Release Notes

Online Version of Documentation also available

This documentation was produced with Confluence software. A PDF version was generated directly from Confluence. An online, updated version of this 6. x Documentation is also available at: https://wiki.duraspace.org/display/DSDOC6x

Support for DSpace 6 ended on July 1, 2023. See Support for DSpace 5 and 6 is ending in 2023

Welcome to Release 6.4, a bug-fix release for the DSpace 6.x platform. Any previous version of DSpace may be upgraded to DSpace 6 directly. For more information, please see Upgrading DSpace.

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6.4 Release Notes

We highly recommend ALL users of DSpace 6.x upgrade to 6.4

DSpace 6.4 contains security fixes for both the JSPUI and XMLUI. To ensure your 6.x site is secure, we highly recommend ALL DSpace 6.x users upgrade to DSpace 6.4I.

DSpace 6.4 upgrade instructions are available at: Upgrading DSpace

DSpace 6.4 is a bug fix release to resolve several issues located in previous 6.x releases. As it only provides only bug fixes, DSpace 6.4 should constitute an easy upgrade from DSpace 6.x for most users. No database changes should be necessary when upgrading from DSpace 6.x to 6.4.

Security fixes include:

- [HIGH] CVE-2022-31195 (impacts XMLUI and JSPUI): Path traversal vulnerability in Simple Archive Format package import (ItemImportService API). This means a malicious SAF (simple archive format) package could cause a file/directory to be created anywhere the Tomcat/DSpace user can write to on the server. This path traversal is only possible by a user with special privileges (Administrators or someone with command-line access to the server).
 - Reported by Johannes Moritz of Ripstech
- [HIGH] CVE-2022-31194 (impacts JSPUI only): The JSPUI resumable upload implementations in SubmissionController and FileUploadRequest
 are vulnerable to multiple path traversal attacks, allowing an attacker to create files/directories anywhere on the server writable by the Tomcat
 /DSpace user, just by modifying some request parameters during submission. This path traversal can only be executed by a user with submitter
 rights.
 - Reported by Johannes Moritz of Ripstech
- [HIGH] CVE-2022-31193 (impacts JSPUI only) : The JSPUI controlled vocabulary servlet is vulnerable to an open redirect attack, where an attacker can craft a malicious URL that looks like a legitimate DSpace/repository URL. When that URL is clicked by the target, it redirects them to a site of the attacker's choice.
 - Reported by Johannes Moritz of Ripstech
- [MODERATE] CVE-2022-31191 (impacts JSPUI only) : The JSPUI spellcheck "Did you mean" HTML escapes the data-spell attribute in the link, but not the actual displayed text. Similarly, the JSPUI autocomplete HTML does not properly escape text passed to it. Both are vulnerable to Cross Site Scripting (XSS).
 - Reported by Hassan Bhuiyan, Brunel University London
- [MODERATE] CVE-2022-31192 (impacts JSPUI only) : The JSPUI "Request a Copy" feature is vulnerable to Cross Site Scripting (XSS) attacks.
 Reported by Andrea Bollini of 4Science
- [LOW] CVE-2022-31189 (impacts JSPUI only) When an "Internal System Error" occurs in the JSPUI, then entire exception (including stack trace) is available. Information in this stacktrace may be useful to an attacker in launching a more sophisticated attack.
 ^o Reported by Johannes Moritz of Ripstech
- [LOW] CVE-2022-31190 (impacts XMLUI only) Metadata of withdrawn Items is exposed to anonymous users in XMLUI.
 ° Reported by David Cavrenne of Atmire

Major bug fixes include:

- Fix Mirage 2 build broken by disappearance of JRuby gems torquebox.org mirror: #8292
- Requires some action on sites with heavily customized JavaScript or stylesheets, see Mirage 2's readme.md
 Replace log4j with reload4j: #8144
- Note: this may impact custom modules pulled into your poms if they pull in log4j v1. We recommend only using reload4j.
- Implement GDPR-compliant statistics anonymization for Solr: DS-4440 (#2693)
- Update Sherpa Romeo integration for API v2: DS-3940 (#2739), DS-4377 (#2567)
- Add utility to migrate legacy pre-6.x Solr statistics IDs to UUIDs: DS-4075 (#2260)
- Various improvements to Docker configuration and deployment: DS-4356 (#2542), DS-4355 (#2540), DS-4349 (#2534), DS-4346 (#2523), DS-4321 (#2476), DS-4336 (#2510), DS-4126 (#2307), DS-4142 (#2322), DS-4012 (#2218)
- Updated JSPUI and XMLUI to use jQuery v3: DS-4508 (#2918)
- Database fixes:
 - Change maxwait default to 10 seconds: DS-4562 (#7895)
 - Upgrade DBCP2 dependencies: DS-4574 (#3162)

