

Performance Issues - Next Steps

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Please notify the grouper-dev [mailing list](#) as you edit this page. Thanks!

C.f. grouper-dev email from Tom Barton, 26-Jul, subject: perf issues next steps, in the [mail archives](#). Below is the set of tasks rolled-up to each functional issue which they mitigate, updated based on the conference call yesterday (25-Jul-07). Also shown are the next steps and the person or group assigned to each. The other tasks are considered to be "on-deck". Please do acknowledge or amend this to ensure that I've got it right.

Thanks all for your help!
Tom

Notes and Next Steps

1. GRP-7 depends on GRP-12 being completed.
2. [blair] to work on GRP-12.
3. [blair] to work on GRP-6.
4. [blair] to work on GRP-10.
5. [blair] to determine why listing a group's membership produces a separate SQL query for each membership.
6. [Duke] to perform JNDISourceAdapter profiling or other diagnostics to identify specific perf issues.
7. [Duke] to profile a group search to further identify where all the time is spent.
8. [Duke] to continue their investigation into the "SQL batching" phenomenon and report their conclusions.

In addition, Duke finds the work-arounds pertaining to TAdmins mentioned below to be reasonable for now, and will implement them at a convenient time.

Functional Issues and Associated Work Items

Browsing My Memberships or Manage Groups

- a. [GRP-7] Add methods for finding child stems and groups where a Subject has the specified access or naming privileges
- b. modify UI to take advantage of these
- c. [GRP-10] Modify Membership indices based upon recommendations from Duke

Listing group members is slow

- a. improve JNDISourceAdapter performance
- b. [GRP-6] API Subject caching no longer caching everything that it should
- c. [GRP-7] Add methods for finding child stems and groups where a Subject has the specified access or naming privileges

Ldappp performance

- a. improve JNDISourceAdapter performance
- b. [GRP-6] API Subject caching no longer caching everything that it should
- c. [GRP-12] Poor integration with Ldappp: subordinate-stem-query causes a full table scan
- d. [GRP-13] Poor integration with Ldappp: attribute-matching-queries causes a full table scan
- e. [GRP-14] Poor integration with Ldappp: Null DTO error message causes Ldappp runs to fail
- f. modify Ldappp to take advantage of these
- g. modify Ldappp to cache more group data

Group search

- a. [GRP-9] A number of methods for retrieving groups by attribute cause full table scans. Document methods where this is the situation and provide alternates where possible.
- b. modify UI to default to equality-matched & scoped searching

TAdmins using Manage Groups

- a. subclass PrepareMenuAction to omit Manage Groups for TAdmins

Add member to TAdmins takes hours

- b. perform this inherently slow operation in a separate JVM, eg, by running a gsh script

XML import/export doesn't scale

- a. improve JNDISourceAdapter performance
- b. profile XMLReader and XMLImporter to see where time and space is being spent

Variant Subject presentation depending on user and Subject's FERPA status

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