

**Quality Criteria Verification  
Executive Summary  
For QCV, Stage Rollout, DMSU and EGI internal**

Name of the component	EMI.fts.sl6.x86_64		
Release	2.2.9	RT Ticket	#4967
Software Provider	EMI-2		
Release Contact	Name:	E-Mail	
Validator	Andrew Lahiff	andrew.lahiff@stfc.ac.uk	
V. Hours Worked	15		
Component status		Date	2013/04/03
Verification start date	2013/02/14	Verification end date	2013/03/21

**Summary:**

EMI-2 FTS 2.2.9 SL6 was successfully installed from scratch and configured on clean Scientific Linux 6.2 nodes. All basic tests were successful.

**GGUS Tickets:**

#92535 “glite-sd2cache-cron not including SRMs in /etc/services.xml”  
#92621 “glite-data-transfer-fts.xml is world-readable”

**Summary of Quality Criteria verification:**

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
<b>TP</b>				
<b>VLD</b>	11	2	0	13
	Specific Quality Criteria			
<b>TP</b>				
<b>VLD</b>	8	0	1	9

## Quality Criteria verification cheatsheet:

Criteria	Accepted (Y/N/NA)	Tested (TP/VLD)	Comments
<b>DOCUMENTATION QC</b>			
GENERIC_DOC_1 (Functional Description)	Optional		
GENERIC_DOC_2 (Release Notes)	Y	VLD	
GENERIC_DOC_3 (User Documentation)	Optional		
GENERIC_DOC_4 (Online help (man pages))	Optional		
GENERIC_DOC_5 (API Documentation)	Optional		
GENERIC_DOC_6 (Administrator Documentation)	Optional		
GENERIC_DOC_7 (Service Reference Card)	Optional		
GENERIC_DOC_8 (Software License)	Y	VLD	
GENERIC_DOC_9 (Release changes testing)	Optional		
<b>SOFTWARE DISTRIBUTION QC</b>			
GENERIC_DIST_1 (Source Code Availability)	Y	VLD	
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	
<b>SOFTWARE FEATURES QC</b>			
GENERIC_SOFT_1 (Backwards Compatibility)	Y	VLD	
GENERIC_SOFT_2 (New features testing)	N	VLD	GGUS #92621. Resolution of GGUS #81844 not checked.
<b>SERVICE CRITERIA QC</b>			
GENERIC_SERVICE_1 (Service control and status)	Y	VLD	
GENERIC_SERVICE_2 (Log Files)	Y	VLD	
GENERIC_SERVICE_3 (Service Reliability)	Optional		
GENERIC_SERVICE_4 (Service Robustness)	Optional		
GENERIC_SERVICE_5 (Automatic Configuration)	Optional		
GENERIC_SERVICE_6 (Default Password Configuration)	Y	VLD	
GENERIC_SERVICE_7 (Default Configuration )	Y	VLD	
<b>SECURITY QC</b>			
GENERIC_SEC_1 (World Writable Files)	Y	VLD	
GENERIC_SEC_3 (Passwords in world readable files)	N	VLD	GGUS #92621
<b>MISCELLANEOUS QC</b>			
GENERIC_MISC_1 (Bug Tracking System)	Y	VLD	
<b>AUTHENTICATION QC</b>			
AUTHN_CRED_1 (X.509 Certificate support)	Y	VLD	
AUTHN_CRED_2 (SHA2 Certificate support)	Optional		
AUTHN_CRED_3 (RFC Proxy support)	Optional		
AUTHN_PROTO_1 (TLSSSLv3 Support)	Y	VLD	
<b>AUTHORISATION QC</b>			
AUTHZ_PCYDEF_3 (Ban UserGroup of users)	Y	VND	
AUTHZ_PCYDEF_4 (Allowed users definition)	Y	VLD	
AUTHZ_PEP_2 (User Mapping)	NA	VLD	Users aren't mapped to GID/UIDs.
<b>FILE TRANSFER SCHEDULING QC</b>			
FILETRANSFSCH_CHANNEL_1 (Channel Management Operations)	Y	VLD	
FILETRANSFSCH_CHANNEL_2 (Channel Manager Control)	Y	VLD	
FILETRANSFSCH_MGMT_1 (File Transfer Operation Management)	Y	VLD	
FILETRANSFSCH_MGMT_2 (End to end file transfer operation )	Y	VLD	
<b>MONITORING PROBES QC</b>			

MON_PROBE_GENERIC_1 (Certificate Lifetime Probe)	Optional		
MON_PROBE_GENERIC_2 (Service Probe)	Optional		
<b>CLIENT TOOLS QC</b>			
CLIENT_TOOLS_1 (Command line options coherency)	Optional		
CLIENT_TOOLS_2 (Error Messages)	Optional		

## Validator comments:

In the below all passwords have been replaced with "XXX".

Installation/configuration of FTS host

```
[root@cloud064 yum.repos.d]# cat EMI.fts.sl6.x86_64.repo
# EGI Software Repository - REPO META (releaseId,repositoryId,repofileId) -
(4967,867,792)
```

```
[EMI.fts.sl6.x86_64]
name=EMI.fts.sl6.x86_64
baseurl=http://admin-repo.egi.eu/sw/unverified/umd-2.emi.fts.sl6.x86_64/2/2/9/
enabled=1
protect=1
priority=1
pgpcheck=1
pgpkey=http://emisoft.web.cern.ch/emisoft/dist/EMI/2/RPM-GPG-KEY-emi
```

```
[root@cloud064 yum.repos.d]# yum install emi-fts_oracle
```

Dependencies Resolved

```
=====
=====
Package                               Size      Arch           Version
Repository                             Size
=====
=====
Installing:
emi-fts_oracle                          3.9 k      x86_64         2.2.8-0.el6
EMI.fts.sl6.x86_64
libjpeg-turbo                           173 k      x86_64         1.2.1-1.el6
sl-security
replacing libjpeg.x86_64 6b-46.el6
Installing for dependencies:
CGSI-gSOAP                              38 k      x86_64         1.3.5-2.el6
EMI.fts.sl6.x86_64
audit-libs-python                       57 k      x86_64         2.1.3-3.el6
sl
axis                                     1.5 M      noarch         1.2.1-7.3.el6_3
sl-security
bcel                                      1.4 M      x86_64         5.2-7.2.el6
sl
bdii                                      22 k      noarch         5.2.12-1.el6
EMI.fts.sl6.x86_64
bouncycastle                             2.3 M      noarch         1.46-1.el6
epel
classpathx-jaf                           99 k      x86_64         1.0-15.4.el6
sl
classpathx-mail                          478 k      noarch         1.1.1-9.4.el6
sl
delegation-api-c                         42 k      x86_64         2.1.3-1.el6
EMI.fts.sl6.x86_64
```

