

Site Perspectives (IN2P3 and FNAL)

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VO Experience with FTS

FTS@IN2P3-CC:

- ➔ 1 server (bi-pro AMD, 2GB RAM) running 4 VO agents and 44 channel agents without any performance issues
- ➔ the Oracle DB is hosted on our central Oracle 10 cluster. However the load is not high at the moment, so they plan to study the load with high activity and possibly distribute services on several hosts.
- ➔ 3 part-time people + DBA team

FTS@FNAL

- ➔ 1 server dual CPU Xeon
 - Roughly 50 channels. Some complexity issues
- ➔ Oracle is operated by the DB team
- ➔ 2 part-time people +DBA team

Operations IN2P3

- ➔ In order to correlate FTS errors with SRM errors, we have developed monitoring web pages that are linked with our SRM monitoring web pages
- ➔ distributed sites: how to "disable" one SE of a distributed site without disabling all the others? (e.g. our Paris T2 is composed of 3 different locations, if one of them has a SE problem, we have to close the channel then suspend successful transfers to both others)
- ➔ Should experiments decide which channel to use between 2 endpoints? (e.g. We have ITEP-IN2P3 channel, but Atlas would like ITEP->IN2P3 transfers to go through the STAR-IN2P3 channel)
- ➔ Not clear yet if a Tier I can close channel in case of SE problems on the remote site. At the moment, IN2P3 Team close channel when all transfers fail. Remote site and VO-support are warned. But in some cases, experiments think it is "normal" that transfers fail for a while and would like the channel to stay Active anyway.
- ➔ * How to blacklist a site (or SE) to avoid too many failures in STAR-* channels?

Operations FNAL

- ➔ US-CMS Tier-I was attempting to host channels for associated Tier-2s
 - At a minimum this would be 18 channels
 - T2 - STAR and STAR - T2 for 9 sites
- ➔ In practice given that several of the sites were behind firewalls and the diversity of Tier-1s to connect to the configuration permutations began to grow
 - Estimate was 144 channels would be required to support the 9 sites
 - Not seen as scalable with the 1 FTS server
 - Work on-going