Subject API search filter by status

The Subject API search filter by status in Grouper / Subject API v2.1.4+ allows free-form subject searches to only return certain status

There are three types of subject API searches: by id, by identifier, and free-form. This does not affect the searches by id or identifier, only free-form. Free-form searches are generally done by users on UI's when looking to add users to groups. If by default the source filters out inactive users, then inactive users will not accidentally get added to groups (or permissions or privileges).

Note: this is available in the LDAP and JDBC2 source, but not the JDBC source.

Using

Its difficult to explain how to use this in a UI, since the labels and values will be custom to your institution. See your institution's Grouper documentation for what these labels are.

For example, lets assume the "user label" for status is "status", and the values can be "all, active, inactive, pending". By default, the filter might be "status!=inactive"

In your free-form search, you can use for example:

```
John Smith
```

That would internally be translated to: "john smith status!=inactive" for your sources which have status configured. For other sources it will search "John Smith"

The syntax is the status label, then

```
=    equals
!=   not equals
<>   not equals (same as !=)
```

then a value. Only one expression can be used, and only one value. If multiple expressions are used, then the first one will be used, the others will be ignored. The expression can appear anywhere in the search entry.

```
John status=all Smith              // will search "John Smith" in all sources
```

```
status=inactive john smith


// will search "john smith" in all sources except the status source where it will search "john smith" with
status inactive
```

The labels are not case-sensitive

```
John Smith Status!=PenDing          //will search "John Smith" in all sources except the status sources, where
it searchs "John Smith" with status not equal to pending
```

If the optional list of valid status labels are **not** configured, then invalid status values will return no results

```
John Smith Status!=somethingWhat       //will search "John Smith" in all sources except the status source,
which will not find any results for the invalid status
```

If the optional list of valid status labels **are** configured, then invalid status values will return all results. This is because multiple sources could have multiple status labels, and it fails open. So this configuration is not recommended.

```
John Smith Status!=somethingWhat       //will search "John Smith" in all sources since this is not a valid
status label for the status source
```

Note: status labels and values must be alphanumeric, underscore, or dash

Configuration

The configuration is the same for the JDBC2 or LDAP source. In the sources.xml, have a section like this:

```
    <!-- ############################  STATUS SECTION for searches to filter out inactives and allow
                                                the user to filter by status with e.g. status=all
                                                this is optional, and advanced -->
    <!-- column or attribute which represents the status -->

    <init-param>
      <param-name>statusDatastoreFieldName</param-name>
      <param-value>status</param-value>
    </init-param>
    <!-- search string from user which represents the status.  e.g. status=active -->
    <init-param>
      <param-name>statusLabel</param-name>
      <param-value>status</param-value>
    </init-param>
    <!-- available statuses from screen (if not specified, any will be allowed). comma separated list.
         Note, this is optional and you probably dont want to configure it, it is mostly necessary
         when you have multiple sources with statuses...  if someone types an invalid status
         and you have this configured, it will not filter by it -->
    <!--
    <init-param>
      <param-name>statusesFromUser<param-name>
      <param-value>Active, Inactive, Pending, All</param-value>
    </init-param> -->
    <!-- all label from the user -->
    <init-param>
      <param-name>statusAllFromUser</param-name>
      <param-value>All</param-value>
    </init-param>
    <!-- if no status is specified, this will be used (e.g. for active only).  Note, the value should be of the
         form the user would type in -->
    <init-param>
      <param-name>statusSearchDefault</param-name>
      <param-value>status=active</param-value>
    </init-param>
    <!-- translate between screen values of status, and the data store value.  Increment the 0 to 1, 2, etc
for more translations.
         so the user could enter: status=active, and that could translate to status_col=A.  The 'user' is what
the user types in,
         the 'datastore' is what is in the datastore.  The user part is not case-sensitive.  Note, this could
be a many to one -->
    <init-param>
      <param-name>statusTranslateUser0</param-name>
      <param-value>active</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateDatastore0</param-name>
      <param-value>A</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateUser1</param-name>
      <param-value>inactive</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateDatastore1</param-name>
      <param-value>I</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateUser2</param-name>
      <param-value>pending</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateDatastore2</param-name>
      <param-value>P</param-value>
    </init-param>
    <!-- ############################ END STATUS SECTION -->
```

Note, to see log messages, set this in the log4j.properties

```
## subject debug logging
log4j.logger.edu.internet2.middleware.subject = DEBUG
```

