2019-12-17 DSpace 7 Entities WG Meeting

Date & Location

17 Dec 2019 at 16:00 UTC (11:00am EDT)

As of Dec 17, 2019, the DSpace 7 Entities Working Group (2018-19) is on hiatus and has merged with the DSpace 7 Working Group (2016-2023). This page represents the 2019-12-17 DSpace 7 Entities WG Meeting#Notes of the final meeting. The "2019-12-17 DSpace 7 Entities WG Meeting#Task List" and "2019-12-17 DSpace 7 Entities WG Meeting#PRs Needing Review" sections below will be kept up-to-date to allow volunteers to continue reviewing /testing any remaining Entities or OpenAIREv4 PRs. For ongoing DSpace 7.0 development efforts, please see the DSpace Release 7.0 Status and DSpace 7 Working Group (2016-2023).

Location:

Join from PC, Mac, Linux, iOS or Android: **https://lyrasis.zoom.us/my/dspace** *(Meeting ID: 502 527 3040)*

Attendees

Actual attendee list will be updated after meeting.

- Tim Donohue - LYRASIS
- Alexander Sulfrian - Freie Universität Berlin
- Lieven Droogmans - Atmire
- Ben Bosman - Atmire
- Paulo Lopes - FCT|FCCN
- Mark H. Wood - IUPUI
- Paulo Graça- FCT|FCCN
- Jose Carvalho - University of Minho
- Dimitris Pierrakos - ARC/OpenAIRE
- Oliver Goldschmidt - Hamburg University of Technology (TUHH)

Agenda

#	Time	Item	Information	Who
1	5mins	Quick Reminder	**Final DSpace 7 Entities WG meeting** : With holidays the next two weeks (24th and 31st), this will be the final DSpace 7 Entities Working Group meeting of 2019. As of Jan 1, this Working Group will disband & work as part of the larger DSpace 7 Working Group (2016-2023). - For any still open PRs, PR reviews can continue to happen. As of Jan 1, Entities PRs will be lower priority (unless they fix a major bug). But, they can still be reviewed by volunteers and/or Tim (after high priority PRs are reviewed, obviously).	
2	5mins	Agenda	Any additional topics to today's agenda?	All
3	15mins	Updates on OpenAIRE v4	Any updates to discuss this week? Work based on: - Initial presentation: https://docs.google.com/presentation/d/1G7JGRHq-qgQ44GSr3guBEUEQTb2-6JjKKsQ0-cPGkBM/edit?usp=sharing - Review of document: https://docs.google.com/document/d/1mUrtxbVMhCmp18doZ2kavZAAJ2LMemmeiYPPC6O13LU/edit?usp=sharing - Work plan: https://docs.google.com/spreadsheets/d/1SAsQYgRAyAgdSrWJAjQmJwA2LT-T0yqXrhFu4J6xhMY	All
4	15mins	Wrap-up and Assigning tasks	- Assign tasks / PRs to review (as needed) - **No more meetings on the schedule for the DSpace 7 Entities Working Group.** This Working Group will be on hiatus until other major Entities work becomes a higher priority. That said, volunteers are welcome to continue with reviewing, etc and coordinate via the existing #entities-wg channel in Slack.	

Current Work

> **Legend for status icons**
>
> ⭐ = Highest Priority tasks (please prioritize these reviews/tasks over others). These are tasks with lots of dependencies
>
> ❌ = review done, changes were requested or bugs found.
>
> ✅ = review done, approved.
>
> ⚠️ = review done, merge conflict or other minor changes requests
>
> **1 APPROVAL** = pull request only requires a single approval to merge. This is generally reserved for PRs which are either smaller, obvious, and /or bug fixes with tests to prove they work.

Tickets to Resolve

- All JIRA tickets tagged with "Configurable Entities": https://jira.duraspace.org/issues/?jql=project%20%3D%20DS%20AND%20component%20% 3D%20%22Configurable%20Entities%22
    - Critical Tickets: https://jira.duraspace.org/issues?jql=project%20%3D%20DS%20AND%20priority%20%3D%20Critical%20AND% 20component%20%3D%20%22Configurable%20Entities%22
    - Major Tickets: https://jira.duraspace.org/issues?jql=project%20%3D%20DS%20AND%20priority%20%3D%20Major%20AND% 20component%20%3D%20%22Configurable%20Entities%22
- (HIGH PRIORITY) Bug with performance of Angular (especially with regards to Entities, e.g. in PR#402): https://github.com/DSpace/dspace-angular/issues/458
- (REST Contract) There could be more than one Entity reference for external sources https://github.com/DSpace/Rest7Contract/issues/90

