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FTS `services.xml` cache file at CERN.

What is it?

This is the procedure for creating or updating the `services.xml` information service cache file on the CERN FTS instance. There is a general procedure as well. FtsServerServicesXml20.

When to use it?

When a new SRM server has been added to EGEE.BDII and you want to include it in the cache. The script is not run by `cron` due to the high load it generates on the EGEE.BDII.

Updating the services.xml file.

Start on one of the agent boxes and take the current `services.xml` file and make local copy.

```
cp -f /opt/glite/etc/services.xml /root/services.xml.old
```

Make sure you have the latest `make-services.sh` script from FtsServerServicesXml20.

Source the gLite environment:

```
. /etc/profile
```

Run the script:

```
./make-services.sh --ftshost prod-fts-ws.cern.ch --oldxml /root/services.xml.old --serxml /root/s
```

this will use the default global LCG EGEE.BDII (`lcg-bdii.cern.ch`) and the default MyProxy server `myproxy-fts.cern.ch`. It will add in the `ops` VO to all SRMs (if not published properly by the storage elements).

If this command fails, run it again (likely issue is BDII timeout).

Verification

First count the number of SRMs:

```
grep "<type>SRM</type>" /root/services.xml | wc -l
grep "<type>SRM</type>" /root/services.xml.old | wc -l
```

the first number (from the new file) should be greater (or equal) than the second (because the script always adds SRMs keeping the old definitions at the end of the file; it will never remove them).

```
export GLITE_SD_SERVICES_XML=/root/services.xml
glite-sd-query -t SRM
```

If this succeeds, then the file is correctly formatted. Otherwise, repeat the whole operation or contact `fts-support@cern.ch`.

Deployment

The following files are the master `services.xml` files for prod, tiertwo and pilot FTS clusters.

- `/afs/cern.ch/project/gd/SC3/SC4/services.xml/services-prod-cluster.xml`
- `/afs/cern.ch/project/gd/SC3/SC4/services.xml/services-tiertwo-cluster.xml`
- `/afs/cern.ch/project/gd/SC3/SC4/services.xml/services-pilot-cluster.xml`

A Quattor managed cron runs on each of the agents
`/etc/cron.d/fts-cron-in-services-xml.ncm-cron.cron` that copies in this file to
`/opt/glite/etc/services.xml` if the destination is missing or older than the source. The cron currently runs once per hour.

Make the backup of the new file in AFS:

`cp -f /root/services.xml /afs/cern.ch/project/gd/SC3/SC4/services.xml/services-<cluster>-cluster.`

where is the cluster you are working with, i.e prod, pilot or tiertwo

wait one hour for the cron job above to run.

Update the Wiki page example file

Put the new file as an attachement on FtsServerServicesXml20. This will make sure that the example file is always up to date.

Notes

The general description of the `make-services.xml` tool is in FtsServerServicesXml20.

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This topic: LCG > FtsTier0ProceduresServiceXml20
Topic revision: r5 - 2008-03-18 - GavinMcCance