sdf

Examples

JDBC2 sources.xml config

```
  <source adapterClass="edu.internet2.middleware.subject.provider.JDBCSourceAdapter2">

       <!--
           CREATE TABLE person_source_v (
                   penn_id varchar(50) NOT NULL,
                   name varchar(50) default NULL,
                   email varchar(200) default NULL,
                   description varchar(50) default NULL,
                   pennname varchar(50) default NULL,
                   description_lower varchar(50) default NULL,
                   STATUS VARCHAR2(20 CHAR),
                   PRIMARY KEY  (penn_id)
                 );
Insert into GROUPER2_1.PERSON_SOURCE_V
   (PENN_ID, NAME, EMAIL, DESCRIPTION, PENNNAME,
    DESCRIPTION_LOWER, STATUS)
 Values
   ('12345678', 'John Smith', NULL, 'John Smith', 'netmon',
    'netmon, 10039438', 'A');
Insert into GROUPER2_1.PERSON_SOURCE_V
   (PENN_ID, NAME, EMAIL, DESCRIPTION, PENNNAME,
    DESCRIPTION_LOWER, STATUS)
 Values
   ('12345679', 'harveycg', NULL, 'harveycg', 'harveycg',
    'harveycg, harveycg, 12345679', 'I');
Insert into GROUPER2_1.PERSON_SOURCE_V
   (PENN_ID, NAME, EMAIL, DESCRIPTION, PENNNAME,
    DESCRIPTION_LOWER, STATUS)
 Values
   ('22345678', 'bwh', NULL, 'bwh', 'bwh',
    'bwh, bwh, 22345678', 'A');
Insert into GROUPER2_1.PERSON_SOURCE_V
   (PENN_ID, NAME, EMAIL, DESCRIPTION, PENNNAME,
    DESCRIPTION_LOWER, STATUS)
 Values
   ('13345678', 'convery', NULL, 'convery', 'convery',
    'convery, convery, 13345678', 'I');
Insert into GROUPER2_1.PERSON_SOURCE_V
   (PENN_ID, NAME, EMAIL, DESCRIPTION, PENNNAME,
    DESCRIPTION_LOWER, STATUS)
 Values
   ('10021368', 'Chris Hyzer', NULL, 'Chris Hyzer', 'mchyzer',
    'chris hyzer, mchyzer, 10021368', 'A');
Insert into GROUPER2_1.PERSON_SOURCE_V
   (PENN_ID, NAME, EMAIL, DESCRIPTION, PENNNAME,
    DESCRIPTION_LOWER, STATUS)
 Values
   ('10039438', 'John Smith', NULL, 'John Smith', 'jsmith',
    'john smith, jsmith, 10039438', 'P');
COMMIT;
           -->

    <id>pennperson</id>
    <name>Penn person</name>
     <type>person</type>
     <init-param>
       <param-name>jdbcConnectionProvider</param-name>
```

```
  <param-value>edu.internet2.middleware.grouper.subj.GrouperJdbcConnectionProvider</param-value>
</init-param>
 <init-param>
  <param-name>maxResults</param-name>
  <param-value>1000</param-value>
</init-param>

 <init-param>
  <param-name>dbTableOrView</param-name>
  <param-value>person_source_v</param-value>
</init-param>
 <init-param>
  <param-name>subjectIdCol</param-name>
  <param-value>penn_id</param-value>
</init-param>
<init-param>
  <param-name>nameCol</param-name>
  <param-value>name</param-value>
</init-param>
<init-param>
  <param-name>descriptionCol</param-name>
  <param-value>description</param-value>
</init-param>
<init-param>
  <!-- search col where general searches take place, lower case -->
  <param-name>lowerSearchCol</param-name>
  <param-value>description_lower</param-value>
</init-param>
<init-param>
  <!-- optional col if you want the search results sorted in the API (note, UI might override) -->
  <param-name>defaultSortCol</param-name>
  <param-value>description</param-value>
</init-param>
<init-param>
  <!-- col which identifies the row, perhaps not subjectId -->
  <param-name>subjectIdentifierCol0</param-name>
  <param-value>pennname</param-value>
</init-param>
<init-param>
  <param-name>subjectIdentifierCol1</param-name>
  <param-value>penn_id</param-value>
</init-param>
<!-- now you can count up from 0 to N of attributes for various cols -->
<init-param>
  <param-name>subjectAttributeCol0</param-name>
  <param-value>pennname</param-value>
</init-param>
<init-param>
  <param-name>subjectAttributeName0</param-name>
  <param-value>PENNNAME</param-value>
</init-param>
<init-param>
  <param-name>subjectAttributeCol1</param-name>
  <param-value>email</param-value>
</init-param>
<init-param>
  <param-name>subjectAttributeName1</param-name>
  <param-value>EMAIL</param-value>
</init-param>
<init-param>
  <param-name>sortAttribute0</param-name>
  <param-value>description</param-value>
</init-param>
<init-param>
  <param-name>searchAttribute0</param-name>
  <param-value>description_lower</param-value>
</init-param>

<!-- ############################  STATUS SECTION for searches to filter out inactives and allow
                                                the user to filter by status with e.g. status=all
                                                this is optional, and advanced -->
```

```
    <!-- column or attribute which represents the status -->

    <init-param>
      <param-name>statusDatastoreFieldName</param-name>
      <param-value>status</param-value>
    </init-param>
    <!-- search string from user which represents the status.  e.g. status=active -->
    <init-param>
      <param-name>statusLabel</param-name>
      <param-value>status</param-value>
    </init-param>
    <!-- available statuses from screen (if not specified, any will be allowed). comma separated list.
         Note, this is optional and you probably dont want to configure it, it is mostly necessary
         when you have multiple sources with statuses...  if someone types an invalid status
         and you have this configured, it will not filter by it -->
    <!--
    <init-param>
      <param-name>statusesFromUser<param-name>
      <param-value>Active, Inactive, Pending, All</param-value>
    </init-param> -->
    <!-- all label from the user -->
    <init-param>
      <param-name>statusAllFromUser</param-name>
      <param-value>All</param-value>
    </init-param>
    <!-- if no status is specified, this will be used (e.g. for active only).  Note, the value should be of the
         form the user would type in -->
    <init-param>
      <param-name>statusSearchDefault</param-name>
      <param-value>status=active</param-value>
    </init-param>
    <!-- translate between screen values of status, and the data store value.  Increment the 0 to 1, 2, etc
for more translations.
         so the user could enter: status=active, and that could translate to status_col=A.  The 'user' is what
the user types in,
         the 'datastore' is what is in the datastore.  The user part is not case-sensitive.  Note, this could
be a many to one -->
    <init-param>
      <param-name>statusTranslateUser0</param-name>
      <param-value>active</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateDatastore0</param-name>
      <param-value>A</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateUser1</param-name>
      <param-value>inactive</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateDatastore1</param-name>
      <param-value>I</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateUser2</param-name>
      <param-value>pending</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateDatastore2</param-name>
      <param-value>P</param-value>
    </init-param>
    <!-- ########################### END STATUS SECTION -->


  </source>
```