delegation-cli		x86_64	2.1.4-1.el6
EMI.fts.sl6.x86_64	20 k		
ecj		x86_64	1:3.4.2-6.el6
sl	2.8 M		
edg-mkgridmap		noarch	4.0.0-1
EMI.fts.sl6.x86_64	27 k		
emi-delegation-interface		noarch	2.0.3-1.sl6
EMI.fts.sl6.x86_64	16 k		
emi-trustmanager		noarch	3.1.4-1.sl6
EMI.fts.sl6.x86_64	249 k		
emi-trustmanager-tomcat		noarch	3.0.1-1.sl6
EMI.fts.sl6.x86_64	28 k		
emi-version		x86_64	2.6.0-1.sl6
EMI.fts.sl6.x86_64	2.2 k		
expect		x86_64	5.44.1.15-2.el6
sl	255 k		
fetch-curl		noarch	3.0.8-1.el6
epel	45 k		
flac		x86_64	1.2.1-6.1.el6
sl	242 k		
giflib		x86_64	4.1.6-3.1.el6
sl	36 k		
glib2-devel		x86_64	2.22.5-6.el6
sl	1.3 M		
glite-yaim-bdii		noarch	4.3.11-1.el6
EMI.fts.sl6.x86_64	10 k		
glite-yaim-core		noarch	5.1.0-1.sl6
EMI.fts.sl6.x86_64	102 k		
globus-callout		x86_64	2.2-1.el6
epel	18 k		
globus-common		x86_64	14.7-1.el6
EMI.fts.sl6.x86_64	115 k		
globus-gsi-callback		x86_64	4.4-1.el6
epel	39 k		
globus-gsi-cert-utils		x86_64	8.3-1.el6
epel	20 k		
globus-gsi-credential		x86_64	5.3-1.el6
epel	33 k		
globus-gsi-openssl-error		x86_64	2.1-2.el6
epel	17 k		
globus-gsi-proxy-core		x86_64	6.2-1.el6
epel	33 k		
globus-gsi-proxy-ssl		x86_64	4.1-2.el6
epel	17 k		
globus-gsi-sysconfig		x86_64	5.3-1.el6
epel	28 k		
globus-gss-assist		x86_64	8.6-1.el6
epel	33 k		
globus-gssapi-gsi		x86_64	10.7-1.el6
epel	56 k		
globus-openssl-module		x86_64	3.2-1.el6
epel	14 k		
glue-schema		noarch	2.0.8-2.el6
EMI.fts.sl6.x86_64	31 k		
gridsite-libs		x86_64	1.7.25-1.emi2.el6
EMI.fts.sl6.x86_64	86 k		
gsoap		x86_64	2.7.16-3.el6
epel	198 k		
is-interface		x86_64	1.14.0-0.el6
EMI.fts.sl6.x86_64	46 k		
jakarta-commons-collections		noarch	3.2.1-3.4.el6
sl	522 k		
jakarta-commons-daemon		x86_64	1:1.0.1-8.9.el6
sl	44 k		
jakarta-commons-dbcpl		noarch	1.2.1-13.8.el6
sl	115 k		
jakarta-commons-discovery		noarch	1:0.4-5.4.el6
sl	72 k		

jakarta-commons-httpclient		x86_64	1:3.1-0.7.e16_3
sl-security	586 k		
jakarta-commons-logging		noarch	1.0.4-10.e16
sl	51 k		
jakarta-commons-pool		x86_64	1.3-12.7.e16
sl	121 k		
java-1.5.0-gcj		x86_64	1.5.0.0-29.1.e16
sl	138 k		
java-1.6.0-openjdk		x86_64	1:1.6.0.0-
1.57.1.11.9.e16_4		sl-security	25 M
java_cup		x86_64	1:0.10k-5.e16
sl	196 k		
jline		noarch	0.9.94-0.8.e16
sl	85 k		
jpackage-utils		noarch	1.7.5-3.12.e16
sl	58 k		
libart_lgpl		x86_64	2.3.20-5.1.e16
sl	64 k		
libasyncns		x86_64	0.8-1.1.e16
sl	23 k		
libcgroup		x86_64	0.37-3.e16
sl	103 k		
libgcj		x86_64	4.4.6-3.e16
sl	19 M		
libselenium-python		x86_64	2.0.94-5.2.e16
sl	201 k		
libsemanage-python		x86_64	2.0.43-4.1.e16
sl	80 k		
libsndfile		x86_64	1.0.20-5.e16
sl	232 k		
libtool-ltdl		x86_64	2.2.6-15.5.e16
sl	43 k		
libxslt		x86_64	1.1.26-2.e16_3.1
sl-security	451 k		
log4j		x86_64	1.2.14-6.4.e16
sl	678 k		
mailcap		noarch	2.1.31-2.e16
sl	26 k		
mx4j		noarch	1:3.0.1-9.13.e16
sl	1.1 M		
nss-tools		x86_64	3.14.0.0-12.e16
sl-security	734 k		
openldap-clients		x86_64	2.4.23-26.e16_3.2
sl-security	163 k		
openldap-servers		x86_64	2.4.23-26.e16_3.2
sl-security	2.0 M		
perl-Authen-SASL		noarch	2.13-2.e16
sl	50 k		
perl-Compress-Raw-Zlib		x86_64	2.023-119.e16_1.1
sl	66 k		
perl-Compress-Zlib		x86_64	2.020-119.e16_1.1
sl	42 k		
perl-Convert-ASN1		noarch	0.22-1.e16
sl	42 k		
perl-Crypt-SSLeay		x86_64	0.57-16.e16
sl	138 k		
perl-Date-Manip		noarch	6.24-1.e16
sl	1.3 M		
perl-Digest-HMAC		noarch	1.01-22.e16
sl	21 k		
perl-Digest-SHA1		x86_64	2.12-2.e16
sl	48 k		
perl-GSSAPI		x86_64	0.26-5.e16
sl	63 k		
perl-HTML-Parser		x86_64	3.64-2.e16
sl	108 k		
perl-HTML-Tagset		noarch	3.20-4.e16
sl	15 k		

perl-IO-Compress-Base		x86_64	2.020-119.e16_1.1
sl	65 k		
perl-IO-Compress-Zlib		x86_64	2.020-119.e16_1.1
sl	132 k		
perl-IO-Socket-SSL		noarch	1.31-2.e16
sl	68 k		
perl-LDAP		noarch	1:0.40-1.e16
sl	353 k		
perl-Net-LibIDN		x86_64	0.12-3.e16
sl	34 k		
perl-Net-SSLeay		x86_64	1.35-9.e16
sl	172 k		
perl-TermReadKey		x86_64	2.30-13.e16
sl	30 k		
perl-Text-Iconv		x86_64	1.7-6.e16
sl	21 k		
perl-URI		noarch	1.40-2.e16
sl	116 k		
perl-XML-DOM		noarch	1.44-7.e16
sl	135 k		
perl-XML-Filter-BufferText		noarch	1.01-8.e16
sl	8.5 k		
perl-XML-LibXML		x86_64	1:1.70-5.e16
sl	363 k		
perl-XML-Namespacesupport		noarch	1.10-3.e16
sl	16 k		
perl-XML-Parser		x86_64	2.36-7.e16
sl	223 k		
perl-XML-RegExp		noarch	0.03-7.e16
sl	8.8 k		
perl-XML-SAX		noarch	0.96-7.e16
sl	77 k		
perl-XML-SAX-Writer		noarch	0.50-8.e16
sl	23 k		
perl-YAML-Syck		x86_64	1.07-4.e16
sl	74 k		
perl-libwww-perl		noarch	5.833-2.e16
sl	386 k		
policycoreutils-python		x86_64	2.0.83-19.24.e16
sl-security	339 k		
pulseaudio-libs		x86_64	0.9.21-13.e16
sl	461 k		
regexp		x86_64	1.5-4.4.e16
sl	104 k		
rhino		noarch	1.7-0.7.r2.2.e16
sl	777 k		
setools-libs		x86_64	3.3.7-4.e16
sl	399 k		
setools-libs-python		x86_64	3.3.7-4.e16
sl	221 k		
sinjdoc		x86_64	0.5-9.1.e16
sl	704 k		
tcl		x86_64	1:8.5.7-6.e16
sl	1.9 M		
tomcat6		noarch	6.0.24-52.e16_4
sl-security	87 k		
tomcat6-el-2.1-api		noarch	6.0.24-52.e16_4
sl-security	43 k		
tomcat6-jsp-2.1-api		noarch	6.0.24-52.e16_4
sl-security	80 k		
tomcat6-lib		noarch	6.0.24-52.e16_4
sl-security	2.8 M		
tomcat6-servlet-2.5-api		noarch	6.0.24-52.e16_4
sl-security	94 k		
transfer-fts		noarch	3.7.13-1
EMI.fts.sl6.x86_64	6.7 M		
tzdata-java		noarch	2012j-2.e16
sl-security	154 k		

util-c		x86_64	1.3.3-1.e16
EMI.fts.sl6.x86_64	22 k		
voms		x86_64	2.0.9-1.e16
EMI.fts.sl6.x86_64	136 k		
wsdl4j		noarch	1.5.2-7.8.e16
sl	156 k		
xml-commons-apis		x86_64	1.3.04-3.6.e16
sl	438 k		
xml-commons-resolver		x86_64	1.1-4.18.e16
sl	144 k		
yaim-fts		noarch	4.1.15-1
EMI.fts.sl6.x86_64	27 k		
Updating for dependencies:			
nspr		x86_64	4.9.2-0.e16_3.1
sl-security	111 k		
nss		x86_64	3.14.0.0-12.e16
sl-security	769 k		
nss-sysinit		x86_64	3.14.0.0-12.e16
sl-security	33 k		
nss-util		x86_64	3.14.0.0-2.e16
sl-security	61 k		
openldap		x86_64	2.4.23-26.e16_3.2
sl-security	261 k		
policycoreutils		x86_64	2.0.83-19.24.e16
sl-security	645 k		

