Upgrading to DFdiscover 2018

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Who we are

- NIH / NIAID / OCICB / IBRSP
- OCICB - Office of Cyber Infrastructure and Computational Biology
- IBRSP - International Biomedical Research Support Program
- 2009 – First DataFax study
- 2019 – We support more than 100 active studies
IBRSP program using DFdiscover to support over 100 studies in 16 countries

Overview
- Countries: 16
- Active DFdiscover Studies: > 100
- Active DFdiscover users: > 500
What we do

• Research support services
  o Infrastructure support
  o Clinical data services
Upgrading from DataFax 2014 to DFdiscover 2018

• December 2018 – Decided to upgrade from DataFax 2014.1.2 to DFdiscover 2018

• January 2019 – Started to test in a DEV and QA environment
Why upgrade

• Lots of good reasons to upgrade to DFdiscover 2018
• IBRSP’s main reasons:
  1. DFcollect
  2. High resolution images
  3. Commercial certificate authorities
Why we want DFcollect
Study teams want iPads & Apps

iPads & Apps VS. Paper CRFs
Upgrade challenges

- IBRSP upgraded at the end of May 2019
- From DataFax 2014.1.2 to DFdiscover 2018 version 5.1.1
- The upgrade was a success
- But we faced some challenges:
  - Working with a very large user community (> 500 active users) spread throughout the world
  - Completing upgrade installation/testing in the space of the weekend
  - Dealing with unforeseen software changes
  - Working with DF/Net to resolve some bugs
Managing a large user community
Managing a large user community

More than 500 active users:

- Communication
- Timing
- Training
Completing the upgrade in the space of a weekend

- For logistical reasons, we could only start our upgrade on Friday evening (Eastern Standard Time) the 24th of May.
- We only had 48 hours to install/test the upgrade
- Our testing procedures (when everything goes well) take approximately 20 hours to complete
- But…(shock/horror/gasp)… there were unforeseen issues
- So the entire process took us about 40 hours
Working through the ATK twice in one weekend

WARNING: Beware of the “Start Over” buttons
Hidden fields
### Medical History (Screening)

1. Does the participant currently have or has previously had any of the following?

<table>
<thead>
<tr>
<th>Medical Problems</th>
<th>Yes</th>
<th>No</th>
<th># Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Lung disease</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1.2. Diabetes</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1.3. Hypertension</td>
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<td></td>
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<tr>
<td>1.4. Heart disease</td>
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<tr>
<td>1.5. Kidney disease</td>
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<tr>
<td>1.6. Throat disease</td>
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<tr>
<td>1.7. Cancer</td>
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<tr>
<td>1.8. Psychiatric disorder</td>
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<tr>
<td>1.9. Hepatitis B</td>
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<td></td>
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<tr>
<td>1.10. Hepatitis C</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1.11. Other liver disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.12. Asthma</td>
<td></td>
<td></td>
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<tr>
<td>1.13. Glaucoma</td>
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<tr>
<td>1.14. Arthritis</td>
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<tr>
<td>1.15. Alcohol/Excessive alcohol use</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.16. Other medical problems</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.17.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Field Properties
- **Name**: MHTERM
- **Alias**: MHTERM_Diabetes
- **Description**: 1 Diabetes
- **Prompt**:
- **Legal**:
- **Help**:
- **Constant**: Yes
- **Value**: VALUE
- **Need**: Optional
- **Reason**:
- **Hidden**: No
- **Fill Color**:
- **Display**:
- **Store**:
- **Format**:
- **Use**: Standard
- **Mapping**:
- **Units**:
- **Skip**: 0
- **Execute Edit checks on following events**:
- **File Terminate**
- **File Exit**
- **File Exit**
- **File Exit**
- **Field Exit**
• Over the next few weeks, we worked closely with DFnet to identify and fix 3 bugs:

  1. DFopen_patent_binder
  2. Exported column headers
  3. Loading user roles/permissions in DFadmin

• All of which were fixed in the 5.1.4 patch release
```python
edit DFopen_patient_binder()
```

This code snippet appears to be part of a larger program, possibly involving data manipulation or analysis. The specific context of the code is not clear from the image alone. It seems to be written in a language resembling Python, given the syntax and style. Without additional context or the full code, it's challenging to provide a detailed explanation of the functionality or purpose of this snippet.
Exported column headers
Loading user roles/permissions in DFadmin
DFdiscover 5.1.4 patch release

This patch release resolves the following issues in the 5.1.0 client tools:

- The following issues in DFilexpose have been corrected:
  1. In the DFilexpose_patien_t_binder! function, do not refresh the subject binder until all of the actions have been executed.
  2. If a field requires a (new) reason, and the reason is added using the metadata panel, the Add Reason dialog still appears when leaving the field. The dialog should not appear.
  3. In Data view, if Field > Revert is chosen or the Revert to Old Value button is clicked in the reason dialog, the data field becomes read-only. The read-write state should not change.
  4. If no legal range is defined and the field data value is reset to the No Choice or Not Checked value, the resolved Missing Value query is not updated. The query should be automatically un-resolved.
  5. To be compatible with the update to include user-defined properties in the next release, the data type for edit check symbols has been updated to 16-bit from 8-bit.
  6. Previous behavior in DFilexpose with respect to the column headings used during data export has been restored, so that the field description is not used by default.
  7. An overflow condition that could cause DFbatch to lose contact with the study server has been corrected.

- The following issue in DFadmin has been corrected:
  1. The action of DFadmin when loading user/role/permissions has been sped up significantly by optimizing order of operations.
Thank You to DF/Net Research

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