Product RoadMap

The first open-source release of DSpace-CRIS was based on DSpace 1.8.2. Current releases of DSpace-CRIS are based on current DSpace 7 snapshot, DSpace 5.10 and DSpace 6.3 versions.

For previous DSpace versions there are no official tags as an enormous amount of improvements and new features have been incorporated on running branches, including the alignment with the not-yet-released DSpace 5.11 and 6.4 versions. For such reasons, new DSpace-CRIS releases will be tagged as soon as DSpace 6.4 and/or 5.11 are out.

Below there is a detailed release plan covering all the known features that will be contributed by 4Science and other community members that would like to be involved in supporting the enhancement of this open-source extension of DSpace.

A visit to the community page maintained by DSpace-CRIS users is also recommended: https://wiki.duraspace.org/display/DSPACECRIS/New+Features.

New functionalities are preferably developed for DSpace-CRIS 7 but support for all DSpace versions accepted by the Community is provided. Institutions interested in enhancements for DSpace-CRIS 6.x and DSpace-CRIS 5.x are still welcome to contribute but a plan to implement or support the same use case with version 7 should be provided.

Versioning & support model

Starting from DSpace-CRIS 7 the project has adopted its own versioning model to assure accurate tagging and tracking of the changes across the different releases. Version numbers will use the following schema year.major.minor. The major number will reset to 01 each year, minor number starts from 00 so for example 2021.01.00, 2021.01.01, 2021.02.00, 2022.01.00, etc.

- **Minor versions** are expected to be easier to upgrade to, REST API is guaranteed to be backward compatible;
- **Major versions** are used to highlight important functional or breaking changes. The changelog will highlight the new features, the configuration and REST API changes and the version of the plain DSpace that is used as basis;
- **Year versions** are assumed to be major. Minor version related to the previous year can still occur for security fix.

The latest version is actively maintained by 4Science and community members as volunteer work. Support for past versions will be based on availability of resources and funding from the community. Security fixes will be brought to the current version and the previous major if the current version is a new one (i.e. minor = 00). For example if version 2021.02.00 is the current one, security fixes will be released for both 2021 major 01 and 02, i.e. version 2021.01.01 and 2021.02.01 will be released. Once version 2021.02.01 will be out, security fixes will come as 2021.02.02.

DSpace-CRIS and DSpace releases are independent, the plain DSpace version used as basis for a DSpace-CRIS version will be noted in the changelog. But, whenever appropriate, it will be possible to release an official DSpace-CRIS version based on a DSpace unreleased version (as it was the case for the first DSpace-CRIS 7.0 release). In such situations, the DSpace-CRIS development team will have reviewed the known issues in DSpace and provided custom remediation, workarounds or alternative functionalities to support the relevant use cases. Some limitations can also be acceptable and just noted in the release notes as they may impact edge scenarios or a limited users’ base.

Releases

The first production-ready DSpace-CRIS 7.0 was released the 2nd June 2021. The version supports the key use cases and the most demanded features of DSpace-CRIS according to the priorities defined by the community of users (DSpace-CRIS User Group). The first version of DSpace-CRIS 7.0 addressed priorities 1 and 2 with contributions from supporting institutions (resource effort and/or funding) and volunteer work by 4Science (more than 3,000 hours in 2020 and 2021 on top of what 4Science provided for the plain DSpace 7). The original development plan is available here, where tasks in lower priorities can still be found with estimation.

Current development

As 7.0 version is based on DSpace 7 that is still under development (see: DSpace Release 7.0 Status), changes are being periodically merged from the upstream. With regard to version 7, the two roadmaps will be still separated due to the significant amount of extra functionalities of DSpace-CRIS that is not possible to give back to plain DSpace yet (possibly proposed for DSpace 8).

DSpace-CRIS 7 is developed in the branches named dspcace-cris-7 in the REAt API, Angular and Rest contract repositories maintained by 4Science. The development of DSpace-CRIS closely follows the deploy of the official DSpace 7 and new developments from the mainstream are generally merged in DSpace-CRIS within 1-2 weeks. The code is now very stable and there are projects already running on this codebase that are expected to go in production in the coming months.

