DSpace 7.0 is the largest release in the history of DSpace software. While retaining the "out-of-the-box" aspects DSpace is known for, it represents a major evolution of the platform including:

- A completely new User Interface (demo site). This is the new Javascript-based frontend, built on Angular.io (with support for SEO provided by Angular Universal). This new interface is also customizable via HTML and CSS (Sass) and Bootstrap. For early theme building tips see User Interface Customization.
- A completely new, fully featured REST API (demo site), provided via a single "server" webapp backend. This new backend is not only a REST API, but also still supports OAI-PMH, SWORD (v1 or v2) and RDF. Anything you can do from the User Interface is now also possible in our REST API. See REST API documentation for more details.
- A newly designed search box. Search from the header of any page (click the magnifying glass). The search results page now features automatic search highlight, expandable & searchable filters, and optional thumbnail-based results (click on the "grid" view).
- A new MyDSpace area to manage your submissions & reviews, MyDSpace includes a new drag & drop area to start a new submission, and easily search your workflow tasks or in progress submissions to find what you were working on. (Login, click on your user profile icon, click "MyDSpace"). Find workflow tasks to claim by selecting "All tasks" in the "Show" dropdown.
- A new configurable submission user interface, featuring a one-page, drag & drop submission form. This form is completely configurable and can be prepopulated by dragging & dropping a metadata file (e.g. ArXiv, CSV/TSV, Endnote, PubMed, or RIS. etc) or by importing via external APIs (e.g ORCID, PubMed, Sherpa Journals or Sherpa Publishers, etc) (video). Local controlled vocabularies are also still supported (video). See Submission User Interface for more details.
- Optional, new Configurable Entities feature. DSpace now supports "entities", which are DSpace Items of a specific 'type' which may have relationships to other entities. These entity types and relationships are configurable, with two examples coming out-of-the-box: a set of Journal hierarchy entities (Journal, Volume, Issue, Publication) and a set of Research entities (Publication, Project, Person, OrgUnit). For more information see Configurable Entities.
- Dynamic user interface translations (Click the globe, and select a language). Interested in adding more translations? See DSpace 7 Translation - Internationalization (i18n) - Localization (l10n).
- A new Admin sidebar. Login as an Administrator, and an administrative sidebar appears. Features available include:
  - Quickly create or edit objects from anywhere in the system. Either browse to the object first, or search for it using the Admin sidebar.
  - Processes UI (video) allows Administrators to run backend scripts/processes while monitoring their progress & completion. (Login as an Admin, select "Processes" in sidebar)
  - Administrative Search (video) combines retrieval of withdrawn items and private items, together with a series of quick action buttons.
• Administer Active Workflows (video) allows Administrators to see every submission that is currently in the workflow approval process.
• Bitstream Editing (video) has a drag-and-drop interface for re-ordering bitstreams and makes adding and editing bitstreams more intuitive.
• Metadata Editing (video) introduces suggest-as-you-type for field name selection of new metadata.
• Login As (Impersonate) another account allows Administrators to debug issues that a specific user is seeing, or do some work on behalf of that user. (Login as an Admin, Click "Access Control" in sidebar, Click "People". Search for the user account & edit it. Click the "Impersonate EPerson" button. You will be authenticated as that user until you click "Stop Impersonating EPerson" in the upper right.)

• Improved GDPR alignment (video)
• User Agreement required for all authenticated users to read and agree to. (Login for first time, and sample user agreement will display. After agreeing to it, it will not appear again.)
• Cookie Preferences are now available for all users (anonymous or authenticated). A cookie preference popup appears when first accessing the site. Users are given information on what cookies added by DSpace, including a Privacy Statement which can be used to describe how their data is used.
• User Accounts can be deleted even if they’ve submitted content in the past.
• Support for OpenAIReV4 Guidelines for Literature Repositories in OAI-PMH (See the new “openaiReV4” context in OAI-PMH).
• Search Engine Optimization: Tested and approved by the Google Scholar team, DSpace 7 still includes all the SEO features you require: a robots.txt, Site Maps and Google Scholar “citation” tags.
• Video/Image Content Streaming (Kindly donated by Zoltán Kanász-Nagy and Dániel Péter Sipos of Qulto): When enabled, DSpace can now stream videos & view images full screen, using an embedded viewer. (See the "mediaViewer" settings in the environment.common.ts to enable.)
• Basic Usage Statistics (video) are available for the entire site (See “Statistics” menu at top of homepage), or specific Communities, Collections or Items (Click on that same “Statistics” menu after browsing to a specific object)
• Additional features are listed in the Beta release notes below. Also, give it a try on our demo site & see what you discover!