Transaction Summary

=====

Install 119 Package(s)  
Upgrade 6 Package(s)

```
/usr/lib64/oracle/10.2.0.5/client/bin/sqlplus "XXX/XXX@XXX" @/etc/glite-data-transfer-fts/schema/oracle/oracle-schema.sql
/usr/lib64/oracle/10.2.0.5/client/bin/sqlplus "XXX/XXX@XXX"
@/var/lib/delegation-interface/schema/oracle/oracle-schema.sql
/usr/lib64/oracle/10.2.0.5/client/bin/sqlplus "XXX/XXX@XXX" @/etc/glite-data-transfer-fts/schema/oracle/fts_history_pack.sql
/usr/lib64/oracle/10.2.0.5/client/bin/sqlplus "XXX/XXX@XXX" @/etc/glite-data-transfer-fts/schema/oracle/fts_history_body_pack.sql
/usr/lib64/oracle/10.2.0.5/client/bin/sqlplus "XXX/XXX@XXX" @/etc/glite-data-transfer-fts/schema/oracle/fts_purge_pack.sql
/usr/lib64/oracle/10.2.0.5/client/bin/sqlplus "XXX/XXX@XXX" @/etc/glite-data-transfer-fts/schema/oracle/fts_purge_body_pack.sql
```

```
[root@cloud064 ~]# cat /etc/site-info.def
BDII_DELETE_DELAY="0"
```

```
ORACLE_LOCATION="/usr/lib64/oracle/10.2.0.5"
```

```
FTS_DBURL="jdbc:oracle:thin:@(XXX) "
FTS_DB_SQLPLUS_CONNECTSTRING="XXX"
FTS_DB_TYPE="ORACLE"
FTS_DB_USER="XXX"
FTS_DB_PASSWORD="XXX"
```

```
FTS_SERVER_URL="https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-fts"
VOS="cms dteam"
```

```
GROUPS_CONF="/etc/groups.conf"
USERS_CONF="/etc/users.conf"
```

```
SITE_BDII_HOST="site-bdii.gridpp.rl.ac.uk"
SITE_EMAIL="lcg-support@gridpp.rl.ac.uk"
SITE_LAT="51.5742"
```

```
SITE_LOC="Chilton, Oxfordshire, UK"
SITE_LONG="-1.3160"
SITE_NAME="RAL-LCG2"
```

```
VO_CMS_VOMSES="'cms lcg-voms.cern.ch 15002
/DC=ch/DC=cern/OU=computers/CN=lcg-voms.cern.ch cms' 'cms voms.cern.ch
15002 /DC=ch/DC=cern/OU=computers/CN=voms.cern.ch cms'"
VO_CMS_VOMS_CA_DN="'/DC=ch/DC=cern/CN=CERN Trusted Certification
Authority' '/DC=ch/DC=cern/CN=CERN Trusted Certification Authority'"
VO_CMS_VOMS_SERVERS="'vomss://voms.cern.ch:8443/voms/cms?/cms/'"
```

```
VO_DTEAM_VOMSES="'dteam lcg-voms.cern.ch 15004
/DC=ch/DC=cern/OU=computers/CN=lcg-voms.cern.ch dteam' 'dteam
voms.cern.ch 15004 /DC=ch/DC=cern/OU=computers/CN=voms.cern.ch dteam'
'dteam voms.hellasgrid.gr 15004
/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr dteam 24'
'dteam voms2.hellasgrid.gr 15004
/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms2.hellasgrid.gr dteam 24'"
VO_DTEAM_VOMS_CA_DN="'/DC=ch/DC=cern/CN=CERN Trusted Certification
Authority' '/DC=ch/DC=cern/CN=CERN Trusted Certification Authority'
'/C=GR/O=HellasGrid/OU=Certification Authorities/CN=HellasGrid CA
2006' '/C=GR/O=HellasGrid/OU=Certification Authorities/CN=HellasGrid
CA 2006'"
VO_DTEAM_VOMS_SERVERS="'vomss://voms.hellasgrid.gr:8443/voms/dteam?/dt
eam'"
```

```
[root@cloud064 ~]# /opt/glite/yaim/bin/yaim -c -s /etc/site-info.def -n
emi_fts2
WARNING:
WARNING:
*****
WARNING: Your siteinfo directory is world readable. This is generally a bad
idea
WARNING: as configuration files may contain passwords and other sensitive
information.
WARNING:
*****
WARNING:
INFO: Configuring HOST: cloud064.gridpp.rl.ac.uk
INFO: Using site configuration file: /etc/site-info.def
INFO:
#####

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.   /          ~ ~ /          8'   .8oo88.   8   8   8'   8
.   (/_          '===='       8   .8'   8.   8   8   Y   8
.   Y,-''-,Yy,-.,/          o8o  o8o   o88o  o8o  o8o   o8o
.   I_))_ I_))_

current working directory: /root
site-info.def date: Mar 17 21:00 /etc/site-info.def
yaim command: -c -s /etc/site-info.def -n emi_fts2
log file: /opt/glite/yaim/bin/./log/yaimlog
Sun Mar 17 21:35:44 GMT 2013 : /opt/glite/yaim/bin/yaim

Installed YAIM versions:
glite-yaim-bdii 4.3.11-1
glite-yaim-core 5.1.0-1
4.1.15-1

#####
```



```

INFO: The default location of the grid-env.(c)sh files will be:
/usr/libexec
INFO: Sourcing the utilities in /opt/glite/yaim/functions/utils
INFO: Detecting environment
INFO: Executing function: config_sysconfig_lcg_check
INFO: Executing function: config_host_certs_check
INFO: Executing function: config_vomsdir_check
INFO: Executing function: config_edgusers_check
INFO: Executing function: config_mkgridmap_check
INFO: Executing function: config_gip_fts_check
INFO: Executing function: config_bdii_5.2_check
INFO: Executing function: config_secure_tomcat_check
INFO: Detecting TOMCAT
INFO: Executing function: config_ldconf
INFO: config_ldconf: function not needed anymore, left empty waiting to be
removed
INFO: Executing function: config_sysconfig_edg
INFO: Executing function: config_sysconfig_lcg
INFO: Executing function: config_crl
INFO: Now updating the CRLs - this may take a few minutes...
Enabling periodic fetch-crl: [ OK ]
INFO: Executing function: config_host_certs
INFO: Executing function: config_vomsdir_setenv
INFO: Executing function: config_vomsdir
INFO: Executing function: config_edgusers
INFO: Executing function: config_mkgridmap_setenv
INFO: Executing function: config_mkgridmap
INFO: The grid-map file will also contain special users for VO CMS since
UNPRIVILEGED_MKGRIDMAP=no for the VO.
INFO: Adding ordinary users in the gridmap file since the VO is defined in
groups.conf
INFO: The grid-map file will also contain special users for VO DTEAM since
UNPRIVILEGED_MKGRIDMAP=no for the VO.
INFO: Adding ordinary users in the gridmap file since the VO is defined in
groups.conf
INFO: Now creating the grid-mapfile - this may take a few minutes...
INFO: Now creating the glite-data-transfer-submit-mapfile - this may take a
few minutes...
INFO: Executing function: config_check_oraclelibs
INFO: Executing function: config_gip_fts
INFO: Executing function: config_bdii_5.2
Stopping BDII update process: [ OK ]
Stopping BDII slapd: [ OK ]
Starting BDII slapd: [ OK ]
Starting BDII update process: [ OK ]
INFO: Executing function: config_secure_tomcat_setenv
INFO: Executing function: config_secure_tomcat
INFO: Stop tomcat in case it's running
Stopping tomcat6: [ OK ]
INFO: Copying hostcert to /etc/grid-security/tomcat-cert.pem for
tomcat:root.....
INFO: Copying hostkey to /etc/grid-security/tomcat-key.pem for
tomcat:root...
INFO: Configuring /etc/tomcat6/server.xml...
INFO: Copying trustmanager log4j properties to tomcat configuration
directory..
INFO: Linking log4j and bouncycastle jars to tomcat server lib directory..
INFO: Linking trustmanager jars to tomcat server lib directory...
INFO: Linking jakarta-commons-logging to tomcat server lib directory...
INFO: Defining JAVA_HOME in the Tomcat configuration file
INFO: Starting Tomcat
Starting tomcat6: [ OK ]
INFO: Executing function: config_FTS2_ws
INFO: Doing sanity check on site info definitions file...
INFO: FTS database type Oracle selected
WARNING: The owner account and the execution account are the same
WARNING: You can use FTS_DB_ADMIN_USER and FTS_DB_ADMIN_PASSWORD for the
owner account

