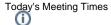
## DevMtg 2017-08-16

### Developers Meeting on Weds, Aug 16, 2017



- DSpace Developers Meeting / Backlog Hour: 20:00 UTC in #duraspace IRC or #dev-mtg Slack channel (these two channels sync all conversations)
  - Please note that all meetings are publicly logged

### Agenda

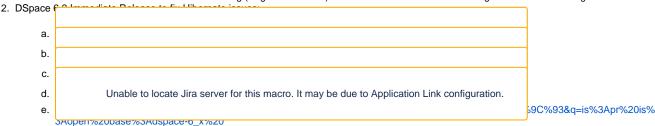
#### **Quick Notes / Reminders**

NEXT DSpace 7 UI MEETING: TOMORROW, Aug 17 at 15:00 UTC (11:00am EDT) in Google Hangouts
 DSpace 7 Working Group (2016-2023) - Watch this page for initial ongoing updates on meetings, etc.

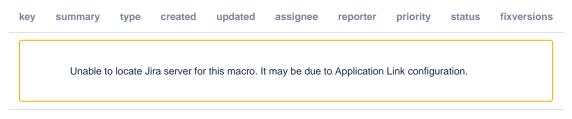
#### **Discussion Topics**

1. Tim will be out next Tues / Weds, attending the DSpace User Group meeting at Georgetown. (Terry Brady & Mark Wood will also be at this meeting)

Do we want to cancel next week's DevMtg (Aug 23 at 15UTC)? Or does someone else want to organize/run the meeting?



- 3. Discussion of DB Connections in DSpace 6 (Hibernate) vs DSpace 5. (More notes at DSpace Database Access)
  - a. In DSpace 5, each "Context" established a new DB connection. Context then committed or aborted the connection after it was done (based on results of that request). Context could also be shared between methods if a single transaction needed to perform actions across multiple methods.
  - b. In DSpace 6, Hibernate manages the DB connection pool. Each **thread** grabs a Connection from the pool. This means two Context objects could use the same Connection (if they are in the same thread). In other words, code can no longer assume each new Context() is treated as a new database transaction.
    - i. This is what we saw in DS-3659, two separate Context objects used the same connection, and one accidentally rolled back the changes of a previous Context (because they were in the same thread).
    - ii. Should we be making use of SessionFactory.openSession() for READ-ONLY Contexts (or any change of Context state) to ensure we are creating a new Connection (and not simply modifying the state of an existing one)? Currently we always use SessionFactory.getCurrentSession() in HibernateDBConnection, which doesn't guarantee a new connection: https://github.com/DSpace/DSpace/blob/dspace-6\_x/dspace-api/src/main/java/org/dspace/core/HibernateDBConnection.java
- 4. DSpace High Priority Tickets
  - a. High Priority (Blocker, Critical or Major) and flagged for release



b. Need Code Review, Flagged for Release

key summary type created updated assignee reporter priority status fixversions

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- 5. DSpace + Spring: Slack Discussion on whether DSpace codebase should move more towards the Spring way of doing things (e.g. Dependency Injection via beans) or the traditional DSpace patterns (e.g. classloaders with little DI).
  - a. This was asked on dspace-devel: https://groups.google.com/d/msg/dspace-devel/oBWibfQUXzI/y05K-wpLAgAJ
- 6. DS-3372 and DS-3587: discussion required, should we add more SQL dialect support? MySQL, MS SQL? Are we ready to support, test and maintain these dialects in the future?
  - $a.\ Also\ asked\ on\ dspace-devel: https://groups.google.com/d/msg/dspace-devel/UfTU7AFZjs0/UOgiSnJKAgAJ$
- 7. Other Tickets needing discussion (Please feel free to add any you wish to discuss under this topic)
- 8. Reviewing JIRA Tickets or PRs
  - a. Please feel free to bring any that need eyes / immediate discussion
  - b. JIRA Backlog of "Received" tickets
  - c. All open PRs

#### **Ticket Summaries**

1. Help us test / code review! These are tickets needing code review/testing and flagged for a future release:



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updated

3. Old, unresolved tickets with activity this week:

type

created

summary

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assignee

reporter

priority

status

4. Tickets resolved this week:

key

key summary type created assignee reporter priority status resolution

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5. Tickets requiring review. This is the JIRA Backlog of "Received" tickets:

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# Meeting Notes

### **Meeting Transcript**

• IRC Transcript is available at - http://irclogs.duraspace.org/index.php?date=2017-08-16