Acronyms...

Some useful translator for GRID acronyms. (Newcomers might be confused...). The Grid “standard” Elements:

User Interface (UI): Node where users submit jobs (need to ssh (telnet) to them)

Computing Element (CE): Gateway to grid farm nodes.

Worker Nodes (WN): ...

Storage Element (SE) Access to data.

Grid “Special services” elements:

Virtual Organization (VO): LDAP Database where users certificates (subjects) are stored.

Resources Broker (RB): Node reposnsible to match job requirements and grid resources

Information Index (II): to access db containing info on grlid elements

Logging and Bookkeeping (LB): logging and monitoring

Replica Catalog (RC): db for Replica Manager (RM) (data localization)

Report on CDF-VO

- VO has been created for CDF.
- LDAP structure of CDF-VO:

dc (**domain component**)	`org` `eu-datagrid`
o (**organization**)	`cdf`
ou (**org. unit**)	`People`

- LDAP server for CDF runs on `grid-vo.cnaf.infn.it`
- For the moment (19 April 2002):
  - I will provide interface with VO manager (Luca dell'Agnello).
  - Two subject of users certificates are stored in VO ⇒ Two users for CDF-GRID.
  - Other subject certificates (*e.g.* CDF-Spain collaborators) to be inserted in the CDF-VO.

VO HowTo

How To be inserted in the CDF-VO:

1. Obtain a valid (`X509`) certificate from your certification authority:
   `http://marianne.in2p3.fr/datagrid/ca/ca-table-ca.html`
2. Contact me to tell me the subject certificate: *e.g.* my subject certificate is:
   ```
   description: subject= /C=IT/O=INFN/OU=Personal Certificate/L=Trento/
   CN=Antonio Sidoti/Email=sidoti@tn.infn.it
   ```
3. convert the `p12` certificate into a `PEM` certificate.
   ```
   openssl pkcs12 -nocerts -in <certfilename.p12> -out <private.pem>
   openssl pkcs12 -clcerts -nokeys -in <certfilename.p12> -out <public.pem>
   ```
4. log on the UI (User Interface) machine, create a user/.globus/ directory and store both certificates
   ```
   <ncdf29.fnal.gov [/cdf/home/sidoti/.globus]> ls -ltr
   -rw-------    1 sidoti    cdf          1130 Apr 17 14:32 userkey.pem
   -rw-r--r--    1 sidoti    cdf          3126 Apr 17 14:33 usercert.pem
   ```
5. Read the EDG User's Guide
   (`http://marianne.in2p3.fr/datagrid/documentation/EDG-Users-Guide.html`)

CDF-GRID Playground: Status

- LDAP server located at CNAF (Bologna) `grid-vo.cnaf.infn.it`
- Three UI: Torino, CNAF and Fermilab.
  - `grid006.to.infn.it`
  - `dell13.cnaf.infn.it`
  - `ncdf29.fnal.gov`
- Configuring CE and SE at CNAF and Trieste..

Tests to do (and performance monitoring):

1. "Hello world!"
2. Copying files between two SE.
3. MC generation (using CDF offline)
4. Analysis using CDF offline (MC and Data)
5. Other tests from suggestions...

⇒ Report at the next CDF-GRID meeting...