PRs Needing Review

1. (REST) Entities Configure search configurations matching name https://github.com/DSpace/DSpace/pull/2667 (✅ Paulo Graça, **NEEDS SECOND REVIEWER)**
2. **(NEW)** (REST) Metadata PATCH when mixing plain text and relationship https://github.com/DSpace/DSpace/pull/2691 **(**Paulo Graça - ⚠️**)**
3. **(NEW)** (REST) Removed the RelationshipTypeId from Relationship endpoints https://github.com/DSpace/DSpace/pull/2745 (**NEEDS REVIEWERS**)
4. **(NEW)** (REST) Entities related to Entities of the same type https://github.com/DSpace/DSpace/pull/2746 (**NEEDS REVIEWERS**)
5. (Angular) Combining relationships and metadata during submission https://github.com/DSpace/dspace-angular/pull/541 **(**Paulo Graça , **NEEDS SECOND REVIEWER)** *(12 hours)*
6. **(NEW)** (Angular) Create relationships as an admin in edit item [WIP] https://github.com/DSpace/dspace-angular/pull/545 **(NEEDS REVIEWERS ONCE DEPENDENCIES ARE MERGED)** *(16 hours left - week of Jan 6)*
    a. Dependent on #530 (merged)
7. **(COMING SOON)** (OpenAIRE4) OpenAIRE API import of entities/metadata (In progress development by Dimitris Pierrakos)

PRs Merged

1. ✅ (REST Contract) Entity type small changes https://github.com/DSpace/Rest7Contract/pull/95
2. ✅ (REST) DS-4401 Enforce relational place ordering when place direction is known https://github.com/DSpace/DSpace/pull/2617
3. ✅ (REST) Get entity type performance improvement https://github.com/DSpace/DSpace/pull/2615
4. ✅ (REST) Creating a workspace item from an external source https://github.com/DSpace/DSpace/pull/2614
5. ✅ (REST) Entities submission config https://github.com/DSpace/DSpace/pull/2618
6. ✅ (REST) Default Entities relationship types used for the demos https://github.com/DSpace/DSpace/pull/2622
7. ✅ (REST) EntityType by label endpoint and integration tests https://github.com/DSpace/DSpace/pull/2628
8. ✅ (REST) relationship type rest controller bug fix https://github.com/DSpace/DSpace/pull/2641
9. ✅ (Angular) Item page entities improvements https://github.com/DSpace/dspace-angular/pull/532
10. ✅ (OpenAIRE4) OpenAIRE 4 submission forms and virtual metadata https://github.com/DSpace/DSpace/pull/2608
11. ✅ (OpenAIRE4) OpenAIRE4 adding missing field person.identifier https://github.com/DSpace/DSpace/pull/2621
12. ✅ (OpenAIRE4) OpenAIRE4 funding agency missing translation https://github.com/DSpace/dspace-angular/pull/542
13. ✅ ⭐ (Angular) Create relationships during the submission https://github.com/DSpace/dspace-angular/pull/531
14. ✅ ⭐ (OpenAIRE4) OpenAIRE4 oai_openaire metadata format support https://github.com/DSpace/DSpace/pull/2592
15. ✅ (Angular) Lookup relations - Search external sources https://github.com/DSpace/dspace-angular/pull/539
16. ✅ (Angular) Reordering related entities in the submission https://github.com/DSpace/dspace-angular/pull/534
17. ✅ (Angular) Convert external source to entity https://github.com/DSpace/dspace-angular/pull/540
18. ✅ (Angular) Keep virtual metadata on relationship delete https://github.com/DSpace/dspace-angular/pull/530
19. ✅ (Angular) Virtual metadata on item delete https://github.com/DSpace/dspace-angular/pull/533

Task List

This task list has been updated as of our meeting TODAY. The tasks are numbered for easy reference, but are not necessarily listed in priority order. During this meeting we worked to re-summarize current work status so that we can align this task list with the DSpace 7 Estimation Process (and as such, estimate any we feel should be considered for 7.0 release). *NOTE: Keep in mind, just because a task is listed here does NOT guarantee it will be completed for DSpace 7. Some of these tasks may need to be delayed for a future release.*