DSpace does not yet include all the features of DSpace 6.x

DSpace 7.0 represents a major evolution of the platform into a new, modern web architecture. This means there are tons of new and redesigned features in 7.0. However, in order to get this release in your hands sooner, DSpace Steering decided to delay some 6.x features for later 7.x releases. So, if you don’t see a 6.x feature yet in 7.0, it’ll likely be coming soon in a later 7.x release. For a prioritized list of upcoming features see “What features are coming in a later 7.x release?” on our DSpace Release 7.0 Status page.

Additional major changes to be aware of in the 7.x platform (not an exhaustive list):

• XMLUI and JPUI are no longer supported or distributed with DSpace. All users should immediately migrate to and utilize the new Angular User Interface. There is no migration path from either the XMLUI or JPUI to the new User interface. However, the new user interface can be themed via HTML and CSS (SCSS).
• The old REST API (“rest” webapp from DSpace v4.x-6.x) is deprecated and will be removed in v8.x. The new REST API (provided in the “server” webapp) replaces all functionality available in the old REST API. If you have tools that rely on the old REST API, you can still (optionally) build & deploy it alongside the “server” webapp via the “-Pdspace-rest” Maven flag. See REST API v6 (deprecated)
• The Submission Form configuration has changed. The “item-submission.xml” file has changed its structure, and the “input-forms.xml” has been replaced by a “submission-forms.xml”. See Submission User Interface
• ElasticSearch Usage Statistics have been removed. Please use SOLR Statistics or DSpace Google Analytics Statistics.
• The traditional, 3-step Workflow system has been removed in favor of the Configurable Workflow System. For most users, you should see no effect or difference. The default setup for this Configurable Workflow System is identical to the traditional, 3-step workflow (“Approve/Reject”, “Approve/Reject/Edit Metadata”, “Edit Metadata”)
• The old BTE import framework in favor of Live Import Framework (features of BTE have been ported to Live Import)
• Apache Solr is no longer embedded within the DSpace installer. Solr now MUST be installed as a separate dependency alongside the DSpace backend. See Installing DSpace.
• A large number of old/obsolete configurations were removed. 7.0 Configurations Removed* section below.
• See Upgrading DSpace for more hints on the upgrade from any old version of DSpace to 7.x

Additional Resources

• Video presentations / Workshops from OR2021 (June 2021) showing off many of the new features & configurations of DSpace 7: DSpace 7 at OR2021

7.0 Configurations Removed

With the removal of the JPUI and XMLUI, a large number of server-side (backend) configurations were made obsolete and were therefore removed between the 6.x and 7.0 release. Those Configurations removed included:

• Within the [dspace]/config/ directory, these are the configuration files which were deleted:
  * dc2mods.cfg
  * input-forms.xml / dtd (REPLACED BY submission-forms.xml, see Submission User Interface)
  * log4j.properties (REPLACED BY log4j2.properties)
  * log4j-console.properties (REPLACED BY log4j-console.xml)
  * log4j-solr.properties (no replacement as Solr now must be installed separately)
  * news-side.html
  * news-top.html
  * news-xmlui.xml
  * workflow.xml (REPLACED BY ./spring/api/workflow.xml)
  * xmlui.xconf / dtd
  * emails/bte_* (BTE import framework was removed in favor of Live Import from external sources)
  * modules/controlpanel.cfg
  * modules/elastic-search-statistics.cfg (Elastic Search support was removed in favor of Solr)
  * modules/fetchccdata.cfg
  * modules/publication-lookup.cfg
• spring/api/bte.xml (BTE import framework was removed in favor of Live Import from external sources)
• spring/oai/* (OAI is now part of the backend “server webapp” and needs no separate configurations)
• spring/xmlui/*

