

Integrating DPM and Globus Online

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- File-transfer service
 - between third party storage sites
 - focus on ease of use
- Heavy PR campaign
 - “No IT required” slogan
 - accepted by wide community
 - approx. 8 PB transfered so far
- Negative views on SRM
 - unnecessarily complex
 - ftp/webdav access to clustered filesystem is sufficient
- EGI evaluates GO usage
 - make existing storage available to GO
 - DPM and dCache
 - Is it possible? What are the implications?

- Sites are registered as *endpoint*
 - one or more GridFTP servers
 - MyProxy
- Centralized service
 - spawn and monitor transfers between specific endpoints
 - web, CLI, REST API
 - retries etc. are handled transparently
- Credentials to access GridFTP servers
 - retrieved from MyProxy instance(s)
- Access to the storage
 - **GridFTP only**
 - no way to the higher layer (SRM)

- Fairly naïve straightforward approach
 - use SRM-based client on test file to find the `gsiftp://` prefix of DPM
 - register the prefix as the endpoint in GO
 - try using GO transfer – it works!
 - files are retrieved and stored, DPM reports used space correctly
 - “successful” in this way also for dCache
- Presented and discussed at EGI TCB, November 6
 - too dangerous to be advertised as general recommendation
 - should be discussed with developers and clear statements given

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- Make GO use SRM
 - the cleanest architecture
 - not foreseen by Globus team in near future
 - non-trivial amount of work
 - GO is not open source – no community contribution possible

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- Write access
 - is it possible at all?
 - review what must be done: check space tokens, register files, . . .
 - can some FTP server hooks be used?
 - can it be achieved with configuration only?
 - what development would be required?

- Globus Online is getting popular
 - EGI is looking at possible options to integrate
- Due to direct GridFTP integration with DPM (and other SEs) is not straightforward
- Clean approach through SRM is not foreseen
- What are the options to be offered to the users?