Table of Contents

SFT Test Suite for ROC

The installation of the SFT instance for the CERN OC is done on the model of the one done for the Pre-Production Service.

So please refer to that page if you are looking for hints and technical details about the installation. Here we give only the correct pointers to the CERN ROC installations.

SFT clients on the AFS UI

Several clients are configured on the AFS UI to be used by the CERN ROC. All of them are installed in the main directory

/afs/cern.ch/project/gd/egee

Here we give the relevant details for each client (if you already know about SFT configuration you don't need more)

sft-prod-glite	
All the production gLiteCEs - currently uses Antun Balaz's RB	
Parameter	*Value*
Client directory:	sft-prod-glite
RB	g01.phy.bg.ac.yu
SFT_GOC_MAP_SELECT	`"select GocSite_v0_4.siteID,hostname,sitename,region,inMaintenance from GocSite_v0_4, GocNode_v0_4 where GocSite_v0_4.siteID=GocNode_v0_4.siteID and type='Production' and nodetype='gLite-CE' and monitor='Y' and inMonitoring='Y' order by GocSite_v0_4.siteID"`
Cron Status:	Enabled (Antonio)

sft-roc-cern	
All the uncertified CEs and gLiteCEs in CERN region (certification SFT)	
Parameter	*Value*
Client directory:	sft-roc-cern
RB	lxb2069.cern.ch
SFT_GOC_MAP_SELECT	`"select GocSite_v0_4.siteID,hostname,sitename,region,inMaintenance from GocSite_v0_4, GocNode_v0_4 where GocSite_v0_4.siteID=GocNode_v0_4.siteID and (nodetype='gLite-CE' or nodetype='CE') and monitor='Y' and inMonitoring='Y' and status<>'certified' and region='CERN' order by GocSite_v0_4.siteID"`
Cron Status:	Enabled (Antonio)

sft-pps-glite	
This client is used as backup for the pps SFT (normally run by UPATRAS)	
Parameter	*Value*
Client directory:	sft-pps-glite
RB	lxb2059.cern.ch
SFT_GOC_MAP_SELECT:	`"select GocSite_v0_4.siteID,hostname,sitename,region,inMaintenance from GocSite_v0_4, GocNode_v0_4 where GocSite_v0_4.siteID=GocNode_v0_4.siteID and (nodetype='gLite-CE' or nodetype='CE') and type='PPS' and monitor='Y' and inMonitoring='Y' and status='certified' order by GocSite_v0_4.siteID"`
Cron Status:	Disabled

Changes in the parameters above described needs to be reflected in the configuration files as follows:

Parameter	*File to be changed*
Client directory:	submit-sft-glite-tests.sh
	config-sft.cfg
RB	conf/prefRB.lst.glite
SFT_GOC_MAP_SELECT	conf/defaults.glite

The configuration is almost identical for all the client except in the parameters in the tables above.

- The configuration file *defaults.glite* is

```
SFT_JOB_SUBMIT_CMD=glite-job-submit
SFT_JOB_STATUS_CMD=glite-job-status
SFT_JOB_OUTPUT_CMD=glite-job-output
SFT_JOB_LOGGING_CMD=glite-job-logging-info
SFT_JOB_LISTMATCH_CMD=glite-job-list-match
SFT_JOB_CANCEL_CMD=glite-job-cancel

SFT_PUBLISHER_PROXY=http://lcg-sft-publish.cern.ch:8083/sft/publishTuple
```

SFT_GOC_MAP_SELECT= **See value in the table**

```
SFT_LCG_VER_FILTER="LCG-[23]_[4567890123]"
```

- The default flavour of the SFT tests used on PPS is "glite". The *defaults* file is

```
SFT_VO=dteam

# default definitions for status codes
SFT_OK=10
SFT_INFO=20
SFT_NOTICE=30
SFT_WARNING=40
SFT_ERROR=50
SFT_CRITICAL=60

SFT_TYPE=glite

#SFT_LCG_CATALOG_TYPE=edg

SFT_LCG_CATALOG_TYPE=lfc
SFT_LFC_HOME=/grid/$SFT_VO/SFT

SFT_SAME_PUBLISHER_WSDL=http://gvdev.cern.ch:8080/gridview/services/WebArchiver?wsdl
```

