DC21 Release Notes

Release version 2.0.01

Peter Bugeia | 4 March 2014| 0.1

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1. Overview

The DC21 application is a Ruby on Rails application initially built by [Intersect Australia](http://www.intersect.org.au/)  for the [Hawkesbury Institute for the Environment](http://www.uws.edu.au/hie/hie)  as part of an an [ANDS-Funded Data Capture Project - DC21 - Climate Change and Energy Research Facilities](http://projects.ands.org.au/id/DC21).

The resultant HIEv data capture system has been in production at UWS HIE since February 2013.The current release version is 1.9.04.

This version, 2.0.01, has been funded by Macquarie University, Faculty of Business and Economics to support the Faculty’s marketing research and other research projects. In addition to Macquarie University:

* NeCTAR (see [www.nectar.org.au](http://www.nectar.org.au)) has contributed funds to improve dc21’s installability in a cloud computing environment.
* Intersect has made in-kind contributions in the development and marketing of the application to help make the application more useful to a wider research community.

Introductory information about DC21 can be found here: <https://github.com/IntersectAustralia/dc21-doc/blob/master/README.md>.

Source code is available at: <https://github.com/IntersectAustralia/dc21>.

1. System Requirements

The recommended minimum environment for hosting the web application is as follows.

* A Linux server, preferably RHEL6.x/CentOS 6.x (el6) with the standard "Server" packages installed.
* 4 cores, contemporary chipset +2.5GHz.
* 4GB of RAM.
* Postgresql (8.1.x or later)

NOTE: Additional cores and RAM may be required if multiple concurrent users download large files simultaneously.

1. Installation / Upgrade Instructions

**Server-side**

If you are installing dc21 for the first time, refer to the following instrcutions: <https://github.com/IntersectAustralia/dc21-doc/blob/2.0.01/Deployment_Guide_-_First_Time_Server_Build.md>

Alternatively, if you are upgrading from version 1.9 to Version 2.0, see the following instructions:

<https://github.com/IntersectAustralia/dc21-doc/blob/master/Upgrading_From_1.9.04_to_2.0.01.md>

NOTE: The tag for this release is as per the Release version above. This tag must be selected during the installation process (the install process will request that you select a tag from a list of available tags). If later tags are available, choose the latest “2.0.nn” tag. If in doubt, you should check with the Intersect development team (see <http://www.intersect.org.au/contact>) as to which tag should be used.

NOTE: If you are upgrading, you should not attempt to run client-side API scripts until the client-side automated upload scripts have been upgraded too. For details, see Client-side Automated Upload section below.

**Client-side Automated Upload**

If you are installing the Dc21 client-side API for the first time, refer to: <https://github.com/IntersectAustralia/dc21-doc/blob/2.0.01/Setting_Up_Automated_Load_From_PC.md>.

Alternatively, if you are upgrading from version 1.9, you don’t need to re-run the setup scripts. Instead, you should follow these instructions:

1. Download the API zip file (see above link to do the download)
2. Extract the IntersectAustralia-restful-api-uploader-xxxxxxx folder and place this folder in the same folder as the existing IntersectAustralia-restful-api-uploader folder. (xxxxxxx is a unique 7 digit hex string).
3. Use Notepad to edit the windows\_api\_load.bat file “ruby” command to refer to the new IntersectAustralia-restful-api-uploader-xxxxxxx folder. For example:

ruby "C:\scripts\DC21\IntersectAustralia-restful-api-uploader-2c20fa8\lib\run\_wrapper.rb" ....

1. You should now be ready to run the client-side API

NOTE: There are new configuration parameters available for the transfer\_config.yml file. Refer to the above link, “Edit confile file” section, see parent\_filenames and label\_names. Parent/child relationships and dynamic labeling features are fully described in the Version 2.0 User Manual.

1. Required Changes to Client Software that uses the API

No changes are required to client software. The API is backwards compatible with version 1.9 functionality.