```

```

WARNING: FTS_DB_USER and FTS_DB_PASSWORD should be a read/write only
account
INFO: Service administrator mapfile /etc/glite-data-transfer-manager-
mapfile already exists and is not empty. Not updating.
INFO: Copying Oracle JDBC jar file to tomcat lib directory...
INFO: Testing DB account and FTS schema...
INFO: The expected schema version is 3.5.0
INFO: ...schema OK.
INFO: Testing delegation schema...
INFO: ...schema OK.
INFO: Testing the history package...
INFO: ...schema OK.
INFO: Testing the purge package...
INFO: ...schema OK.
INFO: Making context file /etc/tomcat6/Catalina/localhost/glite-data-
transfer-fts.xml...
INFO: Replacing CATALINA_OPTS (if it exists) in the file
/etc/tomcat6/tomcat6.conf...
INFO: Adding LD_LIBRARY_PATH for the native JDBC driver in the file
/etc/tomcat6/tomcat6.conf...
INFO: Deleting tomcat work directory...
INFO: Deleting exploded web-apps directory for old webapp...
INFO: Installing log rotation for FTS (N.B. it's not a standard logrotate
script)...
INFO: /etc/services.xml already exists. Will not update!
INFO: Please ensure you have added a delegation service block (see
/tmp/glite-fts-add-delegation.services.xml)
INFO: Doing chkconfig for tomcat6...
INFO: Restarting Tomcat:
Stopping tomcat6: [FAILED]
Starting tomcat6: [ OK ]
INFO: Configuration Complete.
[ OK ]
INFO: YAIM terminated succesfully.

```

#### Installation/configuration of FTA host

```

[root@cloud067 yum.repos.d]# cat EMI.fts.sl6.x86_64.repo
# EGI Software Repository - REPO META (releaseId,repositoryId,repofileId) -
(4967,867,792)

```

```

[EMI.fts.sl6.x86_64]
name=EMI.fts.sl6.x86_64
baseurl=http://admin-repo.egi.eu/sw/unverified/umd-2.emi.fts.sl6.x86_64/2/2/9/
enabled=1
protect=1
priority=1
gpgcheck=1
gpgkey=http://emisoft.web.cern.ch/emisoft/dist/EMI/2/RPM-GPG-KEY-emi

```

Dependencies Resolved

```

=====
Package                               Arch                               Version
Repository                             Size
=====
Installing:
  emi-fts_oracle                       x86_64                             2.2.8-0.e16
EMI.fts.sl6.x86_64                     3.9 k
Installing for dependencies:
  CGSI-gSOAP                           x86_64                             1.3.5-2.e16
EMI.fts.sl6.x86_64                     38 k

```

activemq-cpp-library		x86_64	3.2.5-1.sl6
EMI.fts.sl6.x86_64	13 M		
agents-common		x86_64	1.1.7-1.el6
EMI.fts.sl6.x86_64	1.0 M		
apr		x86_64	1.3.9-
3.el6_1.2	sl		122 k
apr-util		x86_64	1.3.9-
3.el6_0.1	sl		86 k
boost		x86_64	1.41.0-
11.el6_1.2	sl		16 k
boost-date-time		x86_64	1.41.0-
11.el6_1.2	sl		37 k
boost-filesystem		x86_64	1.41.0-
11.el6_1.2	sl		43 k
boost-graph		x86_64	1.41.0-
11.el6_1.2	sl		79 k
boost-iostreams		x86_64	1.41.0-
11.el6_1.2	sl		36 k
boost-program-options		x86_64	1.41.0-
11.el6_1.2	sl		104 k
boost-python		x86_64	1.41.0-
11.el6_1.2	sl		122 k
boost-regex		x86_64	1.41.0-
11.el6_1.2	sl		474 k
boost-serialization		x86_64	1.41.0-
11.el6_1.2	sl		165 k
boost-signals		x86_64	1.41.0-
11.el6_1.2	sl		41 k
boost-system		x86_64	1.41.0-
11.el6_1.2	sl		23 k
boost-test		x86_64	1.41.0-
11.el6_1.2	sl		388 k
boost-thread		x86_64	1.41.0-
11.el6_1.2	sl		40 k
boost-wave		x86_64	1.41.0-
11.el6_1.2	sl		199 k
config-service		x86_64	2.6.10-1.el6
EMI.fts.sl6.x86_64	237 k		
cppunit		x86_64	1.12.1-
3.1.el6	sl		152 k
delegation-api-c		x86_64	2.1.3-1.el6
EMI.fts.sl6.x86_64	42 k		
delegation-cli		x86_64	2.1.4-1.el6
EMI.fts.sl6.x86_64	20 k		
edg-mkgridmap		noarch	4.0.0-1
EMI.fts.sl6.x86_64	27 k		
fetch-crl		noarch	3.0.8-1.el6
epel	45 k		
glib2-devel		x86_64	2.22.5-6.el6
sl	1.3 M		
glite-px-proxyrenewal		x86_64	1.3.25-5.el6
EMI.fts.sl6.x86_64	2.1 k		
glite-px-proxyrenewal-devel		x86_64	1.3.25-5.el6
EMI.fts.sl6.x86_64	6.0 k		
glite-px-proxyrenewal-libs		x86_64	1.3.25-5.el6
EMI.fts.sl6.x86_64	17 k		
glite-px-proxyrenewal-progs		x86_64	1.3.25-5.el6
EMI.fts.sl6.x86_64	30 k		
glite-yaim-bdii		noarch	4.3.11-1.el6
EMI.fts.sl6.x86_64	10 k		
glite-yaim-core		noarch	5.1.0-1.sl6
EMI.fts.sl6.x86_64	102 k		
globus-callout		x86_64	2.2-1.el6
epel	18 k		
globus-common		x86_64	14.7-1.el6
EMI.fts.sl6.x86_64	115 k		
globus-ftp-client		x86_64	7.4-1.el6
epel	95 k		

globus-ftp-control		x86_64	4.4-1.e16
epel	68 k		
globus-gass-copy		x86_64	8.6-1.e16
epel	35 k		
globus-gass-transfer		x86_64	7.2-1.e16
epel	40 k		
globus-gsi-callback		x86_64	4.4-1.e16
epel	39 k		
globus-gsi-cert-utils		x86_64	8.3-1.e16
epel	20 k		
globus-gsi-credential		x86_64	5.3-1.e16
epel	33 k		
globus-gsi-openssl-error		x86_64	2.1-2.e16
epel	17 k		
globus-gsi-proxy-core		x86_64	6.2-1.e16
epel	33 k		
globus-gsi-proxy-ssl		x86_64	4.1-2.e16
epel	17 k		
globus-gsi-sysconfig		x86_64	5.3-1.e16
epel	28 k		
globus-gss-assist		x86_64	8.6-1.e16
epel	33 k		
globus-gssapi-error		x86_64	4.1-2.e16
epel	14 k		
globus-gssapi-gsi		x86_64	10.7-1.e16
epel	56 k		
globus-io		x86_64	9.3-1.e16
epel	40 k		
globus-openssl-module		x86_64	3.2-1.e16
epel	14 k		
globus-usage		x86_64	3.1-2.e16
epel	17 k		
globus-xio		x86_64	3.3-1.e16
epel	160 k		
globus-xio-gsi-driver		x86_64	2.3-1.e16
epel	35 k		
globus-xio-popen-driver		x86_64	2.3-1.e16
epel	21 k		
gridftp-ifce		x86_64	2.3.0-0.e16
EMI.fts.sl6.x86_64	14 k		
gridsite-libs		x86_64	1.7.25-
1.emi2.e16	EMI.fts.sl6.x86_64		86 k
gsoap		x86_64	2.7.16-3.e16
epel	198 k		
is-interface		x86_64	1.14.0-0.e16
EMI.fts.sl6.x86_64	46 k		
libicu		x86_64	4.2.1-
9.1.e16_2	sl-security		4.9 M
libtool-ltdl		x86_64	2.2.6-
15.5.e16	sl		43 k
libxslt		x86_64	1.1.26-
2.e16_3.1	sl-security		451 k
log4cpp		x86_64	1.0-13.e16
sl	536 k		
mailcap		noarch	2.1.31-2.e16
sl	26 k		
msg-ifce		x86_64	1.0.2-1.e16
EMI.fts.sl6.x86_64	288 k		
myproxy-libs		x86_64	5.9-2.e16
epel	112 k		
perl-Authen-SASL		noarch	2.13-2.e16
sl	50 k		
perl-Compress-Raw-Zlib		x86_64	2.023-
119.e16_1.1	sl		66 k
perl-Compress-Zlib		x86_64	2.020-
119.e16_1.1	sl		42 k
perl-Convert-ASN1		noarch	0.22-1.e16
sl	42 k		