- The *tests.glite file* looks like:

```
sft-wn
sft-softver
sft-caver --conf data/ca_data.dat --web
sft-brokerinfo
sft-csh
sft-lcg-rm
sft-vo-tag
sft-vo-swdir
sft-rgma
```

```
sft-rgma-sc
sft-crl
sft-apel
```

- The list of SE in *prefSE.lst* is

```
grid007g.cnaf.infn.it
srm.cern.ch
```

- All clients write in a local working directory
  The PPS SFT clients has been set-up to write in `/afs/cern.ch/project/gd/egee/` **_client directory_** .
  E.g. for the sft-pps-glite client:

```
> cat /afs/cern.ch/project/gd/egee/sft-pps-glite/config-sft.cfg=
SFT_WORK=/afs/cern.ch/project/gd/egee/sft-pps-glite/workdir-glite
LCG_GFAL_INFOSYS=lxb2086.cern.ch:2170
```

  To use it you need to specify **esplicitely** the configuration file in the command line.

```
>  ./sftests -c config-sft.cfg submit
>  ./sftests -c config-sft.cfg status
>  ./sftests -c config-sft.cfg publish
```

- Submission scripts have been ceated to run the clients directly from lxb1908. They are almost identical, with the exception of the **_client directory_** . E.g. for the sft-roc-cern client:

```
> cat /afs/cern.ch/project/gd/egee/sft-roc-cern/submit-sft-glite-tests.sh
#!/bin/sh

# use PPS ui
source /afs/cern.ch/project/gd/egee/glite/ui_PPS_glite3.0_RC5/etc/profile.d/grid_env.sh

# use local ui
#source /etc/glite/profile.d/glite_setenv.sh

cat /afs/cern.ch/user/a/aretico/private/pass | voms-proxy-init -voms dteam -pwstdin
sleep 2
/afs/cern.ch/project/gd/egee/sft-roc-cern-glite/sftests -c /afs/cern.ch/project/gd/egee/sf
sleep 2

/afs/cern.ch/project/gd/egee/sft-roc-cern-glite/sftests -c /afs/cern.ch/project/gd/egee/sf

exit
```

Note on the Cern ROC certification RB

lxb2069.cern.ch is a **gLiteWMS**, which allows jobs to be sent both to LCG and gLiteCEs. It uses, as Information System, lxb2086.cern.ch

lxb2086 is also a **top Level BDII** , which uses the configuration file in

```
/afs/cern.ch/project/gd/egee/www/roc-cern/bdii/cern-roc-all-sites.conf
```

this file is generated by merging the **production** BDII configuration file

```
/afs/cern.ch/project/gd/www/gis/lcg2-bdii/dteam/lcg2-all-sites.conf
```

with a list of sites under observation by the Cern ROC (e.g. suspended, candidate, uncertified sites)

```
/afs/cern.ch/project/gd/egee/www/roc-cern/bdii/observed-sites.conf
```

The script that creates the BDII configuration file (currently run by Antonio) in his crontab is:

```
[aretico@lxb1908 bdii] cat /afs/cern.ch/project/gd/egee/www/roc-cern/bdii/create-roc-bdii-conf.sh
#!/bin/sh

# to be run in user's crontab
# currently run in acrontab :by Antonio
# 05 2 * * * lxplus.cern.ch /afs/cern.ch/project/gd/egee/www/roc-cern/bdii/create-roc-bdii-conf.s

BDII_PROD_CONF=/afs/cern.ch/project/gd/www/gis/lcg2-bdii/dteam/lcg2-all-sites.conf
BDII_OBS_CONF=/afs/cern.ch/project/gd/egee/www/roc-cern/bdii/observed-sites.conf
BDII_ROC_CONF=/afs/cern.ch/project/gd/egee/www/roc-cern/bdii/cern-roc-all-sites.conf

cat << EOF > ${BDII_ROC_CONF}
#
# ROC-CERN BDII configuration file.
#
# This file is generated by the script
#
#    ${0}
#
# It is the result of merging the files
# ${BDII_PROD_CONF}
# and
# ${BDII_OBS_CONF}
#
# Manual modifications by the CERN-ROC team should be done only in
# ${BDII_ROC_CONF}
#

# ----------------------------------
# Start of merged info
# ----------------------------------

EOF

cat ${BDII_PROD_CONF} ${BDII_OBS_CONF} >> ${BDII_ROC_CONF}

cat << EOF >> ${BDII_ROC_CONF}

# ----------------------------------
# End of merged info
# ----------------------------------

EOF
```