- Fix OAI-PMH Identify verb when using Oracle RDBMS: DS-3453 (#2112)
- Migrate update-sequences.sql script to dspace database command: DS-4167 (#2362)
- XMLUI fixes:
 - Add noindex HTML meta tag to prevent robots from indexing private items: DS-1980 (#5346)
 - Update Mirage2 build to support Node.js 14 LTS: #8331
 - Update confidence when manually editing authority controlled metadata values: DS-4580 (#7913)
 - Fix breaking of feedback link on sites without a sub-domain: DS-4362 (#7701)
 - Improve performance of item counter (aka "strengths"): DS-3976 (#7323)
 - Fix jumping to a specific year in search results when site is not using the default sort order: DS-4208 (#7548)
 - Fix word-break CSS class: DS-4190 (#2374)
 - Improvements and bug fixes to starts_with parameter on browse pages: DS-4201, DS-3945 (#2113)
 - Re-enable HTTP Ranges support: DS-4579 (#3228)
 - Fix Known/Supported labels in UploadStep/UploadWithEmbargoStep: DS-4293 (#2465)
 - Fix Discovery label for metadata values under authority control: DS-2852 (#1800)
 - Fix incorrect escaping of citation_ meta tags: DS-4135 (#2317)
 - Fail gracefully if the Creative Commons API is down: DS-2569 (#2977)
 - Respect primary bitstreams with text/html mime types in Mirage2 item view: DS-3888 #(2021)
 - Use null for empty language when editing item metadata: DS-4169 (#2350)
 - Properly show results for 0-9 link in Browse: DS-4291 (#2463)
 - Fix missing date values while faceting: DS-3791 (#1901)
 - Fix support for custom sitemap.xmap in Mirage 2: DS-3545 (#1690)
 - Fix broken "reset" button in Discovery advanced search filters: #8330
 - Fix incorrect totals on Discovery "view more" page: DS-3881 (#2371)
- JSPUI fixes:
 - Improve results in item mapper: #2649
 - Make sure that transactions are committed in curation tasks: DS-4564 (#3087)
 - Performance enhancement for large uploads: DS-4551 (#2964)
 - Port ORCID author lookup integration to JSPUI: DS-2715, DS-4439 (#2710)
 - Fix bug in JSPUI Shibboleth session renewal: DS-3444 (#2358)
 - Add missing keys for search filters in Messages.properties: DS-4029 (#2556)
 - Fix issue with duplicate headers when bitstream title has a comma: DS-4340 (#2513)
- Other API-level fixes (affecting all UIs):
 - Improve Solr search results for Discovery contains queries by using double quotes instead of brackets: DS-4271 (#7611)
 - Add a check to make sure the source and target collections are not the same when moving an item: #8055
 - Avoid exporting metadata of mapped Item more than once: #7988
 - Make sure "Save and Exit" in workflow actually saves changes to the database: DS-4157 (#7499)
 - Fix NullPointerException in ORCIDv2 API responses with missing data: DS-3998 (#7345)
 - Fix NullPointerException when selecting items published today in initial questions step: DS-4238 (#7668)
 - Fix NullPointerException on empty sub-communities in metadata-export. DS-4211 (#2396)
 - Fix "homepage" Discovery configuration not being used due to missing IDs: DS-3725 (#7072)
 - Fix ingesting items without a license not using the default license: DS-3643 (#6992)
 - Prevent empty string assignment for language when importing a SAF bundle: DS-4493 (#2753)
 - Fix searching for text values containing diacritics: DS-4034 (#2276)
 - Fix for view permissions when Anonymous is a sub-group: DS-4534 (#2832)
 - FindByValue should pass in value, not qualifier: DS-4073 (#2699)
 - Fix exception when harvesting by UUID: DS-4353 (#2537)
 - Fix NullPointerException in "request a copy" function: DS-4032 (#2452)
- REST API fixes:
 - Fix Maven build issue due to blocking of plaintext HTTP repositories: #3247
 - Return items in deterministic order: DS-3849 (#2501)
 - Improve performance of collections endpoints: DS-4342 (#2516)
 - Fix schema registry lookup with null qualifier: #7993