Within the dspace.cfg main configuration file, the following settings were removed:
• log.init.config (replaced by log4j2.xml)
• webui.submit.blocktheses
• webui.submit.upload.html5
• webui.submission.restrictstep.enableAdvancedForm
• webui.submission.restrictstep.groups
• webui.submit.enable-cc
• webui.browse.thumbnail.*
• webui.item.thumbnail.*
• webui.preview.enabled
• webui.strengths.show
• webui.browse.author-field
• webui.browse.author-limit
• webui.browse.render-scientific-formulas
• recent.submissions.*
• webui.collectionhome.*
• plugin.sequence.org.dspace.plugin.SiteHomeProcessor
• plugin.sequence.org.dspace.plugin.CommunityHomeProcessor
• plugin.sequence.org.dspace.plugin.CollectionHomeProcessor
• plugin.sequence.org.dspace.plugin.ItemHomeProcessor
• plugin.single.org.dspace.app.webui.search.SearchRequestProcessor
• plugin.single.org.dspace.app.xmlui.aspect.administrative.mapper.SearchRequestProcessor
• plugin.named.org.dspace.app.webui.json.JSONRequest
• plugin.single.org.dspace.app.webui.util.StyleSelection
• webui.bitstream.order.*
• webui.itemdisplay.*
• webui.resolver.*
• webui.preferred.identifier
• webui.identifier.*
• webui.mydspace.*
• webui.suggest.*
• webui.controlledvocabulary.enable
• webui.session.invalidate
• itemmap.*
• jspui.*
• xmlui.*
• mirage2.*

A full list of all changes / bug fixes in 7.x is available in the Changes in 7.x section.

7.0 Acknowledgments

Major Contributing Institutions

The following institutions have been major code contributors to the DSpace 7 release (in general)

• Atmire - also hosts/maintains DSpace 7 UI demo at https://demo7.dspace.org
• 4Science - also hosts/maintains DSpace 7 REST demo at https://api7.dspace.org/server/
• FCT / RCAAP

Financial Contributors

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• Fraunhofer Gesellschaft
• Imperial College London
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• LYRASIS
• National Library of Finland
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• Staats- und Universitätsbibliothek Hamburg – Carl von Ossietzky
• Technische Universität Berlin
• Technische Universität Hamburg (TUHH)
• The DSpace-Konsortium Deutschland
• The Helmut-Schmidt-Universität/Universität der Bundeswehr Hamburg
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The following 55 individuals have contributed directly to the new DSpace (Angular) User Interface in this release (ordered by number of GitHub commits): Giuseppe Digilio (atari83), Kristof De Langhe (Atmire-Kristof), Lotte Hofstede (LotteHofstede), Art Lowel (artlowel), Marie Verdonck (MarieVerdonck), Julius Gruber (Flusspfeder123), Yura Bondarenko (ybdn), William Welling (wellingandwellingWilliam), Yana De Pauw (YanaDePauw), Tim Donohue (tdonohue), Alessandro Martelli (alemarte), Michael Splati (mspalti), Jonas Van Goolen (jonas-atmire), Laura Henze (lhenze), Dániel Péter Sipos (disposdev), Samuel Cambien (samuelcambien), Bruno Roemers (bruno-atmire), Matteo Perelli (sourcedump), Bram Luyten (bram-atmire), Ben Bosman (benbosman), Terry Brady (terrybrady), Raf Ponsaerts (Raf-atmire), Danilo Di Nuzzo (ddinuzzo), Andrea Chiapparelli (andreachiapparelli), Antoine Snyers (antoine-atmire), Corrado Lombardi (corrad82-4s), Courtney Pattison (courtneypattison), Alex Magaz Graça (rivald8), Chris Wilper (cwilper), Christan Scheibl (christian-scheibl), Andrew Wood (AndrewZWood), Reeta Kuuskoski (reetaatmire), Vitor Silvério Rodrigues (vitorsilverio), Alexander Sulfran (AlexanderS), multiże, José Carvalho (josekarvalho), Claudia Jürgen (cjüergen), fernandarizum, Ivan Masar (helix84), Paulo Graça (paulograca), Philip Vissenaekens (philipvis), Nagy Akos (akoscomp), Kevin Van de Velde (kevinvdv), Sascha Szott (saschaszott), Mohamed Mohideen Abdul Rasheed (mohideen), David Cavernne (davidatmire), Hardy Pottinger (hardyoyo), Luca Giamminonni (LucaGiamminonni), Mateus Mercer (MatMercer), Denijs Balodis (Denijs), Pascal-Nicolas Becker (pnbecker), Mikus Zarins (Mixinz2), marcioloz, Andrea Bullini (abullini), Martin Walk (MW3000).