Cron jobs

```
> cat /afs/cern.ch/project/gd/egee/gocdb-xfer/launch-gocdb-xfer.sh

#!/bin/sh

# use PPS ui
source /afs/cern.ch/project/gd/egee/glite/ui_PPS_glite3.0_RC5/etc/profile.d/grid_env.sh
```

```
cat /afs/cern.ch/user/a/aretico/private/pass | voms-proxy-init -voms dteam -pwstdin
sleep 2
/afs/cern.ch/project/gd/egee/gocdb-xfer/gocdb-xfer.py

exit
```

- > acrontab -l

```
05 2 * * * lxplus.cern.ch /afs/cern.ch/project/gd/egee/www/roc-cern/bdii/create-roc-bdii-conf.sh
05 * * * * lxplus.cern.ch /afs/cern.ch/project/gd/egee/www/preproduction/bdii/create-pps-bdii-con
00 * * * * lxb1908.cern.ch /afs/cern.ch/project/gd/egee/gocdb-xfer/launch-gocdb-xfer.sh> /afs/cer
#35 * * * * lxb1908.cern.ch /afs/cern.ch/project/gd/egee/sft-pps-glite/submit-sft-glite-tests.sh
45 * * * * lxb1908.cern.ch /afs/cern.ch/project/gd/egee/sft-roc-cern/submit-sft-glite-tests.sh >
55 * * * * lxb1908.cern.ch /afs/cern.ch/project/gd/egee/sft-prod-glite/submit-sft-glite-tests.sh
```

NOTE: connections from lxb1908.cern.ch had to be previously authorized from the administrators of the GOC DB.

Display

https://lcg-sft.cern.ch/sft-CERN-ROC/lastreport.cgi

Maintenance

Running test SFT jobs (if you are not Antonio)

All the regular submission is done through cronjobs run with Antonio's proxy. If you need to debug the client and want to submit.

- You need writing permissions in */afs/cern.ch/project/gd/egee*
- In the client directory make a copy of the config file *config-sft.cfg*

```
cp config-sft.cfg my_config-sft.cfg
```

- Edit the config file *config-sft.cfg* changing the directory name in it (e.g.)

```
> cat config-sft.cfg
SFT_WORK=/afs/cern.ch/project/gd/egee/sft-prod-glite/my-workdir-glite
LCG_GFAL_INFOSYS=lxb2086.cern.ch:2170
```

- Create your proxy
- Use the submit, status and publish commands pointed to your config file

```
> ./sftests -c my_config-sft.cfg submit
> ./sftests -c my_config-sft.cfg status
> ./sftests -c my_config-sft.cfg publish
```

Upgrade CA

On a AFS UI (example for user=aretico)

```
setenv CVSROOT :ext:aretico@glite.cvs.cern.ch:/cvs/glite
[aretico@lxplus ~/cvs] cvs co sft2
...
[aretico@lxplus ~/cvs] cd /afs/cern.ch/project/gd/egee/sft-roc-cern-glite
[aretico@lxplus sft-roc-cern-glite cp data/ca_data.dat data/ca_data.dat.bak
[aretico@lxplus sft-roc-cern-glite cp ~/cvs/sft2/data/ca_data.dat data/ca_data.dat
```

-- Main.aretico - 29 Aug 2006

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