Minor improvements include:

- Limit the usage of PDFBoxThumbnail media filter to PDFs: DS-3873 (#2124)
- Update PDFBox version: #2742
- Update spider user agent file for more accurate Solr usage statistics: DS-4587 (#3333)
- Update JavaScript dependencies: DS-4508 (#2918)
- Remove non-existent command from OAI's CLI help: DS-4260 (#2439)
- Fix Discovery index command when using the "-c" (clean) option: DS-4393 (#2606)
- Fix issue with bulkedit.ignore-on-export parameter on DSpaceCSV: #2661
- Improve dspace structure-builder error messages: DS-4087 (#2681)
- Remove GeoIP download Ant target, reconfigure for external provision; DS-4409 (#2652)
- Restores getSize() in Bitstream for replication task suite: DS-3895 (#2683)
- Remove unnecessary second Context in RDFConsumer: #8152
- Fix minor security issue with HTML links using target="_blank": DS-3891 (#7238)
- Correctly remove Handle server lock file: DS-3946 (#2114)
- Make automatic Discovery re-indexing configurable: DS-3658 (#2184)
- Allow configuring max results per page in search: DS-4120 (#2306)
- Improve OAI performance for large installs: DS-4136 (#2320)
- Avoid crosswalking invalid publish dates for Google Scholar: DS-4104 (#2294)
- Bitstreams should keep their formats when being versioned: DS-4078 (#2261)
- Only execute ImageMagick identify on the first page of PDF: DS-3664 (#2201)
- Allow OAI Harvester to continue if it encounters an Item missing a handle: DS-3939 (#2106)
 - Note: the OAI Harvester Consumer has been completely removed from the DSpace codebase and should be removed from any configuration files referencing it: DS-4129 (#2314).

View the full list of changes for DSpace 6.4 on GitHub.

6.4 Acknowledgments

The 6.4 release was led by Alan Orth, Kim Shepherd, Nicholas Woodward and Hrafn Malmquist (of Cottage Labs).

The following individuals provided tests, code, bug fixes, or review to the 6.4 release (in alphabetical order by given name): Alan Orth, Alexander Sulfrian, Andrea Bollini, Andrea Jenis Saroni, Andrew Wood, Anis, Bram Luyten, Chris Herron, Chris Wilper, Cornelius Matjka, Francesco Pio Scognamiglio, Giuseppe Digilio, Hrafn Malmquist, Huma Zafar, Iordanis Kostelidis, Istvan Vig, Jonas Van Goolen, Kim Shepherd, Kristof De Langhe, Leonardo Guerrero, Lotte Hofstede, Luigi Andrea Pascarelli, Mark H. Wood, Martin Walk, Nicholas Woodward, Pascal-Nicolas Becker, Paulo Graça, Philip Vissenaekens, PTrottier, Saiful Amin, Samuel, santit96, ssolim, Terry Brady, Tim Donohue, Toni Prieto.

6.3 Release Notes

We highly recommend ALL JSPUI users of DSpace 6.x upgrade to 6.3

DSpace 6.3 contains security fixes for the JSPUI (only). To ensure your 6.x JSPUI site is secure, we highly recommend ALL JSPUI DSpace 6.x users upgrade to DSpace 6.3

DSpace 6.x XMLUI users may also wish to upgrade as several major bugs have been fixed in the XMLUI as well.

DSpace 6.3 upgrade instructions are available at: Upgrading DSpace

DSpace 6.3 is a bug fix release to resolve several issues located in previous 6.x releases. As it only provides only bug fixes, DSpace 6.3 should constitute an easy upgrade from DSpace 6.x for most users. No database changes should be necessary when upgrading from DSpace 6.x to 6.3. One configuration addition (orcid.api.url property) has been made to the default dspace.cfg to support the new ORCID API v2, for ORCID Authority Control users.

