



EGEE Greek 3rd parties kick-off, May 27-28th, 2004

Enabling Grids for
E-science in Europe

SA1 Technical Discussion

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Objectives of this session

- Elaborate on technical topics addressed under SA1
- Reach common understanding
- Answer questions

Outline

- M/W certification and release preparation
- M/W deployment
- User and operational support
- Other services

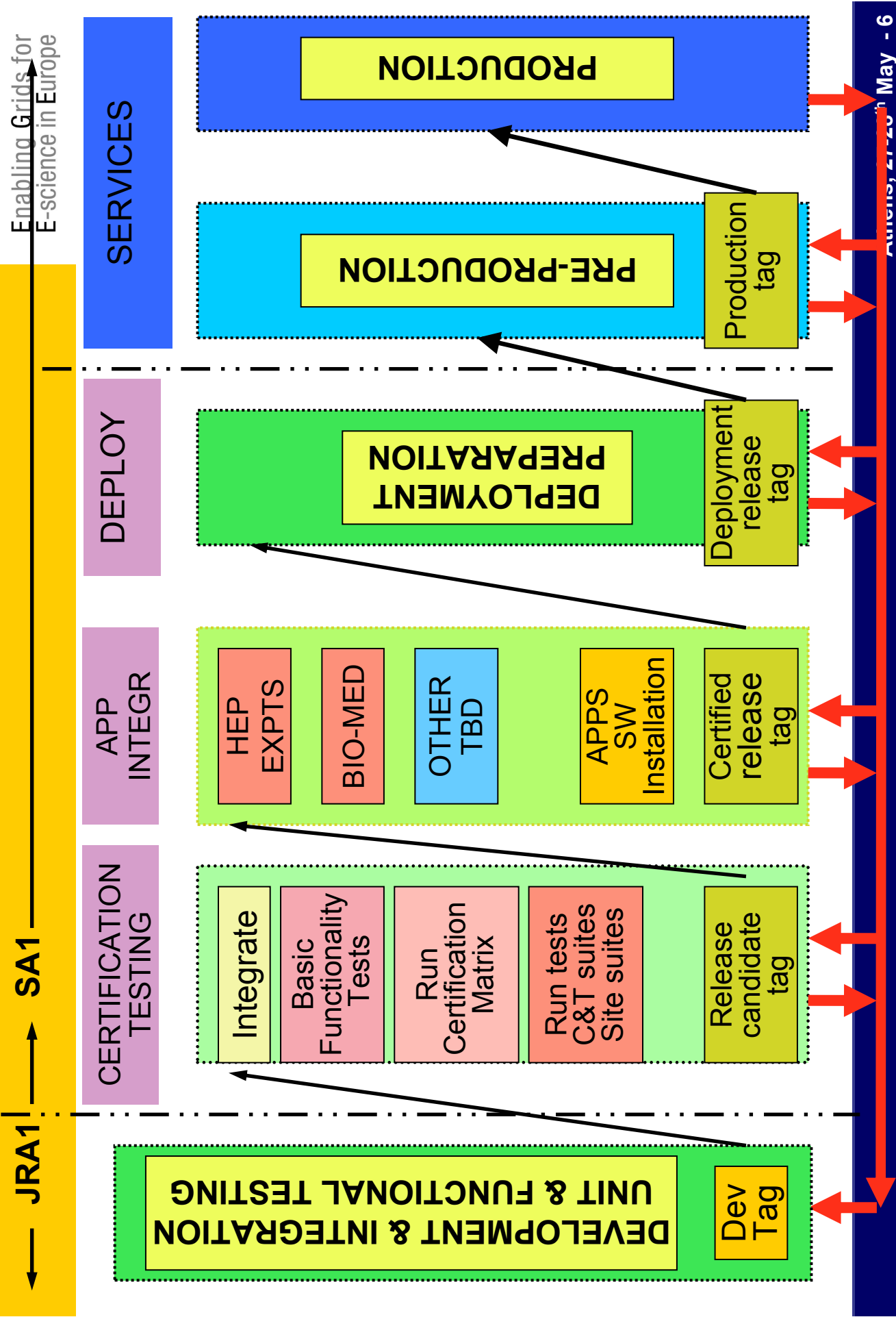
Certification and release preparation

- JRA1 delivers m/w
- ROC performs acceptance testing (certification)
 - Certification testbed needed
- Participate in development of testing suites
- Porting to other platforms if necessary (unlikely)
- Customization of m/w to the local configuration
- Establishing installation guidelines and procedures
 - Installation testbed needed