LDAP sources.xml config (note, we dont have status, so we can use affiliation as an example, STAFF means active

```
<source adapterClass="edu.internet2.middleware.grouper.subj.GrouperJndiSourceAdapter">
    <id>pennDirectory</id>
    <name>Penn Directory</name>
    <type>person</type>
    <init-param>
      <param-name>INITIAL_CONTEXT_FACTORY</param-name>
      <param-value>com.sun.jndi.ldap.LdapCtxFactory</param-value>
    </init-param>
    <init-param>
      <param-name>PROVIDER_URL</param-name>
      <param-value>ldap://directory.school.edu:389</param-value>
    </init-param>
    <init-param>
      <param-name>SECURITY_AUTHENTICATION</param-name>
      <param-value>none</param-value>
    </init-param>
    <!--
    <init-param>
      <param-name>SECURITY_PRINCIPAL</param-name>
      <param-value>cn=Manager,dc=example,dc=edu</param-value>
    </init-param>
    <init-param>
      <param-name>SECURITY_CREDENTIALS</param-name>
      <param-value>secret</param-value>
    </init-param>  -->
     <init-param>
      <param-name>SubjectID_AttributeType</param-name>
      <param-value>uid</param-value>
    </init-param>
     <init-param>
      <param-name>SubjectID_formatToLowerCase</param-name>
      <param-value>false</param-value>
    </init-param>
    <init-param>
      <param-name>Name_AttributeType</param-name>
      <param-value>cn</param-value>
    </init-param>
    <init-param>
      <param-name>Description_AttributeType</param-name>
      <param-value>displayName</param-value>
    </init-param>
    <!--
    /// Scope Values can be: OBJECT_SCOPE, ONELEVEL_SCOPE, SUBTREE_SCOPE
    /// For filter use
     -->
    <search>
        <searchType>searchSubject</searchType>
        <param>
            <param-name>filter</param-name>
            <param-value>
                (&amp;amp; (uid=%TERM%) (objectclass=eduPerson))
            </param-value>
        </param>
        <param>
            <param-name>scope</param-name>
            <param-value>
                SUBTREE_SCOPE
            </param-value>
        </param>
        <param>
            <param-name>base</param-name>
            <param-value>
                ou=people,dc=school,dc=edu
            </param-value>
        </param>

    </search>
    <search>
        <searchType>searchSubjectByIdentifier</searchType>
        <param>
            <param-name>filter</param-name>
```

```
            <param-value>
                (&amp;amp; (uid=%TERM%) (objectclass=eduPerson))
            </param-value>
        </param>
        <param>
            <param-name>scope</param-name>
            <param-value>
                SUBTREE_SCOPE
            </param-value>
        </param>
        <param>
            <param-name>base</param-name>
            <param-value>
                ou=people,dc=school,dc=edu
            </param-value>
        </param>
    </search>

    <search>
       <searchType>search</searchType>
         <param>
            <param-name>filter</param-name>
            <param-value>
                (&amp;amp; (|(uid=%TERM%)(|(cn=*%TERM%*)(displayName=*%TERM%*)))(objectclass=eduPerson))
            </param-value>
        </param>
        <param>
            <param-name>scope</param-name>
            <param-value>
                SUBTREE_SCOPE
            </param-value>
        </param>
         <param>
            <param-name>base</param-name>
            <param-value>
                ou=people,dc=school,dc=edu
            </param-value>
        </param>
    </search>
    <init-param>
      <param-name>subjectVirtualAttribute_0_searchAttribute0</param-name>
      <param-value>${subjectUtils.defaultIfBlank(subject.getAttributeValueOrCommaSeparated('uid'),
"")},${subjectUtils.defaultIfBlank(subject.getAttributeValueOrCommaSeparated('cn'), "")},${subjectUtils.
defaultIfBlank(subject.getAttributeValueOrCommaSeparated('displayName'), "")}</param-value>
    </init-param>
    <init-param>
      <param-name>sortAttribute0</param-name>
      <param-value>cn</param-value>
    </init-param>
    <init-param>
      <param-name>searchAttribute0</param-name>
      <param-value>searchAttribute0</param-value>
    </init-param>

     <!-- ############################  STATUS SECTION for searches to filter out inactives and allow
                                                the user to filter by status with e.g. status=all
                                                this is optional, and advanced -->
     <!-- column or attribute which represents the status -->
     <init-param>
       <param-name>statusDatastoreFieldName</param-name>
       <param-value>eduPersonAffiliation</param-value>
     </init-param>
     <!-- search string from user which represents the status.  e.g. status=active -->
     <init-param>
       <param-name>statusLabel</param-name>
       <param-value>status</param-value>
     </init-param>
     <!-- available statuses from screen (if not specified, any will be allowed). comma separated list.
          Note, this is optional and you probably dont want to configure it, it is mostly necessary
          when you have multiple sources with statuses...  if someone types an invalid status
          and you have this configured, it will not filter by it - - >
```

```
    <!- -
    <init-param>
      <param-name>statusesFromUser<param-name>
      <param-value>Active, Inactive, Pending, All</param-value>
    </init-param> - - >
    <!- - all label from the user -->
    <init-param>
      <param-name>statusAllFromUser</param-name>
      <param-value>All</param-value>
    </init-param>
    <!-- if no status is specified, this will be used (e.g. for active only).  Note, the value should be of the
         form the user would type in -->
    <init-param>
      <param-name>statusSearchDefault</param-name>
      <param-value>status=staff</param-value>
    </init-param>
    <!-- translate between screen values of status, and the data store value.  Increment the 0 to 1, 2, etc
for more translations.
         so the user could enter: status=active, and that could translate to status_col=A.  The 'user' is what
the user types in,
         the 'datastore' is what is in the datastore.  The user part is not case-sensitive.  Note, this could
be a many to one -->
    <init-param>
      <param-name>statusTranslateUser0</param-name>
      <param-value>staff</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateDatastore0</param-name>
      <param-value>STAF</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateUser1</param-name>
      <param-value>faculty</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateDatastore1</param-name>
      <param-value>FAC</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateUser2</param-name>
      <param-value>student</param-value>
    </init-param>
    <init-param>
      <param-name>statusTranslateDatastore2</param-name>
      <param-value>STU</param-value>
    </init-param>
    <!-- ########################## END STATUS SECTION -->


   <internal-attribute>searchAttribute0</internal-attribute>

   <!-- ///Attributes you would like to display when doing a search  -->
   <attribute>cn</attribute>
   <attribute>uid</attribute>
   <attribute>displayName</attribute>

 </source>
```

