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# Service Discovery Test Procedure

## Set up a bdii on some machine

As root:

- Download repos for glite\_BDII and enable the dag repo
- yum install glite-BDII
- Download repo for lcg-CA and turn off gpgcheck (proxy problems)
- yum install lcg-CA
- add firewall rule to /etc/sysconfig/iptables

```
-A RH-Firewall-1-INPUT -m state --state NEW -m tcp -p tcp --dport 2170 -j ACCEPT
```

## Set up test machine

As root:

- Reinstall with latest version SL5.x and yum update etc
- Download repos for glite\_UI and enable the dag repo
- yum groupinstall glite-UI
- Download repo for lcg-CA and turn off gpgcheck (proxy problems)
- yum install lcg-CA
- If you need to clean out from an earlier set of RPMs: rpm -qa | grep -i saga | xargs yum -y remove
- yum install glite-saga-adapter-isn-java glite-saga-adapter-sd-java
- If the /opt/glite/yaim/node-info.d/glite-ui does not include config\_glite\_saga then modify /opt/glite/yaim/node-info.d/glite-ui to include config\_glite\_saga at the end of UI\_FUNCTIONS
- copy site-info.def to opt/glite/yaim
- edit site-info.def enable just the ATLAS VO as in the example in the file and set BDII\_HOST=lcg-bdii.gridpp.ac.uk and run: /opt/glite/yaim/bin/yaim -c -s site-info.def -n UI
- Install boost-devel to run the examples

As a normal user:

- Check for doc in /opt/glite/share/doc/glite-saga-adapters-\* and ensure that it is clear and accurate
- man saga-sd and check the output
- man saga-isn and check the output

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```
mkdir -p ~/saga-adapter-tests
cp -r /opt/glite/share/doc/glite-saga-adapter-cpp ~/saga-adapter-tests/cpp
cp -r /opt/glite/share/doc/glite-saga-adapter-java ~/saga-adapter-tests/java

cd ~/saga-adapter-tests/cpp/sd
make
make NUM=two
./sd_example_one
./sd_example_two

cd ~/saga-adapter-tests/cpp/isn
make
make NUM=two
./isn_example_one
./isn_example_two

cd ~/saga-adapter-tests/java/sd
javac -cp $JAVA_SAGA_LOCATION/lib/'*' SDExampleOne.java SDExampleTwo.java
java -cp $JAVA_SAGA_LOCATION/etc/saga/java:$JAVA_SAGA_LOCATION/lib/'*':. -Dsaga.location=$JAVA_SAGA_LOCATION/etc/saga/java:$JAVA_SAGA_LOCATION/lib/'*':. -Dsaga.location=$JAVA_SAGA_LOCATION/etc/saga/java:$JAVA_SAGA_LOCATION/lib/'*':. -Dsaga.location=$JAVA_SAGA_LOCATION/etc/saga/java:$JAVA_SAGA_LOCATION/lib/'*':.

cd ~/saga-adapter-tests/java/isn
javac -cp $JAVA_SAGA_LOCATION/lib/'*' ISNExampleOne.java ISNExampleTwo.java
java -cp $JAVA_SAGA_LOCATION/etc/saga/java:$JAVA_SAGA_LOCATION/lib/'*':. -Dsaga.location=$JAVA_SAGA_LOCATION/etc/saga/java:$JAVA_SAGA_LOCATION/lib/'*':. -Dsaga.location=$JAVA_SAGA_LOCATION/etc/saga/java:$JAVA_SAGA_LOCATION/lib/'*':. -Dsaga.location=$JAVA_SAGA_LOCATION/etc/saga/java:$JAVA_SAGA_LOCATION/lib/'*':.
```

Run the C++ and Java tests. For the C++ test the should be specified as a machine where you have installed the test BDII as this will be modified to set fixed configuration files and is a time in seconds that should be long enough for the BDII server to repopulate itself after a restart - this depends upon the speed of the machine running the test BDII. Try 120 and increase it if you have problems. For the Java test any functioning top level bdii can be used. The tests should run to completion. Some tests include providing bad input to obtain error messages. These messages should be checked to ensure that they can be understood.

- Get a voms proxy

```
export CVS_RSH=ssh
export CVSROOT=:ext:fisher@glite.cvs.cern.ch:/cvs/glite
```

```
cd ~/saga-adapter-tests
cvs co org.glite.saga-adapter.sd-cpp/test
cvs co org.glite.saga-adapter.sd-java/test
cvs co org.glite.saga-adapter.isn-cpp/test
cvs co org.glite.saga-adapter.isn-java/test
```

```
cd ~/saga-adapter-tests/org.glite.saga-adapter.sd-cpp/test
./tests.pl rgma10 200 > sd-cpp.txt 2>&1
```

```
cd ~/saga-adapter-tests/org.glite.saga-adapter.sd-java/test
./tests.pl lcg-bdii.gridpp.ac.uk > sd-java.txt 2>&1
```

```
cd ~/saga-adapter-tests/org.glite.saga-adapter.isn-cpp/test
./tests.pl rgma10 200 > isn-cpp.txt 2>&1
```

```
cd ~/saga-adapter-tests/org.glite.saga-adapter.isn-java/test
./tests.pl lcg-bdii.gridpp.ac.uk > isn-java.txt 2>&1
```

\* Check the four output files

\* Finally check that the configuration files work as indicated at the end of the SD user guide

-- SteveFisher - 13-Nov-2009

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This topic: EGEE > ServiceDiscoveryTestProcedure

Topic revision: r9 - 2011-04-20 - DrSMFisher



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