LCG-2_0_0	1	1	0	0	0.23	0.68
22	WUPPERTAL		grid-ce.physik.uni-wuppertal.de	Pass	ok	LCG-2_0_0	2	2	0	0	0.45	0.91
23	<u>AACHEN</u>	ext	lcg2-CE.physik.rwth-aachen.de	Pass	ok	t20040225_1700	2	2	0	0	0.0	0.0
24	ALBERTA	ext	lcgce01.nic.ualberta.ca	Pass	ok	LCG-2_0_0	2	100	0	0	0.0	0.0
25	BHAM-HEP	ext	epcf36.ph.bham.ac.uk	Pass	ok	LCG-2_0_0	22	22	0	0	0.02	0.01
26	BNL	ext	atlasgrid04.usatlas.bnl.gov	Fail	warn	na			D (2)	No.	() ()	000
9	B A Pr D				-							-II





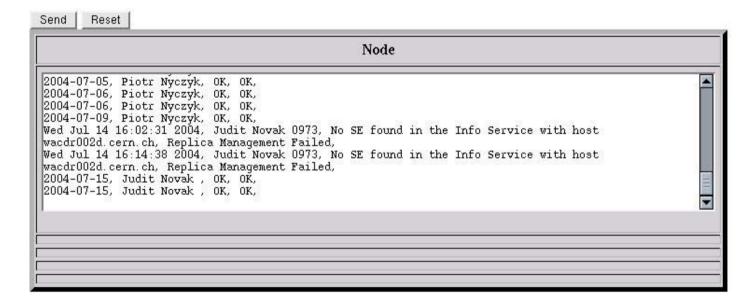




Site	Zone	CE name	Last tester	Date			
CAVN	Prod	farm012.hep.phy.cam.ac.uk	Judit Novak	2004-07-15	CE not in BDII		
CERN-LCG2	Prod	lxn1181.cern.ch,lxn1184.cern.ch	Judit Novak	2004-07-15	ок		
CIEMAT	Prod	lcg02.ciemat.es	Judit Novak	2004-07-15	ок		
CNAF-LCG2	Prod	wn-04-07-02-a.cr.cnaf.infn.it	Judit Novak	2004-07-15	org.edg.data.reptor.info.InfoServiceExc		
FNAL-LCG2	Prod	hotdog46.fnal.gov	Judit Novak	2004-07-15	No SE found in the Info Service with ho		
FZK-LCG2	Prod	gridkap01.fzk.de	Judit Novak	2004-07-15	GlobusURLCopy: the server sent an err /grid/fzk.de/mounts/nfs/data/lcg1/SE00 c3fefd6260c3: Permission denied.		
<u>IFCA</u>	Prod	gtbcg12.ifca.unican.es	Judit Novak	2004-07-15	ок		
<u>IFIC</u>	Prod	log2ce.ific.uv.es	Judit Novak	2004-07-15	CE not in BDII		
<u>IMPERIAL</u>	Prod	gw39.hep.ph.ic.ac.uk	Judit Novak	2004-07-15	ок		
INFN-LEGNARO	Prod	t2-ce-01.lnl.infn.it	Judit Novak	2004-07-15	ок		



### Site History







## **Experience**

### TestZone/ProdZone

- Not really meaningful anymore
  - site state is dynamic
  - experiments need different subsets to work with a site
    - replica manager yes/no
    - software installation
    - bulk transfer from WN to external SE
  - experiments classify sites by managing their own BDIIs
    - adding sites that we don't knew about
    - removing sites for their own reasons
    - based on predefined sets managed by the deployment team

### Other problems

- re-certification jobs can be on some sites in the queue for a day
  - new standard set of queues in preparation
- can take a long time until all features of a site are working
- sites still miss the entry point into the project that describes the process







## **Next Steps**

- Add the results of the certification run to the IS
  - GlueHostApplicationSoftwareRunTimeEnvironment
  - VO-dteam-repmanager-OK
  - VO-dteam-localSE-OK
  - VO-dteam....
- Experiments can steer their jobs via jdl statements
- Maintain lists of sites to be used with Oliver-Tool
  - all-OK
  - new-sites
  - ....
- Track site certification process in savannah
  - LCG2 sites is there



certification team will start using this soon





## Adding a VO to a site

- Adding services (VO, registration, RLS)
  - See Maria's presentation
- On the sites (not a complete list )
  - many nodes and local services involved (WNs, CE, SEs, RB, MyProxy)
  - user pool accounts
  - · create entries in gridmap-dir
  - configure script to create gridmapfile
  - create directory structure for user software installation
  - create environment for managing the user software installation
  - create directory structure on the SEs
  - create VO dependent configuration files
  - add the VO to the information provider
  - accounting?????
- The process is error prone and has too many steps
  - number of pool accounts is inflated
  - sites have to decide again and again on supporting a new VO





# Adding a VO to a site

- Light weight VOs have been promised by EGEE
  - when??? and how???
- Maybe Super-VOs are a temporary solution
  - group several projects from the same area
  - run individual VOs for accounting (or using sub groups in the VO system)
  - locally the number of VOs will be limited
  - sites decide to support Super-VOs (not that frequent)
  - sites that want to give priority to a Sub VO can still do this
  - Problems:
    - · no individual accounting for storage possible
    - interference in storage and user software installation possible
    - interference in the catalogues are not different from individual VOs
      - no authorization used in the current system
- Open for better solutions