JSPUI security fixes include

- [HIGH SEVERITY] A user can inject malicious Javascript into the names of EPeople or Groups. This is most severe in sites which allow anyone to register for a new account. (https://jira.duraspace.org/browse/DS-3866 requires a JIRA account to access.)
 - Reported by Julio Brafman
- [MEDIUM SEVERITY] Any user was able to export metadata to CSV format if they knew the correct JSPUI path/parameters. Additionally, the exported CSV included metadata fields which are flagged as hidden in configuration. (https://jira.duraspace.org/browse/DS-3840 - requires a JIRA account to access.)
 - Reported by Eike Kleiner (ZHAW, Zurich University of Applied Sciences)

Major bug fixes include:

- Update DSpace ORCID Integration to use ORCID API v2 (instead of now obsolete ORCID v1): DS-3447
 - Update DSpace Statistics to use GeoIP API v2 (instead of now discontinued GeoIP API v1): DS-3832
- Database specific fixes
 - Oracle database migration fix. Configurable Workflow migration threw errors: DS-3788
 - PostgreSQL JDBC driver upgraded to latest version (to allow for full compatibility with PostgreSQL v10): DS-3854
 - Fix issue where DSpace wasn't starting if it used a database connection pool supplied through JNDI: DS-3434
- Bitstream deletion issues ("dspace cleanup" command)
 - Fixed issues where Bitstreams were not being flagged for deletion when an Item was deleted: DS-3729
 - Fixed issues where Bitstreams were not being removed from assetstore even when flagged as deleted: DS-3627 and DS-3461
 - Note: This issue was limited to 6.0, 6.1 or 6.2, and specifically occurred when <u>Item Level Versioning</u> was NOT enabled (which is the default setting) or when Item Level Versioning was first enabled on DSpace version 6.0, 6.1 or 6.2
 - Fixed issues where Bitstreams were removed from all versions of an Item (resulting in inaccurate versioning) when deleted from the latest version of an Item: DS-3627
 - Note: This issue was limited to 6.0, 6.1 or 6.2, and specifically ONLY occurred when Item Level Versioning was first enabled on DSpace version 4.x or 5.x (and that old versioning data had since been migrated to 6.x).
- Other API-level fixes (affecting all UIs)
 - Fixed issues where Item Level Versioning accidentally duplicated both metadata (DS-3703) and bitstreams (DS-3702)
 - Fixed issue where Shibboleth authentication plugin appeared to login when no password provided: DS-3662
 - Fixed issues with Solr Search Query escaping in both UIs: DS-3507
 - · Update last modified timestamp (on Item) when a new bitstream is added: DS-3734
 - Ensure ImageMagick thumbnails respect the orientation of original file: DS-3839
 - Fix MediaFilter "too many open files" issues (where it forgot to close an input stream): DS-3700
 - Fix PubMed Import submission step (StartSubmissionLookupStep) to use updated URL of PubMed API: DS-3933
 - Cleanup EHCache configuration: DS-3694 and DS-3710
- JSPUI fixes
 - Fixed issues with authority control popup: DS-3404
 - Fixed issues with pausing HTML5 uploads: DS-3865
- XMLUI fixes
 - Fixed Mirage v2 build issues caused by Bower Registry URL change: DS-3936
 - Fixed performance issues for Items with 100+ bitstreams: DS-3883
 - ° Fixed occasional Hibernate LazyInitializationException when completing submissions: DS-3775
 - Fixed Unicode character issues in metadata: DS-3733
 - ° Fix issue where search results lose Community/Collection context when sorting: DS-3835
 - Fixed bitstream download issues which could leave AWS connections open when using S3 storage backend: DS-3870
 - Update Mirage to use recommended MathJax inline delimiters (DS-3087) and to use new CDN location (DS-3560)
- OAI-PMH Fixes
 - Ensure OAI-PMH updates harvestable items when an item is made private (DS-3707) or an embargo expires (DS-3715)
 Fixed Unicode character issues in metadata: DS-3733 and DS-3556

- Fix content type of OAI-PMH response: DS-3889
- Enhanced "oai import" command to report on items that cause indexing issues: DS-3852
- REST API fixes and minor improvements
 - Fixed issue where REST API was no longer able to return JSON responses: DS-3903
 - Fixed update bitstream data returning 500 response: DS-3511
 - Improvements to REST Based Quality Control Reports:
 - Enable login via Shibboleth: DS-3811
 - Add bitstream field data to item listing: DS-3704 .
 - Fix bug filtering for bitstream permissions: DS-3713
 - Improve ability to find withdrawn items: DS-3714

For more information, see the Changes section in the DuraSpace Wiki.