DSpace-CRIS 7 moves the CRIS objects to the DSpace items with the extended concept of Configurable Entities, maintaining the Authority Framework as an efficient, flexible, performant way to manage relations among objects, successfully used in hundreds of real installations around the world since more than 10 years.

DSpace-CRIS 7 has many additional features and tailored procedure that enhance the UX and are not available in DSpace 7, some key points are:

- Processes tailored to the entity types
- Many additional data providers
- Support for structured metadata, ternary relationships and nested metadata
- Configurable layout for entities in tabs and boxes
- ORCID v3 complete integration (pull and push of profile information, publications, projects)
Management of personal profiles
Granular permissions at metadata level
Enhanced statistics visualization, reports, export capabilities including CVs in PDF, citation lists according to the CSL, and much more.

Please check the release notes of each DSpace-CRIS version and the technical documentation for more details.

A presentation of the newly released DSpace-CRIS was given at Open Repositories:

Next releases
2021.02.00 in Autumn: it will be focussed on tools to simplify the migration from previous DSpace-CRIS versions (5.x, 6.x), and UX enhancements.
2021.03.00 by the end of year: additional features such as publication claim, administrative merge tool, viewer framework and more.

2021

DSpace-CRIS 7 2021.01.00 June, 2nd

This version fully supports all key use cases for a modern repository and RIMS / CRIS system. It is designed for new users, as migration from previous versions still requires some custom data extraction and transformation.

With DSpace-CRIS 7, 4Science is delighted to announce a number of key enhancements which improve the flexibility, integration, data quality and accuracy of DSpace-CRIS:

- Full ORCID v3 integration (push/pull information)
- Integration with dozen external data sources, including commercial ones, to retrieve bibliographic and bibliometric data
- Support for decentralised management, self-service researcher profile management and approval workflows
- Aligned to the latest OpenAIRE Guidelines for Literature Repositories, Data Archives and CRIS Managers
- Data quality tools ensure that your information is always complete and accurate

These enhancements with DSpace-CRIS 7 build on the new DSpace 7 architecture, featuring a new Angular UI and a fully-featured REST API.

Architecture
- Aligned with DSpace 7
- full REST API with a documented contract
- modern Angular SPA UI

Authentication
- DSpace-CRIS can be integrated with several Identity Provider ranging from Shibboleth, LDAP, OpenID Connect, ORCID to a local username /password (encrypted) database

Data collection
- Submission process for all the entities in the OpenAIRE CRIS information space (Publications, Patents, Products, People, OrgUnits, Projects, Fundings, Equipments, Journals)
- Import from external sources available for most entity types: Fundings from OpenAIRE, Patents from the European Patent Office, OrgUnits from Sherpa/RoMEO (publisher), People from ORCID, Publications from ORCID, PubMed, CrossRef, Scopus, Web of Science, OpenAIRE, arXiv, NASA/ADS, CINii, Scielo, VuFind, PubMed Europe), Journals from Sherpa/RoMEO
- Automatic enrichment of manual submission looking up to the external providers by identifiers
- Bulk operations (creation, update, delete) via xls on all the entities with easy cross-linking (any identifier can be used to link any kind of entities, i.e. publications to a person via an ORCID, staffno, etc) and future reference (link to an entity that is not yet in the system via an identifier that will be resolved later). Bulk operations are validated against your data model, submission configuration and security (mandatory and available fields, relations, etc.)
- Publication Metadata extraction from Scholarly PDF via machine vision (based on the Grobid project)
- Receive automatic alert from compatible providers (OpenAIRE, ORCID) about missing publications or wrong/incomplete data on existing records
- Automatically import new publications for your researcher from Scopus and Web of Science
- Grab bibliometrics data for your publications and authors from Scopus and Web of Science
- Manage complex structured data as nested metadata and ternary relations

