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**Forschungszentrum Karlsruhe**  
in der Helmholtz-Gemeinschaft

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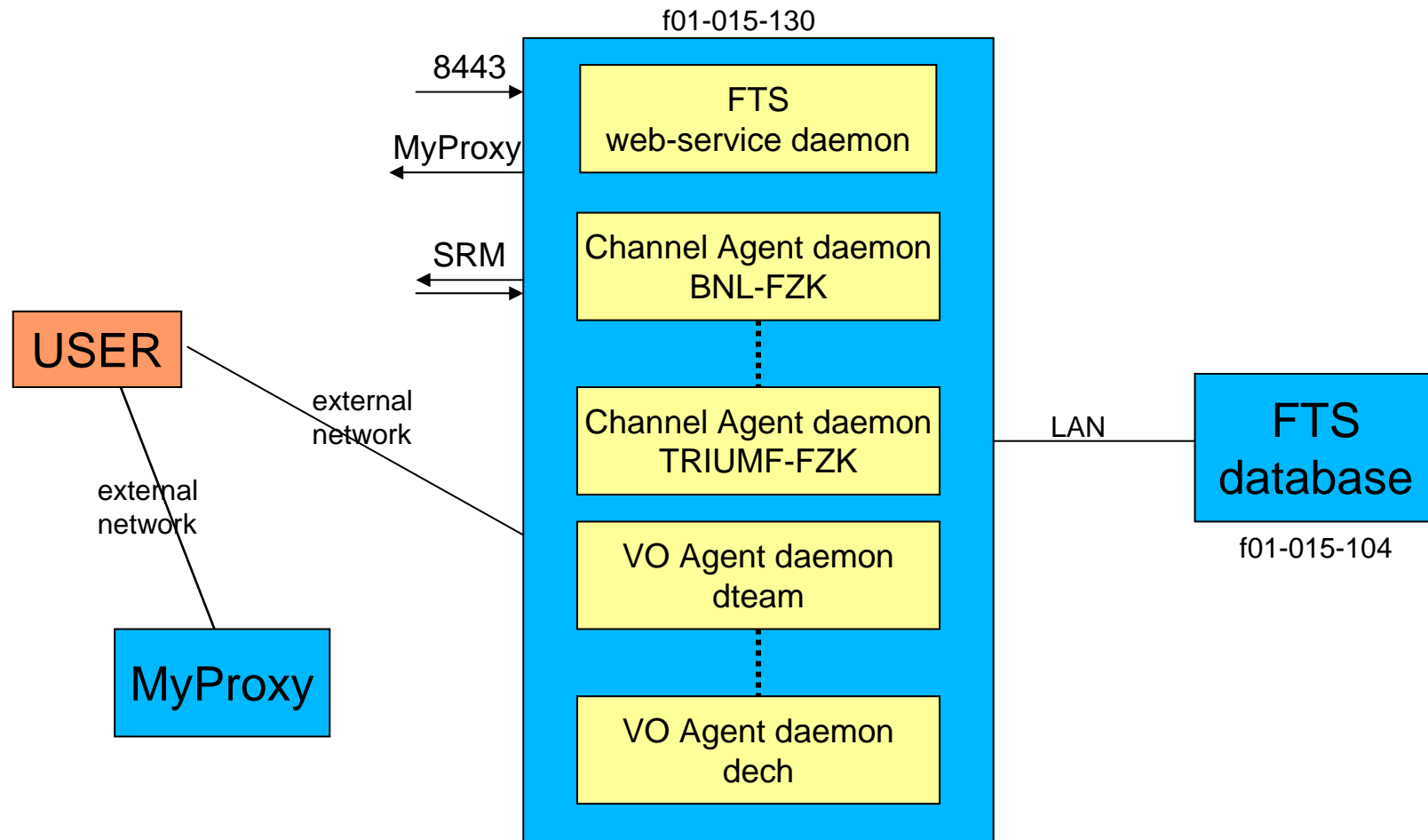
# FTS usage at GridKa

Forschungszentrum Karlsruhe GmbH  
Institute for Scientific Computing  
P.O. Box 3640  
D-76021 Karlsruhe, Germany

