Developer Meetings

DSpace 7.x development is occurring in the DSpace 7 Working Group. These meetings are public and anyone can join, contribute code/ideas, etc.

Meeting Schedule and Attendance

DSpace Developer meetings are a time when Committers and interested Developers can discuss new software features, upcoming releases of DSpace software, and generally plan out the roadmap of DSpace. All meetings are public. We welcome anyone and everyone to attend, speak their opinions or just listen in on the discussions. Please note that we archive all discussions (see Meeting Archives), as a service for those who are unable to attend.

DSpace Developer meetings take place on the following schedule:

- Every Wednesday, alternating between 15:00 UTC and 20:00 UTC (every other week) in #duraspace IRC channel or in #dev-mtg Slack channel (these channels sync all discussions)
- To determine which time we are meeting at during a given week, please view the DSpace Public Events Calendar (iCal version).
- Also, see the world clock (for 15:00 UTC or 20:00 UTC) to determine the meeting time where you live. If you are unsure how to connect to IRC, see our list of IRC Resources & Clients
- All meetings are held for 1 hour (although, admittedly, discussion sometimes extends beyond that)

You can also subscribe to the meeting schedule via the DSpace Public Events Calendar (iCal version).

Meeting topics often include:

- Recent updates on upcoming DSpace releases, bug fixes or features
- Reviewing of recent reported issues/bugs/feature requests (see JIRA Cleanup Sessions for more info)
- Occasionally we vote or make decisions on upcoming DSpace technology plans/roadmap (see Developer Voting Procedures for more info)

If you are unable to attend a meeting, please feel free to add your own notes/comments to the meeting's wiki page.

Developers Meeting on Weds, July 31, 2019

Meeting on Hiatus starting August 2019

This meeting is on temporary hiatus and will no longer be held on a regular (weekly) basis. This meeting will resume as soon as one (or more) of the following occurs:

- The DSpace 7 Working Group finishes its work & ramps down
- Or, the DSpace 6.4 release effort ramps up.
- Or, an interim chair for this meeting is located (as Tim is unavailable to chair this meeting until DSpace 7 finishes up)

In the meantime, ad hoc discussions or meetings are encouraged to occur via the #dev channel in Slack. Developers wanting status updates (e.g. on DSpace 7), or looking for feedback/advice on ongoing work are encouraged to ask for support on that channel, and we would be glad to help out.

Anyone is also welcome & encourages to attend (or "lurk") on DSpace 7 Working Group or DSpace 7 Entities Working Group meetings (both occur weekly). You need not have a microphone or camera to attend, and can take part or ask questions via text chat in Zoom.

Today's Meeting Times

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

Agenda

Quick Reminders

Friendly reminders of upcoming meetings, discussions etc

- DSpace 7 Working Group: Next meeting is Thurs, Aug 1 at 14:00 UTC.
- DSpace 7 Entities Working Group: Next meeting is Tues, Aug 6 at 15:00 UTC.
- DSpace Developer Show and Tell Meetings: On hold until interesting topics arise.

Discussion Topics

If you have a topic you’d like to have added to the agenda, please just add it.

1. Quick Updates from other meetings
DSpace 7 Status Updates for this week (from DSpace 7 Working Group or DSpace 7 Entities Working Group)

1. 6.4 will surely happen at some point, but no definitive plan or schedule at this time. Please continue to help move forward / merge PRs into the dspace-6.x branch, and we can continue to monitor when a 6.4 release makes sense.

2. This general Developers Mtg will go on hiatus, until one (or more) of the following occurs
   a. DSpace 7 Working Group finishes work / ramps down
   b. Or, DSpace 6.4 effort ramps up
   c. Or, an interim chair for this meeting is found.
   d. (In the meantime, Tim will provide status updates on DSpace 7 efforts via Slack and/or email lists. Also, anyone is welcome to drop in on DSpace 7 Working Group or DSpace 7 Entities Working Group just to "lurk" or listen in on efforts.)

