

# DSpace Release 7.0 Status

## Version 7.0

### DSpace 7.0 Estimated Release Schedule

DSpace 7.0 is under active development, and is tentatively scheduled to be released in mid 2019. The current timelines/goals are:

- "Preview" release by late April. The "preview" release *may not include all eventual DSpace 7 features*, but gives the opportunity for early feedback from users / testers. One key feature of this "preview" release will be to show off an early version of Configurable Entities (see also [DSpace 7 Entities Working Group](#)).
- "Preview 2" release by OR2019. This second preview release will include additional features in time for OR2019 Workshops / Training on DSpace 7.
- Beta release in second or third quarter of 2019 (*tentative date - may change*). The beta release will be feature-complete and provide an opportunity for more extensive testing / debugging / banging on the system.
- Final 7.0 release in the third or fourth quarter of 2019.

If you or your institution would like to contribute to this release process (which can help us *speed up development*), we welcome contributors to the [DSpace 7 Working Group](#). We also welcome developers to simply help us review & test new features/improvements (pull requests) as they are developed. Contributing testing and/or code reviews can help us speed up the development feedback loop & get features into the release more quickly. Get in touch with [Tim Donohue](#) if you'd like to contribute!

### DSpace 7 Updates from OR2018

At [OR2018](#) (June 2018), several talks/workshops gave an overview of the latest DSpace 7 work and the new technologies behind it.

#### [DSpace 7 Updates, Demo and RoadMap](#)

- DSpace 7 Update Slides: <https://tinyurl.com/or2018-dspace7> (Includes updates, What is coming in DSpace 7, estimated roadmap, and screenshots of the live demo)
- DSpace 7 Recorded Demo: <https://youtu.be/yKnos2jTdSQ> (Includes a preview of REST API, Browse, Search, and a detailed demo of the enhanced Submission & Workflow functionality. This is an extended version of the live demo given at OR2018 in conjunction with the "DSpace 7 Update Slides")

#### [DSpace 7 Technical Workshops](#)

- DSpace 7 REST API Workshop taught by Andrea Bollini (4Science), Terry Brady (Georgetown) and Tim Donohue (DuraSpace)
  - Workshop Slides (including exercises): <https://tinyurl.com/or2018-dspace-rest>
  - Exercises & online tutorial (work in progress): <https://dspace-labs.github.io/DSpace7RestTutorial/>
- DSpace 7 Angular UI Workshop taught by Art Lowell (Atmire) and Tim Donohue (DuraSpace)
  - Workshop Slides (including exercises): <https://tinyurl.com/or2018-dspace-ui>
  - Workshop Wiki page: <https://wiki.duraspace.org/display/DSPACE/OR2018+DSpace+Angular+Workshop>

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## Overview

## What will be included in DSpace 7?

The DSpace 7.0 release will concentrate on the following major features:

1. A new User Interface based on [Angular](#) (to replace XMLUI and JSPUI). This work is going on at <https://github.com/DSpace/dspace-angular>
  1. The goal of the new UI is to implement all major features of both XMLUI and JSPUI in a single, modern UI.
  2. While additional UI-related features/improvements may come in this release (especially any that are made easier by Angular), we do not anticipate any significant changes to the DSpace backend (except for the REST API, as noted below).
2. A refactored/enhanced REST API (using modern REST best practices). This work is going on in the "master" branch of <https://github.com/DSpace/DSpace>
  1. Additionally, a new REST Contract (describing all API interactions) is being written at <https://github.com/DSpace/Rest7Contract>
3. A new configurable object model (tentatively called "Entities"), which allows for the creation of new "typed" Items, and storing relationships between Items. This feature will allow for tighter integration with external identifier systems (e.g. ORCID), current research information systems (CRIS), journal publishing systems, etc. This work is going on in the [DSpace 7 Entities Working Group](#).
4. Alignment with core recommendations from the COAR Next Generation Repositories Report (<http://ngr.coar-repositories.org/>). Specifically, DSpace 7 will introduce two technologies deemed of highest priority by this report.
  1. [ResourceSync](#)
    1. options to install alongside an existing DSpace 5.x or 6.x installation will also be made available
  2. [Signposting](#)

*For much more information on the history behind these decisions, see [DSpace 7 UI Project Plain Language Summary](#)*

## Where is this work happening? How can I track it?

Join us in a [DSpace 7 Community Sprint!](#) We are holding regular development sprints which anyone can sign up & participate. Prior experience with DSpace 7 is not required (and Sprint Coaches will be available to help you during the Sprint). See the wiki page for upcoming sprints, participant requirements, signups, etc.