Out of the above list, the following individuals contributed a translation of the new interface (ordered alphabetically by language): Ivan Masar (Czech), Marına Mülwıjk (Dutch), Reeta Kuuskoski (Finnish), David Cavernne (French), Claudia Jürgen and Sazha Szott (German), Nagy Akos and Transylvanian Museum Society (Hungarian), Mikus Zarins (Latvian), Vitor Silvério Rodrigues and marcioloz (Brazilian Portuguese), José Carvalho (Portuguese) and Maria Fernanda Ruiz (Spanish).

The above contributor lists were determined based on historical contributions to the “dspace-angular” project in GitHub until 7.0: https://github.com/DSpace/dspace-angular/graphs/contributors?from=2016-11-27&to=2021-07-29&type=c

Backend / REST API Acknowledgments

The following 55 individuals have contributed directly to the DSpace backend (REST API, Java API, OAI-PMH, etc) in this release (ordered by number of GitHub commits): Raf Ponsaerts (Raf-atmire), Tim Donohue (tdonohue), Andrea Bullini (abullini), Michele Boychuk (MicheleBoychuk), Mark Wood (mwoodcipu), Marie Verdonck (MarieVerdonck), Ben Bosman (benbosman), Luigi Andrea Pascarelli (lap82), Terry Brady (terrybrady), Tom Desair (tomdesair), Yana De Pauw (YanaDePauw), Chris Wilper (cwilper), Peter Nijs (peter-atmire), Kevin Van de Velde (kevinvdv), Bruno Roemers (bruno-atmire), Giuseppe Digilio (atari83), Pasquale Cavallo (pasqualecvl), Jelle Pelgrims (jellepelgrims-atmire), Andrew Wood (AndrewZWood), Samuel Cambien (samuelcambien), Antoine Snyers (antoine-atmire), Kim Shepherd (kishepherd), Yura Bondarenko (ybdn), Michael Splati (mspalti), Alessandro Martelli (alemarte), Oliver Goldschmidt (olligold), Jonas Van Goolen (jonas-atmire), Kristof De Langhe (Atmire-Kristof), Alexander Sulfran (AlexanderS), Patrick Trotter (PTrotter), Pablo Prieto (ppmdo), Hardy Pottinger (hardyoyo), Pascal-Nicolas Becker (pnbecker), William Tantzen (tantz2001), Paulo Graça (paulograca), Luca Giamminonni (LucaGiamminonni), Ivan Masar (helix84), Hravn Malmquist (j4bb), Ian Little (iittle-cnt), Anis Moubarki (anis-moubarki), Claudia Jürgen (cjüergen), Alan Orth (alanorth), xuejiangtao, Danilo Di Nuzzo (ddinuzzo), James Creel (jcreel), Marsa Haoua (martsaoua), Philip Vissenaekens (philipvis), Mikla Nurmelnin (minurmin), Bram Luyten (bram-atmire), Christian Scheibl (christian-scheibl), Nicholas Woodward (nwoodward), Jörgesf Marton (jmarton), Mohamed Mohideen Abdul Rasheed (mohideen), Saaif Amin (saifamun-saifamun), Álex Magaz Graça (rivald8).

The above contributor list was determined based on contributions to the “DSpace” project in GitHub between 6.0 (after Oct 24, 2016) and 7.0: https://github.com/DSpace/dspace-angular/graphs/contributors?from=2016-11-27&to=2021-07-29&type=c. Therefore this list may include individuals who contributed to later 6.x releases, but only if their bug fix was also applied to 7.0.

Additional Thanks

Additional thanks to our DSpace Leadership Group and DSpace Steering Group for their ongoing DSpace support and advice. Thanks also to LYRASIS for your leadership, collaboration & support in helping to speed up the development process of DSpace 7.

Thanks also to the various developer & community Working Groups who have worked diligently to help make DSpace 7 a reality. These include:

- DSpace 7 Working Group - This is the team behind the code
- DSpace 7 Entities Working Group - This team designed & implemented Configurable Entities
- DSpace 7 Marketing Working Group - This team did all our DSpace 7marketing, press releases & announcements.
- DSpace Community Advisory Team (DCAT) - This team helped organize/lead the DSpace 7.0 Testathon (to bang on the system to find any last bugs), and they also provided us with advice on features, etc.

We apologize to any contributor accidentally left off this list. DSpace has such a large, active development community that we sometimes lose track of all our contributors. Acknowledgements to those left off will be made in future releases.