perl-Crypt-SSLeay		x86_64	0.57-16.e16
sl	138 k		
perl-Date-Manip		noarch	6.24-1.e16
sl	1.3 M		
perl-Digest-HMAC		noarch	1.01-22.e16
sl	21 k		
perl-Digest-SHA1		x86_64	2.12-2.e16
sl	48 k		
perl-GSSAPI		x86_64	0.26-5.e16
sl	63 k		
perl-HTML-Parser		x86_64	3.64-2.e16
sl	108 k		
perl-HTML-Tagset		noarch	3.20-4.e16
sl	15 k		
perl-IO-Compress-Base		x86_64	2.020-
119.e16_1.1	sl		65 k
perl-IO-Compress-Zlib		x86_64	2.020-
119.e16_1.1	sl		132 k
perl-IO-Socket-SSL		noarch	1.31-2.e16
sl	68 k		
perl-LDAP		noarch	1:0.40-1.e16
sl	353 k		
perl-Net-LibIDN		x86_64	0.12-3.e16
sl	34 k		
perl-Net-SSLeay		x86_64	1.35-9.e16
sl	172 k		
perl-TermReadKey		x86_64	2.30-13.e16
sl	30 k		
perl-Text-Iconv		x86_64	1.7-6.e16
sl	21 k		
perl-URI		noarch	1.40-2.e16
sl	116 k		
perl-XML-DOM		noarch	1.44-7.e16
sl	135 k		
perl-XML-Filter-BufferText		noarch	1.01-8.e16
sl	8.5 k		
perl-XML-LibXML		x86_64	1:1.70-5.e16
sl	363 k		
perl-XML-Namespacesupport		noarch	1.10-3.e16
sl	16 k		
perl-XML-Parser		x86_64	2.36-7.e16
sl	223 k		
perl-XML-RegExp		noarch	0.03-7.e16
sl	8.8 k		
perl-XML-SAX		noarch	0.96-7.e16
sl	77 k		
perl-XML-SAX-Writer		noarch	0.50-8.e16
sl	23 k		
perl-YAML-Syck		x86_64	1.07-4.e16
sl	74 k		
perl-libwww-perl		noarch	5.833-2.e16
sl	386 k		
python-ldap		x86_64	2.3.10-1.e16
sl	124 k		
sd2cache		x86_64	1.1.6-1.e16
EMI.fts.sl6.x86_64	12 k		
slrm-api-c		x86_64	1.2.3-1.e16
EMI.fts.sl6.x86_64	217 k		
slrm-util-cpp		x86_64	2.4.3-1.e16
EMI.fts.sl6.x86_64	1.2 M		
slrm2-api-c		x86_64	2.3.2-7.e16
EMI.fts.sl6.x86_64	1.0 M		
transfer-agents		x86_64	3.4.12-1.e16
EMI.fts.sl6.x86_64	3.1 M		
transfer-cli		x86_64	4.0.3-1.e16
EMI.fts.sl6.x86_64	1.0 M		
transfer-proxyrenewal		x86_64	1.0.3-1.e16
EMI.fts.sl6.x86_64	134 k		

transfer-url-copy		x86_64	4.1.6-1.el6
EMI.fts.sl6.x86_64	917 k		
util-c		x86_64	1.3.3-1.el6
EMI.fts.sl6.x86_64	22 k		
voms		x86_64	2.0.9-1.el6
EMI.fts.sl6.x86_64	136 k		
yaim-fts		noarch	4.1.15-1
EMI.fts.sl6.x86_64	27 k		

Transaction Summary

=====  
 Install 108 Package(s)  
 =====

```
[root@cloud066 ~]# cat /etc/site-info.def
BDII_DELETE_DELAY="0"
```

```
ORACLE_LOCATION="/usr/lib64/oracle/10.2.0.5"
```

```
FTS_DBURL="jdbc:oracle:thin:@(XXX) "
FTS_DB_SQLPLUS_CONNECTSTRING="XXX"
FTS_DB_TYPE="ORACLE"
FTS_DB_USER="XXX"
FTS_DB_PASSWORD="XXX"
```

```
BDII_FTS_URL="ldap://cloud064.gridpp.rl.ac.uk:2170/mds-vo-
name=resource,o=grid"
```

```
FTS_HOST_ALIAS="cloud064.gridpp.rl.ac.uk"
FTS_SERVER_URL="https://cloud064.gridpp.rl.ac.uk:8443/glite-data-
transfer-fts"
VOS="cms dteam"
```

```
BDII_HOST="lcgbdii.gridpp.rl.ac.uk"
```

```
SITE_BDII_HOST="site-bdii.gridpp.rl.ac.uk"
SITE_EMAIL="lcg-support@gridpp.rl.ac.uk"
SITE_LAT="51.5742"
SITE_LOC="Chilton, Oxfordshire, UK"
SITE_LONG="-1.3160"
SITE_NAME="RAL-LCG2"
```

```
VO_CMS_VOMSES="'cms lcg-voms.cern.ch 15002
/DC=ch/DC=cern/OU=computers/CN=lcg-voms.cern.ch cms' 'cms voms.cern.ch
15002 /DC=ch/DC=cern/OU=computers/CN=voms.cern.ch cms'"
VO_CMS_VOMS_CA_DN="'/DC=ch/DC=cern/CN=CERN Trusted Certification
Authority' '/DC=ch/DC=cern/CN=CERN Trusted Certification Authority'"
VO_CMS_VOMS_SERVERS="'vomss://voms.cern.ch:8443/voms/cms?/cms/'"
```

```
VO_DTEAM_VOMSES="'dteam lcg-voms.cern.ch 15004
/DC=ch/DC=cern/OU=computers/CN=lcg-voms.cern.ch dteam' 'dteam
voms.cern.ch 15004 /DC=ch/DC=cern/OU=computers/CN=voms.cern.ch dteam'
'dteam voms.hellasgrid.gr 15004
/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr dteam 24'
'dteam voms2.hellasgrid.gr 15004
/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms2.hellasgrid.gr dteam 24'"
VO_DTEAM_VOMS_CA_DN="'/DC=ch/DC=cern/CN=CERN Trusted Certification
Authority' '/DC=ch/DC=cern/CN=CERN Trusted Certification Authority'
'/C=GR/O=HellasGrid/OU=Certification Authorities/CN=HellasGrid CA
2006' '/C=GR/O=HellasGrid/OU=Certification Authorities/CN=HellasGrid
CA 2006'"
VO_DTEAM_VOMS_SERVERS="'vomss://voms.hellasgrid.gr:8443/voms/dteam?/dt
eam'"
```

```

FTA_MACHINES="1"

FTA_AGENTS_1="CMS DTEAM STAR-RALLCG2"
FTA_AGENTS_1_HOSTNAME="cloud066.gridpp.rl.ac.uk"

FTA_CMS="VOAGENT"
FTA_DTEAM="VOAGENT"

FTA_STAR_RALLCG2="URLCOPY"

FTA_GLOBAL_DBTYPE="ORACLE"
FTA_GLOBAL_DB_CONNECTSTRING="XXX"
FTA_GLOBAL_DB_PASSWORD="XXX"
FTA_GLOBAL_DB_USER="XXX"

PX_HOST="lcgrbp01.gridpp.rl.ac.uk"

FTS_MSG_ACTIVE="true"
FTS_MSG_BROKER="gridmsg107.cern.ch:6163"
FTS_MSG_COMPLETE="transfer.fts_monitoring_complete"
FTS_MSG_CRON="transfer.fts_monitoring_queue_status"
FTS_MSG_ENABLELOG="true"
FTS_MSG_ENABLEMSGLOG="true"
FTS_MSG_FQDN="cloud064.gridpp.rl.ac.uk"
FTS_MSG_LOGFILEDIR="/var/log/glite/"
FTS_MSG_LOGFILENAME="msg.log"
FTS_MSG_PASSWORD="XXX"
FTS_MSG_START="transfer.fts_monitoring_start"
FTS_MSG_TOPIC="true"
FTS_MSG_TTL="24"
FTS_MSG_USERNAME="XXX"
FTS_MSG_USE_BROKER_CREDENTIALS="true"

GLITE_SD_SERVICES_XML="/etc/services.xml"

[root@cloud066 ~]# /opt/glite/yaim/bin/yaim -c -s /etc/site-info.def -
n emi_fta2
WARNING:
WARNING:
*****
*****
WARNING: Your siteinfo directory is world readable. This is
generally a bad idea
WARNING: as configuration files may contain passwords and other
sensitive information.
WARNING:
*****
*****
WARNING:
INFO: Configuring HOST: cloud066.gridpp.rl.ac.uk
INFO: Using site configuration file: /etc/site-info.def
INFO:

#####

.          /'.-.' )
.   yA,-"-,( ,m,:/ )   .oo.   oo   o   ooo o.
.oo
.   /   .-Y a   a Y-.   8. .8'   8'8.   8   8b   d'8