3. Ongoing Work
   a. Upgrading Solr Server for DSpace
      i. Auto-reindexing in Solr:  
         DS-3658 - Data cannot be retrieved due to an unexpected error.
         DS-4187 - Data cannot be retrieved due to an unexpected error.
      ii. Dump/restore tool for the authority core.
         Or should we use solr-export-statistics?
   b. DSpace Docker and Cloud Deployment Goals (Terrence W Brady)
      i. Update sequences on initialization
         1. https://github.com/DSpace/DSpace/pull/2362 - update sequences port
         2. https://github.com/DSpace/DSpace/pull/2361 - update sequences port
      ii. DSpace Launcher Dashboard - Deploy a PR on AWS for Testing
         1. There is a 2 minute video that illustrates this proposal.
      iii. Docker for production - next steps
   c. DSpace Database Access
      a. DS-4276 - Data cannot be retrieved due to an unexpected error.
      b. Data cannot be retrieved due to an unexpected error.
      c. Data cannot be retrieved due to an unexpected error.
      d. 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 useSessionFactory.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
      d. Bulk operations, such as loading batches of items or doing mass updates, have another issue: transaction size and lifetime. Operating on 1 000 000 items in a single transaction can cause enormous cache bloat, or even exhaust the heap.
         i. Bulk loading should be broken down by committing a modestly-sized batch and opening a new transaction at frequent intervals. (A consequence of this design is that the operation must leave enough information to restart it without re-adding work already committed, should the operation fail or be prematurely terminated by the user. The SAF importer is a good example.)
         ii. Mass updates need two different transaction lifetimes: a query which generates the list of objects on which to operate, which lasts throughout the update; and the update queries, which should be committed frequently as above. This requires two transactions, so that the updates can be committed without ending the long-running query that tells us what to update.

Tabled Topics

These topics are ones we've touched on in the past and likely need to revisit (with other interested parties). If a topic below is of interest to you, say something and we'll promote it to an agenda topic!

1. Brainstorms / ideas
   a. (On Hold, pending Steering/Leadership approval) Follow-up on "DSpace Top GitHub Contributors" site (Tim Donohue): https://tdonohue.github.io/top-contributors/
   b. Bulk Operations Support Enhancements (from Mark H. Wood)
   c. Curation System Needs (from Terrence W Brady)

2. Management of database connections for DSpace going forward (7.0 and beyond). What behavior is ideal? Also see notes at DSpace Database Access
   a. DS-4276 - Data cannot be retrieved due to an unexpected error.
   b. Data cannot be retrieved due to an unexpected error.
   c. 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. 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 useSessionFactory.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
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Ticket Summaries

1. Help us test / code review! These are tickets needing code review/testing and flagged for a future release (ordered by release & priority)
2. Newly created tickets this week:

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3. Old, unresolved tickets with activity this week:

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4. Tickets resolved this week:

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

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Meeting Notes

Meeting Transcript
Log from #dev-mtg Slack (All times are CDT)

Tim Donohue 3:00 PM
@here: It's time for our general DSpace DevMtg for this week. Last minute agenda was just posted to https://wiki.duraspace.org/display/DSPACE/DevMtg+2019-07-31

Mark Wood 3:00 PM
Hi

Tim Donohue 3:00 PM
Let's do a quick roll call to see who is joining today

Terry Brady 3:00 PM
hello

Tim Donohue 3:01 PM
Looks like just the usual crew... welcome Mark & Terry
So, today, I'm going to jump right into topic #2 on the agenda...as I'd like to allow for plenty of time for questions/concerns.
After a lot of consideration, I've decided that I need to step away from this meeting on a weekly basis...I've got too many meetings I'm chairing, and too much on the plate in getting DSpace 7 out the door
Therefore, this meeting will go on indefinite hiatus
more specifically, until either DSpace 7 wraps up, DSpace 6.4 ramps up, or someone else decides they want to chair this meeting (quite possibly without my regular attendance, until DSpace 7 starts to wrap up)

Terry Brady 3:04 PM
There is a chicken and egg bit. If this meeting doesn't happen, will there be a place to plug people in for production issues?
Then again, attendance has been really low for some time.

Tim Donohue 3:05 PM
That's the basics, but I welcome discussion and/or questions. I'm still more than willing to have ad hoc meetings to discuss topics that may not be getting enough attention in DSpace 7 WG meetings (or Entities meetings). But, I'd like those to be ad hoc

Mark Wood 3:05 PM
Understandable.

Tim Donohue 3:06 PM
@terrywbrady: I totally get it. But, as you noted, this meeting is sparsely attended...after a lot of realization that I have too many meetings (on a weekly basis), this is the least attended and least active meeting on that list :disappointed:

Terry Brady 3:06 PM
I like the dependencies that you have listed. I think those make sense.

Tim Donohue 3:06 PM
Doesn't mean I won't miss the meeting...and I do hope to restart it sometime in the near future :slightly_smiling_face:

Terry Brady 3:07 PM
If this meeting is resurrected, I recommend moving away from the chat-based format.