Here is a GSH test

```
Type help() for instructions
gsh 0% grouperSession = GrouperSession.startRootSession();
edu.internet2.middleware.grouper.GrouperSession: 5db68c7a84604969b69a14d72e22efde,'GrouperSystem','application'
gsh 1% SubjectFinder.findById("12345678", false);
2013-04-24 10:25:50,294: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(650) -  - searchType:
searchSubject, filter: (& (uid=12345678) (objectclass=eduPerson))
2013-04-24 10:25:55,205: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 1, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
```

```
pennname,email from person_source_v where penn_id in (?)) where rownum <= 1001, ArrayList size: 1: [0]: 12345678

2013-04-24 10:25:55,209: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where uuid in (?),
ArrayList size: 1: [0]: 12345678

subject: id='12345678' type='person' source='pennperson' name='John Smith'
gsh 2% SubjectFinder.findById("12345679", false);
2013-04-24 10:26:20,890: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(650) -  - searchType:
searchSubject, filter: (& (uid=12345679) (objectclass=eduPerson))
2013-04-24 10:26:25,859: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 1, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where penn_id in (?)) where rownum <= 1001, ArrayList size: 1: [0]: 12345679

2013-04-24 10:26:25,862: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where uuid in (?),
ArrayList size: 1: [0]: 12345679

subject: id='12345679' type='person' source='pennperson' name='harveycg'
gsh 3% SubjectFinder.findById("mchyzer", false);
2013-04-24 10:26:47,331: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(650) -  - searchType:
searchSubject, filter: (& (uid=mchyzer) (objectclass=eduPerson))
2013-04-24 10:26:52,207: [main] DEBUG LdapSubject.<init>(63) -  - LdapSubject Name = Hyzer, Chris
2013-04-24 10:26:52,220: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where penn_id in (?)) where rownum <= 1001, ArrayList size: 1: [0]: mchyzer

2013-04-24 10:26:52,223: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where uuid in (?),
ArrayList size: 1: [0]: mchyzer

subject: id='mchyzer' type='person' source='pennDirectory' name='Hyzer, Chris '
gsh 4% SubjectFinder.findById("jay", false);
2013-04-24 10:27:08,551: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(650) -  - searchType:
searchSubject, filter: (& (uid=jay) (objectclass=eduPerson))
2013-04-24 10:27:13,534: [main] DEBUG LdapSubject.<init>(63) -  - LdapSubject Name = Thrudupa, Dr. John K., PhD
2013-04-24 10:27:13,547: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where penn_id in (?)) where rownum <= 1001, ArrayList size: 1: [0]: jay

2013-04-24 10:27:13,550: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where uuid in (?),
ArrayList size: 1: [0]: jay

subject: id='jay' type='person' source='pennDirectory' name='Thrudupa, Dr. John K., PhD'
gsh 5% SubjectFinder.findByIdentifierAndSource("mchyzer", "pennperson", false);
2013-04-24 10:29:24,254: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 1, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where  ( pennname = ? or penn_id = ? ) ) where rownum <= 1001, ArrayList
size: 2: [0]: mchyzer
[1]: mchyzer

subject: id='10021368' type='person' source='pennperson' name='Chris Hyzer'
gsh 6% SubjectFinder.findByIdentifierAndSource("harveycg", "pennperson", false);
2013-04-24 10:29:39,304: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 1, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where  ( pennname = ? or penn_id = ? ) ) where rownum <= 1001, ArrayList
size: 2: [0]: harveycg
[1]: harveycg

subject: id='12345679' type='person' source='pennperson' name='harveycg'
gsh 7% SubjectFinder.findByIdentifierAndSource("mchyzer", "pennDirectory", false);
2013-04-24 10:29:58,930: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(650) -  - searchType:
searchSubjectByIdentifier, filter: (& (uid=mchyzer) (objectclass=eduPerson))
2013-04-24 10:30:04,001: [main] DEBUG LdapSubject.<init>(63) -  - LdapSubject Name = Hyzer, Chris
subject: id='mchyzer' type='person' source='pennDirectory' name='Hyzer, Chris '
gsh 8% SubjectFinder.findByIdentifierAndSource("jay", "pennDirectory", false);
2013-04-24 10:30:11,807: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(650) -  - searchType:
searchSubjectByIdentifier, filter: (& (uid=jay) (objectclass=eduPerson))
2013-04-24 10:30:16,910: [main] DEBUG LdapSubject.<init>(63) -  - LdapSubject Name = Thrudupa, Dr. John K., PhD
subject: id='jay' type='person' source='pennDirectory' name='Thrudupa, Dr. John K., PhD'
```

```
gsh 9% SubjectFinder.findAll("mchyzer");
2013-04-24 10:31:03,371: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(645) -  - searchType: search,