Data presentation
- define sections and entry points to explore your repository composing configurable widget such as sorted list of objects (Most viewed, Most cited, Recent additions, etc.), infographics for key indicators (number of publications, researchers, etc.), search facets, browse indexes, advanced search form and branding messages
- easily organise your data without code change in tabs and boxes
- include references to linked entities in any entity page (i.e. the list of publications of a researcher, the list of funding received by a project, etc.)
- present search results and linked entities in a graphical way with pie, line, bar charts
- export your researchers information in professional looking PDF/RDF CV
- export details about your other entities (Funding, Projects, Organisations, etc.) in PDF/RDF fact sheets
- export publications data in citation formats (APA, Chicago, MLA, etc.) via CSL
- show the bibliometrics collected for your publications and authors
include alternative metrics information for your publication from AltMetric and/or Dimension
ORCID and authenticated ORCID are properly displayed in researcher profiles and linked records (publications, projects, etc.)
granular visibility at metadata level based on contextual rules (financial data of a funding visible only to the investigators involved in the project, personal contact data only to HR people, etc.)
rich and extensible usage reports are available for all the entities including direct data (visualization and download) and aggregated data about the linked objects (visualization of researcher's publications, etc.). Data can be visualized in tabular and graphical form with maps and exportable charts (pie, line, bar). Reports can be produced for a specific time frame or since the system setup

Profile management
Researchers can manage directly selected information in their profiles and linked records
List of linked objects in the profile can be amended, hiding unwanted objects (old research) and forcing a preferred visualization order (selected publications, projects, etc.)
ORCID Synchronisation: the researcher can connect/disconnect her local profile with ORCID to received suggestion about missing publication and push update to the ORCID registry
ORCID preferences: it is possible to configure which details are synchronised (biographic information, affiliation, qualification, education, publications, funding) setting a manual or automatic (over the night) push

Data quality & accuracy
Identify potential duplicate during the submission and approval workflow
get flags for unrelated entities or uncertain matches (i.e. not identified authors in a publication, investigator in a project, etc.). Option to automatically create new records for specific entity types or manual curate the authorities
configurable lookup authorities both internals than externals, such as the personal staff, the ORCID registries, the recorded fundings, the OpenAIRE project database and more
default to international approved data model (CERIF / OpenAIRE) and controlled vocabularies (COAR)
retains identifier for external entities for future use and automatic match (i.e. ORCID of external authors)
enforced validation in bulk operation to guarantee that the record structure always match your definition (i.e. the proper metadata are used according to the entity definition)
Receive automatic alert from compatible providers (OpenAIRE, ORCID) about missing publications or wrong/incomplete data on existing records
Automatically ingest publications for your researchers from Scopus and Web of Science
Configurable workflows by collection and entity types to involve librarians, research officer, legal, ethical and financial department in data input and verification
Correction workflow to be used by less privileged user to request correction on existing record that need to be moderated
Easily to monitor and organise tasks queue for approvals, changes in correction requests are highlighted

Data security
enforced granular security at the metadata level across the whole platform: REST API, export and import tool, visualization
support for partial editing so that researcher can edit some (configurable) information in their profile and their related records without touching master data coming from external systems or under the Institution responsibility
easily access to an audit log of all the operations performed on a record
REST API are protected using JWT, SSL, CSRF Token

Interoperability
- Connectors to retrieve records (Publication, Person, Funding, OrgUnit, Journal) from 17 external data sources
- Connectors to retrieve bibliometrics data for your publications and authors from Scopus and Web of Science
- Full integration (push/pull) with ORCID via v3 API and support for WebHook (Premium API)
- Aligned to the latest OpenAIRE Guidelines for Literature Repositories (v4, v5), Data Archives (v4 unreleased) and CRIS Managers (v1.1.1)
- Full REST API
- export options in XML, CERIF XML, XLS for all the entities

based on DSpace 7.0-SNAPSHOTS (REST commit ebd54ff, Angular commit f85a5e6)

2020
We are ready to tag a new official DSpace-CRIS 5 and 6 releases after the cut of the official DSpace 6.4 and 5.11 versions, up to now we are still working on snapshot releases. The following features have been introduced:

Updates to the ORCID Integration
- switch to the ORCID v3 API
- possibility to link the local researcher profile to ORCID getting authenticated ORCID without being forced to enable the ORCID login for the whole platform
- ability to force push / remove objects from the queue
- improved logging and feedback to the user when there are sync issues
- deal with discrepancies between ORCID and DSpace-CRIS in the datamodel when links are used in place of text and viceversa
- better performance with parallel requests to get details during a lookup