Tim Donohue 3:08 PM
@terrywbrady: there would also be the opportunity for that as well. Honestly, once the DSpace 7 WG starts to "ramp down", the big question in my mind will also be whether to simply "morph" that into the new DevMtg, or do we go back to chat-based. It will be a question I will ask

Mark Wood 3:08 PM
Ew, not another video thing. How do you 'grep' a pile of videos?

Tim Donohue 3:09 PM
I don't want to make the decisions on the future of this meeting now. :slightly_smiling_face: But, I'd encourage everyone to think about how to "recreate" an engaging developer meeting (once the time comes to do so)
In the meantime, honestly I'll do my best to still give regular DSpace 7 updates in Slack (#dev) and/or via mailing lists. I want to ensure people are aware of what is going on and feel looped in. Also, if topics come up that need a meeting, we can always borrow this meeting's old timeslot

Mark Wood 3:10 PM
I suspect that a general meeting will become more engaging once everybody is not thinking "I have too many meetings too, and D07 deadlines looming...."
:+1:

1

Tim Donohue 3:12 PM
So, "going on hiatus" does mean I'll take this meeting off the DSpace calendar (starting in August, i.e. now). I'll post a notice on the wiki page (https://wiki.duraspace.org/display/DSPACE/Developer+Meetings) about the hiatus, and the terms I stated about when this meeting will restart
I'll also note that ad hoc meetings (or general developer advice) can be asked for at any time on #dev Slack
:+1:

1

(and a reminder that all are welcome in the various working group meetings as well, obviously...even just to lurk)
Any other thoughts/questions/concerns here (including from anyone lurking and reading along)?

Mark Wood 3:15 PM
Updates on #dev will at least keep ongoing development in front of everybody's eyes. I don't want to see people wander off, and wind up with 1000 forks of DSpace with no "center" like some projects I could name. :+1:

Tim Donohue 3:16 PM
@mwood: completely agreed. I don't think that'll happen :slightly_smiling_face:
And quite frankly...please keep me honest here. If you (or anyone) want an update on DSpace 7 or a specific feature / concept please ask on #dev and ping me by name

Ian Little 3:17 PM
I've found this meeting more useful than video, as someone randomly jumping in.

Tim Donohue 3:17 PM
I'm always willing to clarify or answer questions. I might not even realize there's confusion out there...but, I'm always glad to help clarify or add more info, or provide advice, etc @Ian Little: welcome, and thanks for the feedback :slightly_smiling_face:
FWIW, as a side note, I have started summarizing any Zoom meetings we have (for working groups) in "Notes" on the meeting pages themselves. So, that's another area to get updates...it's just a summary though, not all the detailed discussion

Mark Wood 3:19 PM
Thank you.

Tim Donohue 3:20 PM
Ok, that's all I had to say, and I'm not seeing anyone typing...so, I'll leave it at that. Again though, always glad to answer questions or give advice via Slack or email (though I'll admit to having a preference to being asked questions more publicly when it makes sense to do so...as it lets others also see the answer and ask followups if they have any)

So, jumping back up to topic #1 on the agenda...updates from other meetings. I'll admit, not a ton of "big things" happening right now. But, both DSpace 7 WG and DSpace 7 Entities WG are active, and the meetings are well attended overall.

As noted, I've been taking notes / summarizing all discussions on the meeting pages. So, for example, the notes for last week's DSpace 7 WG are here: https://wiki.duraspace.org/display/DSPACE/2019-07-25+DSpace7+WorkingGroup+Meeting#id-2019-07-25DSpace7WorkingGroupMeeting-Notes

Mark Wood 3:21 PM
THW all the planning is going on in WG meetings right now. Presumably many of us will be back here to figure out what DS8 will be. :slightly_smiling_face:

Tim Donohue 3:23 PM
Yes, definitely :slightly_smiling_face:

Notes from last week's DSpace 7 Entities WG are also available here: https://wiki.duraspace.org/display/DSPACE/2019-07-30+DSpace7+Entities+WG+Meeting (Just realized I need to make a direct link to the "Notes" section, it's at the bottom of the page though)

So, I have no major updates on DSpace 7.... work is ongoing, and there's a lot of activity. At the same time, there's quite a bit left to do. In the coming weeks, we'll be working to better estimate remaining work (some scoping of that has already started, but other areas are being discussed and scoped in coming weeks)

Any other questions I can answer though on DSpace 7 or the working group meetings in general?

Mark Wood 3:26 PM
None here.