6.3 Acknowledgments

The 6.3 release was led by Kim Shepherd

The following individuals provided tests, code or bug fixes or review to the 6.3 release: Saiful Amin, Pascal-Nicolas Becker, Ben Bosman, Terry Brady, Per Broman, Jacob Brown, James Creel, Tom Desair, Tim Donohue, Stefan Fritzsche, Hendrik Geßner, Werner Greßhoff, Marsa Haoua, Iris Hausmann, Chris Herron, Lotte Hofstede, Eike Kleiner, Ivan Masár, Dinesh Mendhe, Philip Münch, Sébastien Nadeau, Miika Nurminen, Alan Orth, Hardy Pottinger, Jakub ihák, J. Savell, Christian Scheible, Kim Shepherd, Ilja Sidoroff, S. Solim, Eduardo Speroni, Alexander Sulfrian, Jonas Van Goolen, Philip Vissenaekens, Martin Walk, Andrew Wood, Mark Wood

6.2 Release Notes

DSpace 6.2 is a bug fix release to resolve several issues located in previous 6.x releases. As it only provides only bug fixes, DSpace 6.2 should constitute an easy upgrade from DSpace 6.x for most users. No database changes or additional configuration changes should be necessary when upgrading from DSpace 6.x to 6.2.

Major bug fixes include:

- Important bug fixes to DSpace database connection/caching management
 - Indexing: Items failed to be reindexed after metadata changes were made: DS-3660
 - Batch processing: XMLUI Batch Import Failure: DS-3648
 - Group creation: Database migrations sometimes failed to create initial groups (Administrator and Anonymous) in fresh_installs: DS-3659
 - · Cache management: DOIOrganiser CLI does not change the database anymore: DS-3656
 - ° Cache Management: Database changes of consumers aren't persisted anymore: DS-3680
 - Cache Management: Slow batch operations due to Hibernate caching: DS-3286
- General bug fixes (to all UIs):
 - Pre-6.x Bitstream statistics were not being displayed: DS-3602
 - ImageMagick PDF thumbnail should always create sRGB JPEG files: DS-3517
 - ImageMagick PDF Processing Degraded with Changes in 5.7 release: DS-3661

6.2 Acknowledgments

The 6.2 release was led by the DSpace Committers.

The following individuals provided code or bug fixes or review to the 6.2 release: Pascal-Nicolas Becker, Terry Brady, Tom Desair, Tim Donohue, jawadma kki, Steve Michaels, Sébastien Nadeau, Alan Orth, Hardy Pottinger, Adan Roman, Sven Soliman, Alexander Sulfrian, Chris Wilper, Mark Wood.

6.1 Release Notes

We highly recommend ALL users of DSpace 6.x upgrade to 6.1

DSpace 6.1 contains security fixes for the XMLUI and JSPUI and REST. To ensure your 6.x site is secure, we highly recommend ALL DSpace 6.x users upgrade to DSpace 6.1.

DSpace 6.1 upgrade instructions are available at: Upgrading DSpace

DSpace 6.1 is a security & bug fix release to resolve several issues located in previous 6.x releases. As it only provides bug/security fixes, DSpace 6.1 should constitute an easy upgrade from DSpace 6.x for most users. No database changes or additional configuration changes should be necessary when upgrading from DSpace 6.x to 6.1.

Major bug fixes include:

- Security fixes for both JSPUI and XMLUI:
 - [HIGH SEVERITY] Basic (Traditional) Workflow approval process is vulnerable to unauthorized manipulations.(https://jira.duraspace.org /browse/DS-3647 - requires a JIRA account to access.) Discovered by Pascal Becker (The Library Code / TU Berlin).
 - [LOW SEVERITY] DSpace failed to check if policies had valid dates when checking access permissions. (https://jira.duraspace.org /browse/DS-3619 - requires a JIRA account to access.)
 - Discovered by Pascal Becker (The Library Code / TU Berlin).