1. Known Issues and Limitations

* Frequently adding large numbers of files (>1,000) and data (>1GB) to the cart and invoking the Download or Package functions is not recommended as these actions may impact on system performance.
* The cart list is not paginated and may become unusable if more than 1,000 files are added to it.
* The API search function returns an un-paginated json list. This list may become very large (and may take some time to download) if API search is unfiltered.
* Manual file downloads fail when run with Internet Explorer Version 11 on Windows Surface tablet. Internet Explorer Version 11 is not currently supported.
* The automated API upload has a time-out set to 30 minutes for individual file uploads. This means that uploads of large files over a slow network thus taking longer than 30 minutes will not complete successfully. There is a workaround: The time-out can be increased by editing the first line of the file\_upload.rb file in the lib folder of the installation download.

1. Test Report

**Intersect Test Environment**  
Testing was done in the Intersect QA and Staging environments. Acceptance testing was conducted in the customer’s production deployment environment. Testing was conducted for all Version 2.0 deployment Jira items and full regression testing was conducted to assure new changes did not negatively impact existing functionality.

**Intersect QA/Testing approach**

1. Specifications are written with testing in mind.
2. Developers do unstructured unit tests, then when ready they release to QA environment where testers can verify changes.
3. QA/Testers test against the Jira story – This includes structured & unstructured testing, and any feedback is dicussed with Developers/ P.O.’s as required. New Jiras are raised as required for found issues.
4. QA/Testers upgrade Manual regression tests.
5. Automated tests are run through Jenkins to assure System integration testing  
   Code freeze.
6. Final release End to end Manual Regression testing is conducted to assure full functionality.
7. Testing of the User Manual.
8. DELIVERY TO CUSTOMER for User Acceptance Testing.

**QA/Testing Results**

1. Pass – Acceptance criteria was accepted by dev team and QA.
2. Pass - Manual Testing conducted against all Jira Items in the Sprint.
3. Pass - Manual Testing conducted by QA team against all Jira Items in the Sprint. Automated tests were developed as required.
4. Pass - Manual Regression testing of specific scenarios which couldn’t be automated was conducted and passed without any Major issues.
5. Pass - Browser testing was conducted against the build and passed without any Major issues. Jenkins run against versions 2.0.01 build, and restful-api-uploader passed against the target version. One round of Performance testing was conducted against the build, performance targets were met.
6. Pass – all end to end manual regression tests successfully executed.
7. Pass - The User Manual updates were developed and verified against the Build.
8. Pass – 2 runs of User Acceptance Testing were performed according to an agreed test plan, with the second run being signed off by the customer.
9. New Features

New features are described in the user manual.