```

```
o8o . / ~ ~ / 8' .8oo88. 8 8 8' 8
. (_/ '====' 8 .8' 8. 8 8 Y 8
. 'Y,-''-,Yy,-.,/ o8o o8o o88o o8o o8o
. I_))_ I_))_)
```

```
current working directory: /root
site-info.def date: Mar 17 21:41 /etc/site-info.def
yaim command: -c -s /etc/site-info.def -n emi_fta2
log file: /opt/glite/yaim/bin/./log/yaimlog
Sun Mar 17 21:41:53 GMT 2013 : /opt/glite/yaim/bin/yaim
```

```
Installed YAIM versions:
glite-yaim-bdii 4.3.11-1
glite-yaim-core 5.1.0-1
4.1.15-1
```

```
#####
INFO: The default location of the grid-env.(c)sh files will be:
/usr/libexec
INFO: Sourcing the utilities in /opt/glite/yaim/functions/utils
INFO: Detecting environment
INFO: Executing function: config_edgusers_check
INFO: Executing function: config_host_certs_check
INFO: Executing function: config_sysconfig_lcg_check
INFO: Executing function: config_sd2cache_check
INFO: Executing function: config_msg_check
INFO: Executing function: config_edgusers
INFO: Executing function: config_host_certs
INFO: Executing function: config_crl
INFO: Now updating the CRLs - this may take a few minutes...
Enabling periodic fetch-crl: [ OK ]
INFO: Executing function: config_ldconf
INFO: config_ldconf: function not needed anymore, left empty waiting
to be removed
INFO: Executing function: config_check_oraclelibs
INFO: Executing function: config_sysconfig_edg
INFO: Executing function: config_sysconfig_globus
INFO: Executing function: config_sysconfig_lcg
INFO: Executing function: config_FTA2_agents
INFO: FTA database type Oracle selected
INFO: Site definition file contains definitions for FTA agent server
1 on host cloud066.gridpp.rl.ac.uk
INFO: Running basic sanity check on site definition file...
INFO: ... file looks OK.
INFO: Copying hostcert to /etc/grid-security/glite-data-transfer-
agents-cert.pem for :root.....
INFO: Copying hostkey to /etc/grid-security/glite-data-transfer-
agents-key.pem for :root...
INFO: This hostname is: cloud066.gridpp.rl.ac.uk
INFO: This machine is going to be configured as server: 1
INFO: The following agents will be configured on this server:
INFO: CMS of type VOAGENT
INFO: DTEAM of type VOAGENT
INFO: STAR-RALLCG2 of type URLCOPY
INFO: Making temporary config directory as /tmp/tmp.EeeKy11884
INFO: Writing input file for the global defaults to temporary file:
/tmp/tmp.EeeKy11884/global.config.properties
```



```
ln: creating symbolic link `/etc/cron.hourly/glite-sd2cache-cron' to
`/etc/cron.hourly/glite-sd2cache-cron': File exists
INFO: Configuring agent CMS of type VOAGENT...
INFO: Agent CMS uses template file: /usr/share/config/glite-data-
transfer-agents/glite-transfer-vo-agent-python-oracle.config.xml
INFO: This is the default template file for this agent type.
INFO: New agent type VOAGENT used. Creating the default generator
config files for it.
INFO: Writing generator input file for agent type VOAGENT to
temporary file:
/tmp/tmp.EeeKy11884/agenttype.VOAGENT.config.properties
INFO: Agent type VOAGENT overrides some defaults with the following
variables:
    FTA_TTYPEDEFAULT_VOAGENT_ACTIONS_RETRYMODULE
FTA_TTYPEDEFAULT_VOAGENT_ACTIONS_RETRYPARAMS
FTA_TTYPEDEFAULT_VOAGENT_PYTHON_PYTHONPATH
INFO: Generating instance configuration...
INFO: No instance variables changed for this agent. Defaults will
be used.
INFO: Logfile: /tmp/tmp.EeeKy11884/glite-transfer-vo-agent-CMS.log-
properties
INFO: Config: /tmp/tmp.EeeKy11884/glite-transfer-vo-agent-
CMS.properties.xml
INFO: Configuring agent DTEAM of type VOAGENT...
INFO: Agent DTEAM uses template file: /usr/share/config/glite-data-
transfer-agents/glite-transfer-vo-agent-python-oracle.config.xml
INFO: This is the default template file for this agent type.
INFO: This agent type has already been used in the configuration.
Re-using agent type configuration.
INFO: Generating instance configuration...
INFO: No instance variables changed for this agent. Defaults will
be used.
INFO: Logfile: /tmp/tmp.EeeKy11884/glite-transfer-vo-agent-
DTEAM.log-properties
INFO: Config: /tmp/tmp.EeeKy11884/glite-transfer-vo-agent-
DTEAM.properties.xml
INFO: Configuring agent STAR-RALLCG2 of type URLCOPY...
INFO: Agent STAR-RALLCG2 uses template file:
/usr/share/config/glite-data-transfer-agents/glite-transfer-channel-
agent-urlcopy-oracle.config.xml
INFO: This is the default template file for this agent type.
INFO: New agent type URLCOPY used. Creating the default generator
config files for it.
INFO: Writing generator input file for agent type URLCOPY to
temporary file:
/tmp/tmp.EeeKy11884/agenttype.URLCOPY.config.properties
INFO: Agent type URLCOPY does not override any defaults.
INFO: Generating instance configuration...
INFO: No instance variables changed for this agent. Defaults will
be used.
INFO: Logfile: /tmp/tmp.EeeKy11884/glite-transfer-channel-agent-
urlcopy-STAR-RALLCG2.log-properties
INFO: Config: /tmp/tmp.EeeKy11884/glite-transfer-channel-agent-
urlcopy-STAR-RALLCG2.properties.xml
INFO: Scanning existing configuration...
INFO: There are 0 existing agents.
INFO:
    New agents that are being defined on this server:
INFO: CMS
INFO: DTEAM
INFO: STAR-RALLCG2
```

```

INFO:
    Copied configuration successfully to directory:
    /etc/glite-data-transfer-agents.d/

INFO: Wrote daemon sysconfig script to /etc/sysconfig/glite-data-
transfer-agents...
INFO: Linked SysV script from /etc/init.d/glite-data-transfer-
agents to /etc/init.d/transfer-agents...
INFO: Ckconfig'd transfer-agents on ...

INFO: Using existing /etc/logrotate.d/glite-data-transfer-agents
script ...
INFO: Executing function: config_sd2cache
INFO: Editing /etc/glite-sd2cache-cron.conf
INFO: Check if glite-sd2cache init.d script exists
INFO: glite-sd2cache init.d exists start it
INFO: Executing function: config_msg
INFO: Editing /etc/fts-msg-monitoring.conf
INFO: Check if glite-msg-cron init.d script exists
INFO: glite-msg-cron init.d does not exist
INFO: Maybe a TARUI installation, exiting
INFO: Check if glite-msg-bulk init.d script exists
INFO: glite-msg-bulk init.d exists start it
INFO: Configuration Complete.
[ OK ]
INFO: YAIM terminated succesfully.