- Security fixes for REST API:
 - [HIGH SEVERITY] A user with submit permissions can bypass workflow approvals by depositing via REST API.(https://jira.duraspace.org /browse/DS-3281 - requires a JIRA account to access.)
 - Discovered by Emilio Lorenzo.
 - [LOW SEVERITY] The "find-by-metadata" path publicly exposes metadata from access-restricted items.(https://jira.duraspace.org/browse /DS-3628 - requires a JIRA account to access.)
 - Reported by Bram Luyten (Atmire).
- General bug fixes (to all UIs):
 - Performance improvements at API layer: DS-3558, DS-3552
 - Submitters (who are not Admins) could not remove bitstreams from their in progress submission: DS-3446
 - Full text searching was only possible in the first bitstream (file): DS-2952
 - Configurable Workflow was throwing "Authorization is Denied" errors: DS-3367
 - IP Authorization range restrictions were not working properly: DS-3463
 - Item Versioning was not saving properly: DS-3381
 - Improve the text of database migration errors: DS-3571
 - Improve cache management for command line processes: DS-3579
 - Resolve CSV line break issue in bulk edit: DS-3245
 - Resolve error with null referrer to feedback page: DS-3601
 - Support all UTF-8 characters in configuration files: DS-3568
 - Fix update-handle-prefix script to no longer update handle suffix: DS-3632
- XMLUI bug fixes:
 - /handleresolver path was no longer working: DS-3366
 - Display a restricted image thumbnail for access restricted bitstreams: DS-2789
 - Fix broken images when running Mirage 2 on Jetty: DS-3289
 - Archived submissions were being displayed chronologically instead of reverse chronologically: DS-3334
 - On Move Item page, the list of Collections was sorted by Collection name, instead of being first grouped by Community: DS-3336
 - ORCID / Authority Lookup button was no longer working in Mirage 2: DS-3387
 - Improve error message when user attempts to update an e-mail address to an existing address: DS-3584
 - Allow localization of input-forms.xml with XMLUI: DS-3598
 - Fix error when uploading large files (>2GB) via a web browser: DS-2359
 - Various other minor bug fixes
- JSPUI bug fixes
 - READ access rights not being respected on Collection homepage: DS-3441
 - Fix issue where database connections were being kept open on some JSPUI pages: DS-3582
- Oracle support bug fixes:
 - Oracle migrations took forever because of missing indexes: DS-3378
 - ° Community and Collection handles were not properly migrated between 5.x and 6.x: DS-3409
- OAI-PMH bug fixes:
 - DIM crosswalks repeated authority information: DS-2947
- REST API bug fixes:
 - Support for Shibboleth added: DS-3108
- Solr Statistics fixes:
 - Item Statistics displayed UUID instead of file name: DS-3164
 - Sharding statistics corrupted some fields and was unstable: DS-3436, DS-3457, DS-3458
- AIP Backup and Restore fixes:
 - Failed AIP imports left files in assetstore: DS-2227
 - Could not restore items from AIP if embargo lift date was in the past: hDS-3348
 - Replication Task Suite plugin was not working with 6.0: DS-3389

Minor improvements include:

- SEO improvement: Add configurable support for whitelisting specific file formats for Google Scholar citation_pdf_url tag: DS-3127
- Add support for *.docx files (newer MS Word) to indexing process (via media filters). See DS-1140
- Add ability to multi-select options in XMLUI's My Submission page. See DS-3448
- Filter labels were missing in XMLUI's search screen. See DS-3573
- Minor improvements to logging and error reporting.

In addition, this release fixes a variety of minor bugs in the 6.x releases. For more information, see the Changes in 6.x section.