7.0 Beta 1-5 Release Notes

DSpace 7.0 was developed via a series of Beta releases from 2020-21. The release notes for each Beta are retained here for reference.

7.0 Beta 5 Release Notes
Included in Beta 5

- Support for custom theme(s) in UI & accessibility cleanup of base theme. See early information at DSpace UI Design principles and guidelines and the "themes" section of the environment.common.ts
  - Updated the "base" theme (default Bootstrap look & feel) for consistency and better accessibility. (Additional accessibility analysis will be performed during Testathon)
  - Added a simple "dspace" theme (this is the new default theme, and primarily shows an example of customizing color scheme & homepage)
  - Added a "custom" theme folder with all necessary files. These files can be directly modified to create a completely custom theme.
- Major performance improvements to UI by making better use of caching & smart reloading
- Video/Image Content Streaming (Kindly donated by Zoltán Kanász-Nagy and Dániel Péter Sipos of Qulto): When enabled, DSpace can now stream videos & view images full screen, using an embedded viewer.
  - See the new "mediaViewer" settings in the environment.common.ts to enable. Sample screenshots of the feature can also be found at https://github.com/DSpace/dspace-angular/issues/885
- New Administrative Features
  - Add ability to modify Community/Collection resource policies (i.e. permissions). Edit a Community or Collection and look at the "Authorizations" tab.
  - Add ability to edit/delete user Groups.
  - Add private/withdrawn item badges for Administrators to quickly see which Items are private or withdrawn. These are viewable throughout the browse/search when logged in as an Administrative user.
- Configurable Entities Improvements
  - Entities now report their Entity type in the URL path (e.g. Person entities use URL path /entities/person/[uuid] and Publication entities use the URL path /entities/publication/[uuid])
  - Each Entity type now has a custom Submission form.
    - These can be most easily seen in the Demo site. Submitting to the "People" collection uses the "Person" Entity Form. Submitting to the "Articles" collection uses the "Publication" Entity Form. The full list of Entity-specific Collection submission mappings can be found in the example in item-submission.xml (this example is enabled on our Demo Site)
  - General performance improvements for Entities. Introduction of "tilted" relationships for Configurable Entities that may have hundreds or thousands of relationships.
- Improvements to Upgrade process
  - Added a new Submission form migration script to help DSpace 5/6 institutions migrate their old Submission configuration files to the new /updated format for v7.
- Security fixes
  - Added CSRF (Cross-Site Request Forgery) protection to REST API. UI (and any other clients) now must be trusted to login to the REST API.
  - Improved permissions checks/validation in UI for Administrator, Community/Collection Administrator and Submitter roles.
  - Fixed several other security issues auto-reported by LGTM
- Many bug fixes
  - Fixed issue where mapped items were not appearing
  - Fixed issue where Handles were not redirecting
  - Fixed issues with Sherpa and ORCID integrations
  - Fixed several small issues with OpenAIRE v4 support in OAI-PMH
  - Fixed many bugs in MyDSpace and Submission UI
  - Fixed several bugs in CSV import/export process.
  - Fixes to search/browse pagination & breadcrumb trail
  - Improved performance of Browse by Community/Collection hierarchy
  - LDAP Authentication support is working again
- Many dependency upgrades
  - Upgrade UI to Angular v10
  - Upgrade UI to Node v12 or v14 support
  - Upgrade Backend to Solr v8 support
  - Upgrade to ORCID v3 support
  - Upgrade to SHERPA v2 support
- Removal of obsolete features
  - Removal of the old BTE framework in favor of Live Import Framework (features of BTE have been ported to Live Import)
  - Removal of Traditional/Basic workflow in favor of Configurable Workflow (default workflow is still the same as in DSpace 6)

Changelog

- All User Interface changes: https://github.com/DSpace/dspace-angular/issues?q=is%3Aclosed+milestone%3A7.0beta5
- All Backend changes: https://github.com/DSpace/DSpace/issues?q=is%3Aclosed+milestone%3A7.0beta5