```

Test service control

```

[root@cloud066 ~]# service glite-data-transfer-agents status
Service glite-transfer-channel-agent-urlcopy-STAR-RALLCG2 status is running
Service glite-transfer-vo-agent-CMS status is running
Service glite-transfer-vo-agent-DTEAM status is running
[root@cloud066 ~]# service glite-data-transfer-agents start
Starting Service glite-transfer-channel-agent-urlcopy-STAR-RALLCG2 [FAILED]
An instance of the service is already running
Starting Service glite-transfer-vo-agent-CMS [FAILED]
An instance of the service is already running
Starting Service glite-transfer-vo-agent-DTEAM [FAILED]
An instance of the service is already running
[root@cloud066 ~]# service glite-data-transfer-agents stop
Stopping Service glite-transfer-channel-agent-urlcopy-STAR-RALLCG2 [ OK ]
Stopping Service glite-transfer-vo-agent-CMS [ OK ]
Stopping Service glite-transfer-vo-agent-DTEAM [ OK ]
[root@cloud066 ~]# service glite-data-transfer-agents status
Service glite-transfer-channel-agent-urlcopy-STAR-RALLCG2 status is stopped
Service glite-transfer-vo-agent-CMS status is stopped
Service glite-transfer-vo-agent-DTEAM status is stopped
[root@cloud066 ~]# service glite-data-transfer-agents stop
Stopping Service glite-transfer-channel-agent-urlcopy-STAR-RALLCG2 [FAILED]
No process running
Stopping Service glite-transfer-vo-agent-CMS [FAILED]
No process running
Stopping Service glite-transfer-vo-agent-DTEAM [FAILED]
No process running
[root@cloud066 ~]# service glite-data-transfer-agents start
Starting Service glite-transfer-channel-agent-urlcopy-STAR-RALLCG2 [ OK ]
Starting Service glite-transfer-vo-agent-CMS [ OK ]
Starting Service glite-transfer-vo-agent-DTEAM [ OK ]

```

veto file is empty:

```

[root@cloud064 ~]# cat /etc/glite-data-transfer-veto-mapfile

```

```
[root@cloud064 ~]#
```

Transfers can be submitted:

```
-bash-3.2$ glite-transfer-submit -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/FileTransfer
srm://stormfel.pi.infn.it:8444/srm/managerv2?SFN=/cms/store/PhEDEx_LoadTest07/LoadTest07_T2_Pisa_6D srm://srm-
cms.gridpp.rl.ac.uk:8443/srm/managerv2?SFN=/castor/ads.rl.ac.uk/prod/c
ms/store/PhEDEx_LoadTest07/LoadTest07_Debug_Pisa/RAL/306/TestFile05
5f9dc7c2-8fe3-11e2-a578-864ebceb8739
```

Add my DN to the veto file, in order to ban myself:

```
[root@cloud064 ~]# echo "\"/C=UK/O=eScience/OU=CLRC/L=RAL/CN=andrew
lahiff\" null" > /etc/glite-data-transfer-veto-mapfile
```

Check that transfers aren't accepted:

```
-bash-3.2$ glite-transfer-submit -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/FileTransfer
srm://stormfel.pi.infn.it:8444/srm/managerv2?SFN=/cms/store/PhEDEx_LoadTest07/LoadTest07_T2_Pisa_6D srm://srm-
cms.gridpp.rl.ac.uk:8443/srm/managerv2?SFN=/castor/ads.rl.ac.uk/prod/c
ms/store/PhEDEx_LoadTest07/LoadTest07_Debug_Pisa/RAL/306/TestFile06
submit: transferSubmit: You are not authorised to submit jobs to this
service
```

Unban my DN:

```
[root@cloud064 ~]# rm -f /etc/glite-data-transfer-veto-mapfile ; touch
/etc/glite-data-transfer-veto-mapfile
```

Check that I can submit transfers successfully:

```
-bash-3.2$ glite-transfer-submit -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/FileTransfer
srm://stormfel.pi.infn.it:8444/srm/managerv2?SFN=/cms/store/PhEDEx_LoadTest07/LoadTest07_T2_Pisa_6D srm://srm-
cms.gridpp.rl.ac.uk:8443/srm/managerv2?SFN=/castor/ads.rl.ac.uk/prod/c
ms/store/PhEDEx_LoadTest07/LoadTest07_Debug_Pisa/RAL/306/TestFile06
024b49c3-8fe4-11e2-a578-864ebceb8739
```

Ensure that my DN is included in the submit mapfile:

```
[root@cloud064 ~]# cat /etc/glite-data-transfer-submit-mapfile
"/C=UK/O=eScience/OU=CLRC/L=RAL/CN=andrew lahiff" cms
```

Check that I can submit transfers:

```
-bash-3.2$ glite-transfer-submit -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/FileTransfer
srm://stormfel.pi.infn.it:8444/srm/managerv2?SFN=/cms/store/PhEDEx_LoadTest07/LoadTest07_T2_Pisa_6D srm://srm-
cms.gridpp.rl.ac.uk:8443/srm/managerv2?SFN=/castor/ads.rl.ac.uk/prod/c
ms/store/PhEDEx_LoadTest07/LoadTest07_Debug_Pisa/RAL/306/TestFile07
abd00c14-8fe4-11e2-a578-864ebceb8739
```

Remove myself from the submit mapfile:

```
[root@cloud064 ~]# rm -f /etc/glite-data-transfer-submit-mapfile;
touch /etc/glite-data-transfer-submit-mapfile
```

Check that I can't submit transfers:

```
-bash-3.2$ glite-transfer-submit -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/FileTransfer
srm://stormfel.pi.infn.it:8444/srm/managerv2?SFN=/cms/store/PhEDEx_Lo
adTest07/LoadTest07_T2_Pisa_6D srm://srm-
cms.gridpp.rl.ac.uk:8443/srm/managerv2?SFN=/castor/ads.rl.ac.uk/prod/c
ms/store/PhEDEx_LoadTest07/LoadTest07_Debug_Pisa/RAL/306/TestFile09
submit: transferSubmit: You are not authorised to submit jobs to this
service
```

Check that a new file transfer job can be created.

```
-bash-3.2$ glite-transfer-submit -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/FileTransfer
srm://stormfel.pi.infn.it:8444/srm/managerv2?SFN=/cms/store/PhEDEx_Lo
adTest07/LoadTest07_T2_Pisa_6D srm://srm-
cms.gridpp.rl.ac.uk:8443/srm/managerv2?SFN=/castor/ads.rl.ac.uk/prod/c
ms/store/PhEDEx_LoadTest07/LoadTest07_Debug_Pisa/RAL/306/TestFile100
f2c18a6b-8fec-11e2-a578-864ebceb8739
```

Check status of job.

```
-bash-3.2$ glite-transfer-status -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/FileTransfer f2c18a6b-8fec-11e2-a578-864ebceb8739
Active
```

Cancel job.

```
-bash-3.2$ glite-transfer-cancel -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/FileTransfer f2c18a6b-8fec-11e2-a578-864ebceb8739
```

Check status of job

```
-bash-3.2$ glite-transfer-status -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/FileTransfer f2c18a6b-8fec-11e2-a578-864ebceb8739
Canceling
```

Check status of job a bit later:

```
-bash-3.2$ glite-transfer-status -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/FileTransfer f2c18a6b-8fec-11e2-a578-864ebceb8739
Canceled
```