Deployment and upgrades

- New release (or upgrade) deployed on production RCs
- Site certification
- SLA establishment with RC
- Deployment of core GRID services

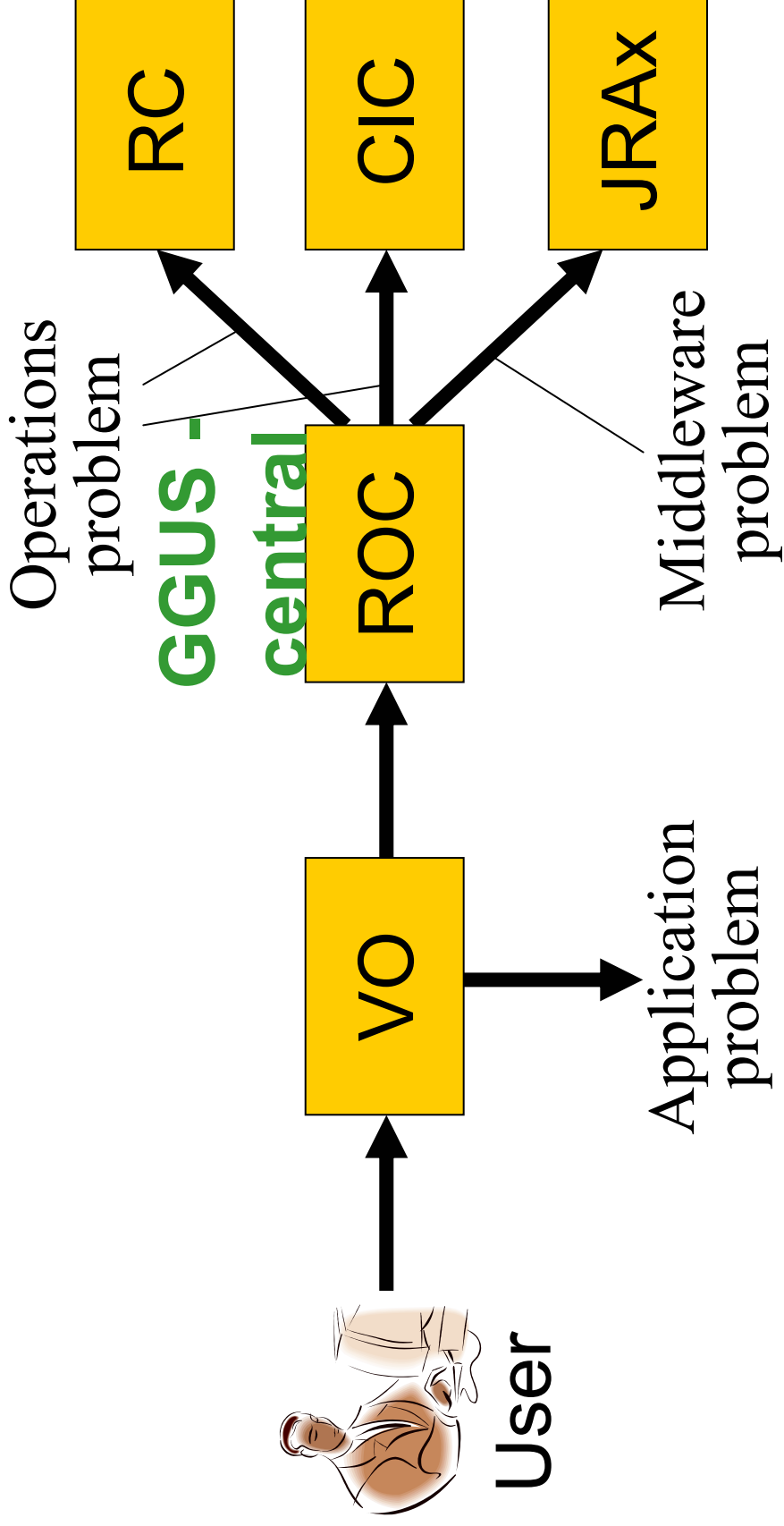
Release cycle



Operations and support

- Operational and user support
- Problem diagnosis
- Problem referral to CICs/JRA1
- Problem solutions
- Automated procedures for daily checks + failure notification
- Problem tracking system for support
- Participate in developing and running coherent Trouble Ticket (TT) and database infrastructure
- Coordinate a potential Knowledge Base
- Monitoring service (utilisation, SLAs, accounting etc): local and centralised (incl. database)

