

Table of Contents

CDB Configuration for the SLC4 FTS services.....	1
Template format.....	1
Service name.....	1
Role.....	2
Software configuration.....	2
Detail: web-service.....	2
Detail: agents.....	3
SINDES.....	3
Procedures.....	3

CDB Configuration for the SLC4 FTS services

This describes the CDB configuration for two of the following services, **FTS-T0-EXPORT-21** and **FTS-T0-EXPORT-21**, the ones currently running on SLC4.

The older SLC3-based service are described in [FtsTier0CDBConfiguration20](#).

DNS alias	SLS name	OS	Lemon	Version (20th May 2010)
fts-t2-service.cern.ch	FTS-T2-SERVICE	SLC4 64-bit	lemon subcluster	FTS 2.2.3
fts-patch4084.cern.ch	FTS-PILOT-SERVICE	SLC4 64-bit	lemon subcluster	FTS 2.2.4
fts22-t0-export.cern.ch	FTS22-T0-EXPORT	SLC4 64-bit	lemon subcluster	FTS 2.2.3

Template format

The FTS components are defined in the new FIO hierarchical template structure. The node template defines what a given node does:

```
include {"services/gridfts/service/t0export"};
include {"services/gridfts/role/webservice"};

include {"services/gridfts/service/t0export"};
include {"services/gridfts/role/agent"};

include {"services/gridfts/service/t2service"};
include {"services/gridfts/role/webservice"};

include {"services/gridfts/service/t2service"};
include {"services/gridfts/role/agent"};

include {"services/gridfts/service/monitor"};
include {"services/gridfts/role/monitor"};
```

The core template, common to all node types, is [prod/services/gridfts.tpl](#).

Service name

This 'service' is translated immediately to cluster sub-name - in the following discussion, the two should be used to mean the same thing.

It controls which FTS service the node serves. For the SLC4-based services, there are two:

Service	Cluster subname
FTS-T0-EXPORT-21	t0export
FTS-T2-SERVICE-21	t2service

and the monitor service (which monitors all FTS services):

Service	Cluster subname
FTS-MONITOR	monitor

See [FtsTier0Deployment](#) for the current up-to-date status of which nodes are deployed for which services.

For a description of these services themselves, see [ScGridFTS](#).

Role

This describes what the node actually does within the cluster (i.e. whether it is an FTA agent node or a FTS webservice node). It is immediately set to the CDB 'function' attribute.

Node type	Role/Function
FTS webservice	webservice
FTA channel or VO agents	agent
FTM monitoring	monitor

See FTSServiceClass for a description of what each component is for.

Software configuration

All components of the FTS are configured using YAIM underneath the `ncm-yaim` component and CDB configuration. YAIM uses the `ncm` configuration trees:

```
/software/components/yaim/
```

```
/software/components/yaim/FTA/
```

```
/software/components/yaim/FTS/
```

to control the FTS configuration. The CDB `services/gridfts/service/` templates describe the configuration for each separate service. e.g.:

```
prod/services/gridfts/service/t0export
```

```
prod/services/gridfts/service/t2service
```

```
prod/services/gridfts/service/monitor
```

Once the CDB template is updated then on the nodes in question the profiles should be updated and the `ncm` component should be run. A typical cycle follows.

1. `fts201 # ccm-fetch`
2. `fts201 # ncm-ncd --co yaim`
3. If the `ncm` generated `yaim` config file `/etc/lcg-quattor-site-info.def` has not be modified then `yaim` will not run. Delete the file to force YAIM to run.

Note that a `yaim` configuration will restart `tomcat` on the FTS web-services but will not restart the FTA agents, the FTA agents must be restarted by themselves `service transfer-agents restart`

Detail: web-service

The web-service requires almost no configuration, except the database password, which is delivered by the `fts_oracle_passwd SINDES` component. This file dropped in by `SINDES` (`/etc/fts-passwords/fts-db-password`) is automatically picked up by `ncm-yaim` component.

- The `DBURL` (`FTS_DBURL`) is set to give the correct JDBC database connect string.
- The `HOST_ALIAS` (`FTS_HOSTALIAS`) is set for `BDII` to publish the correct DN alias instead of the local hostname.

See `FtsServerInstall20` and `FtsYaimValues20` for more details.

Detail: agents

In short, the configuration specifies which agent daemons reside on which nodes in the cluster, and what the various properties of the FTS agent daemons are. The database password is the same as for the web-service for a given FTS service.

See [FtsServerInstall20](#) and [FtsYaimValues20](#) for more details.

SINDES

SINDES is used to add:

- the standard host certificates
- the standard load-balancing `snmpd` password
- the standard password file information
- the ssh key (not standard)
- `fts_oracle_passwd` which is a cluster-level component that delivers the database passwords to the nodes, using the sub-cluster name to select the correct password

Procedures

Service manager procedures are available at [FtsServiceProcedures](#).

This topic: [LCG > FtsTier0CDBConfiguration21](#)

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