Science & Technology Facilities Council

TopCAT

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4th ICAT Workshop

ILL, Grenoble

20th March 2012

Overview

- TopCAT
- Screen shoots
- Customisation
- Future Plans
- Links
- Summary

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TopCAT

- Provides a web interface to ICAT
- Allows users to search metadata
- Allows users to download data files / data sets

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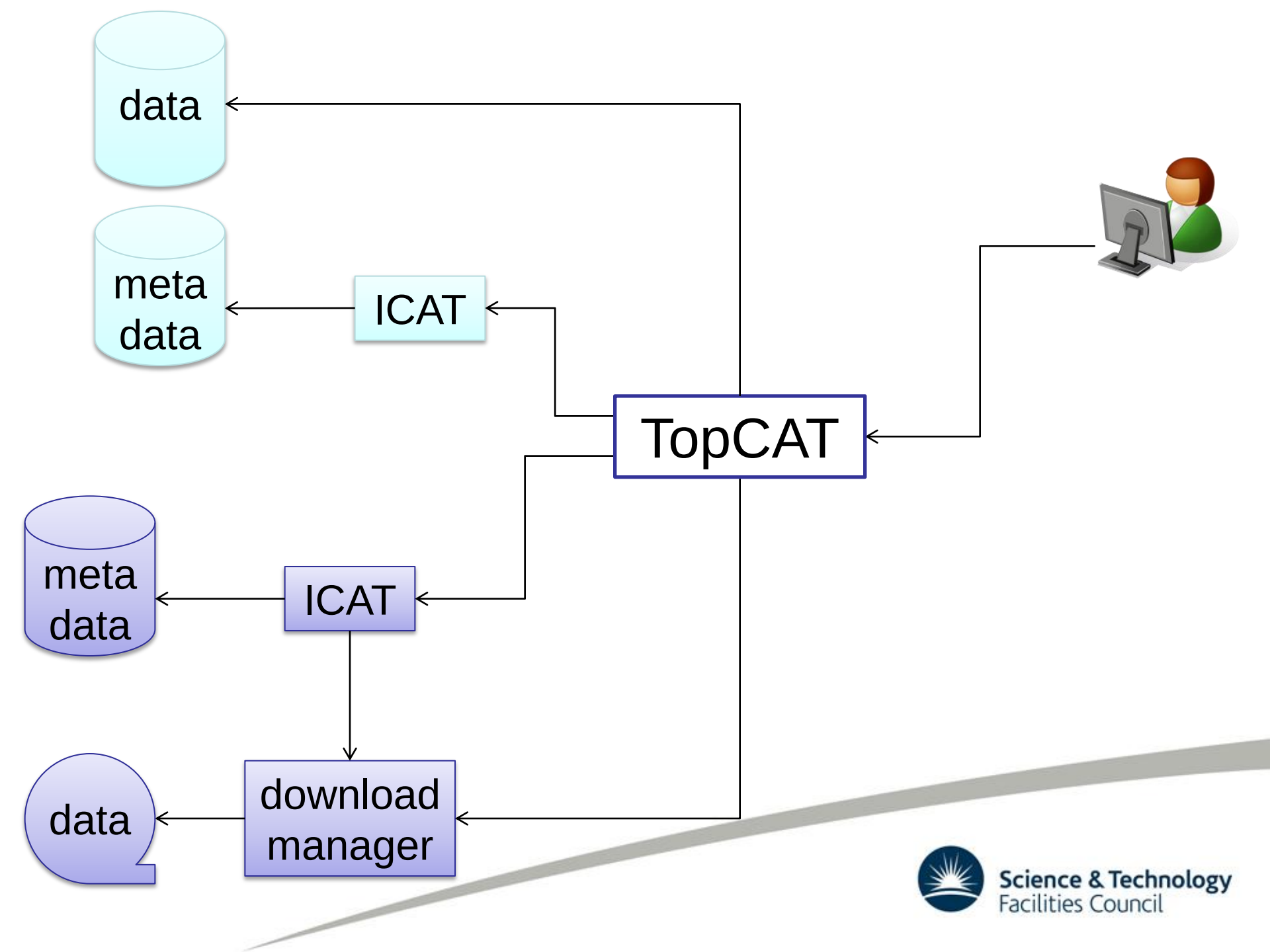

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TopCAT

- Developed using Google Web Toolkit
- GWT generates browser specific Java script
- Java script is served to the users web browser