preStatusFilter: (& (|(uid=mchyzer)(|(cn=*mchyzer*)(displayName=*mchyzer*)))(objectclass=eduPerson)), filter: (&
(& (|(uid=mchyzer)(|(cn=*mchyzer*)(displayName=*mchyzer*)))(objectclass=eduPerson))(eduPersonAffiliation=STAF))
2013-04-24 10:31:12,046: [main] DEBUG LdapSubject.<init>(63) -  - LdapSubject Name = Hyzer, Chris
2013-04-24 10:31:12,047: [main] DEBUG LdapSourceAdapter.searchHelper(435) -  - set has 1 subjects
2013-04-24 10:31:12,048: [main] DEBUG LdapSourceAdapter.searchHelper(436) -  - first is Hyzer, Chris
2013-04-24 10:31:12,077: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 1, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? and  status ='A' order by description) where
rownum <= 1001, ArrayList size: 1: [0]: %mchyzer%

2013-04-24 10:31:12,079: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
like ?, ArrayList size: 1: [0]: %mchyzer%

subject: id='mchyzer' type='person' source='pennDirectory' name='Hyzer, Chris '
subject: id='10021368' type='person' source='pennperson' name='Chris Hyzer'
gsh 10% SubjectFinder.findAll("mchyzer status=active");
2013-04-24 10:33:20,143: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(645) -  - searchType: search,
preStatusFilter: (& (|(uid=mchyzer)(|(cn=*mchyzer*)(displayName=*mchyzer*)))(objectclass=eduPerson)), filter: (&
(& (|(uid=mchyzer)(|(cn=*mchyzer*)(displayName=*mchyzer*)))(objectclass=eduPerson))
(eduPersonAffiliation=active))
2013-04-24 10:33:28,782: [main] DEBUG LdapSourceAdapter.searchHelper(435) -  - set has 0 subjects
2013-04-24 10:33:28,815: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 1, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? and  status ='A' order by description) where
rownum <= 1001, ArrayList size: 1: [0]: %mchyzer%

2013-04-24 10:33:28,817: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
like ?, ArrayList size: 1: [0]: %mchyzer%

subject: id='10021368' type='person' source='pennperson' name='Chris Hyzer'
gsh 11% SubjectFinder.findAll("mchyzer status=all");
2013-04-24 10:33:45,454: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(650) -  - searchType: search,
filter: (& (|(uid=mchyzer)(|(cn=*mchyzer*)(displayName=*mchyzer*)))(objectclass=eduPerson))
2013-04-24 10:33:53,387: [main] DEBUG LdapSubject.<init>(63) -  - LdapSubject Name = Hyzer, Chris
2013-04-24 10:33:53,388: [main] DEBUG LdapSourceAdapter.searchHelper(435) -  - set has 1 subjects
2013-04-24 10:33:53,388: [main] DEBUG LdapSourceAdapter.searchHelper(436) -  - first is Hyzer, Chris
2013-04-24 10:33:53,416: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 1, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? order by description) where rownum <= 1001,
ArrayList size: 1: [0]: %mchyzer%

2013-04-24 10:33:53,418: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
like ?, ArrayList size: 1: [0]: %mchyzer%

subject: id='mchyzer' type='person' source='pennDirectory' name='Hyzer, Chris '
subject: id='10021368' type='person' source='pennperson' name='Chris Hyzer'
gsh 12% SubjectFinder.findAll("mchyzer status=inactive");
2013-04-24 10:34:07,133: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(645) -  - searchType: search,
preStatusFilter: (& (|(uid=mchyzer)(|(cn=*mchyzer*)(displayName=*mchyzer*)))(objectclass=eduPerson)), filter: (&
(& (|(uid=mchyzer)(|(cn=*mchyzer*)(displayName=*mchyzer*)))(objectclass=eduPerson))
(eduPersonAffiliation=inactive))
2013-04-24 10:34:15,775: [main] DEBUG LdapSourceAdapter.searchHelper(435) -  - set has 0 subjects
2013-04-24 10:34:15,811: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? and  status ='I' order by description) where
rownum <= 1001, ArrayList size: 1: [0]: %mchyzer%

2013-04-24 10:34:15,815: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
like ?, ArrayList size: 1: [0]: %mchyzer%

gsh 13% SubjectFinder.findAll("harveycg");
2013-04-24 10:34:53,394: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(645) -  - searchType: search,
preStatusFilter: (& (|(uid=harveycg)(|(cn=*harveycg*)(displayName=*harveycg*)))(objectclass=eduPerson)),
filter: (&(& (|(uid=harveycg)(|(cn=*harveycg*)(displayName=*harveycg*)))(objectclass=eduPerson))
(eduPersonAffiliation=STAF))
```

```
2013-04-24 10:35:01,971: [main] DEBUG LdapSubject.<init>(63) -  - LdapSubject Name = HARVEY, CHUCK GREEN
2013-04-24 10:35:01,972: [main] DEBUG LdapSourceAdapter.searchHelper(435) -  - set has 1 subjects
2013-04-24 10:35:01,973: [main] DEBUG LdapSourceAdapter.searchHelper(436) -  - first is HARVEY, CHUCK GREEN
2013-04-24 10:35:01,998: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? and  status ='A' order by description) where
rownum <= 1001, ArrayList size: 1: [0]: %harveycg%