Submission
- support for a fast local mode in the authority lookup so to avoid unnecessary calls to external services when looking for internal references (local profiles, projects, etc)
• more details retrieved from WOS API (Keywords PLUS, ArticleNumber)
• better handling of network resources and throttling with Pubmed and WOS
• flag potential duplicates early in the start submission lookup step (by identifiers)
• Unpaywall integration to grab and/or link to open access fulltext where available

Other

• Processor to visualize (top) objects on a map
• Configurable component to visualize hierarchical relations (orgunits, suborgunits, etc.)
• Improved multi-language support for CRIS metadata, now a fallback language is supported and labels can be set in messages.properties also for the edit screens
• Adherence to the new GeoLite 2 distribution policy
• Removed use of the jxl (outdated) library to deal with excel files
• Added CRIS objects to the sitemaps
• Script to export CRIS objects
• Script to unsubscribe an eperson from all notifications

2018/2019

DSpace-CRIS 5.10 (not official released but our recommended version: please use the snapshot - 5.9 skipped)

*** These features are already available on the 5_x_x maintenance branch ***

• Alignment to the latest official minor releases of DSpace
• Functional alignment between versions 5.x --> 6.x
• International Standards:
  • ResourceSync enabled out-of-box
  • Compliance with the OpenAIRE guidelines supporting the Datacite Schema 4.1 for Data Archives to better disseminate the datasets*
  • Compliance with the OpenAIRE guidelines for CRIS Manager v1.1.1
• CRIS Objects management:
  • Delegation of the Administrative UI for the edit and deletion of CRIS entities. To delegate the creation of new CRIS entities it is needed to setup a special collection and a ItemFiller mapping that will convert items to CRIS object upon submission see How to collect data about CRIS entities
  • Concept of CRIS Owner to allow delegation on edit (PI of a project, Journal Director, etc.)
  • Support for granular edit permissions on DSpace-CRIS objects
  • Improved procedure to update data model configuration
  • Light support for multilingual attributes in DSpace-CRIS entities
  • Support UI sorting of nested CRIS objects (i.e. sorting of affiliation by date, by role, etc.)
  • Script to identify and merge duplicated CRIS Objects (Researcher profiles, etc.) - merge of duplicate publications is also already available in UI since version 3
• Add linked objects from the CRIS detail page (publications to a project, projects to a researcher profile, etc.)

• Submission-related features:
  • Integration with Grobid providing automatic extraction of metadata from PDF file (using computer vision not limited to properties in the PDF file)
  • import of multiple records at once in the StartSubmissionLookup
  • Import and feed publications from ADS (Astrophysics Data System)
  • Project Lookup and import from OpenAIRE via REST API*
  • Journal Lookup and import from ZDB database (journal database maintained by Staatsbibliothek zu Berlin, Preußischer Kulturbesitz and Deutsche Nationalbibliothek)
  • Ability to import data from linked entities in the item during the submission to provide suitable default (i.e. nested affiliation of authors as appear in the publication prefilled with the current affiliation)
  • fix: Scopus, Pubmed & Crossref can be used as a search provider (title, authors, year) other than lookup by identifier
• Researcher profile management features:
  • Improved publication claiming: researchers are able to claim their role in existing publications (manually or via list of potential matches and bulk claiming)
  • Several improvements & fix to the full (push/pull) ORCID integration, including:
    • switch to v2.1 (from 2.0)
    • Automatic import of new publications from ORCID (webhooks)
    • a new script to pull biographic update from the ORCID registry
• End user features
  • Login in page
  • Support for the Dimensions badge
  • Improved Altmetric badge (supporting also the ISBN identifier)
  • Statistics improvements (including the unknown category in region, country, city)
• New statistics about the workflow process

* these developments have been funded by OpenAIRE, as result of a public CFP in February 2018, see the announcement here

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DSpace-CRIS 6.3 (not official released, please use the snapshot)

• Alignment to the latest official minor releases of DSpace (still in progress)
• Functional alignment between versions 5.x --> 6.x (still in progress)
During the submission process, users can choose an ORCiD and check which bug fixes from DSpace.