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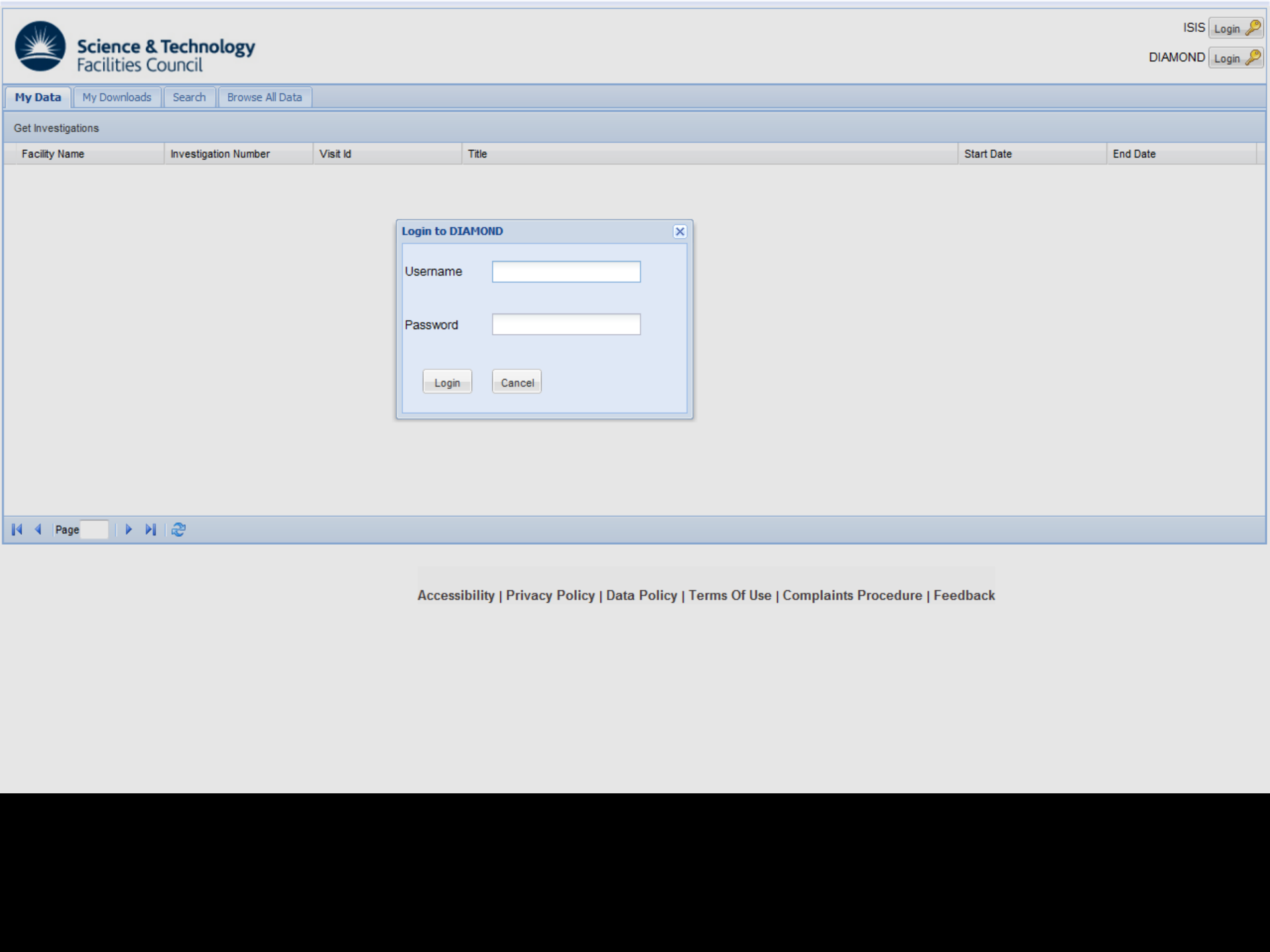
TopCAT Server

- Runs in Glassfish servlet container
- Session information is stored in an Oracle db
- Makes use of the ICAT WSDL interface
- Communicates with multiple ICATs
- Can make use of a download manager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Facilities Council
ISIS Login
DIAMOND Login
My Data
My Downloads
Search
Browse All Data
Get Investigations
Facility Name
Investigation Number
Visit Id
Title
Start Date
End Date
Login to DIAMOND
Username
Password
Login
Cancel
Page
Accessibility | Privacy Policy | Data Policy | Terms Of Use | Complaints Procedure | Feedback

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ISIS Login

DIAMOND Logout

My Data | My Downloads | Search | Browse All Data

Get Investigations

Facility Name	Investigation Number	Visit Id	Title	Start Date	End Date
DIAMOND	NT1179	NT1179-3	Assisted MX Data Collection and Automated Data Processing	2011-05-18 01:00	2011-05-18 09:00