Between sprints, active work takes part in the [DSpace 7 Working Group](#) (this is the development team). This group meets on a weekly basis (see working group wiki page for scheduling information). All meetings are open (anyone can attend) and meeting notes are publicly available off the group's wiki page.

We also use [Slack](#) to communicate between meetings. Anyone can request a Slack invite (see link) to listen in or join discussions. The DSpace 7 development team primarily uses the #angular-ui and #rest-api channels within Slack, to discuss the UI and REST API work respectively.

## Where can I see the latest work? Is there a demo site?

Live demos:

- **Latest UI demo** (June 2018): provides a high level overview of the new REST API, with a detailed demo of the new user interface, submission process, etc.
- **Latest REST API demo** (July 2018): provides an overview of the new REST API, and how easy it is to work with using third-party tools like Postman. This video is part of a larger [REST API Dev Show & Tell meeting](#), but the DSpace 7 REST API demo starts around 26:28: <https://youtu.be/L5JeyvRj5-A?t=26m28s>

We also host two demonstration sites of the latest DSpace 7 work. You can try them yourself to see how the work is progressing!

- DSpace 7 User Interface demo: <https://dspace7-demo.atmire.com/>
  - This site is automatically updated each time a UI code change is merged into <https://github.com/DSpace/dspace-angular>
  - It also points at the REST API demo (see below) and uses data from it.
  - Currently, the site is anonymous access only, as authentication / authorization features are still in progress.
- DSpace 7 REST API demo: <https://dspace7.4science.it/dspace-spring-rest/>
  - This site is updated after major changes to REST API.
  - REST API design/interaction is described in the REST Contract at <https://github.com/DSpace/Rest7Contract>

## Presentations / Webinars on DSpace 7

- **June 2018: DSpace 7 Update talk and Workshops at OR2018**
  - DSpace 7 Update Slides: <https://tinyurl.com/or2018-dspace7> (Includes updates, What is coming in DSpace 7, estimated roadmap, and screenshots of the live demo)
  - DSpace 7 Recorded Demo: <https://youtu.be/yKnos2jTdSQ> (Includes a preview of REST API, Browse, Search, and a detailed demo of the enhanced Submission & Workflow functionality. This is an extended version of the live demo given at OR2018 in conjunction with the "DSpace 7 Update Slides")
  - DSpace 7 REST API Workshop
    - Workshop Slides (including exercises): <https://tinyurl.com/or2018-dspace-rest>
    - Exercises & online tutorial (work in progress): <https://dspace-labs.github.io/DSpace7RestTutorial/>
  - DSpace 7 Angular UI Workshop
    - Workshop Slides (including exercises): <https://tinyurl.com/or2018-dspace-ui>
    - Workshop Wiki page: <https://wiki.duraspace.org/display/DSPACE/OR2018+DSpace+Angular+Workshop>

- **February 2017: DSpace 7 updates webinar.** An update on the DSpace 7 work was presented as part of the DuraSpace "hot topics" webinar series
  - Video recording is available at: <http://www.duraspace.org/node/3103>
  - Slides are available at <https://www.slideshare.net/DuraSpace/22817-introducing-dspace-7-webinar-slides>
  - As this talk was highly technical (at parts), a higher level summary of the main points is at: [DSpace 7 UI Project Plain Language Summary](#)
- **June 2016: Introducing DSpace 7 talk at OR2016.** At OR16, the plans for DSpace 7 were presented as part of the "Introducing the New DSpace User Interface" talk.
  - Slides are available at: <http://www.slideshare.net/tDonohue/introducing-the-new-dspace-user-interface>
  - Video recording is available at: <https://www.youtube.com/watch?v=lbxQ60wjPXs&index=1&list=PLER-v9UmiFBut2SVfA2uUSuBFhSFnqIXh>


