**Intersect Australia Ltd**
PO Box H58, Australia Square
Sydney NSW 1215

**T** +61 2 8079 2590

**ABN** 67 131 752 657

# DC21 Release Notes

## Release version 2.1.02

Peter Bugeia | 28 April 2014| 0.1

## Contents

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# 1 Overview

The DC21 application is a Ruby on Rails application initially built by Intersect Australia for the Hawkesbury Institute for the Environment (HIE) as part of an an ANDS-Funded Data Capture Project - DC21 - Climate Change and Energy Research Facilities.

The resultant HIEv data capture system has been in production at UWS HIE since February 2013. The application is also in production at Macquarie University, Faculty of Business and Economics to support the Faculty's marketing research and other research projects.

Intersect is developing DC21 as a general-purpose data capture product offering know as DIVER. For more information, see http://www.intersect.org.au/content/intersect-diver.

The current release version is 2.0.01. This version, 2.1.02, has been jointly funded by the University of Western Sydney and Intersect to support HIE's growing data sharing and collaboration needs.

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.

# 2 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.

# 3 Installation / Upgrade Instructions

**Server-side**

- If you are installing dc21 for the first time, follow these instructions: https://github.com/IntersectAustralia/dc21-doc/blob/2.1.02/Deployment_Guide_-_First_Time_Server_Build.md
- If you are upgrading from version 2.0 to Version 2.1, follow these instructions:

  "Updating Your System" in the page https://github.com/IntersectAustralia/dc21-doc/blob/2.1.02/Deployment_Guide_-_Deploying_A_New_Version.md
- If you are upgrading from version 1.9 to version 2.1, the upgrade needs to be done in two steps:
  1. Follow these instructions: https://github.com/IntersectAustralia/dc21-doc/blob/2.1.02/Upgrading_From_1.9.04_to_2.0.01.md
  2. Then follow the instructions above to upgrade from version 2.0 to version 2.1.

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 "2.1.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/2.1.02/Setting_Up_Automated_Load_From_PC.md.

Alternatively, if you are upgrading from version 1.9 or version 2.0, 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" ....
4. You should now be ready to run the client-side API

NOTE: There are new optional configuration parameters available for the transfer_config.yml file. Refer to the above link, "Edit config file" section, see new access control parameters. Access control is fully described in the Version 2.1 User Manual.

# 4 Required Changes to Client Software that uses the API

The new access control functionality in version 2.1 means that the json returned by an API search may contain null entries for many metadata fields where data was previously returned in earlier versions. This will occur if the user who is making the API call is not authorized to access a file's metadata details which are being returned by the search. The calling program may therefore need to change validation and/or processing to cater for null entries in returned json fields.

The new access control functionality in version 2.1 also means that attempting a download either from a script or directly via a browser URL will produce an Unauthorized message if the user is not authorized to access the file being downloaded.

# 5 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.

# 6 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 2.1 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.

**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.

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# 7 New Features

New features are described in the user manual.

| Issue Type | Key | Summary | Story Points |
|---|---|---|---|
| Story | UWSDEV-71 | As a researcher, I want the download from API feature to honour the privacy settings I have for my datafiles, so that only people I want have access to the files | 1 |
| Story | UWSDEV-70 | As a researcher, I want the API search to honour the privacy settings of the files I uploaded, so that only people I want to can see the file metadata for them. | 1 |
| Story | UWSDEV-69 | As a researcher, I want to be able to specify privacy settings when uploading via the API. | 1 |
| Story | UWSDEV-68 | As a researcher, I want the file access lists to be access restricted, so that only users I give access to can view my files metadata | 1 |
| Story | UWSDEV-67 | As a researcher, I don't want to be able to download files that I have no access to. | 1 |
| Story | UWSDEV-66 | As a researcher, I want to be able to specify the privacy settings of the file when it is being uploaded, so that only people I want to see it has access to it. | 2 |
| Story | UWSDEV-65 | As a researcher, I want to be able to edit the privacy settings of my file, so that only people I want to see the file can access it. | 2 |
| Story | UWSDEV-58 | As an Administrator I want to allow guests to have restricted access to certain files | 1 |
| Story | UWSDEV-54 | As Data Manager I want EXIF metadata to be included in the README.HTML of generated packages | 1 |
| Story | UWSDEV-51 | File Access Control: API changes | 2 |
| Story | UWSDEV-49 | As an administrator I want to create and manage file access control groups | 2 |
| Story | UWSDEV-43 | DC21: As a researcher I want an image file previewer so I can quickly determine if the content is of interest to me | 2 |
| Story | UWSDEV-42 | DC21: As a researcher I want EXIF metadata extracted from uploaded image file types which support it | 1 |

| Issue Type | Key | Summary | Story Points |
|---|---|---|---|
| Story | UWSDEV-41 | DC21: As a researcher I want to restrict who can access the file data and metadata for files I upload | 4 |
| Story | UWSDEV-40 | DC21: As an administrator I want to control the content and structure of the Dashboard page so I can provide guidelines to researchers | 1 |

# 8 Bug Fixes

Nil.