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DIAMOND Logout

My Data | My Downloads | Search | Browse All Data

Get Investigations

Facility Name	Investigation Number	Visit Id	Title	Start Date	End Date
DIAMOND	NT1179	NT1179-3	Assisted MX Data Collection and Automated Data Processing	18/05/2011 01:00	18/05/2011 09:00

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Investigation: Assisted MX Data Collection and Automated Data Processing

View

Dataset Name	Status	Type	Description
DLS-Test		experiment_raw	unknown
DLS-Test-210710-1450		experiment_raw	unknown
DLS-Test-210710-1452		experiment_raw	unknown
DLS-Test-210710-1608		experiment_raw	unknown
DLS-Test-210710-1610		experiment_raw	unknown
DLS-Test-210710-1611		experiment_raw	unknown
DLS-Test-210710-1612		experiment_raw	unknown
DLS-Test-210710-1615		experiment_raw	unknown
Ferritin/dna-2-A1-68v2_1		experiment_raw	unknown

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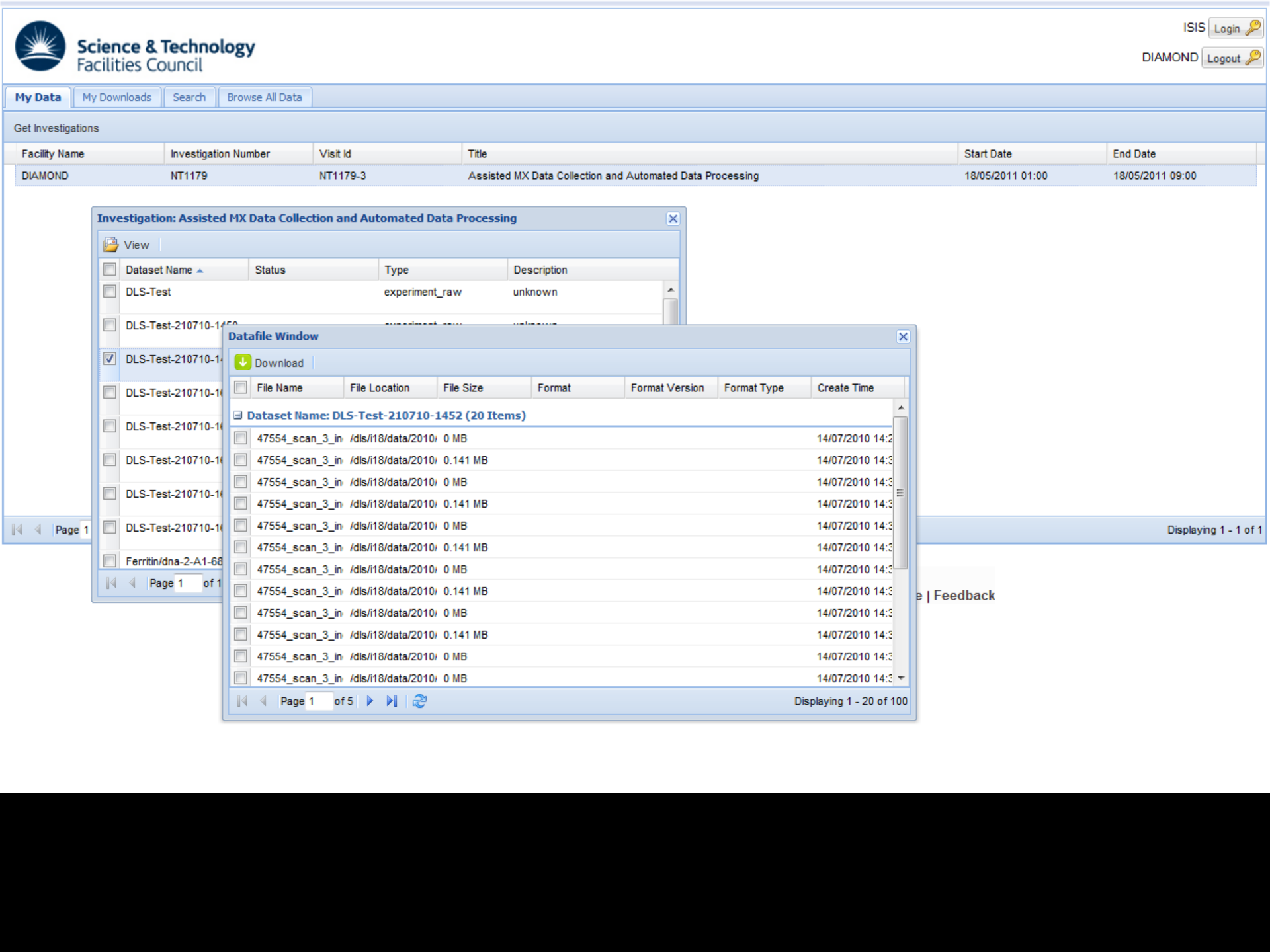
Science & Technology Facilities Council
ISIS Login
DIAMOND Logout
My Data
My Downloads
Search
Browse All Data
Get Investigations
Facility Name
Investigation Number
Visit Id
Title
Start Date
End Date
DIAMOND
NT1179
NT1179-3
Assisted MX Data Collection and Automated Data Processing
18/05/2011 01:00
18/05/2011 09:00
Investigation: Assisted MX Data Collection and Automated Data Processing
View
Dataset Name
Status
Type
Description
DLS-Test
experiment_raw
unknown
DLS-Test-210710-1452
DLS-Test-210710-1
DLS-Test-210710-1
DLS-Test-210710-1
DLS-Test-210710-1
DLS-Test-210710-1
Ferritin/dna-2-A1-68
Page 1
of 1
Datafile Window
Download
File Name
File Location
File Size
Format
Format Version
Format Type
Create Time
Dataset Name: DLS-Test-210710-1452 (20 Items)
47554_scan_3_in
/dls/i18/data/2010/