1. ✅ Metadata schemas for Entity types (DS-4223).
    a. REST: https://github.com/DSpace/DSpace/pull/2443 , Angular: https://github.com/DSpace/dspace-angular/pull/420
    b. Early Docs / Notes: https://docs.google.com/document/d/1X0XsppZYOtPtbmq7yXwmu7FbMAfLxxOCONbw0_rl7jY/edit#heading=h.wjaqg235p53r
2. ⚠️ *(Minor refactor)* **Decide which metadata field should be used to store Entity Type (DS-4184). Currently, it is stored in "relationship. type". (DEEMED LOWER PRIORITY, but "nice to have" for 7.0 if possible?)**
3. ✅ Creating Relations (between Entities) with CSV Batch Import
    a. REST: https://github.com/DSpace/DSpace/pull/2269 and https://github.com/DSpace/DSpace/pull/2471 and https://github.com/DSpace/DSpace/pull/2522
    b. Early Docs / Notes: https://docs.google.com/document/d/1X0XsppZYOtPtbmq7yXwmu7FbMAfLxxOCONbw0_rl7jY/edit#heading=h.df1z7jh9mcc
4. ✅ Permissions on Relations (between Entities)
    a. Discussed on Aug 6
    b. Early Docs / Notes: https://docs.google.com/document/d/1X0XsppZYOtPtbmq7yXwmu7FbMAfLxxOCONbw0_rl7jY/edit#heading=h.y6qarjnylexl
5. ✅ **Deleting Entities that have existing relations**
    a. ✅ Deletion action itself:
        i. REST Contract: https://github.com/DSpace/Rest7Contract/blob/master/relationships.md#deleting-a-relationship , REST: https://github.com/DSpace/DSpace/pull/2332 , Angular: https://github.com/DSpace/dspace-angular/pull/402
        ii. Early Docs / Notes: https://docs.google.com/document/d/1X0XsppZYOtPtbmq7yXwmu7FbMAfLxxOCONbw0_rl7jY/edit#heading=h.c62y8iqnvlur
    b. Copy virtual metadata from deleted entity to related entity
        i. ✅ REST Contract: https://github.com/DSpace/Rest7Contract/pull/78
        ii. ✅ REST impl: https://github.com/DSpace/DSpace/pull/2577
        iii. ✅ Angular Impl : https://github.com/DSpace/dspace-angular/pull/530 and https://github.com/DSpace/dspace-angular/pull/533
6. ✅ Dynamic display of Relations
    a. Early Docs / Notes: https://docs.google.com/document/d/1X0XsppZYOtPtbmq7yXwmu7FbMAfLxxOCONbw0_rl7jY/edit#heading=h.pm34t6u1djdf
    b. ✅ Completed: https://github.com/DSpace/dspace-angular/pull/517
7. ✅ **Submission Integration Tasks**
    a. ✅ Creating new Entities using Submission Forms
        i. REST: https://github.com/DSpace/DSpace/pull/2443
        ii. Early Docs / Notes: https://docs.google.com/document/d/1X0XsppZYOtPtbmq7yXwmu7FbMAfLxxOCONbw0_rl7jY/edit#heading=h.9aixusqzgcnp
    b. ✅ Creating relations between two Entities during Submission process
        i. ✅ REST Contract: https://github.com/DSpace/Rest7Contract/pull/64 ,
        ii. ✅ REST Impl: https://github.com/DSpace/DSpace/pull/2472
        iii. ✅ Angular Impl: https://github.com/DSpace/dspace-angular/pull/531 and https://github.com/DSpace/dspace-angular/pull/534
        iv. Early Docs / Notes: https://docs.google.com/document/d/1X0XsppZYOtPtbmq7yXwmu7FbMAfLxxOCONbw0_rl7jY/edit#heading=h.9aixusqzgcnp
    c. ✅ Search External Sources (includes ORCID integration with Entities)
        i. ✅ REST Contract: https://github.com/DSpace/Rest7Contract/pull/74
        ii. ✅ REST Impl: https://github.com/DSpace/DSpace/pull/2560
        iii. ✅ Angular Impl: https://github.com/DSpace/dspace-angular/pull/539
    d. ✅ Convert External Sources to an Entity
        i. If an Admin:
            1. ✅ REST Contract: https://github.com/DSpace/Rest7Contract/pull/82
            2. ✅ REST Impl: https://github.com/DSpace/DSpace/pull/2590
            3. ✅ Angular Impl: https://github.com/DSpace/dspace-angular/pull/540
        ii. If a Submitter (**Feature is NOT specific to Entities, as this is simply porting the "Live Import" framework of DSpace 6.x**)
            1. ✅ REST Contract: https://github.com/DSpace/Rest7Contract/pull/83
            2. ✅ REST Impl: https://github.com/DSpace/DSpace/pull/2614
            3. ✅ Angular Impl: https://github.com/DSpace/dspace-angular/pull/540
8. ✅ **Name Variants**
    a. ✅ Create name variants in submission
        i. ✅ REST Impl: https://github.com/DSpace/DSpace/pull/2561
        ii. ✅ Angular Impl **-** this is included as part of https://github.com/DSpace/dspace-angular/pull/531
    b. ✅ Display name variants on Item pages (Angular)
9. **OpenAIRE v4 support (using Entities)**
    a. ✅ Configuration of Entities needed for OpenAIRE v4: https://github.com/DSpace/DSpace/pull/2575
    b. ✅ Configuration of Metadata fields/schemas needed for OpenAIRE v4: https://github.com/DSpace/DSpace/pull/2576
    c. ✅ Configuration of Submission Input Forms for OpenAIRE v4: https://github.com/DSpace/DSpace/pull/2608
    d. ✅ Configuration of OAI-PMH for OpenAIRE v4: https://github.com/DSpace/DSpace/pull/2592
    e. ⚠️ Import entities/metadata from OpenAIRE API (using Live Import feature): https://github.com/DSpace/DSpace/pull/2655
10. ✅ How to display related items on an Item page if that related item is still in workflow approval
    a. ✅ Simply display the related item as plain text metadata (until workflow approval completes).
11. **Edit Item page integration**