| **Type** | **Jira #** | **Summary** | **Story Points** |
| --- | --- | --- | --- |
| [[tory](https://track.intersect.org.au/browse/EYETRACKER-1)](https://track.intersect.org.au/browse/EYETRACKER-1) | [EYETRACKER-1](https://track.intersect.org.au/browse/EYETRACKER-1) | [As System Owner I want to enter a Local System Name and my organization’s names and details](https://track.intersect.org.au/browse/EYETRACKER-1) | 3 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-2) | [EYETRACKER-2](https://track.intersect.org.au/browse/EYETRACKER-2) | [As a User I want to register and login using my AAF organizational ID so that I don't have to remember multiple IDs](https://track.intersect.org.au/browse/EYETRACKER-2) | 5 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-4) | [EYETRACKER-4](https://track.intersect.org.au/browse/EYETRACKER-4) | [As a Researcher I want to define parent/child relationships between files so that I can capture the provenance / currency of a file](https://track.intersect.org.au/browse/EYETRACKER-4) | 3 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-7) | [EYETRACKER-7](https://track.intersect.org.au/browse/EYETRACKER-7) | [As a Research Assistant, when I upload a scanned shopping docket I want the system to automatically OCR it](https://track.intersect.org.au/browse/EYETRACKER-7) | 3 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-8) | [EYETRACKER-8](https://track.intersect.org.au/browse/EYETRACKER-8) | [As a Research Assistant, when I upload an interview recording I want an automatic speech recognition task to be initiated to create a demo transcript](https://track.intersect.org.au/browse/EYETRACKER-8) | 3 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-87) | [EYETRACKER-87](https://track.intersect.org.au/browse/EYETRACKER-87) | [Allow the Parameters metadata for an experiment to be disabled.](https://track.intersect.org.au/browse/EYETRACKER-87) | 1 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-88) | [EYETRACKER-88](https://track.intersect.org.au/browse/EYETRACKER-88) | [As a researcher I want to add dynamic labels to files so that I can easily label and find files relevant to my research](https://track.intersect.org.au/browse/EYETRACKER-88) | 2 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-91) | [EYETRACKER-91](https://track.intersect.org.au/browse/EYETRACKER-91) | [As a researcher I want to search for files using dynamic labels](https://track.intersect.org.au/browse/EYETRACKER-91) | 1 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-92) | [EYETRACKER-92](https://track.intersect.org.au/browse/EYETRACKER-92) | [As System Owner I want the system to display my organisational logo](https://track.intersect.org.au/browse/EYETRACKER-92) | 1 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-93) | [EYETRACKER-93](https://track.intersect.org.au/browse/EYETRACKER-93) | [As System Administrator I want to deploy the system to the NecTAR cloud](https://track.intersect.org.au/browse/EYETRACKER-93) | 5 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-95) | [EYETRACKER-95](https://track.intersect.org.au/browse/EYETRACKER-95) | [As System Owner I want the Local System Name to be displayed on all screens so the system is branded FBE and users can differentiate between production and training systems](https://track.intersect.org.au/browse/EYETRACKER-95) | 1 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-97) | [EYETRACKER-97](https://track.intersect.org.au/browse/EYETRACKER-97) | [As a Researcher, I want the system to display file relationship information in the README.HTML for files which are packaged](https://track.intersect.org.au/browse/EYETRACKER-97) | 1 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-101) | [EYETRACKER-101](https://track.intersect.org.au/browse/EYETRACKER-101) | [As System Owner I want my organization’s names to be displayed in lists and forms](https://track.intersect.org.au/browse/EYETRACKER-101) | 1 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-102) | [EYETRACKER-102](https://track.intersect.org.au/browse/EYETRACKER-102) | [As System Owner I want my organisation's details to be included in the README.HTML of Packages when they are created](https://track.intersect.org.au/browse/EYETRACKER-102) | 1 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-106) | [EYETRACKER-106](https://track.intersect.org.au/browse/EYETRACKER-106) | [As a Data Uploader, I want the transfer config script to refer to Level 2 identifiers not experiment-id](https://track.intersect.org.au/browse/EYETRACKER-106) | 3 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-115) | [EYETRACKER-115](https://track.intersect.org.au/browse/EYETRACKER-115) | [As a researcher I want my organization’s details displayed in the RDFA of the README.HTML](https://track.intersect.org.au/browse/EYETRACKER-115) | 1 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-117) | [EYETRACKER-117](https://track.intersect.org.au/browse/EYETRACKER-117) | [As a researcher I want dynamic labels to be included