7.0 Beta 4 Release Notes

Released October 2020

Included in Beta 4

- Live Import framework (video) support has been added to the Submission Form (and REST API /api/integration/externalsources endpoint)
  - Search an external site for works to import (From your MyDSpace page, click the "Import metadata from external source" button in upper right). Currently supports Library of Congress Names, ORCID, PubMed, Sherpa Journals or Sherpa Publishers.
  - Drag and drop a bibliographic file into Submission form or MyDSpace page to prepopulate metadata. Supported formats include ArXiv, CSV (or TSV), Endnote, PubMed, or RIS.
- Controlled Vocabulary support (video) in Submission Form. Depending on the field configuration, this can include autocomplete of known terms (see default "Subject Keywords" field), dropdown support (see default "Type" field) and hierarchical tree views
• Includes support for Controlled Vocabs, Authority Control and "Value-Pairs" (from submission configs)
• Curation Tasks are now supported via the Admin UI and the Processes UI. (Login as an Admin, select "Curation Tasks")
• Import / Export metadata from/to CSV (i.e. Batch Metadata Editing) is now available from the Admin UI. (Login as an Admin, select "Export" -> "Metadata", select "Import" -> "Metadata")
• Basic Usage Statistics (video) are available for the entire site (See "Statistics" menu at top of homepage), or specific Communities, Collections or Items (Click on that same "Statistics" menu after browsing to a specific object).
• Support for exchanging usage data to IRUS was added. See new "irus-statistics.cfg" and DS-626
• Improved GDPR Alignment (video)
• User Agreement required for all authenticated users to read and agree to. (Login for first time, and sample user agreement will display. After agreeing to it, it will not appear again.)
• Cookie Preferences are now available for all users (anonymous or authenticated). A cookie preference popup appears when first accessing the site. Users are given information on what cookies added by DSpace, including a Privacy Statement which can be used to describe how their data is used.
• User Accounts can be deleted even if they've submitted content in the past.
  • When a user is deleted, their past submissions are kept but the submitter field is set to empty (null).
  • Users cannot be deleted if they are the only member of a workflow approval group. Admins must either delete that group first, or assign another member to the group. This ensures Workflows are kept even if a user account needs to be deleted.
• Language preferences are now kept for all users (anonymous or logged in). By default, DSpace will try to use your browser's preferred language (if found in Accept-Language header and a translation in that language exists). Users can override it by either saving a preferred language in their user profile, or by manually selecting a different language from the globe icon (upper right).
• IP-based authorization lets you restrict (or provide access to) objects based on the user's IP address. This uses the same "authentication-ip.cfg" configuration as DSpace 6, allowing you to map IP ranges to specific DSpace Groups. Users within that IP range are added to the mapped DSpace Group for the remainder of their session.
• Search Engine Optimization: Addition of robots.txt, Sitemaps and Google Scholar "citation" tags. These optimizations are being tested by the Google Scholar team and may be improved further in the upcoming beta 5 release.
  • For improved SEO, Sitemaps are now enabled by default and automatically update once per day.
• Security Fixes and Dependency upgrades
  • Enhancements to new /api/authz/features endpoint in REST API to provide additional feature-specific permission checks
  • Flyway database engine was upgraded to version 6.5.5
  • Indexing enhancements (some objects were being indexed twice, see PR#2960)
  • Fixes to Shibboleth login
  • Additional bug fixes to both UI and REST API

Changelog

• All User Interface changes: https://github.com/DSpace/dspace-angular/issues?q=is%3Aclosed+milestone%3A7.0beta4
• All Backend changes: https://github.com/DSpace/dspace-angular/issues?q=is%3Aclosed+milestone%3A7.0beta4