- - a. How to display relationships on "edit metadata" tab in UI. How to add relationships on "relationships" tab in UI.
    - b. Angular UI Mockups discussed/approved on Nov 5 and Nov 12.
    - c. ✅ Angular relationships tab: https://github.com/DSpace/dspace-angular/pull/517
    - d. ⚠️ Create relationships as an admin in edit item **(under review)**: https://github.com/DSpace/dspace-angular/pull/545
12. ❓ (DELAYED for 7.1 or later) Relations in AIP Backup & Restore
    - a. Discussed on Oct 15
    - b. Proposal: https://docs.google.com/document/d/1X0XsppZYOtPtbmq7yXwmu7FbMAfLxxOCONbw0_rl7jY/edit#heading=h.qi8bp6kog7yi
13. ❓ (DELAYED for 7.1 or later) Creating Relations in SAF Import (might be postponed for a future release)
    - a. Requires AIP Backup & Restore
    - b. Proposal: https://docs.google.com/document/d/1X0XsppZYOtPtbmq7yXwmu7FbMAfLxxOCONbw0_rl7jY/edit#heading=h.n8ktliibe7kj
14. ❓ (DELAYED for 7.1 or later) SWORD integration (might be postponed for a future release)
    - a. Requires AIP Backup & Restore, as SWORD uses the same crosswalks / format as AIP.
    - b. Proposal: https://docs.google.com/document/d/1X0XsppZYOtPtbmq7yXwmu7FbMAfLxxOCONbw0_rl7jY/edit#heading=h.xufwyy1ep8h2
15. ❓ (DELAYED for 7.1 or later) Best Practices around Entities in Collections (NOT: this may just be early documentation). We've suggested in the Preview Release to structure Collections based on Entity Type (Person Collection, Projects Collection, etc). We should better document and formalize these best practices.
    - a. Should we eventually consider hiding these Collections which only serve to store Entity Types?

Notes

- Last meeting of the DSpace 7 Entities Working Group (2018-19) (on indefinite hiatus). Our working group is considered disbanded unless we find a reason to meet later in the year (if any remaining Entities effort is needed later in 2020)
    - REST API effort (contract & implementation) for Entities is **COMPLETE!**
    - There are still some outstanding Angular and OpenAIREv4 PRs (see list of "2019-12-17 DSpace 7 Entities WG Meeting#PRs Needing Review" above), but NO MORE FEATURE PRs are expected
        - *One exception* we realized is that Dimitris from OpenAIRE is working on a PR to **import** metadata from the OpenAIRE API (using the existing "Live Import" framework in DSpace 7). This PR is currently listed as "COMING SOON" above, and should be created by the end of 2019. It can be reviewed by volunteers in 2020.
- Next Steps for still open PRs
    - These are considered **low priority** to review/test in 2020. The main DSpace 7 Working Group (2016-2023) will be working in organized sprints to finalize the DSpace 7.0 release, so their priorities will be on general DSpace 7.0 features.
        - That said, volunteer developers can continue to review Entities PRs as they see fit. Tim will also review & test them when his time allows (but only after any high priority DSpace 7 PRs are reviewed/tested first)
    - As Working Group is no longer meeting, any Entities PR discussion should move to #entities-wg in Slack or GitHub.
    - If a small group wants to talk in more detail about a specific PR, the DSpace Meeting Room is always available for an ad hoc PR meeting. These can be organized or requested via Slack or Github.
- As the Working Group is not meeting any further, the "2019-12-17 DSpace 7 Entities WG Meeting#PRs Needing Review" list & "2019-12-17 DSpace 7 Entities WG Meeting#Task List" sections above should be kept updated to let volunteers know the current status of any remaining Entities PRs.
- Thanks again to all who participated in the DSpace 7 Entities Working Group (2018-19) ! It's been wonderful seeing the passion & energy for both Entities & OpenAIREv4 in DSpace 7. Please consider joining our DSpace 7 Working Group (2016-2023) in 2020 (if you have not already) to help us complete the 7.0 release!