Tim Donohue 3:27 PM
Ok, that's it for those general updates then

Jumping down to topics under "Ongoing Work" (topic #3)

And, as I sidenote, I'd still like to hear updates here on the subtopics in this section...I'd recommend they move to the DSpace 7 WG (where applicable) or just general Slack updates

Mark Wood 3:28 PM
OK

Tim Donohue 3:28 PM
First up though, Solr Upgrade for DSpace 7. Any updates this week, @mwood? https://wiki.duraspace.org/display/DSPACE/Upgrading+Solr+Server+for+DSpace

Mark Wood 3:29 PM
I've pulled together a test instance with several years of stat. data. And I just realized that I need to patch in the tool for updating the stat. core with UUIDs, which is not released yet.
The statistics pages look weird when there are no stat.s at all.
Loading these data was a good preliminary check of the upgrade process. I am more nearly certain that we won't need my new authority dumper/loader; the statistics tool will do that too, if we document it more fully.

Tim Donohue 3:31 PM
Good to hear no extra upgrade tools need to be built for that!

Mark Wood 3:31 PM
After I get the UUIDs set and can see some stat.s in the UI, I'll actually run an upgrade to 7 and see what breaks.
That's all for now.

Tim Donohue 3:32 PM
Sounds good. And just to clarify, the UUID issue you are talking about is just ensuring your old (presumably 5.
Stats are first updated to 6.x compatibility?
Mark Wood 3:32 PM
(I also need to patch that tool into the production instance from which I got the data, because it won't be
showing any stats.s either!)
Tim Donohue 3:33 PM
So, you are trying to get to 6.x stats first...then doing the 7 upgrade?
Mark Wood 3:33 PM
Yes, I got the data from a v5 system that we upgraded to 6.
Yes, I took data from a 6.2 system for testing.
Tim Donohue 3:34 PM
Gotcha. So, this is an area we'll need to likely just add some notes to docs.... Make sure you first update
your Stats to 6.x compatibility (turn into UUID based) before moving to 7.x. It sounds like you'd need to do
that to go from 5.x (or below) to 7.x.
Mark Wood 3:34 PM
It's been fun figuring out how to make a copy of a large-ish repo. without finding space on my office system
for 300GB of documents.
Yes, I'll be working over the procedure documentation again after I finally get this testing done.
Tim Donohue 3:36 PM
Makes sense. Thanks for all the work here & for working through the procedure to nail it down. Overall, I'm
really glad to hear we should (hopefully) have all the tools we need...just need to finalize the procedure &
have others try it out, etc.
Terry Brady 3:37 PM
If someone goes from 5x -> 7x, will they be able to upgrade stats records in 7x or will they need to perform
that action in 6x?
Mark Wood 3:37 PM
I think it should work, to upgrade to UUIDs in 7x.
It's something to test.
:+1:
I

It's a good question, thanks. I've made a note.
Terry Brady 3:38 PM
As long as the records can get into solr, I think the upgrade tools will work on them.
Mark Wood 3:39 PM
This shows why we need some lurkers in the WG meetings, to stir up the folk who are head-down and racing for
the finish line.
Tim Donohue 3:41 PM
@mwood: not sure I understand the full context there, but I'm always glad to have lurkers in WG meetings :
slightly_smiling_face:
Mark Wood 3:41 PM
"How do we go from 5.x to 7.x, w.r.t. statistics?" Nobody asked until now.
Tim Donohue 3:42 PM
Ah, right. Well, those questions could/should be asked in DSpace 7 WG meetings too, as we do updates on this...
And honestly questions in WG can be asked via video or via text chat too (we have had some attendees attend
without a microphone).
So, I agree, lurkers welcome & encouraged to ask questions however they see fit.
Mark Wood 3:43 PM
Maybe we will get a 6.4 out before 7.0, and then the doco. will make UUID upgrading part of the 6.x process.
But I've made a note to test doing it in 7.x.
:+1:
I

Anyway, I would invite interested folk to disrupt our headlong rush if there's something that's been overlooked.
Terry Brady 3:44 PM
I may have an open PR relating to the stats fix. Let me look at that.
https://github.com/DSpace/DSpace/pull/2292/files
Tim Donohue 3:45 PM
Thanks, at this time I don't know which will come first (6.4 or 7.0), to be totally honest. If I were to guess
though, I'd currently guess 7.0 as there's more activity there...but 6.4 is a quicker release to achieve if
someone(s) decides to run with it.
Looks like #2292 needs another review/test, and eventually a port to master.
Ok, so, it sounds like this topic has wrapped up? A couple good points / next steps here...anything else to add
Mark Wood 3:48 PM
I've added a note to my "review these" list.
:+1:
I

Nothing from me just now.
Tim Donohue 3:48 PM
Ok, sounds good then. Let's move along then to other topics
@terrywbrady: Any updates/comments on the DSpace + Docker efforts? I've been reading along on #dspace-docker.
channel, but not sure if you wanted to summarize, or report updates?