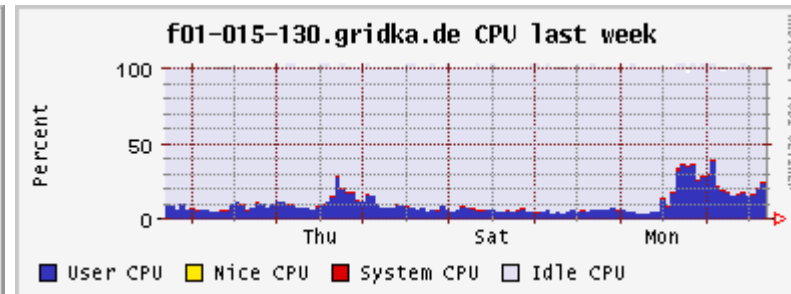
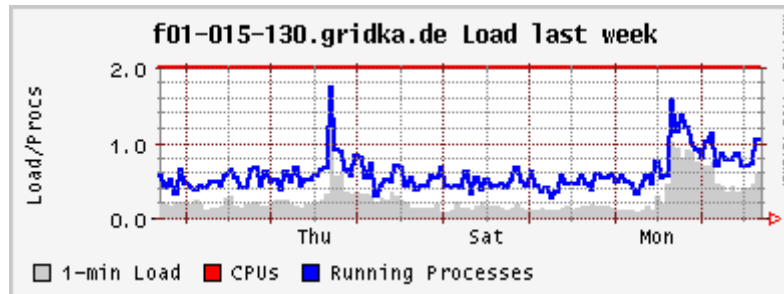
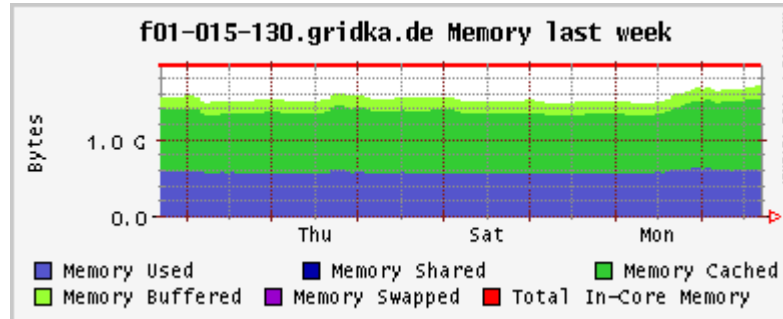
Dr. Silke Halstenberg

<http://www.gridka.de>

# FTS deployment at GridKa



- Basic deployment: all daemons on a dual-Xeon machine



- Recommendation for a Tier1-Center is to have the daemons on more than one machine
  - e.g. one machine for the web-service, one for channel agents and another machine for the VO agents

## FTS server configuration

- 29 channels (19 STAR-channels): every channel is used by 1 to 5 VOs
- Up to 5 channel manager for each channel
- Up to 4 VO manager per VO
- **Some users want dedicated channels instead of STAR-channels**

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GridKa FTS server fts-fzk.gridka.de

## Channel parameters

Channel	State	#Files	#Streams	VO-Shares
BNL-FZK	Active	10	10	dteam:50 atlas:50
FNAL-FZK	Active	10	10	dteam:20 cms:20
IN2P3-FZK	Active	10	10	lhcb:50 cms:50 dteam:50 atlas:50
INFNT1-FZK	Active	10	10	cms:50 dteam:50 lhcb:50 atlas:50
NDGFT1-FZK	Active	10	1	dteam:50
PIC-FZK	Active	5	5	dteam:50 lhcb:50 cms:50
RAL-FZK	Active	10	10	dteam:50 lhcb:50 cms:50 atlas:50
SARA-FZK	Active	10	10	dteam:50 atlas:50 lhcb:50
STAR-CSCS	Active	5	1	dteam:25 atlas:25 cms:25 lhcb:25
STAR-CYFRONET	Active	2	10	dteam:50 atlas:50 cms:50
STAR-DESY	Active	10	10	dteam:30 atlas:35 cms:35
STAR-DESYZN	Active	2	10	dteam:30 atlas:35 cms:35
STAR-FZK	Active	10	10	alice:20 lhcb:20 dteam:20 cms:20 atlas:20
STAR-GSI	Active	20	5	dteam:50 alice:50 dech:50
STAR-IHEP	Active	5	5	dteam:50 alice:50
STAR-ITEP	Active	5	5	dteam:50 alice:50 atlas:0
STAR-JINR	Active	5	5	dteam:50 alice:50
STAR-PNPI	Active	5	5	alice:50 dteam:50
STAR-POZNAN	Active	5	5	dteam:50 alice:50 atlas:50
STAR-PRAGUE	Active	2	10	dteam:100 alice:100 atlas:100
STAR-RRCKI	Active	5	5	alice:50 dteam:50
STAR-RWTHAACHEN	Active	5	5	cms:50 dteam:50
STAR-SINP	Active	5	5	dteam:30 alice:35 cms:35
STAR-SPBSU	Active	5	5	dteam:50 alice:50
STAR-TROITSKINR	Active	5	5	dteam:50 alice:50
STAR-UNIFREIBURG	Active	5	5	dteam:50 atlas:50
STAR-UNIWUPPERTAL	Active	5	5	atlas:50 dteam:50
TAIWAN-FZK	Active	10	10	dteam:20 cms:20 atlas:20 alice:20 lhcb:20
TRIUMF-FZK	Active	10	10	dteam:50 atlas:50