## Current Status of new UI

We are tracking the current status of all active DSpace 7 development on this Google Spreadsheet: [https://docs.google.com/spreadsheets/d/18brPF7cZy\\_UKyj97Ta44UJg5Z8OwJGi7PLoPJVz-g3g/edit#gid=0](https://docs.google.com/spreadsheets/d/18brPF7cZy_UKyj97Ta44UJg5Z8OwJGi7PLoPJVz-g3g/edit#gid=0)

- The "Overview" tab contains a list of all high-level features currently available in either the DSpace 6.x JSPUI or XMLUI. (*If you feel a feature is missing, let Tim Donohue know*) Our development workflow is generally described below:
  - Green features are considered "completed" (or have an early implementation completed). These features should already exist on the demo site (<https://dspace7-demo.atmire.com/>).
  - Red features are waiting for review (i.e. code is nearly ready, and this feature is likely to be coming soon to the demo site)
  - Blue features are work in progress (i.e. one or more volunteers are currently working on this feature)
  - Yellow are ready to be worked on (i.e. waiting for volunteer)
  - White/Gray are not yet fully described in a development "ticket". They will still be part of DSpace 7. These features will move up this workflow (to Yellow Blue Red Green) once other features are completed.

## Other possible changes in DSpace 7.0 (not comprehensive)

The following is an (unordered) list of changes / new features that we'd like to see added to DSpace 7.0. If you have additional features to add, please feel free. We also NEED volunteers to make these features happen, so please do volunteer if you are willing to work on a particular change! Please note that we reserve the right to reschedule/reject any feature that may not align well with the longer term [RoadMap](#).

Feature	Notes / Tickets	Priority	Volunteer(s)
Single Embargo system	<ul style="list-style-type: none"> <li>• We have two ways of managing embargos, when we only need one  <div style="border: 1px solid gray; padding: 2px; display: inline-block;"> <a href="#">DS-2588 - Getting issue details...</a> STATUS           </div> </li> </ul>	Medium	
 Single built-in Statistical Engine (SOLR Statistics)	<ul style="list-style-type: none"> <li>• Move Elasticsearch Usage Statistics to external "module"?</li> </ul>	Low	COMPLETED
Enhanced Solr Statistical Reports	<ul style="list-style-type: none"> <li>• For example, the nice work by <a href="http://researchcom.mons.waikato.ac.nz/stats">Andrea Schweer</a> at <a href="http://researchcom.mons.waikato.ac.nz/stats">http://researchcom.mons.waikato.ac.nz/stats</a></li> <li>• Other suggestions or code contributions welcome!</li> </ul>	Medium	
OAuth authentication plugin	Dryad (a fork of DSpace) has already implemented this, and reportedly is interested in contributing it to DSpace	Medium	
Inline video player	Required: Closed caption capability for accessibility	Low	

## Pull Requests to review for possible inclusion

- <https://github.com/DSpace/DSpace/milestones/7.0>

## Code Changes in DSpace 7.0

## New Features in 7.0

Click here to expand...