2013-04-24 10:35:02,001: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
like ?, ArrayList size: 1: [0]: %harveycg%

subject: id='harveycg' type='person' source='pennDirectory' name='HARVEY, CHUCK GREEN'
gsh 14% SubjectFinder.findAll("harveycg status=active");
2013-04-24 10:35:17,865: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(645) -  - searchType: search,
preStatusFilter: (& (|(uid=harveycg)(|(cn=*harveycg*)(displayName=*harveycg*)))(objectclass=eduPerson)),
filter: (&(& (|(uid=harveycg)(|(cn=*harveycg*)(displayName=*harveycg*)))(objectclass=eduPerson))
(eduPersonAffiliation=active))
2013-04-24 10:35:26,584: [main] DEBUG LdapSourceAdapter.searchHelper(435) -  - set has 0 subjects
2013-04-24 10:35:26,612: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? and  status ='A' order by description) where
rownum <= 1001, ArrayList size: 1: [0]: %harveycg%

2013-04-24 10:35:26,616: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
like ?, ArrayList size: 1: [0]: %harveycg%

gsh 15% SubjectFinder.findAll("harveycg status=all");
2013-04-24 10:35:27,866: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(650) -  - searchType: search,
filter: (& (|(uid=harveycg)(|(cn=*harveycg*)(displayName=*harveycg*)))(objectclass=eduPerson))
2013-04-24 10:35:35,539: [main] DEBUG LdapSubject.<init>(63) -  - LdapSubject Name = HARVEY, CHUCK GREEN
2013-04-24 10:35:35,540: [main] DEBUG LdapSourceAdapter.searchHelper(435) -  - set has 1 subjects
2013-04-24 10:35:35,541: [main] DEBUG LdapSourceAdapter.searchHelper(436) -  - first is HARVEY, CHUCK GREEN
2013-04-24 10:35:35,567: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 1, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? order by description) where rownum <= 1001,
ArrayList size: 1: [0]: %harveycg%

2013-04-24 10:35:35,569: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
like ?, ArrayList size: 1: [0]: %harveycg%

subject: id='harveycg' type='person' source='pennDirectory' name='HARVEY, CHUCK GREEN'
subject: id='12345679' type='person' source='pennperson' name='harveycg'
gsh 16% SubjectFinder.findAll("harveycg status=inactive");
2013-04-24 10:35:42,686: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(645) -  - searchType: search,
preStatusFilter: (& (|(uid=harveycg)(|(cn=*harveycg*)(displayName=*harveycg*)))(objectclass=eduPerson)),
filter: (&(& (|(uid=harveycg)(|(cn=*harveycg*)(displayName=*harveycg*)))(objectclass=eduPerson))
(eduPersonAffiliation=inactive))
2013-04-24 10:35:51,459: [main] DEBUG LdapSourceAdapter.searchHelper(435) -  - set has 0 subjects
2013-04-24 10:35:51,489: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 1, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? and  status ='I' order by description) where
rownum <= 1001, ArrayList size: 1: [0]: %harveycg%

2013-04-24 10:35:51,492: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
like ?, ArrayList size: 1: [0]: %harveycg%

subject: id='12345679' type='person' source='pennperson' name='harveycg'
gsh 17% SubjectFinder.findAll("udupa");
2013-04-24 10:36:29,153: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(645) -  - searchType: search,
preStatusFilter: (& (|(uid=udupa)(|(cn=*udupa*)(displayName=*udupa*)))(objectclass=eduPerson)), filter: (&(& (|
(uid=udupa)(|(cn=*udupa*)(displayName=*udupa*)))(objectclass=eduPerson))(eduPersonAffiliation=STAF))
2013-04-24 10:36:37,827: [main] DEBUG LdapSourceAdapter.searchHelper(435) -  - set has 0 subjects
2013-04-24 10:36:37,849: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? and  status ='A' order by description) where
rownum <= 1001, ArrayList size: 1: [0]: %udupa%
```

```
2013-04-24 10:36:37,851: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
like ?, ArrayList size: 1: [0]: %udupa%

gsh 18% SubjectFinder.findAll("udupa status=active");
2013-04-24 10:36:40,004: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(645) -  - searchType: search,
preStatusFilter: (& (|(uid=udupa)(|(cn=*udupa*)(displayName=*udupa*)))(objectclass=eduPerson)), filter: (&(& (|
(uid=udupa)(|(cn=*udupa*)(displayName=*udupa*)))(objectclass=eduPerson))(eduPersonAffiliation=active))

2013-04-24 10:36:48,672: [main] DEBUG LdapSourceAdapter.searchHelper(435) -  - set has 0 subjects
2013-04-24 10:36:48,700: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? and  status ='A' order by description) where
rownum <= 1001, ArrayList size: 1: [0]: %udupa%

2013-04-24 10:36:48,702: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
like ?, ArrayList size: 1: [0]: %udupa%

gsh 19% gsh 20% SubjectFinder.findAll("udupa status=all");
2013-04-24 10:36:50,141: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(650) -  - searchType: search,
filter: (& (|(uid=udupa)(|(cn=*udupa*)(displayName=*udupa*)))(objectclass=eduPerson))
