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# HOWTO guide for Service Challenge Three Throughput phase

## Access to FTS Clients

There are two ways to get access to the SC3 Clients:

- Install a SC3 Client node, following `FtsClientInstall112`
- Use the pre-installed SC3 user interface provided at CERN, see `TierZeroInformation`

## Configuration

You need to configure the `/opt/glite/etc/services.xml` to point to the SC3 FTS server. The contents of the file should be:

```
<?xml version="1.0" encoding="UTF-8"?>
<services>
  <service name="EGEEfts">
    <parameters>
      <endpoint>https://sc3-fts.cern.ch:8443/sc3-prod/glite-data-transfer-fts/services/FileTransfer</endpoint>
      <type>org.glite.FileTransfer</type>
      <version>2.9.0</version>
      <status>0</status>
      <statusmessage>mmm...</statusmessage>
    </parameters>
  </service>

  <service name="EGEEchannel">
    <parameters>
      <endpoint>https://sc3-fts.cern.ch:8443/sc3-prod/glite-data-transfer-fts/services/ChannelManagement</endpoint>
      <type>org.glite.ChannelManagement</type>
      <version>2.9.0</version>
      <status>0</status>
      <statusmessage>mmm...</statusmessage>
    </parameters>
  </service>
</services>
```

## Channel Management

All user DN's should be allowed to submit jobs. This also allows them to view their own jobs. For a site admin to manage their channel, they need to be in the manager mapfile. Please contact `lcg-sc.support@cern.ch` if you want your DN added to the manager mapfile.

## Accessible Files

For the throughput phase, we will use sets of pre-generated files that have been loaded to disk. Initially, there is a set of 1000 1GB files on the cluster and a set of 1000 small files (~5KB).

## myproxy server

The FTS is configured to connect to 1 Myproxy server in order to get the proxies to run the jobs. For the FTS servers at CERN, we use `myproxy.cern.ch` as the Myproxy server.

## Load Generator

The FtsLoadGenerator should be used in preference for generating load, since it has a list of 'bad' files in the 1000 that should not be transferred (due to problems with disks, etc...)

## Load Generation Allocation

In order to co-ordinate who runs the load-generators for which channels, site admins can note in this table if they run it, and also, if possible, with which DN/DNs they will run it.

Site	Will run channel?
ASCC	
BNL	
FNAL	No FTS
GRIDKA	
IN2P3	Lionel
INFN	
NDGF	Lief/Lars (???)
PIC	Gonzalo
RAL	
SARA/NIKHEF	Ron
TRIUMF	

-- JamesCasey - 11 Jul 2005

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