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## Channel managers

BNL-FZK

FNAL-FZK

IN2P3-FZK

```
/C=CH/O=CERN/OU=GRID/CN=Roberto Santinelli 7205  
/C=CH/O=CERN/OU=GRID/CN=Roberto Santinelli 7735  
/C=ES/O=DATAGRID-ES/O=PIC/CN=Francisco Martinez  
/C=ES/O=DATAGRID-ES/O=PIC/CN=Gonzalo Merino  
/C=ES/O=DATAGRID-ES/O=PIC/CN=Gonzalo Merino DTEAM
```

INFNT1-FZK

```
/C=CH/O=CERN/OU=GRID/CN=Roberto Santinelli 7502  
/C=CH/O=CERN/OU=GRID/CN=Roberto Santinelli 7735  
/C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Giuseppe Lo Re/Email=giuseppe.lore@cnaf.infn.it  
/C=UK/O=eScience/OU=Edinburgh/L=NeSC/CN=andrew cameron smith
```

NDGFT1-FZK

## VO managers

alice

atlas

```
/C=PL/O=GRID/O=INP/CN=Andrzej Olszewski  
/DC=cz/DC=cesnet-ca/O=Institute of Physics of the Academy of Sciences of the CR/CN=Jiri Chudoba  
/O=GermanGrid/OU=LMU/CN=Cedric Serfon  
/O=GermanGrid/OU=LMU/CN=John Kennedy
```