2013-04-24 10:36:58,137: [main] DEBUG LdapSubject.<init>(63) -  - LdapSubject Name = Thrudupa, Dr. John K., PhD
2013-04-24 10:36:58,138: [main] DEBUG LdapSubject.<init>(63) -  - LdapSubject Name = CVFUDUPAQW, FRED
2013-04-24 10:36:58,139: [main] DEBUG LdapSourceAdapter.searchHelper(435) -  - set has 2 subjects
2013-04-24 10:36:58,139: [main] DEBUG LdapSourceAdapter.searchHelper(436) -  - first is CVFUDUPAQW, FRED
2013-04-24 10:36:58,160: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? order by description) where rownum <= 1001,
ArrayList size: 1: [0]: %udupa%

2013-04-24 10:36:58,162: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
like ?, ArrayList size: 1: [0]: %udupa%

subject: id='audupa' type='person' source='pennDirectory' name='CVFUDUPAQW, FRED '
subject: id='jay' type='person' source='pennDirectory' name='Thrudupa, Dr. John K., PhD'
gsh 21% SubjectFinder.findAll("udupa status=faculty");
2013-04-24 10:37:25,830: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(645) -  - searchType: search,
preStatusFilter: (& (|(uid=udupa)(|(cn=*udupa*)(displayName=*udupa*)))(objectclass=eduPerson)), filter: (&(& (|
(uid=udupa)(|(cn=*udupa*)(displayName=*udupa*)))(objectclass=eduPerson))(eduPersonAffiliation=FAC))
2013-04-24 10:37:34,719: [main] DEBUG LdapSubject.<init>(63) -  - LdapSubject Name = Thrudupa, Dr. John K., PhD
2013-04-24 10:37:34,719: [main] DEBUG LdapSourceAdapter.searchHelper(435) -  - set has 1 subjects
2013-04-24 10:37:34,720: [main] DEBUG LdapSourceAdapter.searchHelper(436) -  - first is Thrudupa, Dr. John K.,
PhD
2013-04-24 10:37:34,750: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? and  status ='faculty' order by description)
where rownum <= 1001, ArrayList size: 1: [0]: %udupa%

2013-04-24 10:37:34,752: [main] DEBUG JDBCSourceAdapter2.search(838) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
like ?, ArrayList size: 1: [0]: %udupa%

subject: id='jay' type='person' source='pennDirectory' name='Thrudupa, Dr. John K., PhD'
gsh 22% SubjectFinder.findAll("udupa status!=student");
2013-04-24 11:49:59,887: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(658) -  - searchType: search,
preStatusFilter: (& (|(uid=udupa)(|(cn=*udupa*)(displayName=*udupa*)))(objectclass=eduPerson)), filter: (&(& (|
(uid=udupa)(|(cn=*udupa*)(displayName=*udupa*)))(objectclass=eduPerson))( ! ( eduPersonAffiliation=STU ) ))
2013-04-24 11:50:08,670: [main] DEBUG LdapSubject.<init>(63) -  - LdapSubject Name = Thrudupa, Dr. John K., PhD
2013-04-24 11:50:08,671: [main] DEBUG LdapSourceAdapter.searchHelper(442) -  - set has 1 subjects
2013-04-24 11:50:08,672: [main] DEBUG LdapSourceAdapter.searchHelper(443) -  - first is Thrudupa, Dr. John K.,
PhD
2013-04-24 11:50:08,708: [main] DEBUG JDBCSourceAdapter2.search(836) -  - Query returned 0, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? and  status <> ?  order by description)
where rownum <= 1001, ArrayList size: 2: [0]: %udupa%
[1]: student

2013-04-24 11:50:08,711: [main] DEBUG JDBCSourceAdapter2.search(836) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
```

```
like ?, ArrayList size: 1: [0]: %udupa%

gsh 23% SubjectFinder.findAll("udupa status!=faculty");
2013-04-24 11:51:46,359: [main] DEBUG LdapSourceAdapter.getLdapResultsHelper(658) -  - searchType: search,
preStatusFilter: (& (|(uid=udupa)(|(cn=*udupa*)(displayName=*udupa*)))(objectclass=eduPerson)), filter: (&(& (|
(uid=udupa)(|(cn=*udupa*)(displayName=*udupa*)))(objectclass=eduPerson))( ! ( eduPersonAffiliation=FAC ) ))
2013-04-24 11:51:54,922: [main] DEBUG LdapSubject.<init>(63) -  - LdapSubject Name = CVFUDUPAQW, FRED
2013-04-24 11:51:54,923: [main] DEBUG LdapSourceAdapter.searchHelper(442) -  - set has 1 subjects
2013-04-24 11:51:54,924: [main] DEBUG LdapSourceAdapter.searchHelper(443) -  - first is CVFUDUPAQW, FRED
2013-04-24 11:51:54,965: [main] DEBUG JDBCSourceAdapter2.search(836) -  - Query returned 0, select penn_id,
name, description, description_lower, pennname, email from (select penn_id,name,description,description_lower,
pennname,email from person_source_v where description_lower like ? and  status <> ?  order by description)
where rownum <= 1001, ArrayList size: 2: [0]: %udupa%
[1]: faculty

2013-04-24 11:51:54,968: [main] DEBUG JDBCSourceAdapter2.search(836) -  - Query returned 0, select uuid,name,
description,search_string_lower,identifier,institution,email from grouper_ext_subj_v where search_string_lower
like ?, ArrayList size: 1: [0]: %udupa%

subject: id='4d2331277557471b8ba1d3b6583497da' type='group' source='g:gsa' name='stem1:udupa'
subject: id='audupa' type='person' source='pennDirectory' name='CVFUDUPAQW, FRED '

gsh 24%
```

