

CMS data model

- At T0: data collected, filtered online, stored, reconstructed with HLT information and
- at DBS registred
- By PhEDEx from T0 to T1 RECO data are moved
- At T1: data are filtered(AOD) according to PhAn group selection for akimming;
- By PhEDEx from T1 to T2 skim output are shipped
- At T2 and T3 data are analysed by physics group users
- In DBS published instance dedicated to the Physics group

CSM tools

- VO virtual organization authorized access
- PhEDEx data movement tools
- DBS data discovery
- CRAB job analysis builed
- DashBoard data, job, resources monitoring
- SAM test, FTS, dCache Monitoring





PhEDEx - CMS Data Transfers

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File Sizes

The PhEDEx

Project provides the data placement and the file transfer system for the CMS experiment.

The PhEDEx components are:

- Transfer management database(TMDB)
- Transfer agents movement of files between sites.
- Management agents: allocator agent distinations subscriptions
- Tools to manage transfer requests
- Lacal agents for managing files locally
- Web monitoring tools

Location, CVS, configuration

PhEDEx are instaled on VO: cclcgcms01 at:

/home/cmssgm/phedex

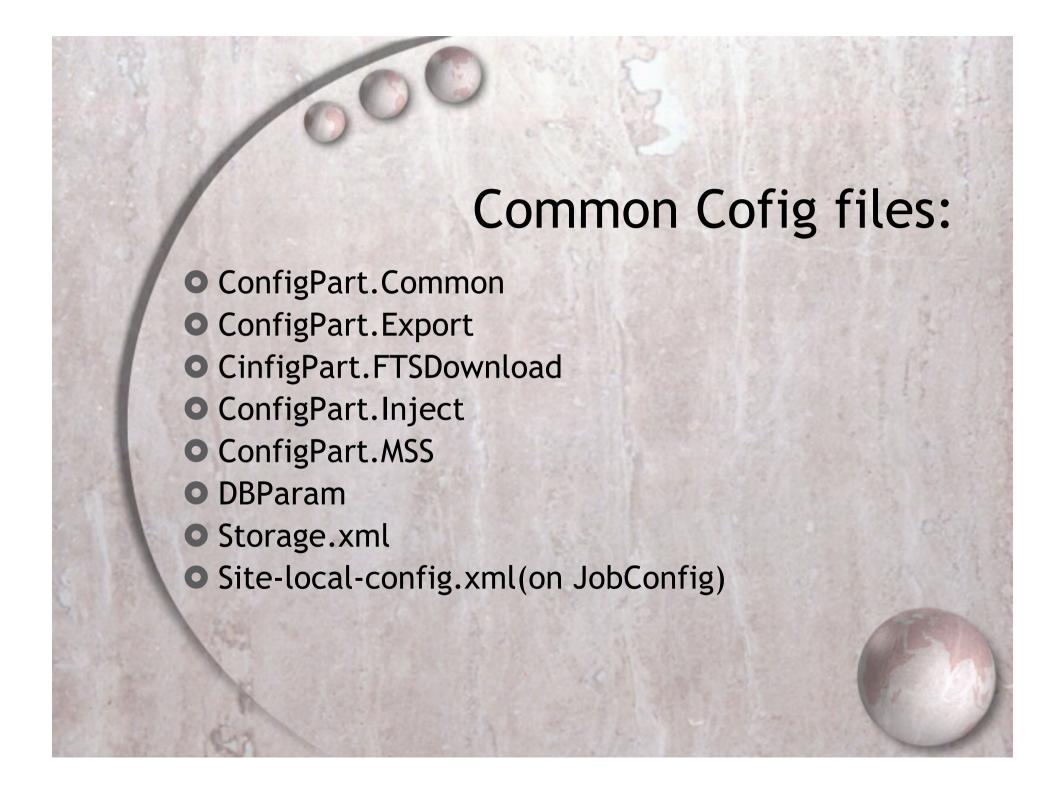
Site configuration MUST be in CVS, after any changes should committed in CVS

Config files are on /home/cmssgm/phedex/SITECONF/T1_FR_CCIN2P3

PhEDEx runns 3 instance: Dev, Debug, Prod

Each instance has its own configuration(shared config files)

- /home/cmssgm/phedex/SITECONF/T1_FR_CCIN2P3/Config25.Dev
- /home/cmssgm/phedex/SITECONF/T1_FR_CCIN2P2/Config25.Debug
- /home/cmssgm/phedex/SITECONF/T1_FR_CCIN2P3/Config25.Prod



Running PhEDEx: Commands

Starting the agents:

phedex -config \$dev | \$debug | \$prod start

Stop: normal:

Phedex -config \$dev |\$debug |\$prod stop

or kill:

o kill -9 ...

Agents running check:

• Ps -ef | grep Download



Log files

- Dev :
 /home/cmssgm/phedex/Dev_T1_FR_CCIN2P3/
- Debug: /home/cmssgm/phedex/Debug_T1_FR_CCIN2P3/
- Prod :
 /home/cmssgm/phedex/Prod_T1_FR_CCIN2P3/

It is logs files dir and logarcive

Transfer

- Check if the dataset is injected here.
- Check if there is a subscription and it is not suspended here. Don't forget to select the proper destination node.
- Check if there is a link between the source and the destination sites,
- if both end points are up and if none of the end points is ignoring each other here.
- Check if the destination queue is not full.



- Go to /home/cmssgm/phedex/
- SW: sw=\$PWD/sw, echo \$sw, ls sw
- Should see bin/slc4_ia32_gcc345
- Set up: myarch=slc4_ia32_gcc345 version=...
- Source \$sw/\$myarch/...
- On Config25.Prod, Debug, Dev change version
- Restart PhEDEx