Terry Brady 3:50 PM
I hope to pull together some interested folks to chat about this. So far only @pbecker and @kshepherd have expressed interest.

Tim Donohue 3:51 PM
I'm interested in hearing about the discussion...but not sure I'm needed for the actual meeting (assuming that's the next step)

Terry Brady 3:51 PM
The following section describes some of the potential docker deployment options and some of the parts of the system that might need to change in order to accomplish that goal. https://wiki.duraspace.org/display/DSPACE/DSpace+Docker+and+Cloud+Deployment+Goals#DSpaceDockerandCloudDeploymentGoals-DeploymentOptions

Tim Donohue 3:51 PM
Plus, it sounds like getting a meeting scheduled between the 3 of you (on different continents) will be complex enough 😊

Terry Brady 3:53 PM
When you start talking about a DSpace 8 roadmap, I recommend spending some time evaluating this info.

Tim Donohue 3:54 PM
Definitely....and some of these topics have already come up elsewhere too...like "Migrate all CLI functionality to REST API calls". That's come up in DSpace 7 discussions already, but I don't think it'll happen entirely in v7

Mark Wood 3:54 PM
Is there a public list of "things we're putting off until DSpace 8"?

Tim Donohue 3:55 PM
Not a fully maintained one. But there is this page. Feel free to add to it: https://wiki.duraspace.org/display/DSPACE/DSpace+Release+8.0+Status

Mark Wood 3:55 PM
Ah, of course, thanks.

Tim Donohue 3:55 PM
Only one item is there right now though

Terry Brady 3:56 PM
Could this be added to that list as "Refactor for Docker/Container Deployment"?

Tim Donohue 3:57 PM
Possibly, though it might be worth breaking that down some. There's a lot on your list here.... That said, putting it on there as a massive list is better than nothing for now.

Terry Brady 3:57 PM
I would also like to propose the migration of the REST reporting tools since they will become deprecated.

Mark Wood 3:58 PM
Hit "e" and add it.

Kim Shepherd:musical_note: 3:58 PM
Sorry folks, I slept in this morning!

Tim Donohue 3:59 PM
Yes, add the REST reporting tools to that list please

Terry Brady 3:59 PM
Is it OK to add to this page? I was not certain if you curated this @tdonohue

Tim Donohue 3:59 PM
And the Docker stuff should be added for more discussion. I was just thinking some of the Docker changes you've listed here are non-obvious (to me). There's a few that I'd say immediately "yes, let's do that". Others, we'd need to discuss more

Mark Wood 3:59 PM
Welcome @kshepherd.

Tim Donohue 4:00 PM
No, this list is not curated at this time @terrywbrady. Please add anything to it. As DSpace 8 discussions ramp up, we'll curate & comb through it more.

Mark Wood 4:00 PM
I reckon that that list will become a source of discussion and may have some items moved to "DSpace release 9.0 status".

Tim Donohue 4:01 PM
(And I don't think DSpace 8 discussions will ramp up anytime soon, so adding things while we are thinking about them is a good idea...otherwise we'll forget them once DSpace 8 discussions start)

Mark Wood 4:01 PM
So, we shouldn't be too shy of making reasonable additions.

Tim Donohue 4:02 PM
Correct. If it's something that has come up in a discussion between two Committers or two trusted developers...add it in. Crazy brainstorms run by someone else first for a sanity check...then possibly add it 😊

(edited)

Terry Brady 4:03 PM
Great. 2 items added.

Tim Donohue 4:04 PM
Ok, I'm realizing we are over time here. So, it's time to wrap up this meeting. As noted, unfortunately this will be our last general DevMtg for a while...but I'd encourage attendance (or reading notes) of DSpace 7 WG meetings & ad hoc discussions (possibly meetings) via Slack.

In the meantime, also as noted, don't be shy about asking me questions. Glad to help or clarify or give ad hoc updates on #dev or similar.

Thanks all! I hope you have a good rest of the week, and hope to catch you in tomorrow's DSpace 7 WG meeting or on Slack or GitHub.

Mark Wood 4:05 PM
Thanks, 'bye.

Kim Shepherd:musical_note: 4:05 PM
Thanks

Meeting Archives

Notes and Transcripts from all recent Developers Meetings are available off of the Developer Meeting Archives page.