sdf

Changes to custom sources

This enhancement requires custom sources to put code in to filter out the extraneous status query part. If you want to implement status filtering in a custom source, see the examples for the JDBC2 or LDAP source. e.g. here is the LDAPsource:

```
    private Iterator<SearchResult> getLdapResultsHelper(Search search, String searchValue, String[]
attributeNames, boolean firstPageOnly ) {

      SubjectStatusResult subjectStatusResult = null;

      //if this is a search and not by id or identifier
      boolean subjectStatusQuery = StringUtils.equals("search", search.getSearchType());
      if (subjectStatusQuery) {
        //see if we are doing status
        SubjectStatusProcessor subjectStatusProcessor = new SubjectStatusProcessor(searchValue, this.
getSubjectStatusConfig());
        subjectStatusResult = subjectStatusProcessor.processSearch();

        //strip out status parts
        searchValue = subjectStatusResult.getStrippedQuery();
      }


... further down ...


        String preStatusFilter = filter;
        if (subjectStatusQuery && !subjectStatusResult.isAll() && !StringUtils.isBlank(subjectStatusResult.
getDatastoreFieldName())) {

          //validate the status value
          if (!subjectStatusResult.getDatastoreValue().matches("[a-zA-Z0-9_-]+")) {
            throw new RuntimeException("Invalid status value: " + subjectStatusResult.getDatastoreValue());
          }

          //wrap the query in a status part
          filter = "(&" + filter + "(" + (subjectStatusResult.isEquals()?"":" ! ( ") + subjectStatusResult.
getDatastoreFieldName() + "="
            + subjectStatusResult.getDatastoreValue() + (subjectStatusResult.isEquals()?"":" ) ") + "))";

        }

        if (!StringUtils.equals(preStatusFilter, filter)) {
          if (log.isDebugEnabled()) {
            log.debug("searchType: " + search.getSearchType() + ", preStatusFilter: " + preStatusFilter + ",
filter: " + filter);
          }

        } else {
          if (log.isDebugEnabled()) {
            log.debug("searchType: " + search.getSearchType() + ", filter: " + filter);
          }

        }
```

sdf