Check that users can create transfer jobs and that they are executed correctly.

```
-bash-3.2$ cat transfers
srm://heplnx204.pp.rl.ac.uk:8443/srm/managerv2?SFN=/pnfs/pp.rl.ac.uk/d
ata/cms/store/PhEDEx_LoadTest07/LoadTest07_RutherfordPPD/LoadTest07_Ru
```

```
therfordPPD_31 srm://srm-
cms.gridpp.rl.ac.uk:8443/srm/managerv2?SFN=/castor/ads.rl.ac.uk/prod/c
ms/store/PhEDEx_LoadTest07/LoadTest07_Debug_RutherfordPPD/RAL/2041/Tes
t0010
srm://heplnx204.pp.rl.ac.uk:8443/srm/managerv2?SFN=/pnfs/pp.rl.ac.uk/d
ata/cms/store/PhEDEx_LoadTest07/LoadTest07_RutherfordPPD/LoadTest07_Ru
therfordPPD_31 srm://srm-
cms.gridpp.rl.ac.uk:8443/srm/managerv2?SFN=/castor/ads.rl.ac.uk/prod/c
ms/store/PhEDEx_LoadTest07/LoadTest07_Debug_RutherfordPPD/RAL/2041/Tes
t0011
srm://heplnx204.pp.rl.ac.uk:8443/srm/managerv2?SFN=/pnfs/pp.rl.ac.uk/d
ata/cms/store/PhEDEx_LoadTest07/LoadTest07_RutherfordPPD/LoadTest07_Ru
therfordPPD_31 srm://srm-
cms.gridpp.rl.ac.uk:8443/srm/managerv2?SFN=/castor/ads.rl.ac.uk/prod/c
ms/store/PhEDEx_LoadTest07/LoadTest07_Debug_RutherfordPPD/RAL/2041/Tes
t0012
```

```
-bash-3.2$ glite-transfer-submit -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/FileTransfer -f transfers
dd26455c-8fed-11e2-a578-864ebceb8739
```

Check that each file was transferred successfully

```
-bash-3.2$ glite-transfer-status -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/FileTransfer -l dd26455c-8fed-11e2-a578-864ebceb8739
Finished
Source:
srm://heplnx204.pp.rl.ac.uk:8443/srm/managerv2?SFN=/pnfs/pp.rl.ac.uk/d
ata/cms/store/PhEDEx_LoadTest07/LoadTest07_RutherfordPPD/LoadTest07_Ru
therfordPPD_31
Destination: srm://srm-
cms.gridpp.rl.ac.uk:8443/srm/managerv2?SFN=/castor/ads.rl.ac.uk/prod/c
ms/store/PhEDEx_LoadTest07/LoadTest07_Debug_RutherfordPPD/RAL/2041/Tes
t0010
State: Finished
Retries: 0
Reason: (null)
Duration: 42

Source:
srm://heplnx204.pp.rl.ac.uk:8443/srm/managerv2?SFN=/pnfs/pp.rl.ac.uk/d
ata/cms/store/PhEDEx_LoadTest07/LoadTest07_RutherfordPPD/LoadTest07_Ru
therfordPPD_31
Destination: srm://srm-
cms.gridpp.rl.ac.uk:8443/srm/managerv2?SFN=/castor/ads.rl.ac.uk/prod/c
ms/store/PhEDEx_LoadTest07/LoadTest07_Debug_RutherfordPPD/RAL/2041/Tes
t0011
State: Finished
Retries: 0
Reason: (null)
Duration: 47

Source:
srm://heplnx204.pp.rl.ac.uk:8443/srm/managerv2?SFN=/pnfs/pp.rl.ac.uk/d
ata/cms/store/PhEDEx_LoadTest07/LoadTest07_RutherfordPPD/LoadTest07_Ru
therfordPPD_31
Destination: srm://srm-
cms.gridpp.rl.ac.uk:8443/srm/managerv2?SFN=/castor/ads.rl.ac.uk/prod/c
```

ms/store/PhEDEx\_LoadTest07/LoadTest07\_Debug\_RutherfordPPD/RAL/2041/Tes  
t0012

```
State:      Finished
Retries:    0
Reason:     (null)
Duration:   42
```

List available channels.

```
[root@cloud066 ~]# glite-transfer-channel-list -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement
STAR-RALLCG2
```

Create transfer channel between two valid sites.

```
[root@cloud066 ~]# glite-transfer-channel-add -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement FNAL-RALLCG2 USCMS-FNAL-WC1 RAL-LCG2
```

List available channels.

```
[root@cloud066 ~]# glite-transfer-channel-list -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagementSTAR-RALLCG2
FNAL-RALLCG2
```

Set channel configuration.

```
root@cloud066 ~]# glite-transfer-channel-set -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement -f 20 -T 10 FNAL-RALLCG2
[root@cloud066 ~]# glite-transfer-channel-setvoshare -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement FNAL-RALLCG2 cms 100
```

Show channel configuration.

```
[root@cloud066 ~]# glite-transfer-channel-list -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement FNAL-RALLCG2
Channel: FNAL-RALLCG2
Between: USCMS-FNAL-WC1 and RAL-LCG2
State: Active
Contact: (null)
Bandwidth: 0
Nominal throughput: 0
Number of files: 20, streams: 10
Number of VO shares: 1
VO 'cms' share is: 100
```

Drop channel.

```
[root@cloud066 ~]# glite-transfer-channel-drop -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement FNAL-RALLCG2
drop: Cannot drop channel - the channel still has job information on
it. Please archive the job information before dropping the channel.
[root@cloud066 ~]# glite-transfer-channel-setvoshare -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement FNAL-RALLCG2 cms -- -1
```

```
[root@cloud066 ~]# glite-transfer-channel-drop -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement FNAL-RALLCG2
[root@cloud066 ~]#
```

List available channels.

```
[root@cloud066 ~]# glite-transfer-channel-list -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagementSTAR-RALLCG2
```

Add user as manager of a channel.

```
[root@cloud066 ~]# glite-transfer-channel-addmanager -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement STAR-RALLCG2
"/C=UK/O=eScience/OU=CLRC/L=RAL/CN=andrew lahiff"
```

Check that privileged operations can be performed.

```
-bash-3.2$ glite-transfer-channel-list -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement STAR-RALLCG2
Channel: STAR-RALLCG2
Between: * and RAL-LCG2
State: Active
Contact: (null)
Bandwidth: 0
Nominal throughput: 0
Number of files: 20, streams: 10
Number of VO shares: 2
VO 'cms' share is: 95
VO 'dteam' share is: 5
-bash-3.2$ glite-transfer-channel-set -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement -f 50 -T 10 STAR-RALLCG2
-bash-3.2$ glite-transfer-channel-setvoshare -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement STAR-RALLCG2 cms 80
-bash-3.2$ glite-transfer-channel-setvoshare -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement STAR-RALLCG2 dteam 20
-bash-3.2$ glite-transfer-channel-list -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement STAR-RALLCG2
Channel: STAR-RALLCG2
Between: * and RAL-LCG2
State: Active
Contact: (null)
Bandwidth: 0
Nominal throughput: 0
Number of files: 50, streams: 10
Number of VO shares: 2
VO 'cms' share is: 80
VO 'dteam' share is: 20
```

List channel managers.

```
-bash-3.2$ glite-transfer-channel-listmanagers -s
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-
fts/services/ChannelManagement STAR-RALLCG2
```

```
/C=UK/O=eScience/OU=CLRC/L=RAL/CN=andrew lahiff
```

Remove channel manager.

```
[root@cloud066 ~]# glite-transfer-channel-removemanager -s  
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-  
fts/services/ChannelManagement STAR-RALLCG2  
"/C=UK/O=eScience/OU=CLRC/L=RAL/CN=andrew lahiff"
```

Check that privileged operations cannot be performed.

```
-bash-3.2$ glite-transfer-channel-setvoshare -s  
https://cloud064.gridpp.rl.ac.uk:8443/glite-data-transfer-  
fts/services/ChannelManagement STAR-RALLCG2 cms 40  
setVOSshare: You are not authorised for channel management upon this  
service
```



**Not applicable Quality Criteria**

**Specific Functional Tests to be repeated in SR:**

Test number	Description	Motivation

**Specific Non-functional tests (Scalability, etc...) to be repeated in SR:**

Test number	Description	Motivation

**Comments for UMD QC definition (TSA2.2):**

- Review criteria xxxx
- Add criteria xxxx

**Comments for SR (TSA1.3):**

**Comments for DMSU (TSA2.5):**

**Comments for TP:**