Information providers for xrootd-based SEs

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New features

- With recent xrootd versions, rather elementary => esier to install, less dependencies.
- No need to compute total/available/used space, xrootd does that => all the complications of the previous ("xis") version are gone.
- No need to run something special on the redirector, dataservers => the provider may run anywhere on the site where a bdii runs.
- YAIM configuration module.

New features (cont.)

- Supports multiple VOs and VOInfoPaths for 1 SE
- The naming of the scripts was choosed such that integration in gLite distribution should be easy.
- NIHAM-xrootd yum repository (SL5.5, x86_64). If integration in gLite will happen, the repository will be unnecessary.

How it works

- glite-se-info-xrootd provider script to be called by bdii with appropriate arguments. Output: GLUE 1.3 schema ldif.
- glite-info-service-xrootd script to be called by glite-info-service as init script, with appropriate arguments. Output: adequate for glite-info-service.
- Both scripts use xrd command to query the redirector.
- Data from redirector is cached, so the provider handle the case of an unresponsive redirector.

Deployment

- http://niham.nipne.ro/NIHAM-repo/instr.html for installation and configuration instructions.
- Tested installation on a gLite 3.2 site bdii with yaim configuration (me) and gLite 3.2 resource bdii (Jean-Michel).
- Should work on gLite 3.1 bdii (site or resource), see the mails on the taskforce list.
- Apart from NIHAM and SUBATECH, apparently already deployed at FZK.

Possible extensions

- Publishing ServiceData entries related to statistics provided by xrootd is easy to implement. But is it useful?
- Use the cache in the publishing of InstalledOnlineCapacity to emulate a "static" nature of it. The published value of the parameter would be constant when some dataservers are down. Easy to implement, but is it wise to do so?