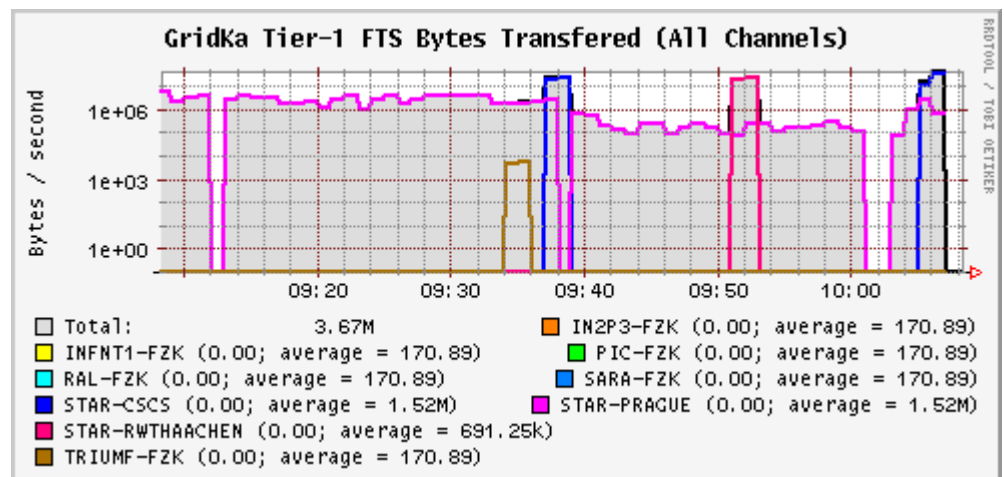
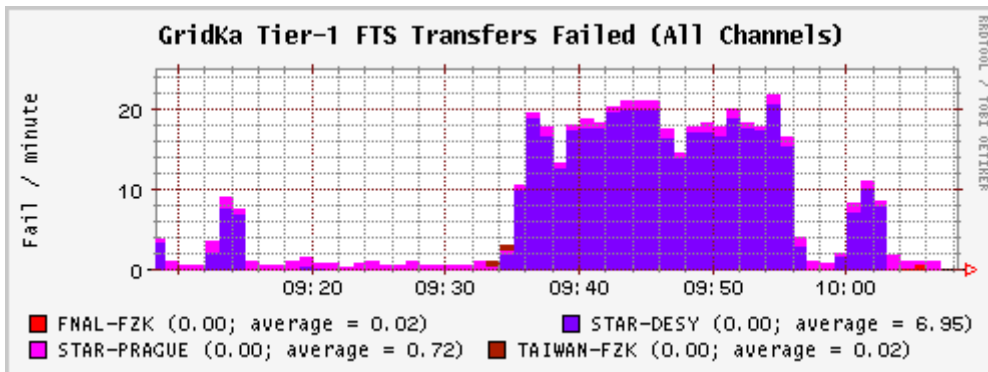
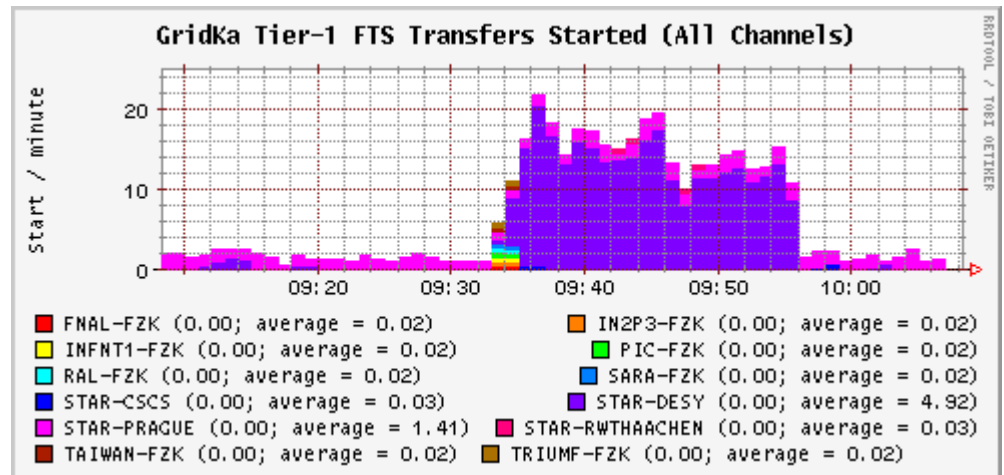
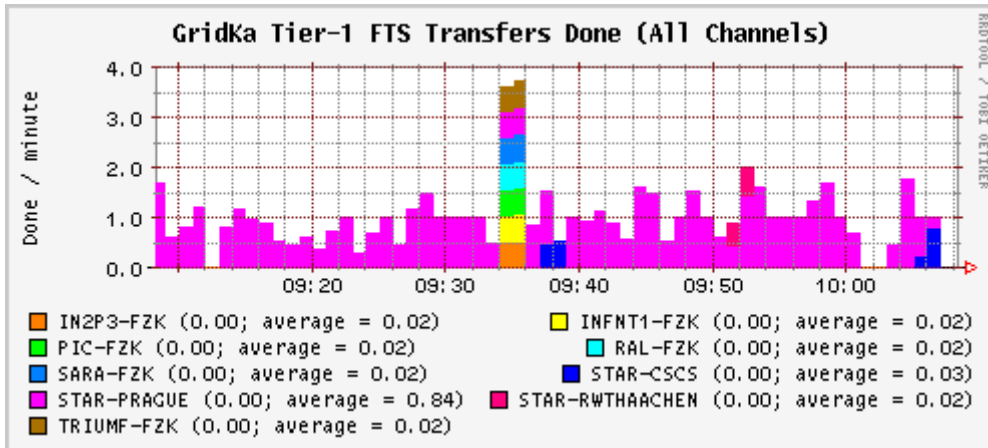
cms

```
/C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Daniele Bonacorsi
```

## FTS server monitoring

- Overview over transfers: successful and failed transfers per channel
- At the moment we have no overview over the reasons of the failed transfers
  - Investigation of the failures is cumbersome using the logfiles of every transfer at `/var/tmp/glite-url-copy-edguser/CHANNELcompleted` and `CHANNELfailed` respectively

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Scripts are provided by RAL (thanks!) and adapted by A. Heiss.



## Questions (I): FTS configuration

- Channel type and configuration

Is there a site with experience with channel type „srmcp“?

Which are the best channel parameters (type, #files, #streams...) for dCache, Castor, DPM-sites?

Is there a list of all parameter names and default values (yaim-installation)?

- How can I find the corresponding logfile to a given Request-ID?

## Questions (II)

- Many problems occur with timeouts e.g. gridftp marker timeouts. What is the best practice setting these timeouts?
- Statistical informations
- Using BDII instead of „services.xml“?
- Database administration tools? Logging using DB?
- Using the myproxy-server at Cern?
- Channel- and VOmanager: VOMS roles?