Current user support workflow: current FZK model



Monitoring: EGEE stage 1

- RAL runs monitoring
- All ROCs added to database through their ROC i.e ROC takes responsibility for adding and checking information / data consistency in the database
- Each ROC will monitor its sites and regional services through the GOC monitoring at RAL
- Timescale ~ 3-6 Months

Monitoring: EGEE stage 2

- Distribution of GOC s/w to allow ROCs to run their own monitoring i.e they run the monitoring tools themselves!
- Centralised Database based at RAL but ROCs configure their monitoring from the centralised database
- Further monitoring development required before completion of this stage (in the UK)
- Timescale ~ 6 – 12 Months

Monitoring: EGEE stage 3

- Distribute database amongst the ROCs
 - A large distributed database instead of a single database
- Monitor core services too
- Timescale ~12 Months and beyond

Example: RAL site contacts

- List of people to notify when there are problems
- Currently part of GOC; should be part of Support and linked to portal

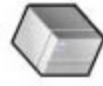


Contacts:

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[\[Click to add a new contact\]](#)

Example: RAL site node info



Nodes:

Type	Hostname	IP Address	Group
LCFG	lcfg	130.246.183.111	LCG-1 Edit Delete
MDS	lcgcs01	130.246.183.187	LCG-1 Edit Delete
RB	lcgrb01	130.246.183.184	LCG-1 Edit Delete
CE	lcgce01	130.246.183.182	LCG-1 Edit Delete
SE	lcgse01	130.246.183.181	LCG-1 Edit Delete
UI	lcgui01	130.246.183.183	LCG-1 Edit Delete
BDII	lcgbdii	130.246.183.185	LCG-1 Edit Delete
PROX	lcgrbp01	130.246.183.186	LCG-1 Edit Delete
RB	lcgrb02	130.246.183.189	LCG-2 Edit Delete
CE	lcgce02	130.246.183.188	LCG-2 Edit Delete
BDII	lcgbdii02	130.246.183.191	LCG-2 Edit Delete
UI	lcgui02	130.246.183.194	LCG-2 Edit Delete
UI	gppui04	130.246.183.172	EDG Edit Delete
CE	gppce05	130.246.187.142	EDG Edit Delete
RB	gppse05	130.246.187.140	EDG Edit Delete
RLS	gpprls05	130.246.187.153	EDG Edit Delete
MON	gpprg05	130.246.187.151	EDG Edit Delete
NM	gppnm06	130.246.187.145	EDG Edit Delete

[\[Click to add a new node\]](#)

http://grid-ice.esc.rl.ac.uk/gridice



GridICE is monitoring



the eyes of the Grid



GridICE is a product of

Site view VO view Geo view Grid view Help about

Select Site and/or Role Show

Site	Slot#	SlotFree	Computing Resources			Storage Resources					
			SlotLoad	RunJob	WaitJob	Power	CPU#	CPULoad	Available	Total	%
cern.ch	408	180	55%	0	0	-	-	-	67.5 Gb	69.1 Gb	2%
cnaf.infn.it	-	-	-	-	-	-	-	-	-	-	-
cr.cnaf.infn.it	2154	1086	4%	253	0	762647	387	51%	868.0 Gb	999.7 Gb	13%
fnal.gov	12	12	0%	0	0	-	-	-	-	-	-
fzk.de	-	-	-	-	-	-	-	-	-	-	-
gridka.de	-	-	-	-	-	-	-	-	-	-	-
gridpp.rl.ac.uk	438	273	37%	55	0	-	-	-	59.8 Gb	69.0 Gb	13%
grid.sinica.edu.tw	294	294	0%	0	0	-	-	-	-	-	-
hep.ph.ic.ac.uk	126	126	0%	0	0	-	-	-	9.2 Gb	16.8 Gb	5%
ifae.es	480	480	0%	0	0	433978	160	0%	5.6 Tb	22.4 Tb	25%
nikhef.nl	500	230	54%	137	13	-	-	-	1.4 Tb	1.7 Tb	20%
triumf.ca	4490	30	99%	0	0	-	-	-	729.1 Gb	731.1 Gb	0%
TOTAL	8902	2711	33%	445	13	1196625	547	26%	8.6 Tb	25.9 Tb	17%