6.1 Acknowledgments

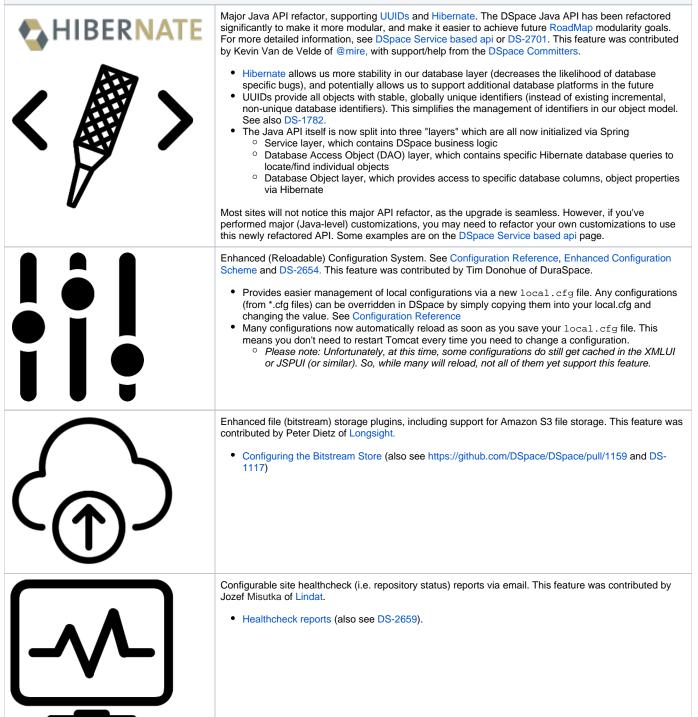
The 6.1 release was led by the DSpace Committers.

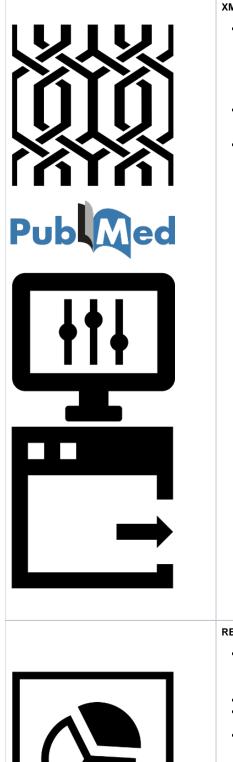
The following individuals provided code or bug fixes to the 6.1 release: Pascal-Nicolas Becker (pnbecker), Andrew Bennet (AndrewBennet), Andrea Bollini (abollini), Terry Brady (terrywbrady), Per Broman (pbroman), Samuel Cambien (samuelcambien), Yana De Pauw, Tom Desair (tomdesair), Peter Dietz (peterdietz), Roeland Dillen, Tim Donohue (tdonohue), edusperoni, Frederic-Atmire, Generalelektrix, Claudia Juergen (cjuergen), Bram Luyten (bramatmire), Enrique Martínez Zúñiga (enrique), Ivan Masar (helix84), Miika Nurminen (minurmin), Alan Orth (alanorth), Andrea Pascarelli (lap82), Hardy Pottinger (hardyoyo), Toni Prieto (toniprieto). Christian Scheible (christian-scheible), Andrea Schweer (aschweer), Kim Shepherd (kshepherd), Alexande r Sulfrian (AlexanderS), Jonas Van Goolen (jonas-atmire), Philip Vissenaekens (PhilipVis), and Mark Wood (mwoodiupui).

6.0 Release Notes

The following is a list of the new features included for the 6.x platform (not an exhaustive list):

DSpace 6.0 ships with a number of new features. Certain features are automatically enabled by default while others require deliberate activation. The following non-exhaustive list contains the major new features in 6.0





XMLUI new features

- New framework for metadata import from external sources (including an out-of-the-box plugin supporting PubMed, and hopefully more coming soon). This concept was previously only supported in JSPUI. Screencast example: http://screencast.com/t/QBImSGbAUZ. These features were contributed by @mire. The PubMed metadata import plugin was also contributed by the Netherlands Cancer Institute.
 - Framework to support metadata import from external sources: DS-2876
 - PubMed metadata import plugin: DS-2880
- Extensible administrative control panel, allowing institutions to override or customize the tabs in the • XMLUI administrative "control panel" (see also DS-2625). This feature was contributed by Jozef Mis utka of Lindat.
- Export of XMLUI search results to CSV for batch metadata editing. This feature was previously only supported in JSPUI. See also DS-1262. This feature was contributed by William Welling of Texas A&M