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
DS-3542	Add the security layer on top of the new REST API	+	Mar 23, 2017	Aug 23, 2018		Tom Desair	Andrea Bollini (4Science)	↑	Closed	Fixed
DS-3618	Expose the browse system over the new REST API	+	Jun 10, 2017	Jul 20, 2017		Andrea Bollini (4Science)	Andrea Bollini (4Science)	↑	Closed	Fixed
DS-3650	Expose subcommunities in the community rest resource	+	Jul 15, 2017	May 14, 2018		Terry Brady	Andrea Bollini (4Science)	↑	Closed	Fixed
DS-3693	Add filenames and file descriptions from ORIGINAL bundle to Solr index	+	Sep 12, 2017	Dec 18, 2018		Kim Shepherd	Martin Walk	↓	Closed	Fixed
DS-3699	Expose submission configuration over REST API	+	Sep 20, 2017	Dec 02, 2017		Luigi Andrea Pascarelli (4Science)	Andrea Bollini (4Science)	↑	Closed	Fixed
DS-3718	Authentication over the new REST API	+	Oct 12, 2017	Dec 02, 2017		Tom Desair	Andrea Bollini (4Science)	↑	Closed	Fixed
DS-3727	REST Endpoint to expose the AuthorityFramework	+	Oct 24, 2017	Dec 02, 2017		Luigi Andrea Pascarelli (4Science)	Andrea Bollini (4Science)	↓	Closed	Fixed
DS-3735	Create eperson endpoint (POST)	+	Oct 28, 2017	Aug 16, 2018		Andrea Bollini (4Science)	Andrea Bollini (4Science)	↑	Closed	Fixed
DS-3737	Implement the DELETE operation in the EPerson REST repository	+	Oct 28, 2017	Aug 16, 2018		Andrea Bollini (4Science)	Andrea Bollini (4Science)	↑	Closed	Fixed
DS-3739	Partial update - decision about the PATCH format	+	Oct 28, 2017	Sep 29, 2018		Unassigned	Andrea Bollini (4Science)	↓	Closed	Fixed
DS-3740	Endpoint to create new submissions	+	Oct 28, 2017	Feb 23, 2018		Luigi Andrea Pascarelli (4Science)	Andrea Bollini (4Science)	↑	Closed	Fixed
DS-3743	Expose existent submissions over REST	+	Oct 31, 2017	Feb 23, 2018		Luigi Andrea Pascarelli (4Science)	Andrea Bollini (4Science)	↑	Closed	Fixed
DS-3759	Implement the patch method for the workspaceitem endpoint	+	Nov 18, 2017	Feb 23, 2018		Luigi Andrea Pascarelli (4Science)	Andrea Bollini (4Science)	↓	Closed	Fixed
DS-3909	Endpoint to change the status of an item	+	May 04, 2018	Sep 20, 2018		Michael Spalti	Andrea Bollini (4Science)	↓	Closed	Fixed
DS-3910	Implement the DELETE method for the item repository	+	May 04, 2018	Aug 09, 2018		Pablo Prieto	Andrea Bollini (4Science)	↓	Closed	Fixed
DS-3911	Endpoint to delete bitstreams	+	May 04, 2018	May 29, 2018		Pablo Prieto	Andrea Bollini (4Science)	↓	Closed	Fixed
DS-4021	Patch method for the EPerson endpoint	+	Sep 29, 2018	Oct 18, 2018		Michael Spalti	Andrea Bollini (4Science)	↓	Closed	Fixed
DS-4023	Add the ability to create EPerson Group via REST	+	Sep 29, 2018	Oct 12, 2018		Stefan Fritzsche	Andrea Bollini (4Science)	↓	Closed	Fixed

DS-4024	Create top level community via REST		Sep 29, 2018	Oct 12, 2018		Pablo Prieto	Andrea Bollini (4Science)		Cl osed	Fixe d
DS-4108	Rest api item CRUD		Dec 12, 2018	Feb 07, 2019		Kevin Van de Velde (Atmire)	Kevin Van de Velde (Atmire)		Cl osed	Fixe d

20 issues

## General Improvements in 7.0

[Click here to expand...](#)

Key	Summary	T	Cr eated	U pdated	D ue	Assignee	Reporter	P	S tatus	R esolution
DS-2302	Trim excess boilerplate dspace licenses on files in codebase		Nov 17, 2014	Feb 21, 2017		Peter Dietz	Peter Dietz		Cl osed	Fixe d
DS-2840	Changes INFO level sidebar facet transformer log entries to DEBUG		Oct 25, 2015	Feb 18, 2017		Bram Luyten (Atmire)	Bram Luyten (Atmire)		Cl osed	Fixe d
DS-3135	Replace log4j 1.2, which is EOL		Apr 20, 2016	Nov 09, 2018		Mark H. Wood	Mark H. Wood		Cl osed	Fixe d
DS-3384	re-enable DocLint		Nov 13, 2016	Jan 12, 2017		Ivan Masár	Ivan Masár		Cl osed	Fixe d
DS-3422	Remove XMLUI and JSPUI from the official distribution		Dec 12, 2016	Mar 02, 2017		Andrea Bollini (4Science)	Andrea Bollini (4Science)		Cl osed	Fixe d
DS-3433	Don't scare the admin. when an email Session is not found in JNDI		Dec 29, 2016	Oct 26, 2018		Mark H. Wood	Mark H. Wood		Cl osed	Fixe d
DS-3447	Transition ORCID integration to ORCID API 2.0		Jan 11, 2017	Aug 29, 2018		Kevin Van de Velde (Atmire)	Bram Luyten (Atmire)		Cl osed	Fixe d
DS-3455	Remove Elasticsearch Statistics		Jan 13, 2017	Nov 12, 2018		Unassigned	Tim Donohue		Cl osed	Fixe d
DS-3482	Fix test failure		Feb 13, 2017	Mar 14, 2017		Mark H. Wood	Andrea Bollini (4Science)		Cl osed	Fixe d
DS-3483	Add support for embedded collection		Feb 13, 2017	Dec 02, 2017		Andrea Bollini (4Science)	Andrea Bollini (4Science)		Cl osed	Fixe d
DS-3485	Support nested properties endpoint		Feb 13, 2017	Dec 02, 2017		Andrea Bollini (4Science)	Andrea Bollini (4Science)		Cl osed	Fixe d
DS-3487	Implement the readonly endpoints for Community /Collection		Feb 13, 2017	Sep 29, 2018		Terry Brady	Andrea Bollini (4Science)		Cl osed	Fixe d
DS-3488	Implement the readonly endpoints for Item		Feb 13, 2017	Oct 24, 2017		Terry Brady	Andrea Bollini (4Science)		Cl osed	Fixe d
DS-3489	Implement the readonly endpoint for Search (Discoverable objects)		Feb 13, 2017	Aug 09, 2018		Tom Desair	Andrea Bollini (4Science)		Cl osed	Fixe d