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0.141 MB
14/07/2010 14:2
14/07/2010 14:3
Page 1
of 5
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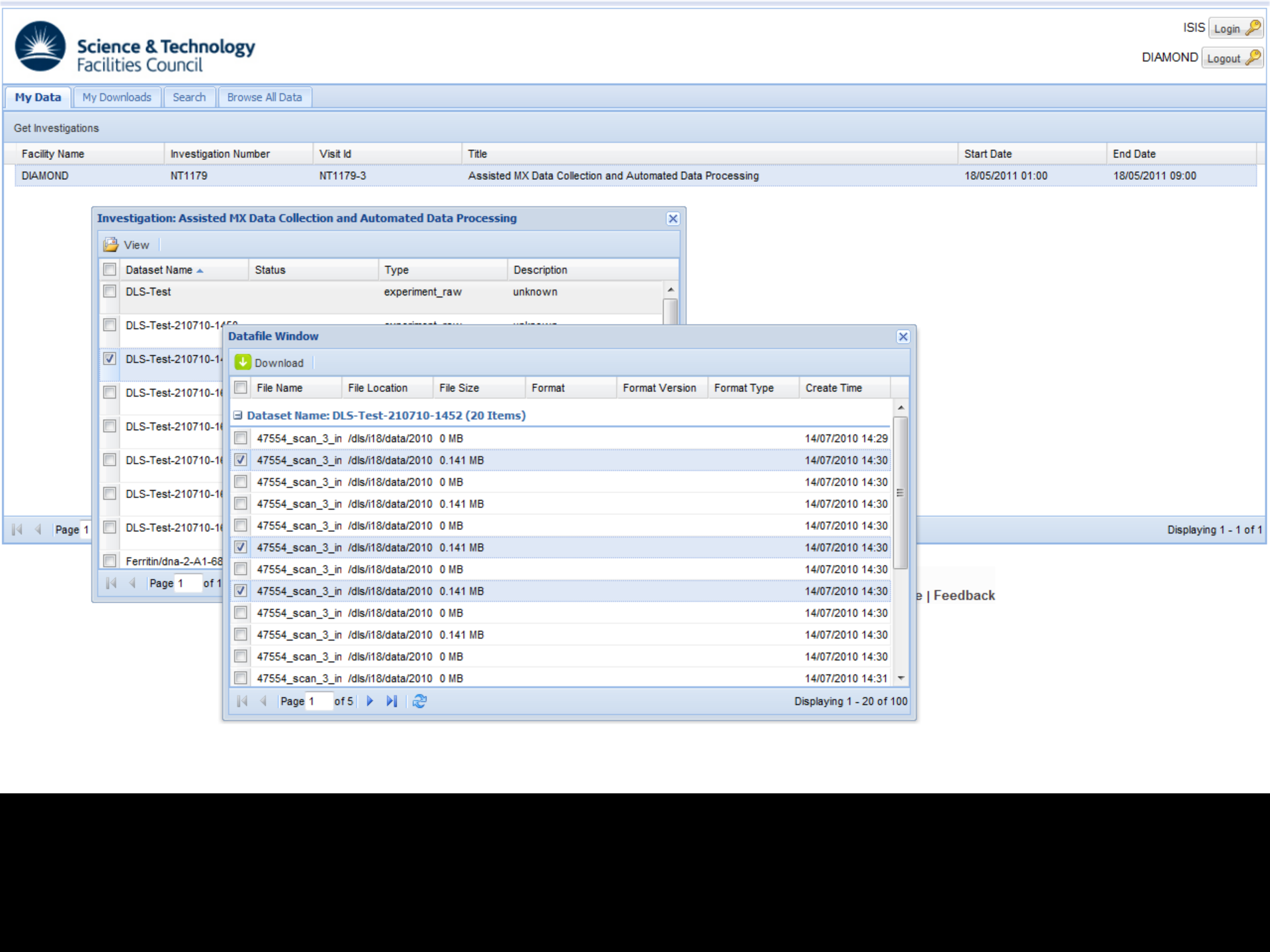
Science & Technology Facilities Council
ISIS Login
DIAMOND Logout
My Data
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Search
Browse All Data
Get Investigations
Facility Name
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Investigation: Assisted MX Data Collection and Automated Data Processing
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47554_scan_3_in /dls/i18/data/2010 0 MB 14/07/2010 14:31
Page 1 of 5
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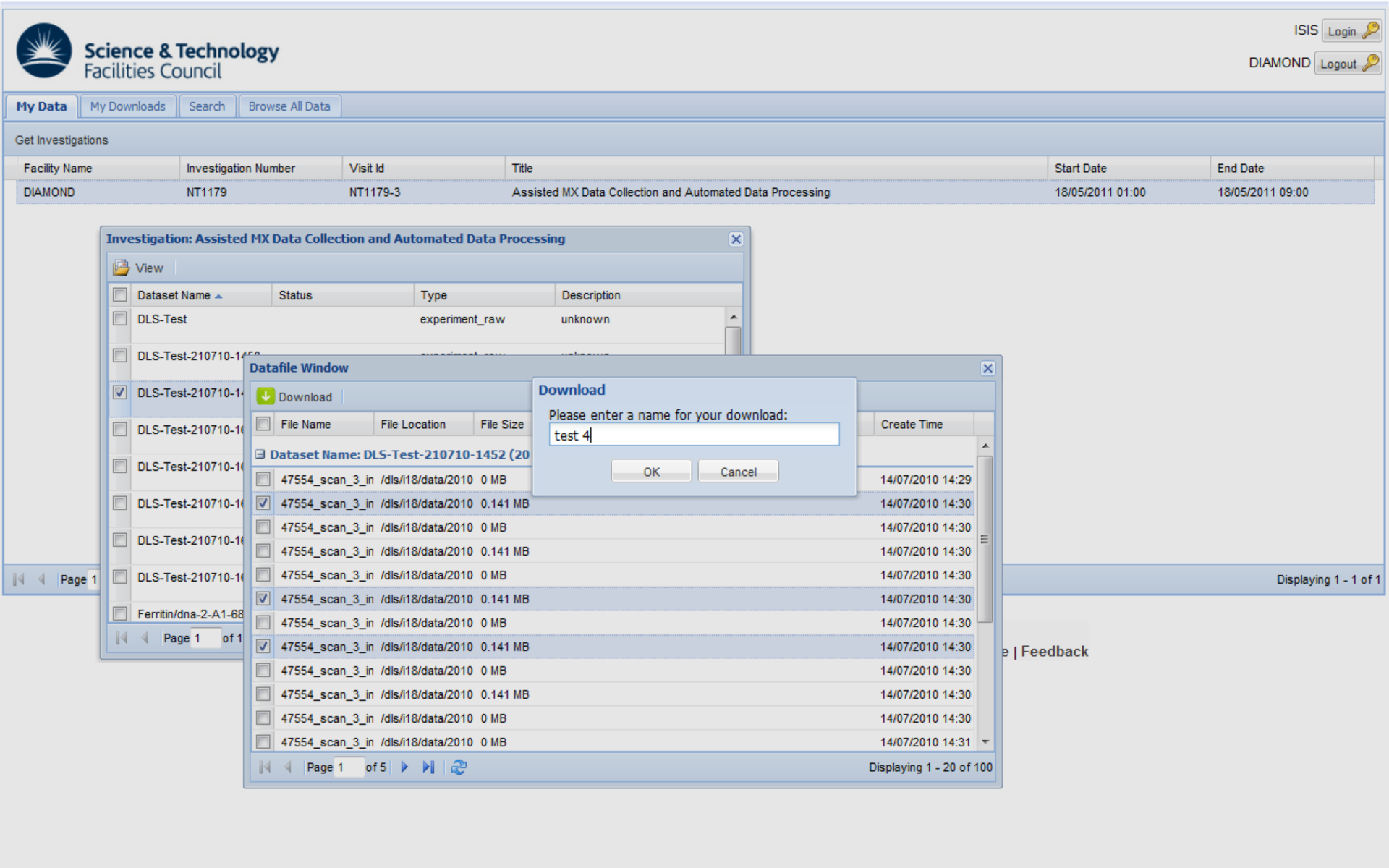
Science & Technology Facilities Council
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Browse All Data
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47554_scan_3_in /dls/i18/data/2010 0 MB 14/07/2010 14:30