Switch to the ORCID API v2, see https://members.orcid.org/api/news/xsd-20-update

5.8 (released on September 15th, 2017) - see the full announcement here: https://www.4science.it/en/2017/09/14/dspace-cris-5-8-and-orcid-v2-api-support-release-announcement/

- Switch to the ORCID API v2, see https://members.orcid.org/api/news/xsd-20-update
- bug fixes from DSpace

5.7 (released on August 8th, 2017) - see the full announcement here: https://www.4science.it/2017/08/09/dspace-cris-5-7-release-announcement/

- Hierarchy metadata support for DSpace items (new addition from the RC): It is now possible to configure one or more metadata as child of another one. If the parent metadata is repeatable, adding an additional value for the parent metadata will allow to input values also for the linked child metadata. Currently only text-based (onebox) metadata can be used as child metadata but support for the other input types will be added in subsequent minor releases.
- Signposting support: DSpace-CRIS is more machine friendly than never. It supports now the following signposting patterns: Author, Identifier, Publication Boundary
- The CORE Recommender Engine integration: Display documents that are semantically similar. Powered by CORE https://core.ac.uk/. You can take a look at our example here: https://dspace-cris.4science.it/handle/123456789/102
- Authority Lookup based on Getty Vocabularies: For more information about Getty Vocabularies please check https://www.getty.edu/research/tools/vocabularies/index.html; DSpace-CRIS implementation involves both the "Getty Thesaurus of Geographic Names Online" (https://www.getty.edu/research/tools/vocabularies/tnn/index.html) and "The Union List of Artist Names" (ULAN - https://www.getty.edu/research/tools/vocabularies/ulan/index.html)
- Authority Lookup based on Viaf service: The VIAF® (Virtual International Authority File) combines multiple name authority files into a single OCLC-hosted name authority service. More info at https://viaf.org/
- Import ORCiD publications via Submission Data Loader: During the submission process, users can choose an ORCiD and check which publications to import
- Cookies Policy Popup: This feature allows easy compliance with the EU legislation on cookies
- Other minor improvements: It is now possible to clean Solr statistics entries via WebUI; to upgrade Hibernate and Spring to the minor versions; we have improved the automatic calculation of derived metrics and the creation of CRIS objects as part of the submission process
- Other minor fixes: the out-of-box DSpace OAI Harvesting in DSpace-CRIS; the DSpace-CRIS SOAP web-services; the DSpace-CRIS Network when users try to show many graphs

6 RC / 5.7 RC (released on June 27th, 2017) - see the full announcement here: http://duraspace.org/articles/3236

- The CORE Recommender Engine integration: Display documents that are semantically similar. Powered by CORE https://core.ac.uk/. You can take a look at our example here: https://dspace-cris.4science.it/handle/123456789/102
- Authority Lookup based on Getty Vocabularies: For more information about Getty Vocabularies please check https://www.getty.edu/research/tools/vocabularies/index.html; DSpace-CRIS implementation involves both the "Getty Thesaurus of Geographic Names Online" (https://www.getty.edu/research/tools/vocabularies/tnn/index.html) and "The Union List of Artist Names" (ULAN - https://www.getty.edu/research/tools/vocabularies/ulan/index.html)
- Authority Lookup based on Viaf service: The VIAF® (Virtual International Authority File) combines multiple name authority files into a single OCLC-hosted name authority service. More info at https://viaf.org/
- Signposting: DSpace-cris now provides out-of-box support for the Author, Identifier, Publication Boundary patterns, http://signposting.org/
- Import ORCiD publications via Submission Data Loader: During the submission process, users can choose an ORCiD and check which publication to import
- Cookies Policy Popup: this feature allows easy compliance with the EU legislation on cookies
- Other minor improvements: it's now possible to clean Solr statistics entries via WebUI; to upgrade Hibernate and Spring to the minor version; we have improved the automatic calculation of derived metrics and the creation of CRIS objects as part of the submission process
- Other minor fixes: the out-of-box DSpace OAI Harvesting in DSpace-CRIS; the DSpace-CRIS SOAP web-services; the DSpace-CRIS Network when users try to show many graphs