REST API new features

- REST Based Quality Control Reports for collection manager. See also DS-2583. This feature was contributed by Terry Brady of Georgetown University
 - See Metadata Query Report on demo.dspace.org
 See Collection Filter Report on demo.dspace.org
- Support for all authentication methods via REST (e.g. Shibboleth, LDAP, etc). See also DS-2898.
- New /registries endpoint which provides access to the metadata registries via REST. See also ٠ DS-2539. This feature was contributed by Terry Brady of Georgetown University.
- REST API now provides a version via /status endpoint (inherits the version of DSpace API). See DS-2619. This feature was contributed by Ivan Masár.

| Search/Discovery enhancements |
|---|
| All searches now default to boolean AND. See DS-2809. This enhancement was contributed by Andrea Schweer. New "Has File" facet, which allows you to easily filter by items that have one or more files. See DS-2648. This enhancement was contributed by Christian Scheible. Full text indexing of Excel spreadsheets, so that they are now searchable. See DS-2629. This enhancement was contributed by Ed Goulet. Right-to-left text in PDFs is now indexed for searching. See DS-1187. This enhancement was contributed by Saiful Amin |
| Other enhancements: PDFBox was upgraded to version 2.0 (DS-3035). A new PDFBox Thumbnail generator was also added and enabled by default (DS-3052). These features were contributed by Ivan Masár. OAI-PMH was upgraded for compliance with the OpenAIRE 3.0 guidelines for literature repositories. This enhancement was contributed by Pedro Príncipe. |
| Features Removed or Replaced in 6.0 The build.properties configuration file has been replaced by an enhanced local.cfg configuration file. The new local.cfg allows you to easily override <i>any</i> configuration (from dspace.cfg or modules/*.cfg files) by simply copying it into your local.dfg and specifying a new value. It also provides enhanced configuration options as detailed in the Configuration Reference documentation. The old build.properties file is no longer used nor supported. WARNING: As part of adding this new configuration scheme, many of the configuration settings in DSpace (primarily those in modules/*.cfg files) had to be renamed or prepended with the name of the module. This means that 5.x (or below) configurations are no longer guaranteed to be compatible with 6.x. If possible, we recommend starting with fresh configs (see below), and moving all your locally customized settings into the new local.cfg file. The PDF Citation Cover Page configuration Tabes has been renamed (from disseminate-citation.cfg to citation-page.cfg). See this feature's documentation for more details. The legacy search engine (based on Apache Lucene) and legacy Browse system (based on database tables) have been removed from DSpace 6.0 or above. Instead, DSpace no only uses Discovery (based on Apache Solr) for all Search/Browse capabilities. See DS-2160. The legacy browse system was removed by Kevin Van de Velde. The legacy search system was removed by Tim Donchue. The DSpace Lightweight Networking Interface (LNI), supporting WebDAV / SOAP / RPC API, has been removed from DSpace 6.0 or above. Netrada provensed uses is still available at https://github.com/DSpace/dspace-Ini. This change was contributed by Robin Taylor of University of Edinburgh. Support for SRB (Storage Resource Broker) file storage has been removed from DSpace 6.0 or above. As it was unmaintained (and seemingly unused) for marys eas. this feature was removed alow If is storage option (see Storage Lay |

A full list of all changes / bug fixes in 6.x is available in the Changes in 6.x section.

6.0 Acknowledgments

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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. Our ongoing list of all known people/institutions that have contributed to DSpace software can be found on our DSpace Contributors page. Acknowledgments to those left off will be made in future releases.

Want to see your name appear in our list of contributors? All you have to do is report an issue, fix a bug, improve our documentation or help us determine the necessary requirements for a new feature! Visit our Issue Tracker to report a bug, or join dspace-devel mailing list to take part in development work. If you'd like to help improve our current documentation, please get in touch with one of our Committers with your ideas. You don't even need to be a developer! Repository managers can also get involved by volunteering to join the DSpace Community Advisory Team and helping our developers to plan new features.

The Release Team consisted of:

- Tim Donohue (DuraSpace)
- Kevin Van de Velde (@mire)
- Pascal-Nicolas Becker (Technische Universität Berlin)

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