Generated: Mon, 22 Mar 2004 15:50:30 +0000 GridICE Homepage



Select and/or Role Full View

gridpp.rl.ac.uk

Process Name	Status	Inst#	Instances	Last	CPU	Memory	Time	
			First		1Max	1Max	1Max	
UpTime: 1-2:11 Reg.OpenFiles.: 3141 Socket:TCP(29) UDP(17) FS NA PA Full								
condorg-scheduler	S	1	1-3:15	1-3:15	0	0	0-0:0	
condor-master	S	1	1-3:15	1-3:15	0	0	0-0:0	
fmon-agent	S	1	1-3:16	1-3:16	0	0	0-0:0	
ftp-server	S	1	1-2:16	1-2:16	0	0	0-0:0	
job-controller	S	1	1-3:15	1-3:15	0	0	0-0:2	
local-logger	S	1	1-2:1	1-2:1	0	0	0-0:0	
local-logger-interlog	S	6	1-4:1	0-3:11	0	0	0-0:3	
logging-and-bookkeeping	S	11	1-2:55	0-0:7	0	0	0-0:0	
log-monitor	S	1	1-3:11	1-3:11	0	1	0-0:2	
network-server	S	21	1-3:13	1-3:13	0	1	0-0:4	
proxy-renewal	S	4	1-3:16	1-3:14	0	0	0-0:0	
workload-manager	S	4	1-3:16	1-3:16	0	1	0-0:4	
UpTime: 7-22:3 Reg.OpenFiles.: 2822 Socket:TCP(38) UDP(18) FS NA PA Full								
broker								

Process Name	Status	Inst#	Instances	Last	CPU	Memory	Time	
			First		1Max	1Max	1Max	
UpTime: 7-22:34 Reg.OpenFiles.: 1287 Socket:TCP(16) UDP(19) FS NA PA Full								
condorg-scheduler	S	1	1-3:15	1-3:15	0	0	0-0:0	
condor-master	S	1	1-3:15	1-3:15	0	0	0-0:0	
fmon-agent	S	1	1-3:16	1-3:16	0	0	0-0:0	
ftp-server	S	1	1-2:16	1-2:16	0	0	0-0:0	
job-controller	S	1	1-3:15	1-3:15	0	0	0-0:2	
local-logger	S	1	1-2:1	1-2:1	0	0	0-0:0	
local-logger-interlog	S	6	1-4:1	0-3:11	0	0	0-0:3	
logging-and-bookkeeping	S	11	1-2:55	0-0:7	0	0	0-0:0	
log-monitor	S	1	1-3:11	1-3:11	0	1	0-0:2	
network-server	S	21	1-3:13	1-3:13	0	1	0-0:4	
proxy-renewal	S	4	1-3:16	1-3:14	0	0	0-0:0	
workload-manager	S	4	1-3:16	1-3:16	0	1	0-0:4	
UpTime: 7-22:34 Reg.OpenFiles.: 1287 Socket:TCP(16) UDP(19) FS NA PA Full								

Website / Portal

- <http://grid-it.cnaf.infn.it/>
- <http://grid-deployment.web.cern.ch/grid-deployment/cgi-bin/index.cgi?var=lcg1Status>
- <http://goc.grid-support.ac.uk/gridsite/gocmain/>

Portal example

Core services

- Initially to be managed by CICs
- But could be simply hosted by ROCs
- Resource Brokers, Information Servers (BDII), Replica Location Services
- We will have to manage them when we start running regional applications

Security

- Detailed CA presentation by CK