in a package's README.HTML](https://track.intersect.org.au/browse/EYETRACKER-117) | 1 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-134) | [EYETRACKER-134](https://track.intersect.org.au/browse/EYETRACKER-134) | [As a researcher I want to search on File Format](https://track.intersect.org.au/browse/EYETRACKER-134). | 2 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-135) | [EYETRACKER-135](https://track.intersect.org.au/browse/EYETRACKER-135) | [As a Research Assistant I want to search on Status so I can see which OCR, SR and other auto processing jobs have failed](https://track.intersect.org.au/browse/EYETRACKER-135). | 2 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-136) | [EYETRACKER-136](https://track.intersect.org.au/browse/EYETRACKER-136) | [As a Research Assistant I want to define rules which tell the system which image and sound files to auto-process on upload](https://track.intersect.org.au/browse/EYETRACKER-136) |  |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-137) | [EYETRACKER-137](https://track.intersect.org.au/browse/EYETRACKER-137) | [As a Research Assistant I want to manually invoke file processing (OCR and SR) on an existing file once I have fixed problems](https://track.intersect.org.au/browse/EYETRACKER-137) | 1 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-138) | [EYETRACKER-138](https://track.intersect.org.au/browse/EYETRACKER-138) | [As a Research Assistant I want to invoke file processing (OCR and SR) on a file I am uploading](https://track.intersect.org.au/browse/EYETRACKER-138) | 2 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-140) | [EYETRACKER-140](https://track.intersect.org.au/browse/EYETRACKER-140) | [As a Researcher I want parent/child relationships to be created during OCR and SR processing and Package creation](https://track.intersect.org.au/browse/EYETRACKER-140) | 2 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-144) | [EYETRACKER-144](https://track.intersect.org.au/browse/EYETRACKER-144) | [As a user, I want unused labels to be removed from users view so they don't clutter up the system](https://track.intersect.org.au/browse/EYETRACKER-144) | 1 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-151) | [EYETRACKER-151](https://track.intersect.org.au/browse/EYETRACKER-151) | [As a researcher I want a commercial OCR tool integrated into eyeTRacker](https://track.intersect.org.au/browse/EYETRACKER-151). | 2 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-152) | [EYETRACKER-152](https://track.intersect.org.au/browse/EYETRACKER-152) | [As a researcher I want a commercial speech recognition tool integrated into eyeTRacker](https://track.intersect.org.au/browse/EYETRACKER-152) | 2 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-170) | [EYETRACKER-170](https://track.intersect.org.au/browse/EYETRACKER-170) | [As a researcher I want to assign parent relationships on file upload](https://track.intersect.org.au/browse/EYETRACKER-170) | 2 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-172) | [EYETRACKER-172](https://track.intersect.org.au/browse/EYETRACKER-172) | [As a researcher I want to assign parent relationships on API file upload](https://track.intersect.org.au/browse/EYETRACKER-172) | 2 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-176) | [EYETRACKER-176](https://track.intersect.org.au/browse/EYETRACKER-176) | [As a researcher I want file management utility software to run on tablet pc to auto-upload files to DIVER](https://track.intersect.org.au/browse/EYETRACKER-176) | 3 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-180) | [EYETRACKER-180](https://track.intersect.org.au/browse/EYETRACKER-180) | [As a user I want the system to warn me if I try to delete a file which is involved in a parent/child relationhsip](https://track.intersect.org.au/browse/EYETRACKER-180) | 1 |
| [tory](https://track.intersect.org.au/browse/EYETRACKER-181) | [EYETRACKER-181](https://track.intersect.org.au/browse/EYETRACKER-181) | [As an uploader if a TOA5 file is replaced on upload, parent / child relationships should be maintained](https://track.intersect.org.au/browse/EYETRACKER-181) | 1 |

1. Bug Fixes

Only those bugs present in Version 1.9 are listed below.

| **Type** | **Key** | **Summary** |
| --- | --- | --- |
| [Bug](https://jira.intersect.org.au:8443/browse/DC21-593) | [EYETRACKER-124](https://track.intersect.org.au/browse/EYETRACKER-124) | PROD Search API: facilities parameter isn't working |
| [Bug](https://jira.intersect.org.au:8443/browse/DC21-593) | [EYETRACKER-164](https://track.intersect.org.au/browse/EYETRACKER-164) | Powered By should be DC21 |
| [Bug](https://jira.intersect.org.au:8443/browse/DC21-593) | [EYETRACKER-204](https://track.intersect.org.au/browse/EYETRACKER-204) | Windows API uploader log info is not visible during processing |
| [Bug](https://jira.intersect.org.au:8443/browse/DC21-593) | [EYETRACKER-212](https://track.intersect.org.au/browse/EYETRACKER-212) | Response time issue during api upload of 256MB zip file |