47554_scan_3_in /dls/i18/data/2010 0.141 MB 14/07/2010 14:30
47554_scan_3_in /dls/i18/data/2010 0 MB 14/07/2010 14:30
47554_scan_3_in /dls/i18/data/2010 0 MB 14/07/2010 14:31
Page 1 of 5
Displaying 1 - 20 of 100
Download
Please enter a name for your download:
test 4
OK
Cancel
Displaying 1 - 1 of 1
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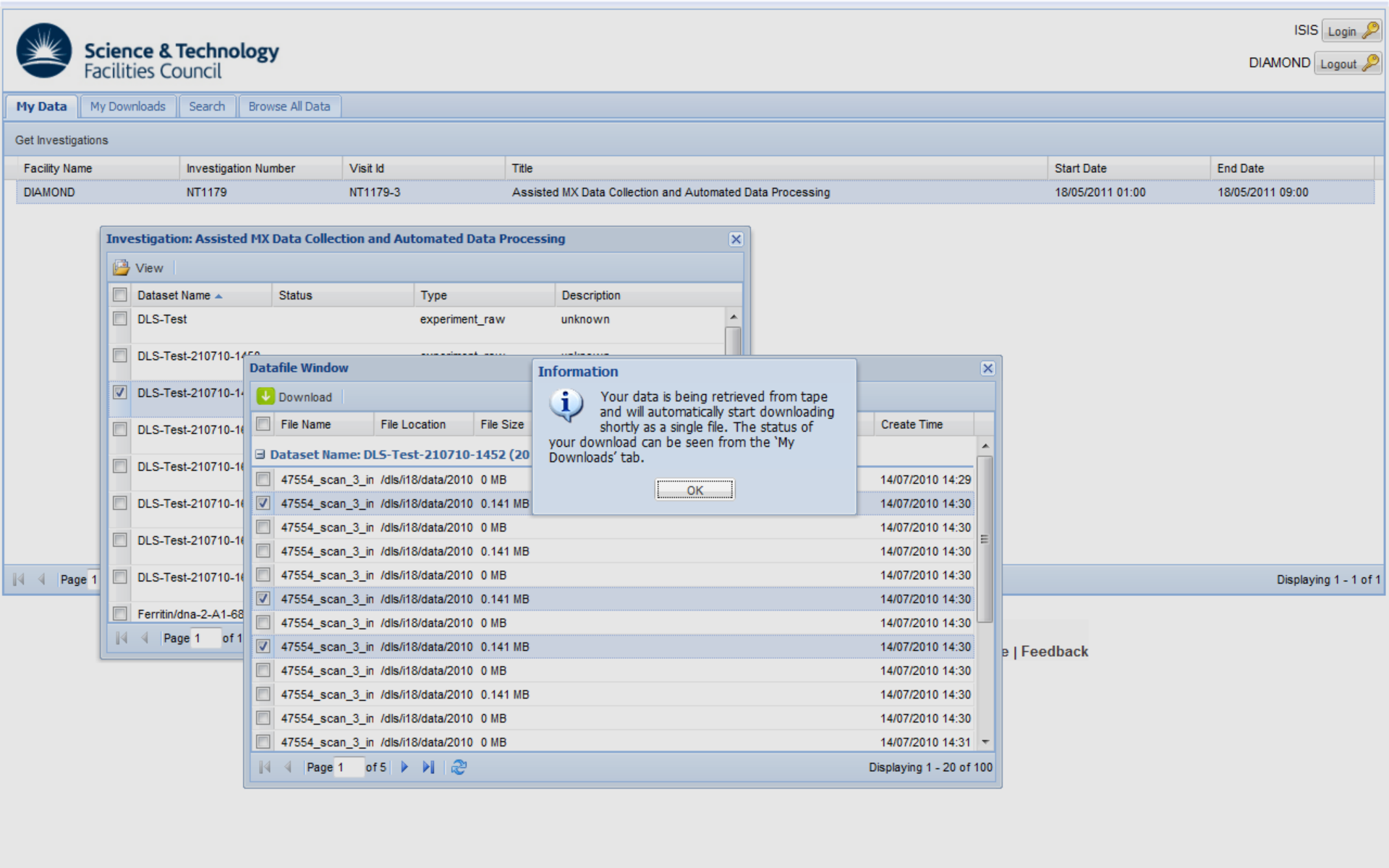
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Description
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Datafile Window
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File Name
File Location
File Size
Create Time
Dataset Name: DLS-Test-210710-1452 (20
47554_scan_3_in /dls/i18/data/2010 0 MB 14/07/2010 14:29
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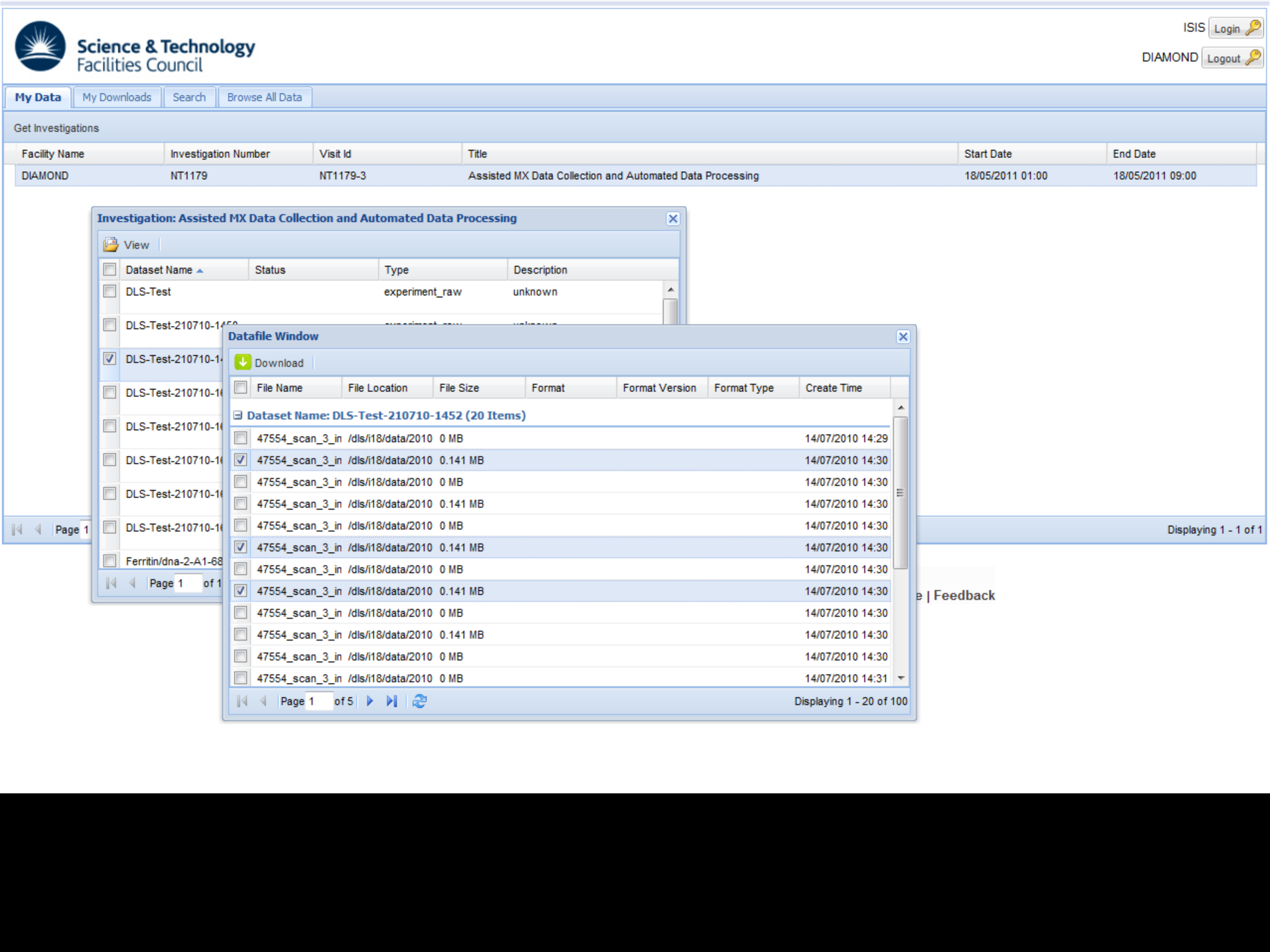
Page 1 of 5
Displaying 1 - 20 of 100
Information
Your data is being retrieved from tape and will automatically start downloading shortly as a single file. The status of your download can be seen from the 'My Downloads' tab.
OK
Page 1 of 1
Displaying 1 - 1 of 1
e | Feedback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My Downloads
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Browse All Data
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Facility Name
Investigation Number
Visit Id
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File Name
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File Size
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Format Type
Create Time
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47554_scan_3_in /dls/i18/data/2010 0 MB 14/07/2010 14:31
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Displaying 1 - 1 of 1
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ISIS Login