DS-3513	Provide an entry endpoint that exposes the known endpoints via the HAL browser		Mar 01, 2017	Mar 23, 2017	Andrea Bollini (4Science)	Terry Brady		Closed	Fixed
DS-3514	Bug: The pluralization assumption in the new rest api does not hold for community/communities		Mar 01, 2017	Jun 10, 2017	Andrea Bollini (4Science)	Terry Brady		Closed	Fixed
DS-3515	HAL Browser displays pagination properties, but it currently pulls all item/bitstream objects		Mar 01, 2017	Mar 23, 2017	Terry Brady	Terry Brady		Closed	Fixed
DS-3544	Create endpoint for top-level communities		Mar 23, 2017	Oct 10, 2017	Andrea Bollini (4Science)	Terry Brady		Closed	Fixed
DS-3564	Change default value for db.maxidle		Apr 11, 2017	Apr 20, 2017	Mark H. Wood	Pascal-Nicolas Becker		Closed	Fixed
DS-3577	Metadata Fields and Schemas READ-ONLY endpoints		Apr 19, 2017	Sep 29, 2018	Andrea Bollini (4Science)	Andrea Bollini (4Science)		Closed	Fixed

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## Bug Fixes in 7.0

[Click here to expand...](#)

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
DS-2675	Jump to value in descending browse jumps to incorrect location, for author and subject browse		Jul 23, 2015	Oct 03, 2018		Kim Shephard	Hardy Pottinger		Closed	Fixed
DS-2862	embargo lifer not setting bundle/bitstream policies		Oct 30, 2015	May 03, 2018		Kim Shephard	Monika Mevenkamp		Closed	Fixed
DS-3308	Fix Javadocs errors to restore DocLint checks		Sep 07, 2016	Jan 12, 2017		Ivan Masár	Tim Donohue		Closed	Fixed
DS-3310	HTTP 500 error in the SWORD v2 interface		Sep 08, 2016	Aug 06, 2018		Kim Shephard	Anonymous (No Reply)		Closed	Fixed
DS-3332	Handle resolver is hardcoded in org.dspace.handle.UpdateHandlePrefix		Sep 21, 2016	Aug 06, 2018		Kim Shephard	Pascal-Nicolas Becker		Closed	Fixed
DS-3367	Configurable Workflow authorization denied error		Oct 27, 2016	May 14, 2018		Mark H. Wood	Tarje Sælen Lavik		Closed	Fixed
DS-3377	Solr query may be longer than allowed by the Web Container		Nov 07, 2016	Aug 06, 2018		Kim Shephard	Nicolas Schwab (SEDICI)		Closed	Fixed
DS-3378	Oracle migration indexes lost		Nov 08, 2016	Feb 23, 2017		Mark H. Wood	Adan Roman		Closed	Fixed
DS-3434	DSpace fails to start when a database connection pool is supplied through JNDI		Dec 30, 2016	Feb 07, 2018		Mark H. Wood	Mark H. Wood		Closed	Fixed
DS-3435	possible nullpointerexception at AccessStepUtil\$.populateEmbargoDetail		Jan 03, 2017	Jan 10, 2017		Unassigned	Samuel Cambien (Atmire)		Closed	Fixed