2016

5.6 (released on November 16th, 2016 - click here to browse the code on github) / include the release of DSpace-CKAN integration module

The release includes the security fixes already available in DSpace JSPUI 5.6, making it easier to upgrade from a recent DSpace version to DSpace-CRIS (no more need to run sql scripts manually) and brings a lot of new and exciting features:

- UI Extendibility: the webapp can now use the servlet 3.0 specification, enabling the creation and plug-in of external modules with their specific web UI components and pages. An extension point has been introduced to plugin viewers dedicated to particular bitstreams.
- Edit metadata for any DSpace Object via the UI: it is now possible to edit/add/remove metadata for Communities, Collections, Bundles and Bitstreams, to simplify the management of further functionalities based on custom metadata.
- Edit archived Items with UI submission: administrators can now edit archived or withdrawn items using the same UI available for submissions, exploiting functionalities such as dropdown, autocomplete, ORCID lookup, validation, etc.
The template item now supports the use of substitution variables bound to dynamic code plugged in as spring bean. Click here to browse the code on github https://github.com performed on server side to save bandwidth overload. An example is visible here: access condition defined in DSpace (Open Access, embargo, etc.). The dataset preview allows filtering, pagination and sorting, all the operation are performed on server side to save bandwidth overload. An example is visible here: https://dspace-cris.4science.it/handle/123456789/31

5.5 (released on March 27th, 2016 - click here to browse the code on github)

- Global Statistics: to provide a global view over the repository usage, visualization, download and deposit trends
  http://demo-dspace-cris.cineca.it/cris/stats/site.html?handle=123456789/0&type=item
- Facets for dynamic components: publications list, projects list and any other dynamic component included in the researcher profiles or in other CRIS entity details page (project, organization, etc.) can now provide faceting capabilities
  http://demo-dspace-cris.cineca.it/cris/p/p00006
- Bibliographic export for publications: researcher's publication list can be exported in several format by the profile owner and search results can be exported by the repository administrators
- Incremental Authority from previous value: to suggest terms from values already added into the system to keep metadata clean and to avoid misspelling. Common use cases include keywords, publishers, etc.
- Direct access to the researcher profile using external identifiers: make it easy to link external systems to your DSpace-CRIS installation without the need to know the internal identifier. For instance you can address your researcher profiles using their ORCID

5.4 (released on February 15th, 2016 - click here to browse the code on github)

- There is now a general infrastructure to support metrics about any DSpace/DSpace-CRIS objects, such as traditional bibliometrics for publications, authors, journals, alternative and local metrics.
- DSpace-CRIS is now integrated out-of-box with Scopus, Web Of Science, and PubMed Central to collect, show and process citation data. The AltMetrics badge can be shown beside the other metrics.
- For any defined metric DSpace-CRIS allows for calculating objects' local ranking and percentile in order to provide the "most cited" component to different web pages (the home page or any other specific Department/Office pages).
- Internal statistics have been elaborated as usage metrics to make them available for "Most viewed", "Most downloaded" components and to calculate local percentile.
- Metrics data can now be exposed in "listing" to make browsing and searching easier, and they can also be used as sorting criteria. This is done by extending the SOLR capability to load additional information from an external source. This feature enables future improvements such as support for "user rated content" to DSpace.
- Another important new development is the ability to load and update CRIS' objects into the system using XLS file, a similar approach to what is actually supported by DSpace for standard items. The feature allows a user to set any kind of field, including the relations between different objects (such as org.unit and researchers, projects and researchers, etc.), and custom fields.
- The data model configuration has been simplified, indeed it is now possible to easily export and import the configuration also using XLS files.
- There is now a better integration between DSpace-CRIS and ORCID. When a researcher creates her profile in the local DSpace-CRIS, the system automatically collects all the biographic information (such as biography, additional names, external URLs, additional identifiers) from ORCID, both when the researcher directly accesses the system, as well as when a new publication is added to the system that the researcher is co-authoring.
Additionally, the new version has improved the layout and navigation experience: the navigation menu invites the user to explore the repository contents by "Entity", offering the appropriate tools for each specific type of content such as dedicated browse indexes, advanced search options and components to highlight recent or featured content.