DIAMOND Logout

My Data | **My Downloads** | Search | Browse All Data

Facility Name	Submit Time	Download Name	Status	Download Availability	Download
DIAMOND	15/03/2012 16:16	test 4	in progress	6 days, 23 hours, 59 minutes	waiting
DIAMOND	15/03/2012 16:14	test 3	available	6 days, 23 hours, 57 minutes	re-download
DIAMOND	15/03/2012 10:36	t2	available	6 days, 18 hours, 19 minutes	re-download
DIAMOND	14/03/2012 15:38	test 1	available	5 days, 23 hours, 21 minutes	re-download

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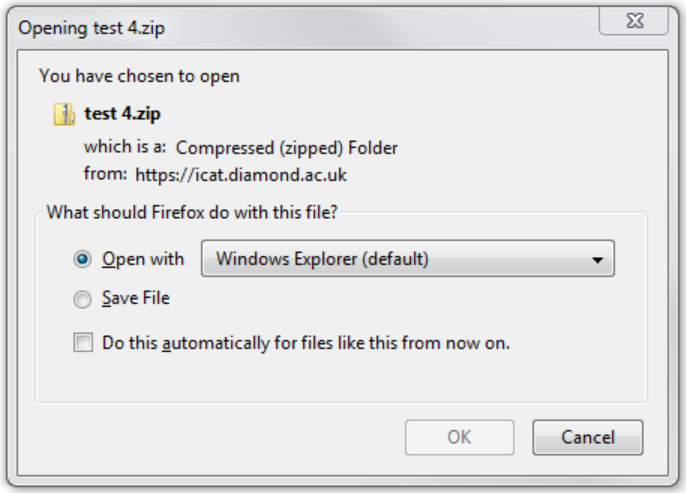
ISIS Login

DIAMOND Logout

My Data | **My Downloads** | Search | Browse All Data

Facility Name	Submit Time	Download Name	Status	Download Availability	Download
DIAMOND	15/03/2012 16:16	test 4	available	6 days, 23 hours, 59 minutes	re-download
DIAMOND	15/03/2012 16:14	test 3	available	6 days, 23 hours, 57 minutes	re-download
DIAMOND	15/03/2012 10:36	t2	available	6 days, 18 hours, 19 minutes	re-download
DIAMOND	14/03/2012 15:38	test 1	available	5 days, 23 hours, 20 minutes	re-download



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ISIS Login

DIAMOND Logout

My Data | My Downloads | **Search** | Browse All Data

Keywords [ ] Search

(•) Search Just My Data ( ) Search All Data

Advanced Search

Facilities Search

Facility DIAMOND

Investigation Search

Start Date [ ]

End Date [ ]

Visit Id [ ]

BeamLine
- any
- b16
- b18
- b21
- b22

Search Reset

Facility Name	Investigation Number	Visit Id	Title	Start Date	End Date

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ISIS Login

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My Data | My Downloads | Search | **Browse All Data**

Download

- i11
- i12
- i13
- i13-1
- i15
- i16
- i18
- i19
- i20
- i20-1
- i22
- i24
- none
- p45
  - Assisted MX Data Collection and Automated Data Processing(Inv. Id:NT1179 & Visit Id:NT1179-3)
    - all in one
    - cypa
    - DLS-Test
    - DLS-Test-210710-1450
    - DLS-Test-210710-1452
      - 47554_scan_3_index_100.dat
      - 47554_scan_3_index_100_scalar.dat
      - 47554_scan_3_index_101.dat
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      - 47554_scan_3_index_102_scalar.dat
      - 47554_scan_3_index_103.dat
      - 47554_scan_3_index_103_scalar.dat
      - 47554_scan_3_index_104.dat

Customisation

- Plug in architecture allows for some customisation
  - Search forms
  - Download service
- Logo and links can be customised via a configuration file

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Future Plans

- E-mail alerts when downloads ready
- Parameter searching
- Single sign on to multiple sites
- Modification of access permissions
  - Grant read access to other users

Links

- TopCAT the movie
  - http://code.google.com/p/icatproject/downloads/
- TopCatCAT demo site
  - https://www.icatproject.org:8181/
- ISIS TopCAT
  - https://data.isis.stfc.ac.uk/
- Diamond TopCAT
  - https://icat.diamond.ac.uk/

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Summary

- View meta data from multiple ICATs
- Download data files and data sets
- Provide customised search via plug in

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