DS-3436	Statistics Shard Corrupts owningComm field		Jan 03, 2017	Feb 09, 2017	Terry Brady	Terry Brady		Closed	Fixed
DS-3445	checksum checker cronjob throws "no enum constant" error		Jan 09, 2017	Mar 21, 2017	Unassigned	Hardy Pottinger		Closed	Fixed
DS-3498	Full Text Index Behavior on Public Items with Embargoed Bitstreams		Feb 16, 2017	Aug 06, 2018	Tim Donohue	Terry Brady		Closed	Fixed
DS-3511	REST API, DSpace6.0 update bitstream data returns http 500		Feb 27, 2017	Jun 22, 2018	Kim Shephard	Elie Abu Haydar		Closed	Fixed
DS-3522	Submission Resource Policy not correctly removed during XMLWorkflow		Mar 08, 2017	Aug 06, 2018	Kim Shephard	Chris Herron (Atmire)		Closed	Fixed
DS-3524	Restore maven-enforcer-plugin on rest7		Mar 14, 2017	Feb 14, 2018	Mark H. Wood	Andrea Bollini (4Science)		Closed	Fixed
DS-3552	Select Collection step and submissions page load very slow on large repositories due to Hibernate		Apr 03, 2017	Aug 17, 2017	Unassigned	Tom Desair		Closed	Fixed
DS-3556	OAI interface not working with a document using special charaters		Apr 05, 2017	Apr 26, 2018	Kim Shephard	Nelson Torres		Closed	Fixed
DS-3568	Configuration files like dspace.cfg don't support UTF-8 encoding		Apr 12, 2017	Jun 26, 2017	Mark H. Wood	Christian Scheible		Closed	Fixed
DS-3579	Assess Context connection mode and cache management for DSpace CLI jobs		Apr 20, 2017	Aug 17, 2017	Unassigned	Tom Desair		Closed	Fixed

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## Organizational Details

### Release Coordination

Instead of a single "Release Coordinator", the DSpace 7.0 release will be managed by a "Release Team".

#### Release Team

- [Tim Donohue](#)
- [DSpace 7 Working Group](#)

*Please volunteer (by emailing [Tim Donohue](#)), if you are interested in joining the team!*

### Timeline and Processing

Your contributions are welcome now! Code and documentation need not be finished, so long as it is working and we can all see what it is for. Time is set aside for fixing, polishing, and integration. We have some general [Code Contribution Guidelines](#) available, but you are also welcome to ask questions on the [dspace-level mailing list](#).

### Release Timeline

*Please note that the dates below are estimates of when particular activities may occur. As there are many factors involved in a major release, these are subject to change.*

Date	Milestone	What it means
(ongoing)	New UI and REST API development	Development of the new UI and REST API is still ongoing. See Status above.
OR2018 conference	Developer Workshops on DSpace 7 (REST API and Angular UI training)	
TBA	Deadline for feature pull requests	If you wish to contribute features to DSpace 7.0, you must submit a pull request by this date.
TBA	Weekly developers' meeting devoted to review of feature pull requests for 7.0	The entire hour's meeting will be used to discuss proposed features submitted by the deadline.
TBA	Weekly developers' meeting devoted to review of feature pull requests for 7.0	The entire hour's meeting will be used to discuss proposed features submitted by the deadline.
TBA	Feature freeze	DSpace 7.0 is considered feature-complete on this date. Only bugfixes will be pulled between this date and final release.
TBA	Release Candidate 1 tagged	A DSpace 7.0 Release Candidate will be available for wider testing.
TBA	Release Candidate 2 tagged	
TBA	Testathon	Intensive public testing of the 7.0 Release Candidate is invited. The Release Team will focus on getting problems resolved.
TBA	Release Candidate 3 tagged	An updated DSpace 7.0 Release Candidate will be available for wider testing.
TBA	DSpace 7.0 is publicly released	DSpace 7.0 is released for download and general use.

Release Process needs to proceed according to the following Maven release process: [Release Procedure](#)