7.0 Beta 3 Release Notes

Released July 2020

Included in Beta 3

• Processes Admin UI (video) allows Administrators to run backend scripts/processes while monitoring their progress & completion. (Login as an Admin, select "Processes" in sidebar)
  • Currently supported processes include "index-discovery" (reindex site), "metadata-export" (batch metadata editing CSV export), and "metadata-import" (batch metadata editing CSV import).
• Manage Account Profile allows logged in users to update their name, language or password. (Login, click on the account icon, and select "Profile")
• New User Registration (video) and password reset on the Login Screen
• Login As (Impersonate) another account allows Administrators to debug issues that a specific user is seeing, or do some work on behalf of that user. (Login as an Admin, Click "Access Control" in sidebar, Click "People", Search for the user account & edit it. Click the "Impersonate EPerson" button. You will be authenticated as that user until you click "Stop Impersonating EPerson" in the upper right.)
  • Requires "webui.user.assumeLogin=true" to be set in your local.cfg on backend. Also be aware that you can only "impersonate" a user who is not a member of the Administrator group.
• Manage Authorization Policies of an Item allows Administrators to directly change/update the access policies of an Item, its Bundles or Bitstreams. (Login as an Admin, Click "Edit" -> "Item" in sidebar, and search for the Item. Click the "Authorization..." button on its "Status" tab.
• Manage Item Templates of a Collection allows Administrators to create/manage template metadata that all new Items will start with when submitted to that Collection. (Login as an Admin, Click "Edit" -> "Collection" in sidebar and search for the Collection. Click the "Add" button under "Template Item" to get started.)
  • NOTE: unfortunately there's a known bug that while you can create these templates, the submission process is not yet using them. See https://github.com/DSpace/dspace-angular/issues/748
• Administer Active Workflows (video) allows Administrators to see every submission that is currently in the workflow approval process. From there, they have the option to delete Items (if they are no longer needed), or send them back to the workflow pool (to allow another user to review them). (Login as an Admin, Click "Administer Workflow" in sidebar)
• CC License step allows your users to select a Creative Commons License as part of their submission. Once enabled in the "item-submission.xml" (on the backend) it appears as part of the submission form.
• Angular CLI compatibility was added to the User Interface. This developers allows easily update the User Interface using standard Angular commandline tools. More information (including tutorials) is available at https://cli.angular.io/
• English, Latvian, Dutch, German, French, Portuguese, Spanish and Finnish language catalogs
• Numerous bugs were fixed based on early user testing. (Thanks to all who've tested Beta 1 or Beta 2 and reported your feedback!) Some bugs fixed include:
  • Login/Login session fixes (including compatibility with Firefox and Safari browsers)
  • Improved Community/Collection tree browsing performance
  • Fixes to editing Communities, Collections and Items. This includes improved drag & drop reordering of bitstreams in an Item.
  • Improved performance of Collection dropdown in submission
  • Ability to download restricted bitstreams (previously these would error out)
Learn More: New videos are available highlighting features of the MyDSpace area:

- Manage Submissions in MyDSpace (video)
- Manage Tasks in MyDSpace (video)

7.0 Beta 2 Release Notes
Released April 2020

Included in Beta 2

- Administrative Search (video) combines retrieval of withdrawn items and private items, together with a series of quick action buttons.
- EPeople, Groups and Roles can now be viewed, created and updated.
  - Manage Groups (Login as an Admin Access Control Groups)
  - Manage EPeople (Login as an Admin Access Control EPeople)
- Manage Community/Collection Roles (Login as an Admin Edit Community/Collection Assign Roles). Note: this feature is Admin-only in beta 2, but will be extended to Community/Collection Admins in beta 3.
- Bitstream Editing (video) has a drag-and-drop interface for re-ordering bitstreams and makes adding and editing bitstreams more intuitive.
- Metadata Editing (video) introduces suggest-as-you-type for field name selection of new metadata.
- Update Profile / Change Password (Login Select user menu in upper right Profile)
- Shibboleth Authentication
- Viewing Item Version History (requires upgrading from a 6.x site that includes Item Versioning)
- Collection and Community (video) creation and edit pages.
- English, Latvian, Dutch, German, French, Portuguese and Spanish language catalogs
- Security and authorization improvements, including REST API support hiding specific metadata fields (metadata.hide property) and upgrades of different software packages on which DSpace 7 depends.
- All features previously mentioned in 7.0 Beta 1 Release Notes below

A full list of all changes / bug fixes in 7.x is available in the Changes in 7.x section.