2015

5.3 (released on August 15th, 2015 - click here to browse the code on github)
- Classification widget for CRIS entities (support for hierarchy taxonomy)

5.2.1 (released on July 24th, 2015 - click here to browse the code on github)
- ORCID integration: ability to push biographic data, publications and projects to the ORCID profile
- Boolean widget for CRIS entities
- Text Widget for CRIS entities now support input from controlled list using dropdown, checkbox or radio buttons

5.2 (released on May 25th, 2015 - click here to browse the code on github)
- ORCID integration (authentication)
- Ability to claim profiles (submission lookup on ORCID)
- Global search with Text Highlighting

4.3 (released on Apr 15th, 2015 - click here to browse the code on github)
- many layout improvement
- Global Search funded by University of Hong Kong
- ORCID integration (authentication, submission lookup and import into cris)

4.2 (released on Mar 11th, 2015 - click here to browse the code on github)
- bug fixing of the 4.1.2 release and update to DSpace 4.2 release

2014

4.1.2 (released on Jul 12th, 2014 - click here to browse the code on github)
- bug fixing of the 4.1.1 release

4.1.1 (released on Jun 28th, 2014 - click here to browse the code on github)
- bug fixing of the 4.1.0 release

4.1.0 (released on Jun 13rd, 2014 - click here to browse the code on github)
- upgrade to DSpace 4.1 and to the bootstrap layout also for the DSpace-CRIS pages
- full support for Oracle (tested on 11.g R2 and 12.c), other than PostgreSQL 9.x
- Extensive testing on Oracle
- Easier installation process

2013

1.8.3-beta (released on Sep 6th, 2013 - click here to browse the code on github)
- bug fixing of the 1.8.2.1-beta release
- upgrade to dspace 1.8.3 (security fix)

3.2.0-beta (first draft on Jul 31, 2013 - released on Aug 3rd, 2013 - click here to browse the code on github)
- porting to DSpace 3.2

1.8.2.1-beta (released on July 24th, 2013 - click here to browse the code on github)
- bug fixing of the 1.8.2.0-beta release
- Data Model: ability to define new object types via UI to manage 2nd level CRIS entities: prize, equipment, laboratory shared and linked to one or more 1st or 2nd level CRIS entities
1.8.2.0-beta (released on June 24th, 2013 - click here to browse the code on github)

- Usage Statistics
  1. CRIS entity detail page visit
  2. Global & Top related CERIF Entity views & downloads referencing the CRIS entity (projects for researchers, researchers for OrgUnits, etc.)
  3. Global & Top item views & downloads referencing the CRIS entity
  4. email and RSS alerts
- PubMed Article level metrics
  1. cited-by count in the item page
  2. number of pubmed articles for researcher
  3. total citations in pubmed for researcher (only items in local DSpace database will be counted)
- Integration with DSpace
  1. ability to hide publications (or any other related entity: projects, etc.) in the researcher profile
  2. make a list of selected publications (or any other related entity: projects, etc.)
  3. claim/disclaim (link/unlink) previously DSpace entered publication items, to a researcher profile
- SOAP WebServices for READ-ONLY access to CRIS information
- Network visualization and analysis

1.8.2.0-alpha1 (unreleased, available on github since February 4th, 2013 )

- bug fixing of the alpha release

2012

1.8.2.0-alpha (released on November 26th, 2012)

- Management of the 1st level CRIS entities: Researcher Profiles, Projects, Organization Units
  1. Administrative UI for data model definition using the JDynA framework
  2. Detail page for any entity organized in Tab and Box themed with JQuery UI
  3. Faceted Search using the DSpace Discovery 3.0 configuration
  4. Customizable Browse indexes using a backport of the SOLR Browse DSpace 3.0 contribution
- Basic integration of DSpace-CRIS entities with publications (DSpace Item):
  1. CRIS entities as authority for Item metadata
  2. list of referencing DSpace Items in the detail page of the CRIS entities