7.0 Beta 1 Release Notes
Released March 2020

New features to look for

- A completely new User Interface (demo site). This is the new Javascript-based frontend, built on Angular.io (with support for SEO provided by Angular Universal). This new interface is also via HTML and CSS (SCSS). For early theme building training, see the “Getting Started with DSpace 7 Workshop” from the North American User Group meeting: slides or video recording.
- A completely new, fully featured REST API (demo site), provided via a single “server” webapp backend. This new backend is not only a REST API, but also still supports OAI-PMH, SWORD (v1 or v2) and RDF. See the REST API's documentation / contract at https://github.com/DSpace/Rest7Contract/blob/master/README.md.
- A newly designed search box. Search from the header of any page (click the magnifying glass). The search results page now features automatic search highlight, expandable & searchable filters, and optional thumbnail-based results (click on the “grid” view).
- A new MyDSpace area, including a new, one-page, drag & drop submission form, a new workflow approval process, and searchable past submissions. (Login, click on your user profile icon, click “MyDSpace”). Find workflow tasks to claim by selecting “All tasks” in the “Show” dropdown.
- Dynamic user interface translations (Click the globe, and select a language). Anyone interested in adding more translations? See DSpace 7 Translation - Internationalization (i18n) - Localization (i10n).
- A new Admin sidebar. Login as an Administrator, and an administrative sidebar appears. Use this to create a new Community/Collection/Item, edit existing ones, and manage registries. (NOTE: A number of Administrative tools are still missing or greyed out. They will be coming in future Beta releases.)
- Optional, new Configurable Entities feature. DSpace now supports “entities”, which are DSpace items of a specific “type” which may have relationships to other entities. These entity types and relationships are configurable, with two examples coming out-of-the-box: a set of Journal hierarchy entities (Journal, Volume, Issue, Publication) and a set of Research entities (Publication, Project, Person, OrgUnit). For more information see “The Power of Configurable Entities” from OR2019: slides or video recording. Additionally, a test data set featuring both out-of-the-box examples can be used when trying out DSpace 7 via Docker. Early documentation is available at Configurable Entities.
- Support for OpenAirRev4 Guidelines for Literature Repositories in OAI-PMH (See the new “openaire4” context in OAI-PMH).

Additional major changes to be aware of in the 7.x platform (not an exhaustive list):

- XMLUI and JSPUI are no longer supported or distributed with DSpace. All users should immediately migrate to and utilize the new Angular User Interface. There is no migration path from either the XMLUI or JSPUI to the new User interface. However, the new user interface can be themed via HTML and CSS (SCSS).
- The old REST API (“rest” webapp from DSpace v4.x-6.x) is deprecated and will be removed in v8.x. The new REST API (provided in the “server” webapp) replaces all functionality available in the older REST API. If you have tools that rely on the old REST API, you can still (optionally) build & deploy it alongside the “server” webapp via the “-Pdspace-rest” Maven flag.
- The Submission Form configuration has changed. The “item-submission.xml” file has changed its structure, and the “input-forms.xml” has been replaced by a "submission-forms.xml". For early documentation see Configuration changes in the submission process.

Updated all REST API dependencies (Spring, Spring Boot, HAL Browser) and enhanced our automated testing via additional Integration Tests.

All features previously mentioned in 7.0 Beta 2 Release Notes and 7.0 Beta 1 Release Notes below.
- ElasticSearch Usage Statistics have been removed. Please use SOLR Statistics or DSpace Google Analytics Statistics.
- The traditional, 3-step Workflow system has been removed in favor of the Configurable Workflow System. For most users, you should see no effect or difference. The default setup for this Configurable Workflow System is identical to the traditional, 3-step workflow ("Approve/Reject", "Approve/Reject/Edit Metadata", "Edit Metadata").
- Apache Solr is no longer embedded within the DSpace installer (and has been upgraded to Solr v7). Solr now MUST be installed as a separate dependency alongside the DSpace backend. See Installing DSpace.
- Some command-line tools/scripts are enabled in the new REST API (e.g. index-discovery): See new Scripts endpoint: https://github.com/DSpace/Rest7Contract/blob/master/scripts-endpoint.md
- DSpace now has a single, backend "server" webapp to deploy in Tomcat (or similar). In DSpace 6.x and below, different machine interfaces (OAI-PMH, SWORD v1 or v2, RDF, REST API) were provided via separate deployable webapps. Now, all those interfaces along with the new REST API are in a single, "server" webapp built on Spring Boot. You can now control which interfaces are enabled, and what path they appear on via configuration (e.g. "oai.enabled=true" and "oai.path=oai"). See https://jira.lyrasis.org/browse/DS-4257
- Configuration has been upgraded to Apache Commons Configuration version 2. For most users, you should see no effect or difference. No DSpace configuration files were modified during this upgrade and no configurations or settings were renamed or changed. However, if you locally modified or customized the [dspace]/config/config-definition.xml (DSpace's Apache Commons Configuration settings), you will need to ensure those modifications are compatible with Apache Commons Configuration version 2. See the Apache Commons Configuration's configuration definition file reference for more details.
- Handle Server has been upgraded to version 9.x: https://jira.lyrasis.org/browse/DS-4205
- DSpace now has sample Docker images (configurations) which can be used to try out DSpace quickly. See Try out DSpace 7 ("Install via Docker" section).